

QUERY
UniRef90_L0KWE8
UniRef90_G2DGH0
UniRef90_Q3IJU2
UniRef90_Q12XR2
UniRef90_D7E787
UniRef90_B5JTT8
UniRef90_G0A1H6
UniRef90_UPI0003FE569C
UniRef90_Q5QVW3
UniRef90_F7RXH4
UniRef90_M1FA50
UniRef90_D7E5S3
UniRef90_K6Y5Y3
UniRef90_UPI0003B3D025
UniRef90_Q21H88
UniRef90_I3BYY1
UniRef90_J1QFW2
UniRef90_UPI0003FE6D37
UniRef90_UPI0003A06F59
UniRef90_E1V4D5
UniRef90_K0CIK4
UniRef90_UPI000479908A
UniRef90_C7M4N6
UniRef90_C6V5Z0
UniRef90_Q3J6U6
UniRef90_D3SD42
UniRef90_Q5ZTY0
UniRef90_UPI00036F0703
UniRef90_Q3AEU3
UniRef90_K4KLN8
UniRef90_UPI00037DD9C0
UniRef90_F3LD72
UniRef90_S6ADY3
UniRef90_K0C0T2
UniRef90_UPI0004075CEE
UniRef90_UPI00035EF4D0
UniRef90_B8GPU3
UniRef90_UPI0003484D51
UniRef90_UPI0003B3969A
UniRef90_I1XQW1
UniRef90_F5SYX2
UniRef90_L9PKY3
UniRef90_A1ZY25
UniRef90_L8XYJ9
UniRef90_W9VIE8
UniRef90_UPI0003723886
UniRef90_G4CSJ9
UniRef90_V4JCK1
UniRef90_H2BT11
UniRef90_F0NYU9
UniRef90_UPI0002559DEB
UniRef90_UPI000464B5A8
UniRef90_K1KT85
UniRef90_J9JUM7
UniRef90_DOMHW9
UniRef90_F0IDU4
UniRef90_Q82X50
UniRef90_B3EAR8
UniRef90_UPI000366A262
UniRef90_A0A011QF89
UniRef90_A6F6M8
UniRef90_E1SN93
UniRef90_K2PVF5
UniRef90_UPI0002557F05
UniRef90_T1JKF0
UniRef90_G1ND34
UniRef90_U4TBL7
UniRef90_UPI00047249B4
UniRef90_C4K8F9
UniRef90_UPI000366AB54
UniRef90_UPI00047DDEEA4
UniRef90_R4V2Y6
UniRef90_H8MKE7
UniRef90_B3EHV5
UniRef90_D5CTQ3
UniRef90_UPI0003B60344
UniRef90_A0A023NPA5
UniRef90_H2MBG4
UniRef90_D4H7N1
UniRef90_R7ZNJ4
UniRef90_K2K2X2
UniRef90_UPI0004731B3D
UniRef90_A9HY51
UniRef90_I4A0E9
UniRef90_L8JVB1
UniRef90_C1A7G9
UniRef90_A5FLE7
UniRef90_E8REF4
UniRef90_L0H3V7
UniRef90_C7R7W3
UniRef90_UPI000360D0AC

50 60 70 80
W P E A H T N P E L M A K L A L A N H Y E E L S G L E A V R L P Y C L T V L V E A M
UniRef90_L0KWE8 W P E A H N D A K L M A K L A L A N H Y E E L S G L E A V R L P Y C L T V L V E A M
UniRef90_G2DGH0 F M D L L C R N A P E E L L A C C E V T L L Q Q P L L R R R F F L D D A A I L F F S D I L T T I P D A M
UniRef90_Q3IJU2 F M S L L C R N A P E E L L A C C E V T L L Q Q P L L R R R F F L D D A A I L F F S D I L T T I P D A M
UniRef90_Q12XR2 W P E A H S D A E K M A T L S T V A S H E I A G N L L E A V R Y P Y C L T V L V E A M
UniRef90_D7E787 W P D A H S D A E K M A T L S T V A S H E I A G N L L E A V R Y P Y C L T V L V E A M
UniRef90_B5JTT8 F M D L L C R N A P E E L L A C C E V T L L Q Q P L L R R R F F L D D A A I L F F S D I L T T I P D A M
UniRef90_G0A1H6 F M Q L L C R N A P E E L L A C C E V T L L Q Q P L L R R R F F L D D A A I L F F S D I L T T I P D A M
UniRef90_UPI0003FE569C F M S L L C R N A P E E L L A C C E V T L L Q Q P L L R R R F F L D D A A I L F F S D I L T T I P D A M
UniRef90_Q5QVW3 F M S L L C R N A P E E L L A C C E V T L L Q Q P L L R R R F F L D D A A I L F F S D I L T T I P D A M
UniRef90_F7RXH4 F M S L L C R N A P E E L L A C C E V T L L Q Q P L L R R R F F L D D A A I L F F S D I L T T I P D A M
UniRef90_M1FA50 F L S L L C K N T P E L L A C C E V T L L Q Q P L L R R R F F L D D A A I L F F S D I L T T I P D A M
UniRef90_D7E5S3 W P E A H S D P E K M V K L A V L S G H E I A G L E A V R Y P Y C L T V L V E A M
UniRef90_K6Y5Y3 F M S L L C K N A P E E L L A C C E V T L L Q Q P L L R R R F F L D D A A I L F F S D I L T T I P D A M
UniRef90_UPI0003B3D025 F L S L L C K N P D D L A C C E V T L L Q Q P L L R R R F F L D D A A I L F F S D I L T T I P D A M
UniRef90_Q21H88 F M G L L C K N P E R A C C E V T L L Q Q P L L E R R Y P L L D D A A I L F F S D I L T T I P D A M
UniRef90_I3BYY1 F M D L L C K N P E L L A C C E V T L L Q Q P L L E R R Y A L L D D A A I L F F S D I L T T I P D A M
UniRef90_J1QFW2 F M S L L C K N P E L L A C C E V T L L Q Q P L L R R R Y P L L D D A A I L F F S D I L T T I P D A M
UniRef90_UPI0003FE6D37 F K E L A E T P E L A A E V T L L Q Q P V D I L G V L L D D A A I L F F S D I L T V V P E A M
UniRef90_UPI0003A06F59 F M G L L C E T N P E M A C C E V T L L Q Q P L L E R R Y P L L D D A A I L F F S D I L T T I P D A M
UniRef90_E1V4D5 F M D L L C R N R A D R A C C E V T L L Q Q P L L E R R Y P L L D D A A I L F F S D I L T T I P D A M
UniRef90_K0CIK4 F M D L L C R N P E L L A C C E V T L L Q Q P L L E R R Y P L L D D A A I L F F S D I L T T I P D A M
UniRef90_UPI000479908A F L A M A K H P E L A C C E V T L L Q Q P L L R R R F F L L D D A A I L F F S D I L T T I P D A M
UniRef90_C7M4N6 F F T R C Q T T P E L A A E V T L L V Q Q P V D I L G V V L L D D A A I L F F S D I L L V V P Q E A M
UniRef90_C6V5Z0 F L K L A T T P E L A A E V T L L Q Q P V V D I L G V L L D D A A I L F F S D I L L V V P P E A M
UniRef90_Q3J6U6 F L T L T T T P E L A C C E V T L L Q Q P L L R R R F F L L D D A A I L F F S D I L T T I P H A M
UniRef90_D3SD42 F M N L L C Q N P E L L A C C E V T L L Q Q P L L R R R Y P L L D D A A I L F F S D I L T T I P D A M
UniRef90_Q5ZTY0 F L N L L C K N P E L L A C C E V T L L Q Q P L L R R R Y A L L D D A A I L F F S D I L T T I P D A M
UniRef90_UPI00036F0703 F F T R C R T P E L L A S E I T L V Q Q P I R R R Y G M D D A A I L F F S D I L L V I P Q Q A M
UniRef90_Q3AEU3 F L E M C C K T P E L A V E V T L L Q Q P V R K L G V L L D D A A I L F F A D I L L P L E G M
UniRef90_K4KLN8 F M G L L C K N P E L A C C E V T L L Q Q P L L E R R Y P L L D D A A I L F F S D I L T T I P D A M
UniRef90_UPI00037DD9C0 F M D L L C R N K E L A C C E V T L L Q Q P L L E R R Y E L L D D A A I L F F S D I L T T I P D A M
UniRef90_F3LD72 F M G L L C G N P E M A C C E V T L L Q Q P L L D R R Y Q L L D D A A I L F F S D I L T T I P D A M
UniRef90_S6ADY3 F L S L L C K N P N L A T E V T M Q P L L A R F P L L D D A A I L F F S D I L T T I P D A M
UniRef90_K0C0T2 F L D L L C K N A P E L A C C E V T L L Q Q P L L A R R Y P M D D A A I L F F S D I L T T I P D A M
UniRef90_UPI0004075CEE F M S L L C R N P E L L A C C E V T L L Q Q P L L R R R F F L L D D A A I L F F S D I L T T I P D A M
UniRef90_UPI00035EF4D0 F L Q L L C K S P E M A T E V T L L Q Q P L L E R R F P L L D D A A I L F F S D I L T T V P D A M
UniRef90_B8GPU3 F M D L L C Q S P E M A C C E V T L L Q Q P L L E R F P L L D D A A I L F F S D I L T T I P D A M
UniRef90_UPI0003484D51 F L E L A T T P N L A A E V T I L Q Q P V D I L D V L L D D A A I L F F S D I L L V V P E A M
UniRef90_UPI0003B3969A F M K L M M N P N Q L A C C E V T L L Q Q P L L D R Y L L D D A A I L F F S D I L T T I P D A M
UniRef90_I1XQW1 F M S L L C R N A P E L L A C C E V T L L Q Q P L L R R R Y D L L D D A A I L F F S D I L T T I P D A M
UniRef90_F5SYX2 F M T L L C S T P E L L A C C E V T L L Q Q P L L R R R Y D L L D D A A I L F F S D I L T T V P D A M
UniRef90_L9PKY3 F M G L A T N P D Y A T E V T L L Q Q P L L D R F P L L D D A A I L F F S D I L T T V P D A M
UniRef90_A1ZY25 F L E L V T T P E L A A E V T I L Q Q P V D I L G V L L D D A A I L F F S D I L L V I P E A M
UniRef90_L8XYJ9 F M N L L C C M S P E L A T E V T L L Q Q P L L D R R F F L L D D A A I L F F S D I L T T I P D A M
UniRef90_W9VIE8 F M S L L C K N P E L L A C C E V T L L Q Q P L L R R Y D L L D D A A I L F F S D I L T T I P D A M
UniRef90_UPI0003723886 F L T L L C K T P D L A T E V T L L Q Q P L L A R Y P L L D D A A I L F F S D I L T T V P D A M
UniRef90_G4CSJ9 F L D L L C K N T P E L A T E V T L L Q Q P L L D R F D L L D D A A I L F F S D I L T T V P D A M
UniRef90_V4JCK1 F M D L L C R R C P E L L A C C E V T I L Q Q P L L E R R F P L L D D A A I L F F S D I L T T I P D A M
UniRef90_H2BT11 F F T R C R T P E L L A T E I T V M Q P I N Q I G P L L D D A A I L F F S D I L L V I P Q Q A M
UniRef90_F0NYU9 F F T R C R T P E L L A A E I T L V Q Q P I R R R F P L L D D A A I L F F S D I L L V I P Q Q A M
UniRef90_UPI0002559DEB F F T R C Q T P E L L A A E I T V Q Q P I R R R Y G M L L D D A A I L F F S D I L L V I P Q Q A M
UniRef90_UPI000464B5A8 F M N L L C Q H P E L L T C E V T L L Q Q P L L R R F P L L D D A A I L F F S D I L L T I P D A M
UniRef90_K1KT85 F L E L A Q T P E L L A A E V T L L Q Q P V D I L D V L L D D A A I L F F S D I L L V I P E A M
UniRef90_J9JUM7 F F T I C Q T P E L L A C C E V T L L Q Q P L L Q R Y D L L D D A S I L F F S D I L L V I V Q A L
UniRef90_DOMHW9 F F D V V R T P E L L A T E V T L L Q Q P L L R R F P L L D D A A I L F F S D I L L V V P Q A L
UniRef90_F0IDU4 F F T R C R T P E L L V A E I T T Q Q P V E I V G V L L D D A A I L F F S D I L L V V P Q A M
UniRef90_Q82X50 F L S L L C K N P D F A T E V T L L Q Q P L L A R F S L L D D A A I L F F S D I L T T I P D A M
UniRef90_B3EAR8 F L T L A K T P E L L A A E V T I L Q Q P V D I L G V L L D D A A I L F F S D I L L T P V E P M
UniRef90_UPI000366A262 F M T L L C K N T P E L L A C C E V T L L Q Q P L L D R F D L L D D A A I L F F S D I L L V V P E A M
UniRef90_A0A011QF89 F M Q L L C T N P G L A C C E V T L L Q Q P L L A R F D L L D D A A I L F F S D I L L T V P D A M
UniRef90_A6F6M8 F M S L L C K N A P E L L A C C E V T L L Q Q P L L R R F P L L D D A A I L F F S D I L L T I P D A M
UniRef90_E1SN93 F M S L L C K N T P E L L A C C E V T L L Q Q P L L R R F P L L D D A A I L F F S D I L L T I P D A M
UniRef90_K2PVF5 F F T R C R T P E L L A A E I T V Q Q P I R I V K P L D D A A I L F F S D I L L V I P Q A M
UniRef90_UPI0002557F05 F M D L L C R N T E L L A C C E V T L L Q Q P L L E R Y P L L D D A A I L F F S D I L L T I P D A M
UniRef90_T1JKF0 F F T R C Q T P E L L A C C K L T M Q Q P L N R R F D L L D D A A I L F F S D I L L V I P Q A L
UniRef90_G1ND34 F F D T C R S P K L C C E L T L L Q Q P L L R R R F L L D D A A I L F F S D I L L V V P Q A L
UniRef90_U4TBL7 F M A L L C Q D A E K A C C E V T L L Q Q P I D R F F G L L D D A A I L F F S D I L L T I P D A M
UniRef90_UPI00047249B4 F L S L L C K N K E L A C C E V T I L Q Q P L L E R R F D L L D D A A I L F F S D I L L T I P D A M
UniRef90_C4K8F9 F M S L L C K N T Q L A C C E V T L L Q Q P L L E R R Y P L L D D A A I L F F S D I L L T I P D A M
UniRef90_UPI000366AB54 F L N L L C K N P E L L A C C E V T L L Q Q P L L R R Y P L L D D A A I L F F S D I L L T I P D A M
UniRef90_UPI00047DDEEA4 F L S L L C K N T D L A C C E V T L L Q Q P L L R R Y A L L D D A A I L F F S D I L L T I P D A M
UniRef90_R4V2Y6 F M S L L C S N P D L A C C E V T L L Q Q P L L R R F P L L D D A A I L F F S D I L L T V P D A M
UniRef90_H8MKE7 F L D L L C K N P D L A A E V T V Q Q P I T R L G V L L D D A A I L F F S D I L I P V E A M
UniRef90_B3EHV5 F L T L L C K T P E L L A A E V T I L Q Q P V D L M G V L L D D A A I L F F S D I L L V I N E A M
UniRef90_D5CTQ3 F L N L L C K S P D M A T E V T L L Q Q P L L D R F P L L D D A A I L F F S D I L L T V P D A M
UniRef90_UPI0003B60344 F M D L L C T N P E L L A C C E V T L L Q Q P L L E R F D L L D D A A I L F F S D I L L T I P D A M
UniRef90_A0A023NPA5 F M G L A Q N P E M A C C E L T L L Q Q P L L D R F F L L D D A A I L F F S D I L L T I P D A M
UniRef90_H2MBG4 F F E T C R S P E I L C C E L T L L Q Q P L L R R F P L L D D A A I L F F S D I L L V V P Q A M
UniRef90_D4H7N1 F L E L C K T P D L C C T E V T L L Q Q P I E A F G F D N A A I L F F S D I L I P I E P M
UniRef90_R7ZNJ4 F L E L A K S P D L A A E V T L L Q Q P V D I L G V L L D D A A I L F F S D I L L V I P E A M
UniRef90_K2K2X2 F M D L L C K N T E L L A C C E V T I L Q Q P L L R R F P L L D D A A I L F F S D I L L T I P D A M
UniRef90_UPI0004731B3D F L G L A K N P D Y A T E V T L L Q Q P L L D R Y A L L D D A A I L F F S D I L L T V P D A M
UniRef90_A9HY51 F M G L A Q N P D Y A S E I T L L Q Q P L L A R Y D L L D D A A I L F F S D I L L T V P H A M
UniRef90_I4A0E9 F F T R C Q T P E L L A A E I T L H P Y R R F P I L D D A A I L F F S D I L L V I P Q A M
UniRef90_L8JVB1 F K E L V E T P E L L A A E V T I Q Q P V D I L G V L L D D A A I L F F S D I L L V I P E A M
UniRef90_C1A7G9 F L T M C R T P E L L A V E V T L L Q Q P V D I L G V L L D D A A I L F F S D I L L V I P E A M
UniRef90_A5FLE7 F F T R C Q T P E L L A A E I T V Q Q P I R R L I A P L D D A A I L F F S D I L L V V P Q A M
UniRef90_E8REF4 F L E L C K T P E L L A T E V T L L Q Q P V D L G F L L D D A A I L F F S D I L I P M E A M
UniRef90_L0H3V7 F M Q L L C C M A P E L L A C C E V T L L Q Q P L L E R R F P L L D D A A I L F F S D I L L T I P D A M
UniRef90_C7R7W3 F M D L L C T N P E L L A C C E V T L L Q Q P L L R R Y P L L D D A A I L F F S D I L L T I P D A M
UniRef90_UPI000360D0AC F L S L L C K D V D K A T E V T L L Q Q P F R R F D L L D C A I L F S D I L L T V P D A L

QUERY
UniRef90_L0KWE8
UniRef90_G2DGH0
UniRef90_Q3IJU2
UniRef90_Q12XR2
UniRef90_D7E787
UniRef90_B5JTT8
UniRef90_G0A1H6
UniRef90_UPI0003FE569C
UniRef90_Q5QVW3
UniRef90_F7RXH4
UniRef90_M1FA50
UniRef90_D7E5S3
UniRef90_K6Y5Y3
UniRef90_UPI0003B3D025
UniRef90_Q21H88
UniRef90_I3BYY1
UniRef90_J1QFW2
UniRef90_UPI0003FE6D37
UniRef90_UPI0003A06F59
UniRef90_E1V4D5
UniRef90_K0CIK4
UniRef90_UPI000479908A
UniRef90_C7M4N6
UniRef90_C6V5Z0
UniRef90_Q3J6U6
UniRef90_D3SD42
UniRef90_Q5ZTY0
UniRef90_UPI00036F0703
UniRef90_Q3AEU3
UniRef90_K4KLN8
UniRef90_UPI00037DD9C0
UniRef90_F3LD72
UniRef90_S6ADY3
UniRef90_K0C0T2
UniRef90_UPI0004075CEE
UniRef90_UPI00035EF4D0
UniRef90_B8GPU3
UniRef90_UPI0003484D51
UniRef90_UPI0003B3969A
UniRef90_I1XQW1
UniRef90_F5SYX2
UniRef90_L9PKY3
UniRef90_A1ZY25
UniRef90_L8XYJ9
UniRef90_W9VIE8
UniRef90_UPI0003723886
UniRef90_G4CSJ9
UniRef90_V4JCK1
UniRef90_H2BT11
UniRef90_F0NYU9
UniRef90_UPI0002559DEB
UniRef90_UPI000464B5A8
UniRef90_K1KT85
UniRef90_J9JUM7
UniRef90_DOMHW9
UniRef90_F0IDU4
UniRef90_Q82X50
UniRef90_B3EAR8
UniRef90_UPI000366A262
UniRef90_A0A011QF89
UniRef90_A6F6M8
UniRef90_E1SN93
UniRef90_K2PVF5
UniRef90_UPI0002557F05
UniRef90_T1JKF0
UniRef90_G1ND34
UniRef90_U4TBL7
UniRef90_UPI00047249B4
UniRef90_C4K8F9
UniRef90_UPI000366AB54
UniRef90_UPI00047DEEA4
UniRef90_R4V2Y6
UniRef90_H8MKE7
UniRef90_B3EHV5
UniRef90_D5CTQ3
UniRef90_UPI0003B60344
UniRef90_A0A023NPA5
UniRef90_H2MBG4
UniRef90_D4H7N1
UniRef90_R7ZNJ4
UniRef90_K2K2X2
UniRef90_UPI0004731B3D
UniRef90_A9HY51
UniRef90_I4A0E9
UniRef90_L8JVB1
UniRef90_C1A7G9
UniRef90_A5FLE7
UniRef90_E8REF4
UniRef90_L0H3V7
UniRef90_C7R7W3
UniRef90_UPI000360D0AC

90 100 110 120
G C E I N M G T K N R Q P S V T G H P Y P K D L E G A A V P A D L L Q R G R I L P
L L G L Y F T E T E G E G P K F F E R P V S D S L E N L K M P E N L L L E Q G G D R I L P
L L G L Y F T E T E G E G P K F F E R P V S D S L E N L K M P E N L L L E Q G G D R I L P
G C C E V N M G T K N R Q P S V T D H P Y P K D S L E N L K M P E N L L L E Q G G D R I L P
L L G L Y F A E G E G P Q F A N P V R T A S A D V A K L P V P D D P E A E L R G R I L P
L L G L Y F F V S A G E G P K F V F A K P I E S V A D I E A L P N I P D V N D E L L G G D
L L G L Y F F E Q G E G P R F F K D P I R D A R A V E K L P I P D P E E D D L L G D
L L G L Y F F E T G E G P K F F K T P I R S A A D V D A L P K L N A K R E G V D L G D
G C E V N M G A M D I Q P S I V S N P Y S N S D I P Q I L P D D L E K R E G R I L P
L L G L Y F F E T E G E G P K F F K T P I R S A A D V D A L P K L N A K R E G R I L P
L L G L Y F F E T G E G P A F K K T S T A A D I E K L E V I P I P D P E E D D L L G D
L L G L Y F A E G E G P R F F T Q P I V R T L A D I E K I G I P I P D P E E G E L R R
L L L S F G V I G E G P S K P T I R D F L D V V H L P I P D P E E Q E L R R E
L L G L Y E M I E Q R G P L F P K T I Q S Q A D V D A L R S A D D A H L E L E L
L L G L Y F F E A G E G P R F F R K R I D T A A D I E A L Q V P P D P E E Q D D L L G
L L G L Y F F E T G E G P K F F R K P V R T P E A V A L S V P P D A E E T D D L D
L L G L Y F A E G E G P K F F E R P V R S A A D V A R L G V P D M K A E E G E L R G
N I E V E M K K G V I G P K P T P I R S A A D V Q A I V P N I I A E P E E T D L K
L L G L Y F S I K E G P R F F E R P V R T K N Q V S A L L G V P D P E E S D L S R S
L L G L Y F F E T G E G P R F F R D P I R S L E A I E N L P V I P D P E E Q E L R S
L L G L Y F A E G E G P R F T N P L Q D T K A I H T L K I P S I P D P E E S L S
Q I E V Q M K P D F G P Y L P N P I R S Q I D V D K V L V P P D V N E E E L S D
G I G F R F A R D E G P V T E N P V R T I V D V K K V R V I T P P E E D V P
L L G L Y F F A R T G E G P R F K K P V R T E A D I Q A L K V P I T P H K H E L P
L L G L Y F F E T G E G P I F D K P I R T D A E A K K L F V P D M A S D E L G
L L G L Y F F E T G E G P K F K K T E R P L R D E W E I R D L A V P D D T R S
L L G L Y F E E G E G P R F F E R T V I Q T A A D I D K L F V P D P N Q E L Q
L L G L Y F S A G E G P R F F E R P I E S A K Q V E A L P I P D P E E G E L G
L L G L Y F S A G E G P K F F E R P I Q S A D V E A I R A L A V P D P E T E L A
L L G L Y F S E G E G P R F F E R P V I Q S A A D I T R K L Q V P D P P T V E L N
L L G L Y F F E T G E G P W F F A K T V K T Q A E D A L P I P D P E E Q D L Q
L L G L Y F F A G E G P K F F E R V I D S K S A V E N L P V I P D P E E Q D L Q
L L G L Y H F V T G E G P K F F S K T I Q N A Q D T A N L A V P D M E L G S L D
L L G L Y F V E G E G P K F F S K T I L K T E A D V L A L R A P P E L G S L D
L L Y E M I E K K G P F F P K T I Q S E A D A K K I K V P A D P E S E S L G
G M D L T F V E G K G P I F F Q K L T T E A Q I K Q L P K V G M A S D L D
L L G L Y F F A G E G P R F F K K V L R T E A D V A A L P V P K A A S D L D
L L G L Y F S A G E G P R F F E R P L R D E W E I R D L S A P D P T D K L G
L L G L Y F A S E G E G P K F F E R P L K K E Q D V R A L C V P D M M A K L T
L L G L Y F S E G E G P R F F E R P V R S T Q D V R S I G M P D M Q T L G
N I E V E M K P G L G P W L P N P V R T T Q D V Q K V I V P D V H E T L G
G M D F F E M K N G I G P W L P E N P I K T L Q D V E N L I D P D I E E T L G
N I E V E M K N G I G P W L P N P I R S L Q D V E K A I V P D I L D E T L G
L L G L T F T A G E G P H F A R P I T S A R D I Q A L P I P D P E L E L T S
L L Y E M V E K R G S W F P S T V N S E A D I R K L R I A D G V I D D L S
G M I V E M Q P S V G P V I P D P L K E P I R D R L N Q S I L D V K Q E L L G
L R V E M I P G R G P Y F P D P L R T V E D L R R L R R P D V R E A L R G
G I E I E M K E Q G V G P F L P S P I R S A K D L E K V Q I P D I L S H S L G
L L G L Y F A D G E G P R F F E R P L R E E R E I R S L I V P D P E A D V L
L L K L D F V P G P V F F E N P V R T M A D V E K L R I P D P E A D V L
L L G L Y F T D G E G P V F P T T V R T L A D L D R L R V A D A E T L G
L L G L Y F S E G E G P K F F E R P I T C K A D V D K I G M P D P P E G E L Q
L L G L Y F F E T G E G P R F F Q T L A D N K A T I E N L P E I P D P E E L G
N I D V E M K P G G F G P W V P N P I R S A K D V E Q V V I P E I P N E E L G
L L G L Y F E E G E G P K F F K K P V R T S A D I A A L E V V N T A K D L D
G M E V E M K P T G P P S P L Q S P A D I S R L E T P V N V N V S A K L N G
G M E V V M V P G K G P T F F P P L K E V E D L L K L R Q K V D V S A K L N G
L L G L K F V N G E G P V F E R P I R S L A D I E K L A V P K A D D P E D S L G
L L G L Y F F T T G E G P K F F R P L R N L S A I E K L P I P K A D D E L L G
L L G L Y F F A E G E G P C F K R S V Q T I Q A L D A L P I P N D P E K E L R
D L G L Y F F E V I G E G P K F F K K T V R T E A D I A Q L E W T N P E I S
L L G L Y F F E P G E G P R F F E R P V R D A A A I D A L P V P D I G S E L R
G L H L E L I G D K G P H F P N P L R T P A D I D K L G V P D P V E G T G
G M N V L E I E T K G P I K L S P V I R S K A D I D K L I V P D I D E K L G
L L G L Y F S E G E G P K F F E R P L T T E A A I K A L R V P D I G K D L L G
L L G L Y F A E G E G P R F F E R P V R T A A D V A A I G V P D P E L E L S
L L G L S F A Q G E G P Q F F A H P V R T K A D I E R L G V P D M E I E L R G
G M N V L Q M L T G K G P T F T E P L K E P E D L R L Q A K V D V Q K E L L G
G I T Q L D F N P A P V I A N P I R T M A D A D K L R E L D P E K D V S P
L L P Y E M V E K R G P F A T I R S A S D L K K V H V P D V K D S L S
L L G L Y F F E T G E G P K F F E R P I Q S A A D I Q A L P V P D P E Q E L S
L L G L Y F F V E G E G P K F F E R P L R D E K E V M A L Q V P D L G S L Q
L L L D F A P G E G P R F F A R P L R T S A D D V I A R L A V P D M E S L R Q
L L N F E M K P G V I G P W L P E N P V R S A A D I E K L A S G N V N E N L Q
L L P Y E M I E K K G P R F F P E T V S S E A D L K R L R I A E A E D I N
G M H L T L D E G V I G P Q F P S P L R T P A D V A R L R T V D P E D S L
G I E V L M K E N I G P F I P N P I R S M A D V Q R V Y V P D I Q E S L G
R L S L E F H E G R G P I F A D P V R S Q K A V D D L V V P V P E E A V L P
L L G L Y F A E G E G P H F E R P V R S A A D I E R L G I P D P E Q E L K
L L G L Y F T P G E G P A F H K P V R T K A D V T A L P I P D P N Q E L K
L L G L Y F E T G E G P K F F K K T V R S R A D V I E A L P T V N M A T D L D

QUERY	V	V	L	E	A	K	I	I	130	R	E	K	V	G	P	D	V	P	V	140	G	M	E	G	P	V	T	V	150	A	S	D	L	V	S	V	K	S	F	M	160						
UniRef90_L0KWE8	A	V	L	E	A	M	K	I	I	R	E	K	V	G	P	D	V	P	V	I	G	M	E	G	P	V	T	V	A	S	D	L	V	S	V	K	S	F	M								
UniRef90_G2DGH0	Y	V	M	D	A	V	S	T	I	R	R	R	E	L	K	G	G	V	P	L	I	G	F	F	S	G	S	P	W	T	L	A	T	Y	M	V	I	E	G	G	S	K					
UniRef90_Q3JUJ2	Y	V	M	N	A	V	S	T	I	R	R	R	E	L	K	G	G	V	P	L	I	V	A	G	F	F	S	G	S	P	W	T	L	A	T	Y	M	V	I	E	G	G	S	K			
UniRef90_Q12XR2	A	V	L	E	A	T	K	I	I	D	K	V	G	D	G	K	E	V	P	L	I	V	A	G	F	F	S	G	S	P	W	T	L	A	S	D	L	V	S	V	K	S	F	M			
UniRef90_D7E787	A	V	F	E	S	S	K	I	I	D	K	V	G	D	G	K	E	V	P	L	I	V	A	G	F	F	S	G	S	P	W	T	L	A	S	D	L	V	S	V	K	S	F	M			
UniRef90_B5JTT8	Y	V	M	N	A	V	S	T	I	R	R	R	E	L	K	G	G	V	P	L	I	V	A	G	F	F	S	G	S	P	W	T	L	A	T	Y	M	V	I	E	G	G	S	K			
UniRef90_G0A1H6	Y	V	I	D	A	V	R	T	I	K	T	N	L	D	Q	G	R	V	P	L	I	V	G	F	F	S	G	S	P	W	T	L	A	T	Y	M	V	I	E	G	G	S	K				
UniRef90_UPI0003FE569C	Y	V	M	N	A	V	S	T	I	R	R	K	A	L	N	G	N	E	V	P	L	I	V	G	F	F	S	G	S	P	W	T	L	A	T	Y	M	I	E	E	G	G	S	K			
UniRef90_Q5QVW3	Y	V	M	D	A	V	S	T	I	R	R	K	A	L	N	G	D	V	P	L	I	V	G	F	F	S	G	S	P	W	T	L	A	T	Y	M	V	I	E	E	G	G	S	T	K		
UniRef90_F7RXH4	Y	V	M	K	A	V	S	T	I	R	R	K	A	L	N	G	D	V	P	L	I	V	G	F	F	S	G	S	P	W	T	L	A	T	Y	M	V	I	E	E	G	G	S	T	K		
UniRef90_M1FA50	Y	V	M	N	A	V	S	T	I	R	R	K	A	L	N	G	D	V	P	L	I	V	G	F	F	S	G	S	P	W	T	L	A	T	Y	M	V	I	E	E	G	G	S	T	K		
UniRef90_D7E5S3	V	M	L	E	V	A	E	L	I	R	D	K	L	D	E	N	E	V	P	L	I	V	A	G	L	V	G	P	A	T	L	T	A	H	L	M	G	T	S	N	F	L					
UniRef90_K6Y5Y3	Y	V	M	N	A	V	R	T	I	R	R	N	L	K	G	E	V	P	L	I	V	G	F	F	S	G	S	P	W	T	L	A	T	Y	M	V	I	E	G	G	A	S	K				
UniRef90_UPI0003B3D025	Y	V	M	D	G	V	C	K	K	G	L	A	G	R	V	P	L	I	V	G	F	F	A	G	S	P	W	T	L	A	T	Y	M	I	E	E	G	G	S	S	K						
UniRef90_Q21H88	Y	V	M	D	A	V	S	T	I	R	R	E	L	N	G	R	V	P	L	I	V	G	F	F	S	G	S	P	W	T	L	A	T	Y	M	V	I	E	E	G	G	S	S	K			
UniRef90_I3BYY1	Y	V	M	D	A	V	R	T	I	R	R	E	L	N	G	R	V	P	L	I	V	G	F	F	S	G	S	P	W	T	L	A	T	Y	M	V	I	E	E	G	G	S	S	K			
UniRef90_J1QFW2	Y	V	M	D	A	V	R	T	I	R	R	E	L	N	G	R	V	P	L	I	V	G	F	F	S	G	S	P	W	T	L	A	T	Y	M	V	I	E	E	G	G	S	S	K			
UniRef90_UPI0003FE6D37	Y	V	M	D	A	V	R	T	I	R	R	E	L	N	G	R	V	P	L	I	V	G	F	F	S	G	S	P	W	T	L	A	T	Y	M	V	I	E	E	G	G	S	S	K			
UniRef90_UPI0003A06F59	Y	V	M	N	A	V	R	T	I	R	R	S	E	L	N	G	R	V	P	L	I	V	G	F	F	S	G	S	P	W	T	L	A	T	Y	M	V	I	E	E	G	G	S	S	K		
UniRef90_E1V4D5	Y	V	M	N	A	V	A	T	I	R	R	G	A	L	N	G	R	V	P	L	I	V	G	F	F	S	G	S	P	W	T	L	A	T	Y	M	V	I	E	E	G	G	S	S	K		
UniRef90_K0CIK4	Y	V	M	N	A	V	S	T	I	R	R	G	A	L	N	G	R	V	P	L	I	V	G	F	F	S	G	S	P	W	T	L	A	T	Y	M	V	I	E	E	G	G	S	S	K		
UniRef90_UPI000479908A	Y	V	M	D	A	V	R	V	I	R	R	E	L	H	G	A	V	P	L	I	V	G	F	F	S	G	S	P	W	T	L	A	Y	M	V	I	E	E	G	G	S	S	K				
UniRef90_C7M4N6	Y	V	M	E	A	V	K	L	I	T	K	K	E	L	N	N	A	G	R	V	P	L	I	V	G	F	F	A	G	A	F	I	F	O	C	C	Y	A	V	I	E	E	G	G	S	R	
UniRef90_C6V5Z0	Y	V	L	D	A	I	R	L	I	T	K	E	G	L	A	G	R	V	P	L	I	V	G	F	F	A	G	A	P	F	T	I	F	O	C	C	Y	M	T	I	E	E	G	K	G	S	K
UniRef90_Q3J6U6	Y	V	M	E	A	L	R	L	I	T	R	R	E	L	D	G	R	V	P	L	I	V	G	F	F	A	G	S	P	W	T	L	A	C	O	Y	M	V	I	E	E	G	G	S	S	K	
UniRef90_D3SD42	Y	V	M	D	A	V	R	L	I	R	R	E	L	D	G	R	V	P	L	I	V	G	F	F	A	G	S	P	W	T	L	A	T	Y	M	V	I	E	E	G	G	S	S	K			
UniRef90_Q5ZTY0	Y	V	F	D	A	V	R	L	I	R	R	O	E	M	P	K	E	L	P	L	I	V	G	F	F	A	G	S	P	W	T	L	A	C	O	Y	M	V	I	E	E	G	Q	G	S	R	
UniRef90_UPI00036F0703	Y	V	M	Q	A	T	A	A	T	K	E	K	L	Q	D	E	I	P	L	I	V	G	F	F	A	G	S	P	W	T	L	L	Y	C	Y	C	Q	E	V	I	E	Q	Q	G	S	K	
UniRef90_Q3AEU3	Y	V	L	E	A	I	K	L	I	R	R	E	L	A	G	R	V	P	L	I	V	G	F	F	S	G	S	P	F	T	L	A	S	Y	L	I	E	E	G	G	S	S	K				
UniRef90_K4KLN8	Y	V	V	N	A	V	S	T	I	R	R	E	L	N	G	R	V	P	L	I	V	G	F	F	S	G	S	P	W	T	L	A	T	Y	M	V	I	E	E	G	G	S	S	K			
UniRef90_UPI00037DD9C0	Y	V	M	D	A	V	S	T	I	R	R	K	A	L	N	G	R	V	P	L	I	V	G	F	F	S	G	S	P	W	T	L	A	T	Y	M	I	E	E	G	G	S	S	K			
UniRef90_F3LD72	Y	V	T	D	A	V	S	S	I	R	R	K	A	L	N	G	R	V	P	L	I	V	G	F	F	S	G	S	P	W	T	L	A	T	Y	M	V	I	E	E	G	G	S	S	K		
UniRef90_S6ADY3	Y	V	M	D	A	V	S	Q	I	R	K	T	L	N	N	E	V	P	L	I	V	G	F	F	A	G	S	P	F	T	L	A	C	O	Y	M	V	I	E	E	G	G	S	S	K		
UniRef90_K0C0T2	Y	V	M	N	A	V	S	T	I	R	R	E	L	N	G	A	V	P	L	I	V	G	F	F	S	G	S	P	W	T	L	A	C	O	Y	M	V	I	E	E	G	G	S	S	K		
UniRef90_UPI0004075CEE	Y	V	M	D	A	V	R	T	I	R	R	E	L	K	G	E	V	P	L	I	V	G	F	F	S	G	S	P	W	T	L	A	T	Y	M	V	I	E	E	G	G	T	T	K			
UniRef90_UPI00035EF4D0	Y	V	T	D	A	V	R	S	I	R	H	A	L	D	G	R	V	P	L	I	V	G	F	F	S	G	S	P	F	T	L	A	C	O	Y	M	I	E	E	G	G	S	K				
UniRef90_B8GPU3	Y	V	T	D	A	V	R	L	I	R	R	E	L	D	G	R	V	P	L	I	V	G	F	F	S	G	S	P	W	T	L	A	T	Y	M	V	I	E	E	G	G	S	S	K			
UniRef90_UPI0003484D51	Y	V	L	E	A	I	S	L	I	T	K	R	R	E	L	N	G	R	V	P	L	I	V	G	F	F	A	G	A	P	F	T	I	F	O	C	Y	M	V	I	E	E	G	G	S	K	
UniRef90_UPI0003B3969A	Y	V	M	D	A	V	R	T	I	R	R	E	L	N	G	R	V	P	L	I	V	G	F	F	A	G	S	P	F	T	L	A	T	Y	M	V	I	E	E	G	G	S	S	K			
UniRef90_I1XQW1	Y	V	M	N	A	V	R	T	I	R	R	E	L	K	G	E	V	P	L	I	V	G	F	F	S	G	S	P	W	T	L	A	T	Y	M	V	I	E	E	G	G	S	S	K			
UniRef90_F5SYX2	Y	V	M	D	A	V	R	L	I	R	R	E	L	D	G	R	V	P	L	I	V	G	F	F	S	G	S	P	W	T	L	A	C	O	Y	M	V	I	E	E	G	G	S	S	K		
UniRef90_L9PKY3	Y	V	F	D	A	V	R	Q	I	R	T	E	L	N	G	R	V	P	L	I	V	G	F	F	S	G	S	P	W	T	L	A	C	O	Y	M	V	I	E	E	G	Q	G	S	K		
UniRef90_A1ZY25	Y	V	L	E	A	I	R	T	T	K	K	N	L	D	G	R	V	P	L	I	V	G	F	F	A	G	A	P	W	T	L	F	A	Y	M	V	I	E	E	G	S	S	K				
UniRef90_L8XYJ9	Y	V	M	D	A	V	R	M	I	T	K	S	E	L	D	G	R	V	P	L	I	V	G	F	F	S	G	S	P	W	T	L	A	T	Y	M	L	I	E	E	G	G	S	S	K		
UniRef90_W9VIE8	Y	V	M	N	A	V	K	T	I	R	R	K	A	L	N	G	R	V	P	L	I	V	G	F	F	S	G	S	P	W	T	L	A	T	Y	M	V	I	E	E	G	G	S	S	K		
UniRef90_UPI0003723886	Y	V	M	D	A	V	R	S	I	R	R	A	L	D	G	S	V	P	L	I	V	G	F	F	S	G	S	P	Y	T	L	A	C	O	Y	M	I	E	E	G	G	S	K				
UniRef90_G4CSJ9	Y	V	F	D	A	V	S	S	I	R	R	K	A	L	D	G	R	V	P	L	I	V	G	F	F	S	G	S	P	F	T	L	A	C	O	Y	M	V	I	E	E	G	G	S	K		
UniRef90_V4JCK1	Y	V	M	D	A	V	S	T	I	R	R	Q	E	L	D	G	R	V	P	L	I	V	G	F	F	S	G	S	P	W	T	L	A	T	Y	M	I	E	E	G	G	S	T	K			
UniRef90_H2BT11	Y	V	M	D	A	I	K	M	T	K	K	E	L	N	D	E	V	P	L	I	V	G	F	F	A	G	S	P	W	T	L																

QUERY UniRef90_L0KWE8 UniRef90_G2DGH0 UniRef90_Q3JU2 UniRef90_Q12XR2 UniRef90_D7E787 UniRef90_B5JTT8 UniRef90_G0A1H6 UniRef90_UPI0003FE569C UniRef90_Q5QVW3 UniRef90_F7RXH4 UniRef90_M1FA50 UniRef90_D7E5S3 UniRef90_K6Y5Y3 UniRef90_UPI0003B3D025 UniRef90_Q21H88 UniRef90_I3BYY1 UniRef90_J1QFW2 UniRef90_UPI0003FE6D37 UniRef90_UPI0003A06F59 UniRef90_E1V4D5 UniRef90_K0CIK4 UniRef90_UPI000479908A UniRef90_C7M4N6 UniRef90_C6VZS0 UniRef90_Q3J6U6 UniRef90_D3SD42 UniRef90_Q5ZTY0 UniRef90_UPI00036F0703 UniRef90_Q3AEU3 UniRef90_K4KLN8 UniRef90_UPI00037DD9C0 UniRef90_F3LD72 UniRef90_S6ADY3 UniRef90_K0C0T2 UniRef90_UPI0004075CEE UniRef90_UPI00035EF4D0 UniRef90_B8GPU3 UniRef90_UPI0003484D51 UniRef90_UPI0003B3969A UniRef90_I1XQW1 UniRef90_F5SYX2 UniRef90_L9PKY3 UniRef90_A1ZY25 UniRef90_L8XYJ9 UniRef90_W9VIE8 UniRef90_UPI0003723886 UniRef90_G4CSJ9 UniRef90_V4JCK1 UniRef90_H2BT11 UniRef90_F0NYU9 UniRef90_UPI0002559DEB UniRef90_UPI000464B5A8 UniRef90_K1KT85 UniRef90_J9JUM7 UniRef90_DOMHW9 UniRef90_F0IDU4 UniRef90_Q82X50 UniRef90_B3EAR8 UniRef90_UPI000366A262 UniRef90_A0A011QF89 UniRef90_A6F6M8 UniRef90_E1SN93 UniRef90_K2PVF5 UniRef90_UPI0002557F05 UniRef90_T1JKF0 UniRef90_G1ND34 UniRef90_U4TBL7 UniRef90_UPI00047249B4 UniRef90_C4K8F9 UniRef90_UPI000366AB54 UniRef90_UPI00047DDEEA4 UniRef90_R4V2Y6 UniRef90_H8MKE7 UniRef90_B3EHV5 UniRef90_K2PVF5 UniRef90_D5CTQ3 UniRef90_UPI0003B60344 UniRef90_A0A023NPA5 UniRef90_H2MBG4 UniRef90_D4H7N1 UniRef90_R7ZNJ4 UniRef90_K2K2X2 UniRef90_UPI0004731B3D UniRef90_A9HY51 UniRef90_I4A0E9 UniRef90_L8JVB1 UniRef90_C1A7G9 UniRef90_A5FLE7 UniRef90_E8REF4 UniRef90_L0H3V7 UniRef90_C7R7W3 UniRef90_UPI000360D0AC

170 180 190 200

K W S I K K T D L L E Q A L D I A T E A S I I Y A N A M V E A G A D V I A S M I A P D
K W S L K K D K A S Y N A I L D D F A T E A S I I Y A N A M V E A G A D V I A S M I A P D
N M M F D R P E Q L M H Q L L D R V L A D S V T I A Y L N A N A Q I I A A G A Q S L M I F F D
K M A F A E P E Q L M H Q L L D R V L A D S V T I A Y L N A N A Q I I A A G A Q S L M I F F D
K W S I K K P D D L E T I L D F A T D A C I V Y A N A M V E A G A D V I C V V V A D D
K W S L K K P E D N F D A I M D F A T D A C I V Y A N A M V E A G A D V I C V V V A D D
D M M Y G N P E L L H R L L D D K I T Q S T I A Y L N A N A Q I I A A G A Q S L M I F F D
S M M F E Q P E L L M H Q M L D D K L A Q S V A A Y L N A Q I I A A G A D A V V M V F F D
D F M Y E H P E A M H T L L L D K L A E D V V T D Y L N A N A Q I I Q S G A A A V M Q I F F D
N F M F A D P E A M H T L L L N V L A E S V T Q Y L N A N A Q I I A A G A Q S V M I F F D
N M M Y R E P E K V M H Q L L D D K L A Q S V T S Y L N A N A Q I I A A G A Q S V M I F F D
D F M Y G Q P E V M H K L L D H L A D A V T D Y L N G Q I I R A G A Q S V V Q I F F D
I G L I K K P E Y V R Q F L E V S T D I C I R H A N N L L E H G A D V V C V P
K M A Y A D P N A L H L L L D D K L A D S V I A Y L N A N A Q I I K A G A Q S V M V F F D
D M R Y G A P H L L K A L L L D D K L A D S V A L Y L N A A Q A D A G A N A L M Q I F F D
D F I Y N H P E A A A Q L L M D K L A D S V I A Y L N A N A Q I I A A G A Q A A M I F F D
E M L Y G N P A A L H L L L D D K L A D S V I I L Y L N A N A Q I I A A G A Q A A M I F F D
K M M Y S E P E V L H S L L L D Q K I A D S V T L Y L N A N A Q I I A A G A Q A A V M I F F D
K M L Y A Q P E A M H S L L L D Q K I T D T T I K Y L N K T Q I I A A G A N L V M Q I F F D
D M L Y D Q P E A M H S L L L D K L A D S V I S Y L N G Q I I L A G A Q A V V Q I F F D
D M L Y D T P D T M H R L L L D L A R A V T D Y L N A N A Q I I R A G A Q A V V Q I F F D
D M L Y S Q P E V A H A L L L E K L A R A V T D Y L N A N A Q I I R H G A Q A V V Q I F F D
D M A L N D P Q A L H A L L L S V N T E A V I A Y L S A Q R A A G A Q A L Q V F F D
D F C F T P S F V A H S L L Q K I T D T T I L Y L K K E K V I K A G V D A V Q L F F D
K H L Y A E P E F S H T L L L Q K I T D S T T I A Y L K K E K V I K A G A D L V Q L F F D
D F M F E H P Q V M H H L L L E I L A Q A V T V Y L N A N A Q I I A A G A Q A A V M L F F D
R L M Y G E P Q A M H A L L L N K K V A T A V T E Y L N A N A Q I I R A G A Q A V V M V F F D
D F I Y T E K E A A H L L L N K K L A V S V T A Y L L E Q I I K A G V N A V M I F F D
T F C F T Q P E A A H N L L L Q K I T D T T I S Y L K A K V I K A G V N A V V Q V F F D
N Y M W E A P E A W H E L L G K I A E S T V R Y L K A N A Q I I A A G A Q A V V Q V F F D
D M A F N Q P E A L M H Q L L T V L A D S V T T V Y L N A N A Q I I E A G A Q A V V Q V F F D
T M L Y D Q P Q T L H H I L L G V L A D S V T A Y L N A N A Q I I E A G A Q A V V Q I F F D
D Y M Y Q H P E V L F Q L L L D K L V A S I T D Y L N A N A Q I I L A G A Q A V V Q I F F D
T M L Y Q R P E L L H H I L L D I N A R A V T S Y L N A N A Q I I E A G A Q A V V M I F F D
R M M Y D T P E L M H R L L L D I V S Q S V I S Y L Q A Q I I E A G A Q I V M V F F D
U P I 0 0 0 4 0 7 5 C E E T A M F S Q P Q V M H Q L L D D K L A D S V T S Y L N A N A Q I I A A G A Q S L M I F F D
U P I 0 0 0 3 5 E F 4 D 0 T L M Y S D R P A L L H H V L L D I N A R A V T D Y L N A N A Q I I A A G A Q A V M Q I F F D
E M L Y D D P S T L H H L L L G V L A E A V T V Y L N A N A Q I I A A G A Q A V M V F F D
R M L Y T E P Q L L A H E L L R K I T D T T I T Y L K A N A Q I I E A G A N L V Q L F F D
D F M V T P Q V L H A L L L D K L A Q S V T S Y L N A N A Q I I L A G A Q A V M V F F D
K M L Y A E P H L L H A L L L D K L A D S V T L Y L N A N A Q I I K A G A Q A V M V F F D
D M M F D A P D D Q M H A L L N S V L N A E S V D E Y L N A N A Q I I K A G A Q A I M L F F D
K M L Y N R P D L M H H I L L S I N A K A V A E Y L N A N A Q I I D A G A Q A V M V F F D
T M L Y R T P E L A H S I L L Q K I T D S T I L Y L K A N A Q I I K A G V N L V Q L F F D
E Y M Y S N P A L L H T L L L D Q L S D V I T D Y L N A N A Q I I V N G A A A V Q I F F D
D M M Y A T P D V M H A L L H K L A L S V T D Y L N E Q I I R S G A Q A V V Q I F F D
T M L Y S R P D L L H R I L L E V N T R A V T D Y L N A N A Q I I E A G A Q A V M I F F D
E M M Y D R P D L L H H I L L G V N A E A V T A Y L N E Q I I K A G A Q A V M I F F D
N M M F D R P D L L M H E L L L G K V A N S V T Q Y L N A N A Q I I E S G A Q A A M V F F D
K F C F T N P A A A H T L L L Q K I T D T T I A Y L K A K V A A G V D A V Q I F F D
A F F C F T P K A A H L L L E K I T D T T I D Y L K K K V A E H G V N A V V Q I F F D
N F C F T Q P L A A H A L L L Q K I T D T T I A Y L K K K V A A G V N A V V Q V F F D
T F M Y A E P A Q L H Q L L A K L A Q S V T L Y L N A N A Q I I Q A G A Q S I M I F F D
T M L Y T P D F S H K L L L Q M I T D S T I N Y L K A N A Q I I D A G A N L V Q I F F D
K W L Y K Y P D E F S K L L L Q I L T D T I V K Y L I E Q V N A G A Q M L V Q V F F D
T W L Y R Q P E A S H R L L L S L L T D V L V E F L I A Q I I D A G A Q V V Q V F F D
T F C F S N P K L L A H S L L Q K I L T N T T L Y L K E K V I K A G A D A V Q L F F D
T M L Y A R P D V Y A A L M E K V T M M D M E Y L N A N A Q I I R A G A Q A I Q I F F D
D W M Y A P D V A H A L L L S Q R I T D S T I A Y L R A N A Q I I R A G A N L I Q I F F D
G M L Y D R P D L L H H I L L S V T A D A V V A Y L N A N A Q I I E S G A Q A V M I F F D
K M A F S E P Q T L H L L L D D K L A D S V I S Y L N A N A Q I I A A G A Q S V M V F F D
K M A F A E P A T L H L L L D D K L A D S V I L Y L N A N A Q I I K A G A Q A V M Q I F F D
N F C F S Q P E A A H A L L L Q K I T D T T I L Y L K E K V I K N G V N A V V Q I F F D
E M L Y N R P Q D M H Q L L T V L A D S V V D Y L N A N A Q I I R A G A Q A V Q I F F D
K W L Y S H V E A D S H R L L Q I L T D T I V D Y L V G Q V A A G A Q L L Q V F F D
S W L Y R H P E A S H R L L R L L T D V V T D Y L V G Q V A A G A Q A L Q L F F D
K M R Y Q Q P A L M H R L L S L L S A A V T E Y L K A Q V S A G A Q V V M V F F D
D M L Y T E P Q T L H H I L L E K L T D T V I D Y L N G Q I I L A G A Q S V M I F F D
I M L Y G E P A T L H L L L N K L T Q T V I L Y L N A N A Q I I Q A G V S I M I F F D
H L L Y A E P Q A A H L L L A K L A Q A V S L Y L D E Q I I K A G V N A L M I F F D
T M L Y Q S P E L L H A L L L D K L A I A V T E Y L N A N A Q I I R A G A Q A V V Q I F F D
D F A Y D Q P E V L E R L L N K T A Q A V T A Y L N A N A Q V E A G A Q A L M I F F D
S Y L F E Q P E V A H R L L F Q K I L T D T L I P Y L K M Q V E A G A S I V Q I F F D
K M M Y R E P Q M A H L L L G K I S E T I S A Y L L K Q V E A G A D A V M I F F D
T L M Y K P K L M H H I L L S V T A D A V T E Y L N A N A Q I I E A G A Q A I M I F F D
D M L Y S D P K T L H L L L D D K L A D S V I S Y L N A N A Q I I A A G A Q S V M V F F D
D M C W S E P A L A H R L L D D T L A R S V A A Y L T A Q A A A G A Q A L M V F F D
R W L Y R H P E A S H R L L K M L A D V I V E Y L L G Q V T A A G A Q A L Q V F F D
N F I H T D P E T Y R I M M E K L T S S T L K Y L Q A Q I I D N G A H V V Q M F F D
T M L Y Q E P V L A H T L L E M I T I I S T V K Y L K A N A Q I I E A G A N L V Q Q I F F D
T F I F S E P A L A H A M L L E S V T L Y L N A N A Q I I K A G A Q A V M I F F D
A M L Y D R P D L M H H I L L K I N A A T V A G Y L N A N A Q I I D A G A Q A V M M F F D
T M L Y A R P D L L H R I L L E V N A Q A T L Q Y L N A N A Q I I Q A G A Q A V M I F F D
N F A F T E P T L A H K L L L Q K I T D S T I L Y L E E K A K H G C D V L Q I F F D
T M L Y T N P Q L S H T L L L Q K I T D S T I N Y L K G Q I I T A G A D L I Q I F F D
R M L F E Q P A M A H A L L D R L A T A V G D F L V A Q V A A G A Q A V V Q I F F D
S F C F S N P V A M H A L L L Q K I T D T T I L Y L K E K V K A G V D A V Q I F F D
K M M F R E P R L Y H N L M A K I T A C T S A Y L Q A Q A R A G A Q A L Q L F F D
N M M Y D R P D L L H A L L L E K V T D A V I V Y L N A N A Q I I A R G A Q A A M V F F D
N M M Y S D P A V M H Q L L D K L A D S I I L Y L N A N A Q V E S G A Q A L M I F F D
E M M Y S E P E T L H V L L N K L T D A V I D Y L V A Q I I D A G A Q L V Q V F F D

QUERY	P	V	A	S	P	D	L	M	S	210	D	S	F	R	Q	F	L	K	S	220	R	L	Q	K	F	A	S	V	N	S	V	T	V	L	H	I	C	G	N	V	240		
UniRef90_L0KWE8	P	V	A	S	P	D	L	M	S	P	P	A	A	F	E	A	D	L	K	S	R	L	Q	K	F	A	S	V	N	S	V	T	V	L	H	I	C	G	N	V			
UniRef90_G2DGH0	T	W	G	G	A	V	L	S	T	P	P	A	A	D	Y	Q	A	F	S	L	D	Y	M	Q	R	I	I	Q	G	G	L	R	R	V	P	V	T	L	F	T	K	N	G
UniRef90_Q31JU2	S	W	G	V	L	S				P	P	A	A	D	Y	Q	A	F	S	L	D	Y	M	Q	R	I	I	Q	G	G	L	R	R	V	P	V	T	L	F	T	K	N	G
UniRef90_Q12XR2	P	V	A	S	P	D	L	L	N	S	P	E	T	F	D	K	M	L	K	P	R	L	A	R	F	A	E	E	V	K	A	P	V	L	H	I	C	G	N	V			
UniRef90_D7E787	P	V	A	S	P	D	L	L	S	P	E	T	F	D	K	M	L	K	P	R	L	A	R	F	A	E	E	V	K	A	P	V	L	H	I	C	G	N	V				
UniRef90_B5JTT8	T	W	G	A	L	S	H			P	P	E	N	D	Y	Q	A	F	S	L	R	Y	M	K	K	I	V	A	A	L	P	K	E	P	V	T	L	F	T	K	N	G	
UniRef90_G0A1H6	T	W	G	M	L	S	H			P	P	E	N	D	Y	Q	A	F	S	L	R	Y	M	K	K	I	V	A	A	L	P	K	E	P	V	T	L	F	T	K	N	G	
UniRef90_UPI0003FE569C	T	W	G	V	L	S				K	Q	R	D	Y	Q	A	F	S	L	R	Y	M	K	K	I	V	A	A	L	P	K	E	P	V	T	L	F	T	K	N	G		
UniRef90_Q5QVW3	T	W	G	V	L	S				P	P	R	D	Y	Q	E	F	S	L	R	Y	M	K	K	I	V	A	A	L	P	K	E	P	V	T	L	F	T	K	N	G		
UniRef90_F7RXH4	T	W	G	V	L	S				P	P	R	D	Y	Q	E	F	S	L	R	Y	M	K	K	I	V	A	A	L	P	K	E	P	V	T	L	F	T	K	N	G		
UniRef90_M1FA50	T	W	G	V	L	S	T	W		P	P	A	Y	E	E	F	S	L	K	Y	M	R	K	L	I	A	G	L	R	K	V	P	V	T	L	F	T	K	N	G			
UniRef90_D7E5S3	G	T	A	G	P	D	L	I	D	P	A	M	F	E	N	F	L	K	P	E	Y	Q	R	F	C	R	D	V	K	G	F	K	V	S	H	M	C	G	D	I			
UniRef90_K6Y5Y3	T	W	G	V	L	S				P	P	R	D	Y	Q	L	F	S	L	Q	Y	M	H	K	I	V	D	G	L	I	R	E	H	V	T	L	F	T	K	N	G		
UniRef90_UPI0003B3D025	T	W	G	V	L	S	D	R	E	G	Y	K	F	T	F	L	A	S	M	A	K	L	V	D	R	L	K	V	P	G	V	P	V	T	L	F	T	K	N	G	C		
UniRef90_Q21H88	S	W	G	A	L	S	H			P	D	A	Y	K	F	T	F	L	A	S	M	A	K	L	V	D	R	L	K	V	P	G	V	P	V	T	L	F	T	K	N	G	
UniRef90_I3BYY1	T	W	G	T	L	S				T	P	S	T	Y	R	E	F	S	L	R	Y	M	Q	K	I	V	D	G	L	R	K	V	P	V	T	L	F	T	K	N	G		
UniRef90_J1QFW2	T	W	G	V	L	S				T	P	P	R	D	Y	Q	E	F	S	L	R	Y	M	Q	K	I	V	D	G	L	R	K	V	P	V	T	L	F	T	K	N	G	
UniRef90_UPI0003FE6D37	S	W	A	G	L	L	S	S	S	T	P	A	Y	Q	E	F	S	L	A	R	Y	M	Q	K	I	V	D	G	L	R	K	V	P	V	T	L	F	T	K	N	G		
UniRef90_UPI0003A06F59	T	W	G	N	L	S	S	S	T	P	D	A	Y	Q	E	F	S	L	A	R	Y	M	Q	K	I	V	D	G	L	R	K	V	P	V	T	L	F	T	K	N	G		
UniRef90_E1V4D5	T	W	G	A	L	S				P	A	Y	E	A	F	S	L	R	Y	M	Q	K	I	V	D	G	L	R	K	V	P	V	T	L	F	T	K	N	G				
UniRef90_K0CIK4	T	W	G	T	L	S	S	A		P	E	A	Y	R	E	F	S	L	A	R	Y	M	Q	K	I	V	D	G	L	R	K	V	P	V	T	L	F	T	K	N	G		
UniRef90_UPI000479908A	T	W	G	V	L	S	S	A		P	A	M	Y	R	E	F	S	L	P	Y	L	Q	R	I	A	R	E	L	E	R	G	P	L	I	L	F	G	K	G	T			
UniRef90_C7M4N6	S	W	G	V	L	S				P	P	D	D	Y	R	T	F	S	W	Y	L	N	Q	I	V	E	A	L	P	F	T	K	V	V	I	F	A	K	G	C			
UniRef90_C6V5Z0	S	W	A	G	L	S	S	H		P	E	R	D	Y	R	D	F	S	L	P	Y	L	Q	R	I	A	R	E	L	E	R	G	P	L	I	L	F	G	K	G	T		
UniRef90_Q3J6U6	T	W	G	A	L	S	H			P	R	D	Y	R	D	F	S	L	S	Y	M	A	R	I	V	E	G	V	R	Q	V	P	V	T	L	F	T	K	N	G			
UniRef90_D3SD42	T	W	G	S	L	S				T	P	R	G	Y	R	D	F	S	L	A	Y	M	Q	K	I	V	D	G	L	R	K	V	P	V	T	L	F	T	K	N	G		
UniRef90_Q5ZTY0	T	W	G	V	L	S				T	P	Q	N	G	Y	R	D	F	S	L	A	Y	M	Q	K	I	V	D	G	L	R	K	V	P	V	T	L	F	T	K	N	G	
UniRef90_UPI00036F0703	S	W	G	M	L	S	S	S		T	P	N	D	Y	K	E	Y	S	W	Y	L	Q	I	I	D	A	L	K	D	T	Q	V	I	V	F	G	K	G	C				
UniRef90_Q3AEU3	S	W	V	G	T	L	S	S		P	E	D	Y	E	K	E	V	L	P	H	S	K	Y	V	E	D	N	L	K	E	T	P	V	I	H	F	A	N	N	A			
UniRef90_K4KLN8	T	W	G	A	L	S	H			P	A	A	Y	Q	E	F	S	L	A	R	Y	M	K	R	I	V	A	G	L	R	K	V	P	V	T	L	F	T	K	N	G		
UniRef90_UPI00037DD9C0	T	W	G	V	L	S				T	P	R	D	Y	D	A	F	S	L	A	R	Y	M	A	R	I	V	D	G	L	R	K	V	P	V	T	L	F	T	K	N	G	
UniRef90_F3LD72	S	W	G	A	L	S	S	H	H	P	A	Y	H	E	F	S	L	A	P	M	Q	R	I	V	D	G	L	R	K	V	P	V	T	L	F	T	K	N	G				
UniRef90_S6ADY3	S	W	G	A	L	S	S	H	H	P	A	A	Y	H	E	F	S	L	P	Y	M	E	Q	I	V	S	G	L	H	R	N	G	A	T	I	P	N	I	F	T	K	G	
UniRef90_K0C0T2	T	W	G	N	L	S	S	T	K	D	Y	E	T	F	S	L	A	Y	S	R	K	I	S	H	A	L	Q	A	T	N	P	S	V	P	R	L	L	F	T	K	G		
UniRef90_UPI0004075CEE	T	W	G	V	L	S				P	E	R	D	Y	L	E	F	S	L	R	Y	M	Q	K	I	V	S	G	L	R	R	V	P	V	T	L	F	T	K	N	G		
UniRef90_UPI00035EF4D0	T	W	G	A	L	S	A	Y	G	K	P	E	Y	Q	E	F	S	L	A	R	Y	M	Q	R	I	V	A	G	L	R	R	V	P	V	T	L	F	T	K	N	G		
UniRef90_B8GPU3	T	W	G	S	L	S				P	E	G	Y	R	E	F	S	L	A	Y	M	Q	R	I	V	H	E	G	R	R	V	P	V	T	L	F	T	K	N	G			
UniRef90_UPI0003484D51	S	W	A	G	I	L	S			P	P	G	Q	Y	R	E	F	S	F	R	Y	I	E	E	C	A	A	G	E	E	V	P	K	T	V	F	A	K	G	A			
UniRef90_UPI0003B3969A	S	W	G	A	L	S	S	H	H	P	A	A	Y	Q	E	F	S	L	A	R	Y	M	Q	K	I	V	D	G	L	R	K	V	P	V	T	L	F	T	K	N	G		
UniRef90_I1XQW1	T	W	G	V	L	S	A	H		P	R	D	Y	P	A	F	S	L	H	Y	M	H	K	I	V	D	G	L	H	R	V	P	V	T	L	F	T	K	N	G			
UniRef90_F5SYX2	T	W	G	T	L	S				P	P	E	N	Y	K	A	F	S	L	A	Y	M	D	K	I	V	N	G	L	R	E	V	P	V	T	L	F	T	K	N	G		
UniRef90_L9PKY3	S	W	G	A	L	S	A	S		P	D	G	A	Y	Q	E	F	S	L	A	R	Y	M	Q	K	I	V	D	G	L	R	K	V	P	V	T	L	F	T	K	N	G	
UniRef90_A1ZY25	S	W	A	G	L	L	S	S		P	P	E	T	Y	Q	A	F	A	M	P	Y	L	K	Q	I	A	D	A	I	T	E	V	P	L	I	M	F	A	K	G	A		
UniRef90_L8XYJ9	T	W	G	L	L	S	C	Y		P	N	E	F	M	S	L	R	Y	M	K	K	L	A	G	L	I	K	N	K	E	Q	E	I	P	S	I	F	T	K	N	G		
UniRef90_W9VIE8	T	W	G	V	L	S	S			P	P	E	M	S	L	T	F	S	L	A	Y	M	E	Q	I	V	H	E	G	R	R	I	P	V	I	L	F	T	K	N	G		
UniRef90_UPI0003723886	S	W	G	S	L	S				T	T	P	H	A	Y	Q	E	F	S	L	A	Y	M	T	R	I	V	D	G	L	R	R	V	P	S	I	V	F	T	K	N	G	
UniRef90_G4CSJ9	T	W	G	V	L	S				T	T	P	P	A	F	R	E	F	S	L	R	Y	M	Q	R	I	V	A	G	L	R	R	V	P	V	T	L	F	T	K	N	G	
UniRef90_V4JCK1	T	W	G	V	L	S				T	T	P	P	G	D	Y	R	E	F	S	L	R	Y	M	E	R	I	V	D	G	L	R	R	V	P	V	T	L	F	T	K	N	G
UniRef90_H2BT11	S	W	G	M	L	S	S	S		P	T	D	Y	Q	I	F	S	W	Y	I	Q	I	I	D	A	L	K	E	T	H	V	I	A	F	G	K	G	C	C				
UniRef90_F0NYU9	S	W	G	M	L	S	S	S		P	Q	D	Y	D	E	F	S	W	Y	I	E	Q	I	T	N	A	L	P	H	A	P	V	I	V	F	G	K	G	C	C			
UniRef90_UPI0002559DEB	S	W	G	M	L	S				P	V	D	Y	Q	E	F	S	W	Y	I	N	Q	I	I	E	A	L	K	D	D	P	V	I	A	F	G	K	G	C				
UniRef90_UPI000464B5A8	T	W	G	L	L	S	H			P	E	S	Y	R	Q	E	F	S	L	A	Y	M	Q	K	I	V	D	G	L	D	Y	T	P										

QUERY UniRef90_L0KWE8 UniRef90_G2DGH0 UniRef90_Q31JU2 UniRef90_Q12XR2 UniRef90_D7E787 UniRef90_B5JTT8 UniRef90_G0A1H6 UniRef90_UPI0003FE569C UniRef90_Q5QVW3 UniRef90_F7RXH4 UniRef90_M1FA50 UniRef90_D7E5S3 UniRef90_K6Y5Y3 UniRef90_UPI0003B3D025 UniRef90_Q21H88 UniRef90_I3BYY1 UniRef90_J1QFW2 UniRef90_UPI0003FE6D37 UniRef90_UPI0003A06F59 UniRef90_E1V4D5 UniRef90_K0CIK4 UniRef90_UPI000479908A UniRef90_C7M4N6 UniRef90_UPI0003C6VZ0 UniRef90_Q3J6U6 UniRef90_D3SD42 UniRef90_Q5ZTY0 UniRef90_UPI00036F0703 UniRef90_Q3AEU3 UniRef90_K4KLN8 UniRef90_UPI00037DD9C0 UniRef90_F3LD72 UniRef90_S6ADY3 UniRef90_K0C0T2 UniRef90_UPI0004075CEE UniRef90_UPI00035EF4D0 UniRef90_B8GPU3 UniRef90_UPI0003484D51 UniRef90_UPI0003B3969A UniRef90_I1XQW1 UniRef90_F5SYX2 UniRef90_L9PKY3 UniRef90_A1ZY25 UniRef90_L8XYJ9 UniRef90_W9VIE8 UniRef90_UPI0003723886 UniRef90_G4CSJ9 UniRef90_V4JCK1 UniRef90_H2BT11 UniRef90_F0NYU9 UniRef90_UPI0002559DEB UniRef90_UPI000464B5A8 UniRef90_K1KT85 UniRef90_J9JUM7 UniRef90_DOMHW9 UniRef90_F0IDU4 UniRef90_Q82X50 UniRef90_B3EAR8 UniRef90_UPI000366A262 UniRef90_A0A011QF89 UniRef90_A6F6M8 UniRef90_E1SN93 UniRef90_K2PVF5 UniRef90_UPI0002557F05 UniRef90_T1JKF0 UniRef90_G1ND34 UniRef90_U4TBL7 UniRef90_UPI00047249B4 UniRef90_C4K8F9 UniRef90_UPI000366AB54 UniRef90_UPI00047DEEA4 UniRef90_R4V2Y6 UniRef90_H8MKE7 UniRef90_B3EHV5 UniRef90_D5CTQ3 UniRef90_UPI0003B60344 UniRef90_A0A023NPA5 UniRef90_H2MBG4 UniRef90_D4H7N1 UniRef90_R7ZNJ4 UniRef90_K2K2X2 UniRef90_UPI0004731B3D UniRef90_A9HY51 UniRef90_I4A0E9 UniRef90_L8JVB1 UniRef90_C1A7G9 UniRef90_A5FLE7 UniRef90_E8REF4 UniRef90_L0H3V7 UniRef90_C7R7W3 UniRef90_UPI000360D0AC

N P I L S D M A D C G F E G L S V E E K V G S A K K G K E V I G T R A R I V G 280
T P I L S D M A D C G F E G L S V E E K V G S A K K G K E V I G T R A R I V G
G L W L E R M A D S G C D A I G L D W T L N L S A D A K R R R V G D K V V L Q G N
G Q W L E A I A A T G C D A I G L D W T I N I L S A D A K R R R V G D K V V L Q G N
T P I L S D M M A D C K F E G L S L E E K V A D L K G A K K E T V G D R A V I V G N
T P I L S D M M A D T G F S T G L S L E E K V K D L K G A K K E T V G D R A V I V G N
G Q W L E S M A E A G S T G L G L D W T T N L A D A K R R R V G D K V V L Q G N
G L W L E A M A A T G Y D A L G L D W Q T D I G N A R A R V G D K V V L Q G N
G M W L K E A Q A V I G A N G L G L D W M T D I L S E A K A Q V G Q Q V V L Q G N
G Q W L E A M A A T G A D A V G V D W T T D L S D A R A R V G G Q V A L Q G N
G Q W L D I M A A T G C D A L G V D W T T D L A T A R A K V G D T V A L Q
G Q W L E S I A D T G C D A L G L D W T T D I L G D A R A R V G D K V V L Q G N
N A I L E P L S E C G F E G I S V E E K I D I L Q T A K E L G D K V S K L I G N
G A W L E K I A D T G C D G V S L D W T I D I A E A K R R V G D R V A L Q G N
G Q F L E M S A D T G C A G L G V D W T T N I G D A R H M V G G S V A L Q G N
G Q W L E A M A D A G A D C L G L D W T T D I G Q A R A R V G D K V V L Q G N
A Q W L E P M A D T G C D A L G L D W T I D I G E A R S R V G D K V A L Q G N
G A W L E M M A A T G C D A I G L D W T T D I A S A R A R V G Q Q V A L Q G N
F F A L S D F A K Y N C D V I G L D W N M D A T T S R Q I G S G K T L Q
G L W L E S I A E V I G A D A L G L D W T M D M G V A R S R V G S K V A L Q G N
G Q W L E A Q A D S G A D A L G L D W S T E L S G D A R A R V G Q R V A L Q G N
G L W L E A M A D T G C D A L G L D W T V N I G D A R R R V G E R V A L Q G N
G A Y L E E L A A S G A E G V G V D W L V E L G E A R R R T G G C V A V Q
W Y A L P E M A T S N A A A L G V D W T C A P E I A R E L T R G K K V L Q G N
F F A R K E I G E L S C S V V G L D W N M D I S E S R A L V P N K T L Q
G L W L E T M A G T G C D A L G V D W T V D I A K A R R M Q V G K Q V A L Q G N
D A W L E A Q A E T G A D A L G L D W T I E I A E A S R R V G D K V V L Q G N
G Q W L E W M A E T G C D A L G V D W T C D L A S A R K R V G G K V A L Q G N
W F A L G D M A K S G A A A L G V D W T C S A R N A R Y L T G G K I T L Q G N
G S M L E L V A A A G G D V I G L D W R V S L D R A W Q T V G F D R G V V Q G
G Q W L E L L A A D T G A D A L G L D W T T D I G Q A R A R V G D R V A L Q G N
G Q W L E K M A E T G C D A L G L D W T T D I L D D A R A R V G D K V A L Q G N
G Q W L P S L A N T G A D A L G L D W T T D I S Y A R R Q Q V G D K V A L Q G
K G G G L W L E S I A A T G C N A V G L D W A I D I G Q A R A R I G D K V L Q
G A G V W L E T M A D A G Y N G L G V D W T T D L K L A R E L T K D S V V L Q G
G Q W L E H I A A T G C D A I G L D W T N L D D A R R R V G D K V V L Q G N
G L W L E D I A A T G C D A I G L D W T M N L A Q A R R Q R V G D R V A L Q G N
G A W L E V M A E T G C D A L G L D W T V N I G E A R R R V G D R V A L Q G N
F F A R K E M G K L P C E T I G L D W N M D I A E S R A L I G S N K T L Q
G Q W L D A M A D T G A D A L G L D W T T D I G Q A R Q R V G S R V A L Q G N
G L W L E A I A D T G C D A V G L D W T V D I A E A R R R V G H K V A L Q G N
G Q W L E W M A E T G V N G L G L D W T T D I R S A R R Q R V G D K V T L Q G N
G Q W L E Q I A D T G A D A V G L D W T V N L T Q A R K L V G H K V G L Q
F F A R E Y F K D L D C A A V G L D W T M D I Q E S R R L V G T N K V L Q G
N G G A W I T S E Q A N S G A N A I G L D W M T D L S H A R R A L V G D K V V L Q G
G Q W L E V M A K T G S G A D A L G L D W T H I D D A R R R V S N Q Q V A L Q G N
G N W L E A I A A C G A D A V G L D W S I D I G E A R R R R V S N Q Q V A L Q G N
G L W L E A M A E A G A D A L G L D W T C D I A D A R R R V G D K V A L Q G N
G Q W L D R M A E T G C D A L G V D W T T D L A D A R R L V G G Q V A L Q G
W F A L D T M A K S G A S A L G V D W T C S P L H A R Y L S G G K I T L Q
W F A L D E K M S R S K A S A L G V D W T V T P Q T A R E L T G N R I T L Q G N
W F A L E E M A Q S N A S A L G V D W T I T P E W A R K L T G N I T L Q
G L W L P Q L A A T G C D A I G V D W T V D L T Q A R A T L A Q V D K P I A L Q
G A F F A R K E M A A L V N C E T I G L D W N M D I A K S R E L I G S G K T L Q
H Y A M K L S T F D Y D V N G L D W T I D P R Q A R K I V G N N I T L Q G N
H A S L A E L A E A G Y D V V G L D W T I D P R Q A R E L T G G R V A L Q G N
W F A L E Q M S K S C A S A I G V D W T C N P Q I A R R L T G G K V V L Q G
G L W L E S I M A S G C D A I G L D W T I D I G E A R R R T G D K V V L Q G N
G T M L P V V Q K A G G D V M G L D W H I N L G S A R D I L G P E M A V Q G N
G A F F A R Q A I G Q L S C L V V G L D W N M D P A E S R V L V P N K T L Q G N
G L W L E A I A E I G C E A V G L D W T I D I A E A R R R V G D K V A L Q G N
G Q W I E Q I A A T G C C D A I G L D W T I D I A E A K A R V G D K V A L Q G N
G Q W L E D I A A T G C C D A V G L D W T V D V P K A A R A R V G D K V A L Q G N
W Y A L G E M S K S K A S A I G V D W T C S P E N A R K L T G G Q I T L Q G
G Q W L E T M A E T G A H A L G L D W T T D I A Q A R A R V G N K V A L Q G N
N Y A L K D L S E I G F D V I S L D W T I E P S K A R E L T G S E I T L Q
H Y A L R D L A Q A G Y E V V G L D W T I L Q P Q S A R A Q V G K G I T L Q
G Q C K E I A S T G C A G I G L D W T T R L Q E A R N I V G E Q V A L Q G N
G Q W L E A I V S S G C D A I G L D W T I D I G K A K Q R I G Q V A L Q G N
G Q W L E S I A E T G C D A I G L D W T T D I G E A R H R V G D K V A L Q G N
G Q W L P Q M L A D S G A D A L G L D W T H L S I A R R Q T V G G K V A L Q G N
G L W L E Q I A G S G A D A L G V D W T L S L S E A R R R V G D K V A L Q G N
T P H L P L L K R T G A D V I G L D W R C P V D E G R R L G P D V A T Q G N
N T L L S D I A D T G C D A M G L G W G I D I A K A R A E L K D R V A L Q G
G L W L E S I A D T G C D A V G L D W T M D I G V A R Q K V G H K V A L Q G N
A R W A K D I V A T G C D G I G V D W T T D L N E V I A S V G Q V A L Q G
G R H L A M A D T G C A G L G V D W T I D L A D A R E A V N G R V A L Q G N
H Y G L E D L S E S H Y E V V G L D W T I D P Q S A R E R T G G K V S L Q G N
F S F Y D T L G K L N C A G M G V D W K A T L K D A D E R L S K G K F V L Q G N
F F A R R E M G Q L S C D V V G L D W N M E V T E S R A M I G D N K V V L Q G N
G L W L E D I A A T G C D A V G L D W T V D L G D A R R R I G D K V A L Q G N
G L W L D Q I A D I G A D A V G L D W T V N L T K A R A L V G D K V A L Q G N
G Q W L E A I A A C G C D A I G L D W T V N L G Q A R R Q R T G D A V A L Q
W F A L E K M A T S N A S A I G V D W T I T P Q M A R E L T G Y K K T L Q G N
Y F A R K S L G Q I N C D T I G L D W C M D I E E S R V L A G P E K T L Q G N
W A L G E I A A T G A D A V G V D W H T P A Q A R R Q L A P F N V A M Q G N
G C W F A L G E M G K S R A S A L G V D W T C S A R R N A R Y L S G N I T L Q
A T L T R M T T T V I G A D V L G F D W R L P I G E A A R S G R H A V Q G N L D
G Q W L D R M A A T G C D A L G V D W T T D L A D A R R R I V Q D R V A L Q G N
G A W L D I M A V T G C D C L G L D W T T D L A D A R A K V A G K V A L Q G N
G L W L D T Q V Q N G A D M L G L D W T I S L A D A R K I A L A S K P I A L Q

QUERY UniRef90_L0KWE8 UniRef90_G2DGH0 UniRef90_Q3IJU2 UniRef90_Q12XR2 UniRef90_D7E787 UniRef90_B5JTT8 UniRef90_G0A1H6 UniRef90_UPI0003FE569C UniRef90_Q5QVW3 UniRef90_F7RXH4 UniRef90_M1FA50 UniRef90_D7E5S3 UniRef90_K6Y5Y3 UniRef90_UPI0003B3D025 UniRef90_Q21H88 UniRef90_I3BYY1 UniRef90_J1QFW2 UniRef90_UPI0003FE6D37 UniRef90_UPI0003A06F59 UniRef90_E1V4D5 UniRef90_K0CIK4 UniRef90_UPI000479908A UniRef90_C7M4N6 UniRef90_UPI0003C6VSZ0 UniRef90_Q3J6U6 UniRef90_D3SD42 UniRef90_Q5ZTY0 UniRef90_UPI00036F0703 UniRef90_Q3AEU3 UniRef90_K4KLN8 UniRef90_UPI00037DD9C0 UniRef90_F3LD72 UniRef90_S6ADY3 UniRef90_K0C0T2 UniRef90_UPI0004075CEE UniRef90_UPI00035EF4D0 UniRef90_B8GPU3 UniRef90_UPI0003484D51 UniRef90_UPI0003B3969A UniRef90_I1XQW1 UniRef90_F5SYX2 UniRef90_L9PKY3 UniRef90_A1ZY25 UniRef90_L8XYJ9 UniRef90_W9VIE8 UniRef90_UPI0003723886 UniRef90_G4CSJ9 UniRef90_V4JCK1 UniRef90_H2BT11 UniRef90_F0NYU9 UniRef90_UPI0002559DEB UniRef90_UPI000464B5A8 UniRef90_K1KT85 UniRef90_J9JUM7 UniRef90_DOMHW9 UniRef90_F0IDU4 UniRef90_Q82X50 UniRef90_B3EAR8 UniRef90_UPI000366A262 UniRef90_A0A011QF89 UniRef90_A6F6M8 UniRef90_E1SN93 UniRef90_K2PVF5 UniRef90_UPI0002557F05 UniRef90_T1JKF0 UniRef90_G1ND34 UniRef90_U4TBL7 UniRef90_UPI00047249B4 UniRef90_C4K8F9 UniRef90_UPI000366AB54 UniRef90_UPI00047DDEEA4 UniRef90_R4V2Y6 UniRef90_H8MKE7 UniRef90_B3EHV5 UniRef90_D5CTQ3 UniRef90_UPI0003B60344 UniRef90_A0A023NPA5 UniRef90_H2MBG4 UniRef90_D4H7N1 UniRef90_R7ZNJ4 UniRef90_K2K2X2 UniRef90_UPI0004731B3D UniRef90_A9HY51 UniRef90_I4A0E9 UniRef90_L8JVB1 UniRef90_C1A7G9 UniRef90_A5FLE7 UniRef90_E8REF4 UniRef90_L0H3V7 UniRef90_C7R7W3 UniRef90_UPI000360D0AC

290 300 310 320

V S S P F T L L L P G P V D K V I K A E A K E A L E G G G D V V L A P G G C G I A P M T
UniRef90_L0KWE8 V S S P F T L L L G A T P D K V I K E E A A T D A L K E G G G D V V L A P G G C G I A P M T
UniRef90_G2DGH0 M D P S C V L L L Y A S P E R I R R Q E E V A T L L E E G N G H V F N L L G G H G G I T A H P N D T
UniRef90_Q3IJU2 M D P S M L H G T P E R I V K R Q E E V A T L L E E G N G H V F N L L G G H G G I T A H P N D T
UniRef90_Q12XR2 V S S P F T L L L S G D V E K V I K A E E S K D A L E E D G G G V A D V L S A P G G C G G I T A P N T S
UniRef90_D7E787 V S S P F T L L L Y A S P P A K I K R T E D A K K A M E D D G S G V A D V L S A P G G C G G I T A H P N S
UniRef90_B5JTT8 L D P S A T L L Y A Q P E V I R E K V G K V L Q G G S G H V F N L L G G H H G I L P D I
UniRef90_G0A1H6 M D P S I T L L Y A S P K R I V R E H V G Q S I L A Q G T G H V F N L L G G H H G I L P D I
UniRef90_UPI0003FE569C G N M D P G V L L Y A S T P A R I V R E E E V V K I L L K G G T P G H V F N L L G G H H G I L P D I
UniRef90_Q5QVW3 M D P S V L L Y A S P P A R I R E E E V V K I L L K G G T P G H V F N L L G G H H G I L P D I
UniRef90_F7RXH4 G N M D P S V L L Y A S P P A R I R E E E V V K I L L K G G T P G H V F N L L G G H H G I L P D I
UniRef90_M1FA50 M D P T M L Y A S P P A R I R E E E V V K I L L K G G T P G H V F N L L G G H H G I L P D I
UniRef90_D7E5S3 V S T S G T M L M R S Y D D V I K N E A K N C L E E G V D V L A P G G C G G I T A P N T
UniRef90_K6Y5Y3 M D P S I L L Y A P A A R T I E D E V K T T L A G D F G H V F N L L G G H H G I L P D I
UniRef90_UPI0003B3D025 G N L D P T A L L F A S P P E R I R D L V G K I L A D D G T G H V F N L L G G H H G I L P D I
UniRef90_Q21H88 M D P S I L L Y A S P P E R I R E E E V V K I L L K G G T P G H V F N L L G G H H G I L P D I
UniRef90_I3BYY1 M D P S I C V L L Y A S P E R I R Q Q E V A D I L L Q G G T G H V F N L L G G H H G I L P D I
UniRef90_J1QFW2 G N L D P S I L L G T S P E R I R T E T K K M L D D A F F G H V F N L L G G H H G I L P D I
UniRef90_UPI0003FE6D37 M D P T V L Y A K P A A I R E E V A R I L K G G N G H V F N L L G G H H G I L P D I
UniRef90_UPI0003A06F59 L D P A N V L F A H P A R I R D A E V A R I L A G D P G H V F N L L G G H H G I L P D I
UniRef90_E1V4D5 M D P A V L L Y A E P A A I R R A E V K R L D D P G H V F N L L G G H H G I L P D I
UniRef90_K0CIK4 G N L D P A T L L Y G S P D A I R R E V R R A L D R E F G H V F N L L G G H H G I L P D I
UniRef90_UPI000479908A F D P S R L L A P P A E I K K K V K K M V D A Q F G Y I A N L L G G H H G I L P D I
UniRef90_C7M4N6 G N L D P C V L L Y A S Y D Q I V R K E V K K N M V R Q E A S E T I K G G F G H V F N L L G G H H G I L P D I
UniRef90_UPI0003C6VSZ0 M D P S V L L Y A S S E R V R Q E E A S E T I K G G F G H V F N L L G G H H G I L P D I
UniRef90_Q3J6U6 L D P S V L L Y A P D A V V R S E E A L R V L A G T G H V F N L L G G H H G I L P D I
UniRef90_D3SD42 L D P A V L L T T D K N C I R S E E L G S V L A G T G H V F N L L G G H H G I L P D I
UniRef90_Q5ZTY0 F D P A R L L S P P E V I K K M V T Q M I N E F G Y V V N L L G G H H G I L P D I
UniRef90_UPI00036F0703 N L D P V A L L F A P K E V I R Q K V K E S I L A G P G H V F N L L G G H H G I L P D I
UniRef90_Q3AEU3 M D P T M L L Y A S P A R I R E E V A T I L K N N G H V F N L L G G H H G I L P D I
UniRef90_K4KLN8 M D P S I L L Y A S P P A R I R E E V A T I L K N N G H V F N L L G G H H G I L P D I
UniRef90_UPI00037DD9C0 G N M D P A I L L Y T N P D A I R A E V A T I L K N N G H V F N L L G G H H G I L P D I
UniRef90_F3LD72 G N L D P A V L L F S N P D A I R A E V G K V L A G G S G H V F N L L G G H H G I L P D I
UniRef90_S6ADY3 N L D P T S L L Y A S P E K I R Q K V R D V L A G G H K H V F N L L G G H H G I L P D I
UniRef90_K0C0T2 M D P S M L Y A N P S Q A I E D A E V A R L L A G G S G H V F N L L G G H H G I L P D I
UniRef90_UPI0004075CEE F D P N A L L F A N P S Q A I R A A A T R K V L A G G S G H V F N L L G G H H G I L P D I
UniRef90_UPI00035EF4D0 L D P A V L L Y A S A E R V R A D A T R K M L D A F G G H V F N L L G G H H G I L P D I
UniRef90_B8GPU3 G N L D P C A L L Y A G T P E E R I R E E V A R I L D A R G S G H V F N L L G G H H G I L P D I
UniRef90_UPI0003484D51 M D P A M L Y A P P A R I R E E V V R S T I L A G N G H V F N L L G G H H G I L P D I
UniRef90_UPI0003B3969A L D P S V L L Y A P A N R I V E D E V R S T I L A G N G H V F N L L G G H H G I L P D I
UniRef90_I1XQW1 M D P C V L L Y A S P D R I V R A E V S T I L E G N G H V F N L L G G H H G I L P D I
UniRef90_F5SYX2 G N L D P A I L L F A S P D Q I R A E V H K V L D D G N G H V F N L L G G H H G I L P D I
UniRef90_L9PKY3 N L D P C L L Y A N N E V I T K E T Q E M L H K F G H V F N L L G G H H G I L P D I
UniRef90_A1ZY25 N M D P A V L L Y S N P D V I R A E V A K K V L D D G G T G H V F N L L G G H H G I L P D I
UniRef90_L8XYJ9 M D P S V L L Y A S P A R I R A E V A D I L D G G T G H V F N L L G G H H G I L P D I
UniRef90_W9VIE8 L D P S A L L H G T P D I V R S E V A R I L D G G P G H V F N L L G G H H G I L P D I
UniRef90_UPI0003723886 F D P F A L L F G T P Q S I E A E V A R I L K G S G H V F N L L G G H H G I L P D I
UniRef90_G4CSJ9 G N L D P C T L L Y A S P E R I R R E E V G R V L A G S G H V F N L L G G H H G I L P D I
UniRef90_V4JCK1 G N F D P S R L L Y S P P A E I K K M V H Q M I D E F G Y I V N L L G G H H G I L P D I
UniRef90_H2BT11 F D P S R L M S P P A V I K K M V K E M I D D A F G Y I A N L L G G H H G I L P D I
UniRef90_F0NYU9 G N F D P T R L L F S S P A E I Q Q Q V T A M I D A F G Y I V N L L G G H H G I L P D I
UniRef90_UPI0002559DEB G N L D P A V L L Y A T P D V I D Q Q V D K V L A G S G H V F N L L G G H H G I L P D I
UniRef90_UPI000464B5A8 G N L D P A A L L Y G T P K Q V V E E A T N R M M D T K H R Y I A N L L G G H H G I L P D I
UniRef90_K1KT85 G N L D P A A L L Y G T P K Q V V E E A T N R M M D T K H R Y I A N L L G G H H G I L P D I
UniRef90_J9JUM7 D P C S L Y G P S E Q K K E M V E K S M A S K F T K H R Y I A N L L G G H H G I L P D I
UniRef90_DOMHW9 L D P C A L L Y A E P E T I R R L T H R M L E A R G H I A N L L G G H H G I L P D I
UniRef90_F0IDU4 N L D P A V L L A S P E Q I R Q K T H R M I Q A F G Y I A N L L G G H H G I L P D I
UniRef90_Q82X50 L D P A H W L F S S P E V I A A E A G K L A G H G H V F N L L G G H H G I L P D I
UniRef90_B3EAR8 L D P T T L Y A P H A V I E Q E V K R V L N R P G H I F N L L G G H H G I L P D I
UniRef90_UPI000366A262 M D P C V L L Y A D F D G V R A E V K R M L Q A F G Y I A N L L G G H H G I L P D I
UniRef90_A0A011QF89 L D P A V L L F A S P E T I V S E A K R V L D A T G H V F N L L G G H H G I L P D I
UniRef90_A6F6M8 M D P S M L Y A S P E R I R E E V S T I L A G D F G H V M N L L G G H H G I L P D I
UniRef90_E1SN93 M D P S M L Y A S P V P R I E E E V E R L L H A G D G H V F N L L G G H H G I L P D I
UniRef90_K2PVF5 N F D P S R L L Y A P I P D I K K M V H Q M I D A F G Y I A N L L G G H H G I L P D I
UniRef90_UPI0002557F05 M D P S I L L L A N P E R I R E E V A S I L R G S G H I F N L L G G H H G I L P D I
UniRef90_T1JKF0 G N L D P C A L L Y A G N K D K I E R N A Y K M L R D F G Y I A N L L G G H H G I L P D I
UniRef90_G1ND34 G N L D P C A L L Y A P K E K I G E L A Y K K M L E S F G Y I A N L L G G H H G I L P D I
UniRef90_U4TBL7 I D P A V L L Y G T P A G I R H E V A R V L H G S G H V F N L L G G H H G I L P D I
UniRef90_UPI00047249B4 L D P A A L L H G S A Q S I R E Q A E K V L R G T G H V F N L L G G H H G I L P D I
UniRef90_C4K8F9 M D P A V L L Y A P A P I E K E V A S I L R G T G H V F N L L G G H H G I L P D I
UniRef90_UPI000366AB54 G N L D P A V L L T N P D C I R Q Q V K Q V L Q G N G H V F N L L G G H H G I L P D I
UniRef90_UPI00047DDEEA4 L D P S N T L L Y G S P E R I R A A V K A M L Q D A G Y V A N L L G G H H G I L P D I
UniRef90_R4V2Y6 L D P S V L L Y A S P H V I Q A E V A R V L A G S G H V F N L L G G H H G I L P D I
UniRef90_H8MKE7 L D P L H L F L P R E E L D G R V K D I L R R A G H I F N L L G G H H G I L P D I
UniRef90_B3EHV5 G N L D P T V L L Y G T P E K I K S E A A K V L K Q S G H V F N L L G G H H G I L P D I
UniRef90_D5CTQ3 L D P T I L L F A T P E V I H N E V E K I L S G S G H V F N L L G G H H G I L P D I
UniRef90_UPI0003B60344 G N M D P S V L L Y A D A E T I Q T E V K R V L A D F G H V F N L L G G H H G I L P D I
UniRef90_A0A023NPA5 L D P A I L L Y A T P E R I R R E V R R V L D H A G H V F N L L G G H H G I L P D I
UniRef90_H2MBG4 M D P C A L L Y A P K E R I S E I V K K M V A G F G Y I A N L L G G H H G I L P D I
UniRef90_D4H7N1 F D P V L L L F G S K E A I K E T A E K I A E G G H I F N L L G G H H G I L P D I
UniRef90_R7ZNJ4 D P A A L L Y G S E E S T E Q R M L E S F K G A R H I A N L L G G H H G I L P D I
UniRef90_K2K2X2 M D P S M L Y A P P A A I R A E V V G R I L E G G P G H V F N L L G G H H G I L P D I
UniRef90_UPI0004731B3D L D P N V L L F A K P E Q I R A E V T K V L D G N G H V F N L L G G H H G I L P D I
UniRef90_A9HY51 G N L D P M T L L E G G S E A I R A E A R R M L D A G G H V F N L L G G H H G I L P D I
UniRef90_I4A0E9 F D P S R L L L S P P E K I Q E M V K E M I E D F G Y I A N L L G G H H G I L P D I
UniRef90_L8JVB1 L D P C V L L Y G T E K N I Q D A V R S M L E Q F G H I A N L L G G H H G I L P D I
UniRef90_C1A7G9 L D P C A L L Y A T P A E I R A R A H A M I A E F F G H V A N L L G G H H G I L P D I
UniRef90_A5FLE7 G N F D P S R L L S P P T I K K M V H E M I D E F G Y I V N L L G G H H G I L P D I
UniRef90_E8REF4 P L A L F L P K E R L E E R I H A M L T D A R D A R G Y I F N L L G G H H G I L P D I
UniRef90_L0H3V7 L D P C V L L Y A S P E Q I R A E V A T L L K G S G H V F N L L G G H H G I L P D I
UniRef90_C7R7W3 M D P S I L L Y A E D D R I R D E V A T L K G S G H V F N L L G G H H G I L P D I
UniRef90_UPI000360D0AC G N L D P A T L L Y A S P E N I R K H T H L M L E K T G Y V A N L L G G H H G I L P D I

QUERY P L E N V K A L V A A R D E F Y A
 UniRef90_L0KWE8 P V A N L K A M V E A R N E E Y Y
 UniRef90_G2DGH0 P P E H A G A F V E A V H E L S
 UniRef90_Q3JU2 D P E N A G V F I N A V H E F S A
 UniRef90_Q12XR2 P V E N V K A L V E A R D E E Y A
 UniRef90_D7E787 P L A N V Q A L V D A R N E E Y Y S
 UniRef90_B5JTT8 D P E H V S A L V E A V H E L S
 UniRef90_G0A1H6 N P E H V K A M V D A V R E L S
 UniRef90_UPI0003FE569C D P E N V K A M V E A V H E L S
 UniRef90_Q5QVW3 D P E H A A A F I E A I H K Y S
 UniRef90_F7RXH4 D P E H A G A F I N A V H E F S
 UniRef90_M1FA50 D P A H A G A F I E A V V E L S
 UniRef90_D7E5S3 P L K N L K A L V D A R N E E Y Y
 UniRef90_K6Y5Y3 P P E N A G V F V E A V H K F S
 UniRef90_UPI0003B3D025 P P E N V A A L V E A V R E L S
 UniRef90_Q21H88 D P E H A G A F I R A V G E L S A
 UniRef90_I3BYY1 D P E N V G V L V D A V H E
 UniRef90_J1QFW2 D P E H A R V F I E A V Q D L S
 UniRef90_UPI0003FE6D37 D P E K V R C F I D A V K E F S S
 UniRef90_UPI0003A06F59 D P A H A G A F I E A V H E L S A
 UniRef90_E1V4D5 D P E R V T A F V E A L H E L S
 UniRef90_K0CIK4 D P E H A R V F I E A V V E L G A
 UniRef90_UPI000479908A D P E H V A V L V D E V H A Y S A
 UniRef90_C7M4N6 P V E N A L A F V E A V K S Y
 UniRef90_C6V5Z0 D P D K V R C F I E A V K E Y S S
 UniRef90_Q3J6U6 M P E K V A A L V D A V H E L S
 UniRef90_D3SD42 D P E R V A T L V E T V T S Y
 UniRef90_Q5ZTY0 P P E N V A L M I E A V H E L S
 UniRef90_UPI00036F0703 P V E N A K A F I D A V K E Y
 UniRef90_Q3AEU3 P V E N A Q Y L V E V H E L S S G
 UniRef90_UPI00037DD9C0 D P A H A G A F I D A V H K L S G
 UniRef90_F3LD72 K P E N V G A F F E A V H E L S
 UniRef90_S6ADY3 N P E N A A A M V E A V H E L S
 UniRef90_K0C0T2 N P E H V K A M I D E V H Q S S
 UniRef90_UPI0004075CEE N P E H A G A F I E S V H S L S
 UniRef90_UPI00035EF4D0 P P E H V T A L V E A V H R H S
 UniRef90_B8GPU3 D P E K V A A L V D E V H K
 UniRef90_UPI0003484D51 E P E K V K A F V R T V K E Y S A
 UniRef90_UPI0003B3969A D P V H A G A F I E A V V E L S A
 UniRef90_I1XQW1 P V E S P K R L V D A V H Q L S
 UniRef90_F5SYX2 N P E N M A R L V D S V H R L S
 UniRef90_L9PKY3 P P E N V A A M V E A V H S H S
 UniRef90_A1ZY25 N P E K V K R F I E T V K S F
 UniRef90_L8XYJ9 D P E N V K A M V D A V R E F S
 UniRef90_W9VIE8 N P E H A G V F V D A V H E L S A
 UniRef90_UPI0003723886 N P D N V S V L V E A V H S R S
 UniRef90_G4CSJ9 N P E H V K I L L V D K V H E L S
 UniRef90_V4JCK1 N P E H A A A M V E A V H E Q S
 UniRef90_H2BT11 P V E N A R A F V D A V K E Y
 UniRef90_F0NYU9 P V E N A Q A F I E A V V N Y
 UniRef90_UPI0002559DEB G L E N A G A F I E A V K E Y
 UniRef90_UPI000464B5A8 P L E H V K H L V D T V Q K K S
 UniRef90_K1KT85 E P E K V K I F I Q T V K N Y
 UniRef90_J9JUM7 D P E H L R V M I D A V H E
 UniRef90_DOMHW9 N P D H V R A F V E A V H D Y
 UniRef90_F0IDU4 P V E N A R A F V E A V K
 UniRef90_Q82X50 P P E N A L A L I E A V H
 UniRef90_B3EAR8 P P E N A K F M V D C H H R L S
 UniRef90_UPI000366A262 D P D K A R C F I E S V K E Y S A
 UniRef90_A0A011QF89 P P D R V K A L V D A V H Q H S
 UniRef90_A6F6M8 E P E K A G V F I E A V G E L S
 UniRef90_E1SN93 D P E H A G A F I N A V H E L S
 UniRef90_K2PVF5 P V D H A K A F L D A V K E Y Q A
 UniRef90_UPI0002557F05 D P A H A G A M F D A V V E L S
 UniRef90_T1JKF0 N P E N V Q Y F I H A V H E L S
 UniRef90_G1ND34 N P E H V G A F V E A V H A H S
 UniRef90_U4TBL7 N P D N V K E L V N A V K E L S
 UniRef90_UPI00047249B4 K P E H V K L L V D T V H E S S A
 UniRef90_C4K8F9 P P E H V R L F V D A V H R L S
 UniRef90_UPI000366AB54 P P E H V A A M I E A V H E Y S
 UniRef90_UPI00047DEEA4 N P D H A G V F V D A V H E F S
 UniRef90_R4V2Y6 P P D H V A A M I E A V Q
 UniRef90_H8MKE7 D P D A A K F L V E A V H K H G A
 UniRef90_B3EHV5 D P A N L K L L V E F V K E E S A
 UniRef90_D5CTQ3 N P D N A A A L V Q A V H E L S
 UniRef90_UPI0003B60344 N P D H L K V L V D S V H E F
 UniRef90_A0A023NPA5 D P E N V K V L V D E V H A Y
 UniRef90_H2MBG4 E P E N V G A F V E A V H Q H S
 UniRef90_D4H7N1 P R E N V E Y L V K I V K
 UniRef90_R7ZNJ4 D P G K V K L F V D L V K E
 UniRef90_K2K2X2 D P A H A G A F I E A V G R L S
 UniRef90_UPI0004731B3D P P E A V T V M V E T V H D Y S
 UniRef90_A9HY51 P P E A V A E L V D E V H T Y S
 UniRef90_I4A0E9 P V E N A E A F I Q A V V N Y K A
 UniRef90_L8JVB1 D P G K V K F F V D S V K Q Q S A
 UniRef90_C1A7G9 P P A H A K A F V D A V K E W
 UniRef90_A5FLE7 P V D H A K A F I D A V K E Y
 UniRef90_E8REF4 P P E Q V R I A V E A V H R F S G
 UniRef90_L0H3V7 D P
 UniRef90_C7R7W3 D P A K A G V F I N S V H Q L S
 UniRef90_UPI000360D0AC N P E H A K A F I D A V H E F

UniRef90_UPI00047C1F38 1 K N D R F L R A L R R E P V D T T P V W L M R Q A G R Y R A T R A Q A G S 40
UniRef90_F0TMI9 M L K N D L Y L K A L L R G E S T V E R P P V W M M R Q A G R Y E F F R A L R K Y D
UniRef90_C4K9E7 K N D T F L R A L L R Q P T E Y T P V W L M R Q A G R Y E Y C R A L R A G D
UniRef90_Q2NWR2 K N D R Y L R A L L R R Q P V D V T P V W M M R Q A G R Y E Y K A T R A E A G D
UniRef90_L0ECM7 M S Y N D R F I R A C R G E R T D R T P V W Y M R Q A G R Y E Y R K T K K Y S
UniRef90_C1F1C6 R F V R A C L R R P V D D R T P V W F L M R Q A G R Y E Y M A V Q G G H T
UniRef90_UPI000370E695 M S K Q Y D F I K A C W C Q P V D R V P V W L M R Q A G R Y E Y D V R A V Q G G T
UniRef90_F0SN03 R M M K A L R R E P V D T T P I W L M R Q A G R Y E Y M A V R N V T
UniRef90_A3YC88 K N D R F L R A L L K Q P V D T T P V W M M R Q A G R Y E Y R A S R A H D S
UniRef90_W4LVM2 F M R A C R R E S T P Y T P V W L M R Q A G R Y E Y R R R R A Q V S S
UniRef90_UPI00029A9573 R F L K A A R R E P T D T T P I W I M R Q A G R Y E Y M S V R K V S S
UniRef90_K1KJB6 M K P N D C F L R A L K R E K T D F T P V W L M R Q A G R Y E Y C R A R A G S D
UniRef90_G4TED5 K N D L I L R A A R G E S T E R A P V W V M R Q A G R Y E F R A L R A E D
UniRef90_A7SJK0 N D R L L R A A K G E S V D R V P V W V M R Q A G R Y K F K E E N G A D S
UniRef90_M9LCQ5 M T Y N D R F L K A C R G E Q V D F V P V W Y M R Q A G R Y E D F D E Y R K K Y S
UniRef90_R4G8F1 K N D R L L R A A R G E A V D K I P V W I M R Q A G R Y E Y P R E L R K Y D
UniRef90_F7BVV4 N D T F L R A A W G E A T D Y T P V W C M R Q A G R Y E Y F Q E T R A G Q D
UniRef90_E4TG75 M N N L L I D V L D G K K V D R T P V W L M R Q A G R Y E Y M E V R K V T
UniRef90_I0K515 N D L V L R A A R G E K T V E R T P V W L M R Q A G R Y E Y R A V R E K A G S
UniRef90_B5E7R1 M N T R F L D A C W G K P V D T V P V W L M R Q A G R Y E Y M R V R K C T
UniRef90_H3KBB2 M K P N D A F L R A L L C R E K T D F T P L W L M R Q A G R Y E Y C R A R A G S D
UniRef90_V2UDR4 D M T K N D R F L R A L L R E P V D T T P V W M M R Q A G R Y E Y R A T R A Q A G D
UniRef90_W9DPB3 E Y T P K E R L A R A L T G Q P V D R M P A V S V T Q T G T V E Q M E A C G A F
UniRef90_L0DA46 R F L K A C R L E P T D V T P V W L M R Q A G R Y E Y R E L R A K S
UniRef90_D7DP85 K N D T F L K A L M R Q P T D Y T P V W M M R Q A G R Y E Y R E S R K G S D
UniRef90_D0MR48 K N D L L I R A L R G D R T E R V P V W C M R Q A G R Y H E F R E L R G Y D
UniRef90_UPI0004716301 M T K N D R F L R A L L R Q K T V D R T P V W M M R Q A G R Y E Y R E T R A G S D
UniRef90_UPI0003726A8D N E T F L K A A R G E K T K Y T P V W Y M R Q A G R Y E Y R K L R K Y S
UniRef90_C6WZF7 M L K N D L Y L K A L R G E T V E R P P V W M M R Q A G R Y E F F R A L R D Y D
UniRef90_D5MMI4 F L K A C R L E P A P Y T P I W I M R Q A G R Y E Y R E L R G K S
UniRef90_UPI00047E021D N D L L L R A A K G E Q V E R P V W V M R Q A G R Y R A V R E R L S G
UniRef90_W0P812 N D V F L R A L Q R G H V P Y T P V W L M R Q A G R Y L A E Y A R A G S
UniRef90_I6WXR8 M N D T F L R A L L R Q K C E Y T P I W L M R Q A G R Y E Y R A T R E K A G S
UniRef90_V2XLN1 K N D L F L R A A K G E T E D R A P V W I M R Q A G R Y E Y R F R K V R D H E
UniRef90_J9Z998 M T P N D L F L R A C R G E K T E R P P V W I M R Q A G R Y E Y Q E I R K K S
UniRef90_A0A026WC69 K N D R L L R A A R G E P V D R V P V W V M R Q A G R Y E Y Q S V R A R D
UniRef90_E0WUT6 M N K N D R Y L R A L L R Q P V D A T P V W M M R Q A G R Y E Y Q D I R K G N
UniRef90_UPI000361ED6D D M T K N D V F L R A L L K Q E V E Y T P V W M M R Q A G R Y E Y A T R A Q A G D
UniRef90_Q2S1W0 N D R L L R T A R G E P T D C T P V W M M R Q A G R Y E Y Q A L R K H S
UniRef90_UPI00035F043B N S R F L K A V R L E P T D A T P V W M M R Q A G R Y E Y R A L R A K T
UniRef90_UPI000455E697 K N D R L L R A A R G E P L D R A P V W V M R Q A G R Y E F R E T R K H D
UniRef90_UPI00036FFFB0 N D T F L R A C R G E K A T E Y T P L W L M R Q A G R Y E Y R E T R A R A G S
UniRef90_E8T2H7 M S L K D P I L R A A R G E K T D Y T P I W I M R Q A G R Y S E R Y R R A G S
UniRef90_T1P8S8 K N D N V L K A A R G E P V D R V P V W V M R Q A G R Y E F Q E V R K H D
UniRef90_M5RNH7 L F M K A C R G E A T E R T P V W L M R Q A G R Y E Y R E V R A K S
UniRef90_D2UEQ8 M L K N D R L L R A L R R E P V D Q T P V W L M R Q A G R Y E Y R A T R A R A G S
UniRef90_UPI0004281F47 N D R F L R A A R R E E V D Q V P V W Y M R Q A G R P E Y R K T K K Y S
UniRef90_D3RZH7 M T P K E R I R K I F S R E K P D R L A C F S G M G N V T V E G L K K Y D Y A
UniRef90_A0P534 M T P N D V F L K T L K K E S T P Y T P V W M M R Q A G R Y E Y R K T R K H S
UniRef90_A7H9E0 M T H R F L R A C R K E P V D R L P V W M M R Q A G R Y E Y Q Y R A V R A V G
UniRef90_J41L1 K N D L L L R A A R G E Q T E R A P V W V M R Q A G R Y E Y F R E V R A H E
UniRef90_E5AKK4 N D T F L R A L R R E P T E Y T P I W L M R Q A G R Y N A T R A R A G S
UniRef90_V4JF81 M T F N D T F L K A C M G R P V E Y T P V W L M R Q A G R Y Y Q R V R T N L S
UniRef90_S2XFU8 N D T F L R A A R G E K V D Y T P V W Y M R Q A G R Y E Y R K T K K Y S
UniRef90_V4YCE1 R F R S A I R G E P V D R P V W I M R Q A G R Y E Y R E I R S H S
UniRef90_UPI0003B4F559 M A F N D L L I R T L E G Q N S G R P P I W L M R Q A G R Y E Y R E I R S V S
UniRef90_G8N8U8 N D L L L K A A R G E A T P R P P V W F M R Q A G R Y E Y K E Y Q R R Y T
UniRef90_UPI000477611D N D C F L R A L L C E P T D Y T P V W L M R Q A G R Y E Y R A T R A H S
UniRef90_Q6ANR5 M N D T F L K A C R G E K T D Y T P I W M M R Q A G R Y A Y Q K I R G K S
UniRef90_R4I0H6 M N K N D R Y L R A L L R Q A V D M T P V W I M R Q A G R Y E Y K E L R A G D
UniRef90_E6PUM4 M T A N D T F L R A L L R Q P T D Y T P L W L M R Q A G R Y N A T R A R A G S
UniRef90_Q220I2 K N D T F L R A C L R Q A T D Y T P I W L M R Q A G R Y R A T R A K A G S
UniRef90_Q8XU90 N D T F L R A L L R Q P T E Y T P L W L M R Q A G R Y N A T R A R A G S
UniRef90_A2SC07 N D R F L R A C L R L P T D V T P V W L M R Q A G R Y R D T R A K A G S
UniRef90_UPI00047D1B22 N D R F L R A C R G E P T D R V P V W Y M R Q A G R Y D P D Y R K N Y S
UniRef90_N6UF06 K N D R I L K A A L R G E K P D K T P V W V M R Q A G R Y E F L Q Y R K H S
UniRef90_K2BPi3 K N D R I L K A L R R E A V D C T P V W F M R Q A G R Y R A L R E K A G S
UniRef90_E8SjN7 T K N D T L L R A L K G E V V S H T P V W F M R Q A G R P E Y R K L K K Y S
UniRef90_B8G821 M R D R F L R A C R G E P V D R T P I W L M R Q A G R Y E Y R A V R R Y G
UniRef90_X1XUX4 K N D N L L R A A R G E P V D R V P V W V M R Q A G R Y E Y F Q E V R K H D
UniRef90_D5EB72 M Q Q K Q R I I N A L E R K P V D K I P A G L F T T A A P L E I M D S C G V A
UniRef90_Q00XQ9 L M L R A L R G E D V E R P P T W M M R Q A G R Y Q D L C K R H T T
UniRef90_Q5L284 N D T F L R A C R G E Q T S Y V P V W Y M R Q A G R P E Y R A L K K Y S
UniRef90_A0A024GEL0 K N D L V V R A L L G K P T E R V P V W C M R Q A G R H E F R S L R G Y D
UniRef90_F2SUF4 K N D L L L R A A R G E K T V E R P P I W I M R Q A G R Y E Y H E A K G R D
UniRef90_V2QIU7 M A F N D L L K A L N K E K T E R P P V W L M R Q A G R Y E Y M E V R K K S
UniRef90_UPI000379F129 M T Y N D R F I R A C Y G Q E L D R L P V W Y M R Q A G R Y E Y R K I K K Y S
UniRef90_C7Q1S4 F L R A A R R E P V S R T P V W F M R Q A G R Y E Y K K V R G I P
UniRef90_F4W6N5 K N D R I L K A T R G E P V D R P V W V M R Q A G R Y E F Q E V R A H D
UniRef90_UPI00044498ED K N D L L L R A A R G E Q T E R A P V W V M R Q A G R Y E F R E L R K H E
UniRef90_UPI0002FD9DA3 N D T F L R A A R G E R T E Y T P V W Y M R Q A G R P E Y R K L K K Y S
UniRef90_A8FBM5 N D T F L R A C K G E K T D H V P A W Y M R Q A G R P E Y R A L K K Y G
UniRef90_I4C598 M T G K E R V M K V F N H E K P D R M P C F C V N G T P T Y E Q M D K V G A Y
UniRef90_D5XDX7 L T P R E R V L R L F E G K E I V D R P A C Y S G M G N V T A G L E Q F G Y K
UniRef90_F9DQC7 T F N D T L L R A A R G E E I G H T P V W F M R Q A G R P E Y R E I K K Y S
UniRef90_Q8TK12 E R N L R K N F L N A L C G N P V G M T P A L S V T Q T G T V E L M D L T D A S
UniRef90_UPI00037353B0 K N D R L L K A L R F E T V D R V P V W M M R Q A G R Y E Y K A T R A G D
UniRef90_S2K5W9 K N D L L L R A S R G E K I E R A P V W I M R Q A G R Y E Y F Q E L R K H S
UniRef90_K9H3P6 T S E K R F L R V L N G E T L S P P P I W L M R Q A G R Y E Y R E V R A G D
UniRef90_Q54DF9 K N D T F L K A C R G E E V P Y T P V W L M R Q A G R Y E Y F K S V R A V D
UniRef90_E4U7Q9 M N D V F L R A A R G E P T Y T P V W F M R Q A G R Y E Y R K I R R Y T
UniRef90_G4VSS2 K N D N L I R A A K G E A V S R L P V W L M R Q A G R Y E F R E L R K H D

UniRef90_UPI00047C1F38 F M G L L A T N P E L A S D V T L L Q M P L I K R R F F P L D D A A I L F F S D I L T I P D A M
UniRef90_F0TMI9 F F T R C Q T P E L A A C C E V T T L L Q M P L I K R R F F P L D D A A I L F F S D I L T V V P Q D A M
UniRef90_C4K9E7 F L Q L C C C K S N A D M A C C E V T T L L Q M P L I K R R F F P L D D A A I L F F S D I L T T V P D A M
UniRef90_Q2NWR2 F L M S Q C C C R N R N P E L A A E E V T T M M P L V R R K L L G V V D D A A I L L Y S D I M N P V M S L
UniRef90_L0ECM7 L L D I C C C K R N P E L A A E E V T T I T Q P A A E K L D D V V D D A A I L F F A D I L L P F E C M
UniRef90_C1F1C6 L L D I C C C K R D P A R A A E E V T T I T Q P A A E K L D D V V D D A A I L F F A D I L L P F E C M
UniRef90_UPI000370E695 F L L E L C C C Q T P E L A A E E V T T V T Q A Q Q V L L G V V D D A A I L F F A D I L L P M L M P M
UniRef90_F0SN03 F L L E L C C C K R D E F A C C E V T T V T Q A Q Q V L L G V V D D A A I L F F A D I L L P M L M P M
UniRef90_A3YC88 F L L E L C C C K R D E F A C C E V T T V T Q A Q Q V L L G V V D D A A I L F F A D I L L P M L M P M
UniRef90_W4LVM2 F L L E L C C C K S P E L A A E E V T T L T Q M A P L V E R Y E G V V D D A A I L F F A D I L L T I L P D A M
UniRef90_UPI00029A9573 F L L E L C C C K S P E L A A E E V T T L T Q M A P L V E R Y E G V V D D A A I L F F A D I L L P M L E P M
UniRef90_K1KJB6 F M G L L A M N T P D Y A T E E V T T L L Q Q P I I D R R Y T L D D A S I L F F S D I L T V V P Q D A M
UniRef90_G4TED5 F F K V C C C R T P S L A C C E V T T L L Q Q P I I D R R Y T L D D A S I L F F S D I L T V V P Q D A M
UniRef90_A7SJK0 F F K I V Q T P E M A C C E L T L L Q Q P I I R R Y D L D D A A I L F F S D I L V I P Q V L
UniRef90_M9LCQ5 L L E I C C C R Q T P E L A A E E A T M M Q P V I R R K L G D V D D A A I L F Y S D I M N P V Q A S M
UniRef90_R4G8F1 F F T L C C C R S P A L A C C E A T L L Q Q P I I R R R F F L D D A A I L F F S D I M N P V Q A S M
UniRef90_F7BVV4 F F I T C C C R S P E T C C C E L T L L Q Q P I I R R R F F L D D A A I L F F S D I L V V P Q Q A M
UniRef90_E4TG75 F L E L C C C K N T P E L A A K V T H Q V Q P V V D L L G V V D D A A I L F F S D I L I P V P E A M
UniRef90_I0K515 F I K R L A T T P E L A A E E V T V V Q P V V D L L G V V D D A A I L F F S D I L T P I E P M
UniRef90_B5E7R1 F L E L C C C K T P E L A A E E V T V V Q P V V D L L G V V D D A A I L F F S D I L T P I E P M
UniRef90_H3KBB2 F M G L A Q N T P D Y A T E E V T L L Q Q P I I D R R Y A L D D A A I L F F S D I L T V P D A M
UniRef90_V2UDR4 F L S L C C C K N T D F A C C E V T L L Q Q P I I R R R Y A L D D A A I L F F S D I L T V P D A M
UniRef90_W9DPB3 W P E A N N D A E K M A T L A E A G H T V V G F E A V R V P F D I T A E A E F F
UniRef90_L0DA46 F L E L C C C K N S P D F A T E E V T V T Q A A E R L G V V D D A S I L F F A D I L L T L E P M
UniRef90_D7DP85 F L Q L C C C K S P D F A T E E V T V T Q A A E R L G V V D D A S I L F F A D I L L T V P D A M
UniRef90_D0MR48 F F T M C C G V P E L A V E V S L L Q Q P L R R Y H M D D A V I L F F S D I L V I P Q D A M
UniRef90_UPI0004716301 F M S L C C C R N A Q E I L A C C E V T L L Q Q P L R R Y E L D D A A I L F F S D I L T I P D A M
UniRef90_UPI0003726A8D L F E I T H Q P E I C A Y V T R L P V E Y N V L D D A A I L Y K D I M S P L P A I
UniRef90_C6WZF7 F F T R C C C Q T P E L A A E E I T M M P L I R R R Y P L D D A A I L F F S D I L V V P Q A M
UniRef90_D5MMI4 F L E L C C C H R P D L A A E E V T V T Q A A E R L G V V D D A A I L F F G D I L L V V P E A M
UniRef90_UPI00047E021D F I E L V T T P D L A A E E V T L Q Q P V D L L G V V D D A A I L F F S D I L V V P E A M
UniRef90_W0P812 F L G L A K N P D F A T E E V T L Q Q P L A R F F P L D D A A I L F F S D I L M L P D A M
UniRef90_I6WXR8 F L G L A K S P E F A C C E V T L L Q Q P I I D R R F N L D D A A I L F F S D I L M V P D A M
UniRef90_V2XLN1 F F E I C C C Q T P E L A A E E L T V Q P I I R R Y T I D D A S I L F F S D I L V V P Q A M
UniRef90_J9Z998 F L G L C C C K T P D L A A Q A T M L P V D M L G V D D A A I L F F S D I L I P V E A M
UniRef90_A0A026WC69 F F T V C C C Q N P E L A A C C E V T L M Q P I I K R R F D D D A S I L F F S D I L V I P Q A M
UniRef90_E0WUT6 F M S L C C C K N P E L A C C E V T L M Q P L R R Y P L D D A A I L F F S D I L T I P D A M
UniRef90_UPI000361ED6D F L S L C C C K N T E L L A T E E V T I Q Q P L R E R F S L D D A A I L F F S D I L T I P D A M
UniRef90_Q2S1W0 F F E V V E T P E L A A E E I T I Q Q P V V E R F S L D D A A I L F F S D I M V V P E A M
UniRef90_UPI00035F043B M L E A I Q D P A L A A E E I T L Q Q P I I K A F D L D D A A I L F F S D I L T P L M G M
UniRef90_UPI000455E697 F F E T C R T P E L A K E V T I Q Q P I I D R Y G D D D A A I L F F S D I L V V P Q A M
UniRef90_UPI00036FFF60 F M D L A M N V D Y A T E E V T L Q Q P I I D R F A L D D A A I L F F S D I L T I P D A M
UniRef90_E8T2H7 F M E L C C C R N P E L A A E E V T L I P I E E L G V V D D A A I L F F S D I L V P V E K M
UniRef90_T1P8S8 F F T V C C C R T P E L A C C E V T M Q P L R R R F D L D D A S I L F F S D I L V I P Q A F
UniRef90_M5RNH7 F L E L C C C A N P K L C S E V M C T A V D R F L G V D D A A I L F F S D I L P L V P M
UniRef90_D2UEQ8 F L A M A K T P E L A C C E V T L Q P L A R F F P L D D A A I L F F S D I L T I P D A M
UniRef90_UPI0004281F47 L E E T T Q Q P E L C A W V T K L P V D Q Y D N D A A I L Y K D I M T P L P A L
UniRef90_D3RZH7 F Y E I H L D A E K M A N A A C S S Y E L Y G F E C A V A P F D I G V E A E V L
UniRef90_A0P534 F L D L C C C K N A D F A T E E V T L Q P L I D R Y P L D D A A I L F F S D I L T V P D A M
UniRef90_A7H9E0 F L E L C C C R S P E L I A Q V T L V A P L I D E F G F D D A A I L F F S D I L V H L P A M
UniRef90_J41L1 F L K I C C C R T P S L A T E E I T M Q P I I R R Y K L D D A A I L F F S D I L V I P E A L
UniRef90_E5AKK4 F L G L A K Q T P D Y A T E E V T L Q Q P I I D R Y V L D D A A I L F F S D I L T I P D A M
UniRef90_V4JF81 F L I E L C C K N P E L C V I E V T L Q Q P I I D Y L G V D D A A I L F F S D I L I P L E A M
UniRef90_S2XFU8 L E E I T H Q P E L C A Y V T R L P V E Y N V V D D A A I L Y K D I V T P L P G
UniRef90_V4YCE1 F R E A I S T P D I A T E I S L Q Q P W E R F Q P D A V V M Y S D I L V T V L E
UniRef90_UPI0003B4F559 F L I E L C C K T P E L A C C E V T L L Q P I I E A F G L D S A I L F S D I L V P I E P M
UniRef90_G8N8U8 L P E I V E N A E V C Q V T L L P V R Q L G V D D A A I L F F A D I T T P L P G M
UniRef90_UPI000477611D F M D L C E R N A A F A T E E V T L Q P V L A R F A L D D A A I L F F S D I L T V P D A M
UniRef90_Q6ANR5 F L E L C C C K N P A L C V I E V T L Q P V L D L L G M D D A A I L F F S D I L I L M E A M
UniRef90_R4I0H6 F M S L C C C K S A E L A C C E A T L L Q P L R R Y A L D D A A I L F F S D I L T I P D A M
UniRef90_E6PUM4 F L G L A Q N T D F A T E E V T L Q Q P L D R Y P L D D A A I L F F S D I L T V P D A M
UniRef90_Q220I2 F M G L A T N T D Y A T E E V T L Q Q P L D R Y P L D D A A I L F F S D I L T V P D A M
UniRef90_Q8XU90 F L G L A K S P A Y A T E E V T L Q Q P L D R Y P L D D A A I L F F S D I L T V P D A M
UniRef90_A2SC07 F M G L A T N P Q Y A T E E V T L Q Q P L D R Y P L D D A A I L F F S D I L T V P D A M
UniRef90_UPI00047D1B22 L L E I C C C R Q P E L A A E E V T M M P V R K L G V D D A A I L Y S D I M N P V A
UniRef90_N6UF06 F F E I C C C Q N P E H A S E V T L M P L R R R F D L D D A A I L F F S D I L V I P Q A L
UniRef90_K2BP13 F L K L S R T P E L A C C E I T L Q P L R R R F D L D D A A I L F F A D I L T L A D A M
UniRef90_E8SJK7 F L D I T H Q P E L C A Y V T A L P V E Q Y D T D A A V L Y K D I M T P L K S T
UniRef90_B8G821 F L Q M V K T P E I A A E V T M Q P I I A A F G V L D D A A I L F F A D I L P L P E G L
UniRef90_X1XUX4 F F T V C C C R T P E L A C C E V T M Q P L R R R F D L D D A S I L F S D I L V I P Q A L
UniRef90_D5EB72 R P E A D F D P E K M A E L A T A T Q S I P G F E T I R Y P F D I T A L A E S F
UniRef90_Q00XQ9 F R E R S E T V D L A V I E S L Q P V Y R A F K P D D G V I L Y K D I L T P L Q G M
UniRef90_Q5L284 L F E I T H Q P E L C A Y V T R L P V E Q Y G V D D A A I L Y K D I M T P L P A I
UniRef90_A0A024GEL0 F F T M C C S V P E L A V I E S L Q P F R R Y G V D A V I L F S D I L V I P Q A M
UniRef90_F2SUF4 F F E C C C R S P E L A A S T L T L Q P I I E R Y A L D D A A I L F F S D I L V I P Q A M
UniRef90_V2QIU7 F L E L C C C K T P E L A C A V T L L Q P V D L L G A D D A A I L F F S D I L I P I E P I
UniRef90_UPI000379F129 L L E I C C C R Q P D L A A E E V T L M P V R K L G V D D A A I L Y S D I M N P V A
UniRef90_C7Q1S4 M L D A C C L R P D L V T E I T L L Q P V R R Y G V D D A A V I L Y S D I V V P K A I
UniRef90_F4W6N5 F F T V C C C Q T P E L A C C E V T L L Q P I I R R R F D L D D A S I L F S D I L V I P Q A M
UniRef90_UPI00044498ED F F E I C C C R T P H L A T E I T L Q P V E R R Y S L D D A A I L F F S D I L V I P Q A M
UniRef90_UPI0002FD9DA3 L E E I T Q Q P E L C A Y V T R L P V E Q Y G V D D A A I L Y K D I V T P L P G I
UniRef90_A8FBM5 L F E I T H Q P E L C A Y V T R L P V E Q Y G V D D A A I L Y K D I M T P L P A I
UniRef90_I4C598 W P E G H E R A E D M A K L A I A Y T V L G F D A V R A P F C Q T F E A E A L
UniRef90_D5XDX7 L A E T H G D A G K M A N A A S Y K L F G Y E C A V V P F D I C V E A E A L
UniRef90_F9DQC7 L E E I T H Q P E L C A Y V T R L P V E Q Y G V D D A A I L Y K D I V T P L V G I
UniRef90_Q8TK12 W P E A H S D P E K M A T L A L A G H E I A G L E A V R Y P Y C L T V L A E T M
UniRef90_UPI00037353B0 F M S L C C C K T P A R A T E V T M Q P L R R R F D L D D A A I L F F S D I L T I P D A M
UniRef90_S2K5W9 F F E I C C C R T P E L A C A L T L Q P I I D R Y G L D D A S I L F S D I L V I P Q A M
UniRef90_K9H3P6 F L T L C C C Y T P D Y A V I E V T H Q P L R R Y G F D D A A I L F F S D I L V I P H A L
UniRef90_Q54DF9 F F S V C C C R T P E L A C K V T L Q P L D R Y P L D D A A I L F F S D I L T V P Q A M
UniRef90_E4U7Q9 L P E I V R H P E L V A E V T R L P V Q Q F G F D D A A I L F F A D I T T P L Y G M
UniRef90_G4VSS2 F F E L C C C R T P E L A C A V T L Q P I I N R F D L D D A A I L F S D I L V I P Q A L

UniRef90_UPI00047C1F38
UniRef90_F0TMI9
UniRef90_C4K9E7
UniRef90_Q2NWR2
UniRef90_L0ECM7
UniRef90_C1F1C6
UniRef90_UPI000370E695
UniRef90_F0SN03
UniRef90_A3YC88
UniRef90_W4LVM2
UniRef90_UPI00029A9573
UniRef90_K1KJB6
UniRef90_G4TED5
UniRef90_A7SJK0
UniRef90_M9LCQ5
UniRef90_R4G8F1
UniRef90_F7BVV4
UniRef90_E4TG75
UniRef90_I0K515
UniRef90_B5E7R1
UniRef90_H3KBB2
UniRef90_V2UDR4
UniRef90_W9DPB3
UniRef90_L0DA46
UniRef90_D7DP85
UniRef90_D0MR48
UniRef90_UPI0004716301
UniRef90_UPI0003726A8D
UniRef90_C6WZF7
UniRef90_D5MMI4
UniRef90_UPI00047E021D
UniRef90_W0P812
UniRef90_I6WXR8
UniRef90_V2XLN1
UniRef90_J9Z998
UniRef90_A0A026WC69
UniRef90_E0WUT6
UniRef90_UPI000361ED6D
UniRef90_Q2S1W0
UniRef90_UPI00035F043B
UniRef90_UPI000455E697
UniRef90_UPI00036FFF0
UniRef90_E8T2H7
UniRef90_T1P8S8
UniRef90_M5RNH7
UniRef90_D2UEQ8
UniRef90_UPI0004281F47
UniRef90_D3RZH7
UniRef90_A0P534
UniRef90_A7H9E0
UniRef90_J41L1
UniRef90_E5AKK4
UniRef90_V4JF81
UniRef90_S2XFU8
UniRef90_V4YCE1
UniRef90_UPI0003B4F559
UniRef90_G8N8U8
UniRef90_UPI000477611D
UniRef90_Q6ANR5
UniRef90_R4I0H6
UniRef90_E6PUM4
UniRef90_Q220I2
UniRef90_Q8XU90
UniRef90_A2SC07
UniRef90_UPI00047D1B22
UniRef90_N6UF06
UniRef90_K2BP13
UniRef90_E8SJK7
UniRef90_B8G821
UniRef90_X1XUX4
UniRef90_D5EB72
UniRef90_Q00XQ9
UniRef90_A5L284
UniRef90_A0A024GEL0
UniRef90_F2SUF4
UniRef90_V2QIU7
UniRef90_UPI000379F129
UniRef90_C7Q1S4
UniRef90_F4W6N5
UniRef90_UPI00044498ED
UniRef90_UPI0002FD9DA3
UniRef90_A8FBM5
UniRef90_I4C598
UniRef90_D5XDX7
UniRef90_F9DQC7
UniRef90_Q8TK12
UniRef90_UPI00037353B0
UniRef90_S2K5W9
UniRef90_K9H3P6
UniRef90_Q54DF9
UniRef90_E4U7Q9
UniRef90_G4VSS2

90 100 110 120
G L G L Y F A E G E G P K F E R P V R S A A D I A K L S V P D G T K L R
G L D F Q M K E E S V G E G P W L E T P V R T S K E Q V E A I L S E I P D G V N E R E L S
G L G L Y F A E G E G P R R F E R P L K R D E W E L R N L S A P D P H A E E L Q
G L G L W F E Q G E G P R F A R P Q H R R D V E Q L P I P S A P D P H A E E L Q
G V K F D I V P N V G P V V E E P I R T K R D I E R L R P I D V E G E D L P
G M L P F E F Q A G E G P V V F H K P I R T A A D V E A L I L P D D M A L A V P
G L D L T Y E K G E G P K I H N P L R T N A D I D N F R E L E S L G E L Q
G Q M L Y F E T G E G P K F K K V I R T E A A D V D A L P I A K V N D L D S
G M L E L F A V G E G P V L H N P V R T A A D V D R L N E N P E V E I T L S
G T D L E Y A K G E G P V I H N P I R T G A E V D R L Q E L E D V E A L H
G L G L H F V A G E G P V F D H P V Q S E E A V A K L Y V P E S D K E L R R G
G L V V E M V P G K G P T F F P E P L K T P E D F S R L N E H V D D V D K E L R G
G M T V E M V P G K G P H F P E P L N D S P S D I E K L N Q N A N I S E G L G G
G L A F D V A N G E G P V I H N P I R S A A D V E R L K T P V V D P E G E D L G G
G M V V E M K P G V G P V L P N P L R S P D D I K Q L K F P V N V K E T L G
G M Q V A M V P G K G P S F S P L R E E Q D L D R L Q A P V D V D K E L G
G V K L D F D P A P V I S N P V R T Q K D V D R L T I L E P Y E K D V P
G L P Y E M I E Q R G P V F P R T I R T M A D L D S L H I A D P E E H L G
G M E L D F T P G P V F F A K P I R T M A D V E A L K I P K M E T D V P
G L G L S F V A G E G P V F F A K P V Q D E A A V A Q L A A P D P N V E L K G
G L G L Y F E A G E G P K F H K T V R T E Q D I A Q L P K L N A K T D L G
C E I K D G T K E E Q P S V V G H V V S N V E D I E K L K G Y S L E H G R I G
G L D L E Y F A K G E G P V I H N P V R T A A D V D R I R W M E D P S P L D Q
G L G L Y F E A G E G P K F E R T R E E A D I Q K L E V P D M A K L Q
G M E V T M V P K V G P V L P D P I R K P E D I D K L D L N P N I E E K L G G
G L G L H F V P G E G P H F S H P V R D S D A I A A L K K P D V K H D L G
G L D V D I K S G I G P V I S N P V R S V A D V E K L Q I D V A G S L S
G I N F E M K E N L G P W L E T P I R T L A Q V I Q E V E V L P N V N D T L G
G V G L E F T K G D G P V I H N P I R C G A D L K R L Q P V D V Q G S L S
G L P Y E M I E K R G P Y F P N T I Q T V E D L D K L P T Q I D V A G D R L S
G L G L D F V A G E G P Q F A R P V R T Q D V E Q L A V P D M N Q L R R
G L G L D F V A G E G P K F A N P R D E E D V K N L K V P D M N E L G
G M E V L M N P G P Q F P D P L V T P E D V K K L R E V V D V N K E L
G M E L E F S E H K G P S F P R P V Q S R M D V D R L L V P E P V A H T G
G L K V E M V A G E G P V R L P E P L A G P D D L A R L V Q P N V E E A L K
G L G L Y F A E G E G P V R F D K P I T C R A D V E K L P D P P E Q E L G
G L T V K M V S G Q G P T F P K P L T T P D E M E R L V E P D V E S A L G
G L E L D K F V E G K G P V I G N P I T S L A D I A G L M T P P A A E A M P
G M E V I M N P G P P H F P E P L D T P D D L K R L P E T I D V D K E L G
G L G L S F Q G G E G P K F E K N V R D E A A V A A L D V P D M E D K L R
G L E V K F V E G K G P V L S S K V E T A D D A R R L K V P E P E K D L R
G M T V E M H P G V G P V F P E P L Q T P A D L A K L K P E G A V P E R L S
G F N L E F V A G D G P V I H N P V R C G E A D L A R V R A L D K P E K L D
G L E L Y F V E G E G P K F R H P V R D A A I A Q L G V P D M E T L R
G V D V E I K K G I G P V T Y N P I E S M A D V D R L G E L D A H H V P
G A E M N F Y T E D I V Y P T V K K A I N E P E D L N Q V P E K I E E K G R V
G L G L H F V D G E G P K F H Y P L I D E Q A I N K L D V P N V E E D L G
G L D L S F E K G E K G K G D G G P K I A R T R A D V D A L K V P A N K K D L P
G M E L I M N P G P P F F P A P L D T P A D L A K L R T E V D V Y K E L V T
G L G L E F T P G E G P R F A H P V R T E A D V A R L A V P G I D A T R E Y V T
G L A L E F H E G R G P V L P E P I H G K A A L D R L A V P D P R E T M G
I G V D V K I K S G V G P V I S N P I R T V Q D V E K L G E L S P Q D H I P
P L G F E Y H V E S G V G P V I E N P V E S P A D T D R E R G D V R D Q L W
G V N L D F K P A P Y I A D P V R T L A D A E R M K V V N P A E D L K
G V E V S L V E G K G P V I H T P I R D Q K G V E A L R P L V P E E G V P
G L G L S F A E G E G P R F A H P L R D E T A I R A L A V P P M E E R L Q
G A K L E F N E G C G P V F P N P I K D Q T A L D A L I I P D A D D A T G
G L G L Y F T K S E G P R F S Y T V T S R S D V E K L P L F D P E V E L S
G L G L R F A A G E G P R F R E P L R N E A D I L A L R A P D L N L L R Y V E L D
G L G L S F A L G E G P K F A H P V Q D E A A V A K L A V P D M D K L R
G L G L S F A Q G E G P R F A R P V R S E A D V A A L S V P D M A S L Q Y V F D
G L G L S F A Q G E G P R F A H P L R D E A D V A A K L V P D M E K L R
S I G I D F D I V K D V G P V I H N P V R S A A D V D R L K P I D V E G D L P
G M E V E M R A G V G P V L P E P L T L D K A A T L S A N G T A Q K L E
Q L E F D I V E G G G P V L A K P L R S E K D I S A L P A G Q I D P E R T D V P
G V D V D L K S G I G P V I A N P I R Q M S D V E A L G Q I D P E R T D V P
G L R L T Y E K G E G P V I H N P I R H P H D V A T L H P C I D P R E T V A
G I V V E M K P G V G P V L P E P L V G P A D L L R L N Q T G S I E R L K
G C K I H R G S K D I P P A V L I E G L E I N I E D I E V P E D L M Q K G R M P
N I P F D I V K G T G P I I F N P V R E M E D I K A I T N L E P E K S V P
G V N V E I Q G G I G P V I A N P I R S L Q D V E R L G E I D P E H D V P
G M Q I S M V P S V G P V F S K P I R E L K D V E E I N L T P D V E Q T L G
G M E V M I D K K G P S F P S P L R T P E D E Q Y T Q V L R T V D V T K E L D
G V N L S F N P A P V I S N P V R T M E D V N R I L N H F N P E S D A P
S I G I D F D I V K D I G P V I D N P I R S M A D V E R L R P I D V E G D L G
G L V E V E M A P N V G P V I A H P V R D L S G L D Q I R P L D P A T D L A
G L K V E M A P G V G P V L I P Q P L T G P N D L S R L I R P N V N E T L K
G M E V L M N P G P P S F P D P L N T P E D I K K L R E H L D V N K E L G
G V D V K T I Q A G V G P V I S N P I R T S A E D V E K L G E F Y P K E H T P
I G V D V E I K N G I G P V I D S P I R T K A D I E R L G E L H P E E D L P
G C K V K L G G R E N I P G I D H P T L Y K V D D A P F L P D D F L Q R G R I P
G C V M N P Y E E V D Y P T I K E S K L I H E A A D M F E I P D N L T E R G R I P
I G I D V K I K S G V G P V I S N P I R S I K D E K L G E F S A E D Q V P
G C N V R M G T K D I Q P S V L S H P F S E G P E K L K V P E A L L E K G R I P
G L G L Y F E T G E G P K F K R T L R T E A D F K Q L E N P F I A N D S L S
G L E V Q M V A G K G P V F P A P L E T P E C F S R L T E N V D V E K E L G
G Q P L R F V K G E G P K L D P V R S V E E L G S L D P S R V L P T L A
G L E V Q M I P G K G P F F P N P I R T I E D L S R V Q F P V D V N K E L G
G F D V D I V E G K G P V I H N P I R D T P E D V R R I H L F S A E A H T P
G M E V K M Q P G V G P K F T E P L N S V N D L D R L N A Q V D V R K E L N

UniRef90_UPI00047C1F38 Y V T D A V I S L I R R E L D N G Q V P L I I G G F S A G S S P W T L A C Y M I E E G G G S K
UniRef90_F0TMI9 Y V F D S V E L T L Q K L D N G Q V P L I I G G F S A G S S P W T L A C Y M I E E G G G S K
UniRef90_C4K9E7 Y V M D A V A E I R R A L D D G G A V P L I I G G F S A G S S P W T L A T Y M V E E G G G S K
UniRef90_Q2NWR2 Y V M N A V R A I R R Q R L D D G G A V P L I I G G F S A G S S P W T L A T Y M V E E G G G S K
UniRef90_L0ECM7 H I L E T I R I L D R E L D V P L I I T F F A G A P F T L A S Y M I E E G G R P S R K
UniRef90_C1F1C6 Y V A Q A I E K V V A H F K D R R V G L I I G G F F G G A P Y T L A S Y M I E E G G G T K
UniRef90_UPI000370E695 Y V P A L I K R L R I A F E K G R V P L I I G G F F A G A P F T L A S Y M V E E G G K G S K
UniRef90_F0SN03 F V F D A V K T L I R E Q L P A G D R I V P L L L G G F A G A P F T L A S Y C E E E G G G S K
UniRef90_A3YC88 Y V M K A V T R C L I R R A L G G R V P L I I G G F F A G A P F T L A T Y M V E E G G G S K
UniRef90_W4LVM2 Y V L E A V T T L C A R A A L R P D V P L I I G G F F A G A P F T L A T Y M V E E G G G S R
UniRef90_UPI00029A9573 F V F E T V R Q I R R R D L P G D R I V P L L L G G F F A G A P F T L A S Y A I E E G G G S K
UniRef90_K1KJB6 Y V M D A V T S I L R K A L N N G R V P L I I G G F F A G S P F T L A C Y M I E E G G R G S K
UniRef90_G4TED5 Y V C D A I T L T R K E L K G E V P L I I G G F F A G S P W T L F A Y M I E E G G R G S K
UniRef90_A7SJK0 Y V Y R A I T L T R H K L E G K V P L I I G G F T F A G S P W T L M S Y M I E E G G G S R
UniRef90_M9LCQ5 H I L E T I R I L D A E K K V P L I I T F A G S P F T L A S Y M I E E G G R P S K
UniRef90_R4G8F1 Y V M D A I T L T R N K A L E E G K V P L I I G G F F A G S P W T L A S Y M V E E G G R G S K
UniRef90_F7BVV4 Y V F Q A I T L L T R H Q L E A G R V P L I I G F F A G A P W T L M S Y M V E E G G G S K
UniRef90_E4TG75 F V V E T V K L L V K Q D L A N G V P L I I G F F A G A P F T L A C Y M V E E G G G S K
UniRef90_I0K515 Y V L E A L K R I L T K Q L L A G R V P L I I G G F F A G A P F T L A C Y M V E E G R G S K
UniRef90_B5E7R1 Y V L D A V K L L R K E L A T K R V P L I I G G F F A G A P F T L A C Y M V E E G K G S K
UniRef90_H3KBB2 Y V M D A V S S I R S A L N N G R V P L I I G G F F S G S P F T L A T Y M V E E G G R G S K
UniRef90_V2UDR4 Y V M D A V S T I R S A L A G Q V P L I I G G F S G S P W T L A T Y M V E E G G S K
UniRef90_W9DPB3 V Y C E A I K I L A D K Y G D E L V M G S M I G P F S L A Q H I N G D D W F
UniRef90_L0DA46 Y V Y R A V T S I R S A L P S G R I P L I I G G F F A G A P F T L A C Y A I E E G G G K
UniRef90_D7DP85 Y V L D A V A Q I L R K T L D G R V P L I I G G F F T G S P W T L A T Y M V E E G G K G K
UniRef90_D0MR48 Y M L D A L N S I R Q K I N G S V P L I I G G F V G A P L T L M C Y M V E E G S G S K
UniRef90_UPI0004716301 Y V T N A V S V I T R R E L N G S V P L I I G G F F A G S P W T L A T Y M V E E G G P S K
UniRef90_UPI0003726A8D Y V L D A I K L L T Q E Q L N V P L I I G G F F A G A P F T L A S Y M I E E G G G T K
UniRef90_C6WZF7 Y V F D A I E L T L H K L D N N I P L I I G G F A G S P W T L L C Y C V E E G K G S K
UniRef90_D5MMI4 F L F E A V R L L A R A A L P A N I P L I I G G F F A G A P F T L A S Y M I E E G R G S K
UniRef90_UPI00047E021D Y V F E A V A L T K K A L A G R V P L I I G G F F A G A P F T I F A Y M V E E G R G S K
UniRef90_W0P812 Y V F D A V S Q I R Q S L N G S V P L I I G G F A G S P W T V T C Y M V E E G R G S K
UniRef90_I6WXR8 Y V F D A V K L I R G K L N G R V P L I I G G F F A G A P W T L A C Y M I E E G G Q T K
UniRef90_V2XLN1 Y V F E A L T K T R M E L N G E V P L I I G G F C G A P W T L F A Y M I E E G G G T K
UniRef90_J9Z998 F V A E A I T R E I N R R L S G R L V P L I I G G F F A G A P F T L A T Y M V E E G E T S K
UniRef90_A0A026WC69 Y V G D A I T L T R H H L D G S K V P L I I G G F F S G A P W T L M G Y M I E E Q G G S R
UniRef90_E0WUT6 Y V L D A V R K V R H E L A D G S R P L I I G G F F S G S P W T L A A Y M V E E G G S K
UniRef90_UPI000361ED6D Y V T D A V S S I R K A L A N G R V P L I I G G F S G S P F T L A C Y M I E E G G S S K
UniRef90_Q2S1W0 H V F E A L R V T R H E L A G R V P L I I G G F F S G A P W T L M A Y M V E E G G G S K
UniRef90_UPI00035F043B Y T A Q A I L R L V T A E L D G R L V P L I I G G F V G A P F T L A S Y A I E E G G G S K
UniRef90_UPI000455E697 Y V Y D A I T L T R K E L G G R V P L I I G G F C G A P W T L M A Y M I E E G G K S K
UniRef90_UPI00036FFF0 Y V E D A I T S I R K A L N G R V P L I I G G F F S G S P W T L A C Y M V E E G G S S K
UniRef90_E8T2H7 Y V L E T I Q L I K R R L T D R P L I I G G F F S G A P F T L A S Y M L E E G G S S K
UniRef90_T1P8S8 Y V G D A I T M M R H M L D G K V P L L L G G F T G A P W T L M G Y M I E E G G G S K
UniRef90_M5RNNH7 F V Y E T V R Q T R A D L P E S V P L I I G G F F A G S P F T L A S Y A I E E G G G S K
UniRef90_D2UEQ8 Y V M D A V R V I R R E L D G S V P L I I G G F F A G S P W T L A C Y M V E E G G G S K
UniRef90_UPI0004281F47 Y V L E T I K I L R E Q L N G V P L I I G G F S G A P F T L S S Y M I E E G G P S K
UniRef90_D3RZH7 L V L K A L E I M Q K R V N G E E V P L I A T Y I L G P Y T L A G Q I M D L E K I L
UniRef90_A0P534 Y V F N A V R S I K T A L N G R V P L I I G Y F A G S P W T L A T Y M V E E G Q N I K
UniRef90_A7H9E0 Y V L D G V R A I R A A L R D R V P L I I G G F V G G P F T L A S Y A V E E G G Q N I K
UniRef90_J41L1 Y V F D A I T M T R R E L D G E V P L I I G G F C G A P W T L F S Y M I E E G G G S K
UniRef90_E5AKK4 D A V A Q I R R V G G A D G R Q R P L I I G G F F S G S P W T L A C Y M V E E G G G S K
UniRef90_V4JF81 F V L K T I E L L R R E L S V P L I I G G F F A G A P F T L C A T Y S I E E G G S S K
UniRef90_S2XFU8 F V L E T I K L L T E E Q L D V P L I I G G F F A G A P F T L A S Y M I E E G G P S K
UniRef90_V4YCE1 Y V G E L I E R L S A T L G D E A V L P L I I G G F F A G G P F T L A A Y A C E G S T S R
UniRef90_UPI0003B4F559 F I M D A I K L M V S K L N V P L I I G G F S G A P F T L A C Y M I E E G E G S K
UniRef90_G8N8U8 Y V M E S I R L L K A E L Q V P L I I G G F F A G A P F T L A S Y M V E E G G P S R
UniRef90_UPI000477611D Y V F D A V G E I R R A L K G S V P L I I G G F F A G S P F T L A C Y M V E E G G A G S K
UniRef90_Q6ANR5 F V M E T I R L L R G E L Q G V P L I I G G F A G A P F T C A T Y L I E E G G S S K
UniRef90_R4I0H6 Y V M N A V R A I R R E L K G Q V P L I I G G F F S G S P W T L A T Y M V E E G G S S K
UniRef90_E6PUM4 A V A Q I R R A L V R D G S M R V P L I I G G F F S G S P W T L A C Y M V E E G Q G S D
UniRef90_Q220I2 Y V F D A V T S I R K A L N G K V P L I I G G F S G S P W T L G C Y M V E E G A G S K
UniRef90_Q8XU90 A V S E I R R A L V Y D G R R V P L I I G G F F S G S P W T L A C Y M V E E G G G S K
UniRef90_A2SC07 Y V F D A V A L A P A G A P G R V P L I I G G F F S G S P W T L A C Y M V E E G A G S K
UniRef90_UPI00047D1B22 H V L E T I R I L R R E L D I P L I I T F F G G A P F T L A S Y I V E E G R P S K
UniRef90_N6UF06 Y V G H A I N L T R H S K L E G K V P L I I G G F F A G A P W T L M G Y M I E E G G G S K
UniRef90_K2BP13 Y I F E T I K M I R H S A L K D R V P L I I G G F F A G S P W T L A A Y L V E E G R G S K
UniRef90_E8SJK7 Y V L D T I K L L T E E K L N V P L I I G G F T G A P F T L A S Y M I E E G G P S K
UniRef90_B8G821 Y T L D A V L T V K R E L N G L V P L I I G G F F A G A P F T L A S Y A I E E G G G S K
UniRef90_X1XUX4 Y V G E A I T M M R R M L D G K V P L I I G G F T G A P W T L M G Y M I E E G G G S K
UniRef90_D5EB72 A I L E A T H I I K R Q V G D E A V P L I I C G F A G P V D L A V N L M G M K P F L
UniRef90_Q00XQ9 F V G E S I K L L R S E I G N E A T L L G G F C G A P F T L A S Y M I E E G G T S K
UniRef90_Q5L284 Y V F E T I R L L L V N E Q L D V P L I I G G F F A G A P F T L A S Y M I E E G G P S K
UniRef90_A0A024GEL0 Y V L D A I N L A R K E I N G R V P L I I G G F C G G P L T L L C Y M I E E G R G F K
UniRef90_F2SUF4 Y V Y K A I T L T R Q K L E E G R V P L I I G G F T G A P W T L A C Y M V E E G G G S K
UniRef90_V2QIU7 F V Y K T I D L R V K K L N V P L I I G G F F S G A P F T L A C Y M T E E G A G S K
UniRef90_UPI000379F129 H V L E T I R I L D R E L D R P L I I T F F A G A P F T I A S Y L I E E G R P S K
UniRef90_C7Q1S4 F A T E A V R Q L V G E L G S V P L I I G G F F G G A P F T V A S Y L I E E G R P S K
UniRef90_F4W6N5 Y V G D A I T L T R H H L N G R V P L I I G G F T G A P W T L M G Y M I E E G G G S R
UniRef90_UPI00044498ED Y V F E A I T M A R K E L K G E V P L I I G G F T G A P W T L F M Y M V E E G G G S K
UniRef90_UPI0002FD9DA3 Y V L E T I K I L T E E Q L D V P L I I G G F T G A P F T L A S Y M I E E G G P S R
UniRef90_A8FBM5 Y V L D T I Q L L T K E Q L N V P L I I G G F F A G A P F T M A S Y M I E E G G P S K
UniRef90_I4C598 Q L I E A I R I M K R E V G D K A A I L G G I T I G P F T I A G A M L D A V P I L
UniRef90_D5XDX7 V V A E A I K M L K A Q I G K E V P I G T Y L L G P F T L A G Q I M D L N E P L F
UniRef90_F9DQC7 Y V L D T I K I L T Q E Q L N V P L I I G F A G A P F T L A S Y M I E E G G P S K
UniRef90_Q8TK12 I V L K A A R A G E E N G K E E V P L I I A G M E G P L T V F T H L A E V K N Y L
UniRef90_UPI00037353B0 Y V M D A V T S I R K E L N G L V P L I I G G F F S G S A W T L A T Y M I E E G G S S K
UniRef90_S2K5W9 Y V Y Q A I T L T R H H L D G R V P L I I G G F I G A P W T L M A Y M I E E G G G S K
UniRef90_K9H3P6 P V F E T V R R L G K E I P P A T A L I G G F C G A P W T V A T Y M V E E G G G S K
UniRef90_Q54DF9 Y V F E A L T L T R K A L E G R V P L I I G G F F A G A P W T L M T Y C E E G S P S K
UniRef90_E4U7Q9 F V L E A I R I L K A E L E V P L I I G G F F A G A P F T L A S Y L I E E G G P S K
UniRef90_G4VSS2 Y V Y E S I T L T R Y R L N G R V P L I I G F A G A P W T L M S Y M I E E G G S S K

UniRef90_UPI00047C1F38
UniRef90_F0TMI9
UniRef90_C4K9E7
UniRef90_Q2NWR2
UniRef90_L0ECM7
UniRef90_C1F1C6
UniRef90_UPI000370E695
UniRef90_F0SN03
UniRef90_A3YC88
UniRef90_W4LVM2
UniRef90_UPI00029A9573
UniRef90_K1KJB6
UniRef90_G4TED5
UniRef90_A7SJK0
UniRef90_M9LCQ5
UniRef90_R4G8F1
UniRef90_F7BVV4
UniRef90_E4TG75
UniRef90_I0K515
UniRef90_B5E7R1
UniRef90_H3KBB2
UniRef90_V2UDR4
UniRef90_W9DPB3
UniRef90_L0DA46
UniRef90_D7DP85
UniRef90_D0MR48
UniRef90_UPI0004716301
UniRef90_UPI0003726A8D
UniRef90_C6WZF7
UniRef90_D5MMI4
UniRef90_UPI00047E021D
UniRef90_W0P812
UniRef90_I6WXR8
UniRef90_V2XLN1
UniRef90_J9Z998
UniRef90_A0A026WC69
UniRef90_E0WUT6
UniRef90_UPI000361ED6D
UniRef90_Q2S1W0
UniRef90_UPI00035F043B
UniRef90_UPI000455E697
UniRef90_UPI00036FFFB0
UniRef90_E8T2H7
UniRef90_T1P8S8
UniRef90_M5RNNH7
UniRef90_D2UEQ8
UniRef90_UPI0004281F47
UniRef90_D3RZH7
UniRef90_A0P534
UniRef90_A7H9E0
UniRef90_J41L1
UniRef90_E5AKK4
UniRef90_V4JF81
UniRef90_S2XFU8
UniRef90_V4YCE1
UniRef90_UPI0003B4F559
UniRef90_G8N8U8
UniRef90_UPI000477611D
UniRef90_Q6ANR5
UniRef90_R4I0H6
UniRef90_E6PUM4
UniRef90_Q220I2
UniRef90_Q8XU90
UniRef90_A2SC07
UniRef90_UPI00047D1B22
UniRef90_N6UF06
UniRef90_K2BP13
UniRef90_E8SJN7
UniRef90_B8G821
UniRef90_X1XUX4
UniRef90_D5EB72
UniRef90_Q00XQ9
UniRef90_Q5L284
UniRef90_A0A024GEL0
UniRef90_F2SUF4
UniRef90_V2QIU7
UniRef90_UPI000379F129
UniRef90_C7Q1S4
UniRef90_F4W6N5
UniRef90_UPI00044498ED
UniRef90_UPI0002FD9DA3
UniRef90_A8FBM5
UniRef90_I4C598
UniRef90_D5XDX7
UniRef90_F9DQC7
UniRef90_Q8TK12
UniRef90_UPI00037353B0
UniRef90_S2K5W9
UniRef90_K9H3P6
UniRef90_Q54DF9
UniRef90_E4U7Q9
UniRef90_G4VSS2

170 180 190 200
A L A E D P A S L H R L L G V V T D A V I A Y L D A Q R Q A G A Q A M Q V I F D D
A F C F Q Q P E A A H L L L Q K I T D T T I A Y L L K N K V E K G V S A V M Q V I F D D
S L A Y S R P E D L M H H I L L D V K T A D S V V V L Y L L N G Q I E E A G A Q A V M L V F D D
Q M L Y A E P E T L M H H I L L D V K T A D S V V V L Y L L N G Q I E E A G A Q A V M L V F D D
R Y M Y G E P E L W Q L L M D K L G D M V V T Y A R A H V V A A G A G K A F Q Q I F D D
K F M Y R Q P D A W K Q L M D K L V T V L T A Y A R A Q Q I V E A G A G Q A V T I Q I F D D
K M M Y S D F P L Y D A L M Q K I T E M D R R Y L N M Q Q I E A G A G A Q T I Q I F D D
S Y M Y G D P T A W D A L V M S R L T E N S L T R Y L L K A Q I E A G A G Q A V Q I F D D
D M M Y K S P E L L H E L L M R K L A I S V T R Y L L N G Q I E A G A Q A V V Q I F D D
N Y M Y S D A A A W H A L L R T Q L S R H L A R Y L L N A Q I E A G A Q A V V Q I F D D
S M M Y N D E G A W R T L M E R L S R S L T R Y L L N A Q I E A G A G Q A V V Q I F D D
T M M Y Q R P D L L E R V L D V N A K A V A T Y L L N A Q I E A G A Q A V V Q I F D D
T W L F K Y P E E S K A L L E R T A H V C A D F L V A Q V K A G A Q A L L Q V F D D
K W L Y A H M E A S S K L L L Q L L T D A V V E H V L V L Q V A R A G A Q L L Q V F F E D
M M M Y E T P D K V W H A L L M D K L G D M V I A Y L V R S Q V A R A G A Q A L F Q V F F E D
T W L Y Q Y R T K S Q E L L N D I T D M V L C D Y L V E Q A R A G A Q A L Q V F F E D
R W L Y Q W P E A S H R L L G L L T D V L V P Y L V G Q V A A G A Q A L L Q V F F E D
R M M H N D Y K S F S T L M E K L T T D S T I K Y L Q A Q V I D N G C P V V V Q I F D D
T F L Y T D P T F A H L L Q R I T D S T I A Y L L K A Q V I E A G A G A D L V Q I F D D
K M M Y A D P E V Y A A L M D K I T T M D M E Y L N A Q I K A G A Q A I Q I F D D
T M M Y R R P D L F H R L L E V N A E A V A L Y L N A Q I K A G A Q A I Q I F D D
E M M Y A Q P E L L H A L L D H L A E S V I D Y L N A Q I D A G A Q A I Q I F D D
M A I F T D E A F G L A L M E F T T D F C V A Y A E K M V E N G A D T M V I I D
T F M Y R P G A W D A L M E R V A A T T L Y L N A Q I E A G A Q A V L Q V I F D D
K M A Y A R P D L L H H I L L E T T A Q T V I Q Y L L N A Q I E A G A Q A V M I F D D
T F L Y Q H P E A S H K L L L Q G I T D V C V N F M L A Q Q R A G A Q A L Q V I F F E D
D F M Y S D P E A L H A L L L A D A D A V T E Y L N A Q I E A G A Q A I Q I F D D
N Y M Y T E P K A W H A L L M D K L A D M T V T Y L V R A Q V K A G A K A I Q I F D D
K F C F E N P E A A H L L L Q K I T D T T I A Y L L K R K V E K G V S A V V Q I F D D
T L M Y R D P A A W H A L L M E R L S D V V S D Y L N G Q I E A A G V Q V L Q V I F D D
K M L Y T Q P D L A H H A L L E K I T Q T T I T Y L L R L Q V E A A G A D L L Q V F D D
T M M Y A Q P A M L H R I L E V T A Q A T A Q Y L N E Q I R A G A Q A V M I F D D
S M M Y S R P E L L H S V L L E L C A Q S T A Q Y L T E Q V K A G A Q A L Q V I F D D
T W L F K Y P E E S K A L L M R I A D V C V D F L V G Q V K A G A Q A L L Q V I F D D
D M M F S D P E T L H T L L L D R I T E T V I R Y L E M Q I E A G I H A Y Q I F D D
S W L Y K Y P E D S H K L L R M I T D V I V D Y L V M Q I K A G A Q S L L Q V I F D D
K M M C D D P E S L K L L L E K L T K T V T Q Y L N A Q I K A G A Q S L M I F D D
T M M Y Q R P D L L H R V L D V L A D S V I V Y L N T Q I D A G A Q A V V Q I F D D
R W L Y R H P D A S K A L L Q R T T D V I V E Y L L T R Q V D A G A Q A M L Q V I F D D
R L M Y H Q P E A W A S L L M D K L H V L E D Y L L F Q A E A G C A A L Q I F D D
T W L F K H P E E S Q K L L M R I A D V C V T Y L V G Q A R A G A Q L L Q V I F D D
D Y M Y S R P D L M H R I L D L N A R S V A A Y L N A Q I E A G A Q A V M I F D D
N Y M W N S P E L L W D T L M G K L V D T V V E Y L S A Q I E A G V D L V Q I F D D
T W L K D Y T D D S K K L L M D M L A S S I V D Y L E M Q V K A G A Q M V Q V I F F E D
K L M H S D A G A W A D L M N K L S E S I T V Y L N H Q I A A G A Q A V Q I F D D
A M A L N D P T A L H K L L S V N T S D A V I A Y L A K A Q R A A G A Q A L Q V F D D
N M M Y S Q P E A W F K L L M D K L G D M V I A Y A K A Q V N A G A Q A I Q V F D D
K M S F K N P D R I N E L L S Q L T D F L A E L G R I Y Q D A G I D Y L T M I F D D
K M L Y S R P D L I Q H I L L K V T T E S V S I Y L R K I E A G A D A V L M I F D D
T M L Y A E P R T A H A L F E K L T Q A A T V Q I E E Q I E A G A Q A A Q I F F E D
T W L F K W P E E S K T L L K R I A D L C V D F L V G Q V K A G A Q A L Q V I F D D
S M L Y A R P D L M H R I L E V N A R A V A D Y L N A Q I D A G A Q A V M I F D D
K M M F A A P E L F H A I M A K I T Q T T I S Y L R A Q A E A G A Q A L Q I F D D
N Y M V S E P Q A W F A L M D K L A D M I T Y L T K A Q I D A G A K A I Q I F D D
S F M A N D P E A F E Q L D A L T E V L I E Y C Q Y Q E D A G A D A I Q I F D D
K M M H N E E K A F R M L M E K L A E S T A A Y L Q E Q V K N G C P V V Q M F D D
H F M Y R E E A L W H R L M D K L T Q A M A A Y L R A Q A E A G A D L L V F D D
A L M Y S R P E D L L H H I L L Q V N A Q T V T S Y L N T Q I E S G A Q A L M V F D D
K M M F T Q P E L F H G I M E K I T Q A T I L Y L Q A Q A R A G A Q A L Q I F D D
K M M Y A E P N T L H L L L T K L A D S A L L Y L N A Q I K A G V Q S V M V F D D
D W L Y S R P D L M H H I L L A V N A D A V A A Y L N A Q I D A G A Q A V M V F D D
T M L Y S R P D L M H R I L Q I N A D S V A Q Y L N A Q I E A G A Q A V M I F D D
S M L Y A R P D L M H R I L E V N A A A V D Y L N A Q I D A G A Q A V M V F D D
T L L Y R R P D L M H R I L E V N A D A V A A Y L N A Q I E A G A Q A V M I F D D
S Y M Y G E P D V W H R L M G K L S A M A A D Y L R A H V R A G A Q A V Q I F D D
K W L Y A F P E E S H A L L N T L T E V I T D Y L V M Q I E Y G A Q I V I F D D
R M Q Y Q N A D L L H Q L L S Y L S Q A T A S Y V S E Q I K A G V Q V I M L F D D
N Y M Y S D E A T W F K L M D V L T D M S T R Y V G A Q V K A G A Q L I Q I F D D
R F M Y E P T A W H D L M E R L G T L V A E Y L T A Q V E A G A D A V Q I F D D
T W L T E H A E A S Q K L L D L T T D Q V V D Y L V M Q V K A G A Q M L Q V F F E D
L K I L L K E P H K L E R L M E V T T R A C I K A A N E S L K A G A D V I C F G E D
K M A F D A P A V Y E A L M N K L T D A V I E Y T R Y Q A D A G A Q A V V Q I F D D
N Y M Y A E P K A W F A L M D K L A E M T R Y V R A Q I R A G A S A V Q I F D D
T F L Y E H P T E A H T I L Y A I T D T C V R F L V A Q Q R A G A Q V L Q V F F E D
M W L Y K Y P D A S K N L L Q K I S E V C V E H L A Q Q V K A G A Q M I Q V F D D
K M M L N T P D V F H S L M K K L T E D T I K Y L Q N Q V K H G C A A L Q M F D D
T M M Y S E P A T W F A L M D K L G D M V I T Y L R A H V Q N G G K A F Q V F D D
N H M L G A P E D L F A A L M D R L A D L T A G F M R V Q V E A G A S V L Q V F D D
S W L Y K Y P E D T H T L L Q M I T D V I V D Y L V M Q V K A G A Q L L Q V F F E D
T W L F K Y P E E S K A L L E R I A D I C A D Y L V G Q V K A G A Q L L Q V F F E D
N Y M V S D P K A W F K L M D K L A D M I T A D I T A Q V E A G A S A L Q V F D D
N Y M Y S E P T W M L L M N K L A D M T I T Y L R A Q V K A G V S A F Q I F D D
K A S F K T P D K L H P F L D V A E K A G T L L G K A L I E A G A D L I A V E D
K L S F K K Q K L V A E M L D R L A D V I T K L I P Y Y E A A G A D Y I C I R E D
S F M V S P E A W F A L M D K L A D M T I A Y L I Q A Q V A A G A K A V Q I F D D
I W T I K E P D Y V N A F M E T C T E I C I E Y A N A L L D C G A D T L S M P D
D Y L Y S K P E F L H Q V L A H V N A A I I D Y L D A Q I V A G A Q L I Q V F D D
T W L W K Y P K E S H A L L Q R I T D I A V E F L V G Q V R A G A Q M L Q V F F E D
K W A Y S D P E G F D R L I G M L V D A T T A Y L I E Q V D A G A E A L Q I F D D
S W L Y K H P E E S H K F L S M L T R V C T D Y L L G Q I K A G A Q A L Q I F D D
N F M Y A P E A S W L L M R T L T N A M V E Y L L S Q A R A G A D A L Q V F D D
K W L Y T E P Q S S Q R L L S L L T Q K V V E H L I Q Q V L S G A Q L L Q V F F E

UniRef90_UPI00047C1F38 T W G G M L A 210 P H L Y R E F S L R Y L Q R I A A E L P R G P L I L F G K G N 240
UniRef90_F0TMI9 S W G G M L S S P E D Y Q E F S W Q Y I E Q Q I V E A G L L P L T H V V V F F G K G C
UniRef90_C4K9E7 S W G G V L S E A A Y R K E F S L P Y L E Q Q V V A G L L Q R R V P S L V F F T K G G
UniRef90_Q2NWR2 T W G G A L T S G A A D Y R E F S M H K I V V D A G L L R R V P V T L F T K G G
UniRef90_L0ECM7 S W V G A L S P R D F E R E C V L P V I R R I F D E L L A D L D I P K I Y F P G
UniRef90_C1F1C6 S W A G S L S V E D Y R E F V L P V T R Q L I V R E G L L Q K R D P V I Y F G V D T
UniRef90_UPI000370E695 T W G G L L A G P H D F E R Y I P Y A K Q L I N G V L K R D P V I Y F V K G G
UniRef90_F0SN03 S W A G C L L L A G P D D Y R K Y V L P Y T K R I I D A V P E A P V I N F L T G N
UniRef90_A3YC88 T W G G V L S S G P K Y Q E F S L M Y M K K I I H D G G K K I P V I N F T K N G
UniRef90_W4LVM2 S W V G N L S P A D Y R T F V L P H T K A L I A Q I P D V P V I H F G T G T
UniRef90_UPI00029A9573 S W A G C L S S P D D Y R R Y V L P Y T R Q V V E G V L H K T P V I N F L T G N
UniRef90_K1KJB6 T W G G M L A S D G D F Q R F S L R Y T R Q V L D S L N E G E V L V P S I V F T
UniRef90_G4TED5 S W A G E L S G P S D Y R I F S L P Y C Q L I A R K I P Q V P V L L F P K G A
UniRef90_A7SJQ0 S H G G L L G H D M F M L F S L P Y L R Q I A E K V K E K P M T V F A K G A
UniRef90_M9LCQ5 S W V G S L S P R D F E R Y V L P T M T R I S A E L S A L D V I Y F P G V S
UniRef90_R4G8F1 S S A E Y L S G P E L F N Q F A L P Y I T K I S K T V K E K P M T I F A K G A
UniRef90_F7BVV4 S H A G H L G P E L F S E Y A L P Y I R D V A K R V K P V P L I I F A K D A
UniRef90_E4TG75 T W A G L L S P C E Y A E M V L P F V N I L V D N L K N A H I V V Y F A K D S
UniRef90_I0K515 S W A G I L S S P E Q Y R I F S L P Y I R Q I C P T V G H T P I T V F A K G A
UniRef90_B5E7R1 T W G G M L A S P A D Y E R Y V L P Y T Q R L I N G L D R T N I P V I H F V K
UniRef90_H3KBB2 T W G G M L A S D G D F Q T F S L A Y T K K V I E K L I R E N S I V F T K G G
UniRef90_V2UDR4 S W G S L A H R E D G D F Y Q E F S L Q Y M Q K I I A G L Q R I P V I L F T K G G
UniRef90_W9DPB3 P T A S A Q L T G A E F Y E K F V V P F H A K I V D A M H K V N V P H I C G D T
UniRef90_L0DA46 S W V G N L S P F D Y R R F V L P H M R R L F E G L P A T P V I H F G T D T
UniRef90_D7DP85 S W G G A L S H D A Y I E F S L N Y M K K I V A G L R K V P S V V F T K G G
UniRef90_D0MR48 T V G A E V L T Q D H F Y F P Y L V Q I A D R V K A E L P D T P I V C F C K G T
UniRef90_UPI0004716301 T W G G V L T T P A Y S A F S L A Y M Q R L V H E G R S E N V P L I F T K Q G
UniRef90_UPI0003726A8D S W V G A L N V A D Y R T F I K P L I M E R I F S E L R S E N V P L I F T G V G A
UniRef90_C6WZ7F S W G G M L S P Y D Y Q E F S W P Y I N Q I V E A L S E L T H V V V F G K G
UniRef90_D5MMI4 S W V G C L S P D D Y R E F V L P H T K R A I A R V P G V P V I H F G T D T
UniRef90_UPI00047E021D S W A G L L S L E Q Y R I F S L P Y L K I C Q A I P Q V P K T I F A K G A
UniRef90_W0P812 S W G G V L A D G L Y Q Q F S L A Y I T Q V I S Q L N R T Q V I A F T K G G
UniRef90_I6WXR8 S W G G V L A H G F Y Y Q E F S L K Y M R S V L D T L R G F P M I A F T K G G
UniRef90_V2XLN1 P H D F N L F S F P T L Q H I S K G V H R R L K E E S I P E V P M T I F A K G A
UniRef90_J9Z998 T W A G S L S P V H Y R S F A L P Y V R R I V D S L Q R H G I P S I L Y V N
UniRef90_A0A026WC69 S N G D Y L D D A L F A N S F H Y L K Q I S E R V P M I V F P K G A T M
UniRef90_E0WUT6 T W G L L T T K G Y Q T F S S H Y M K K I L K V N E G R P V P V T L F T K G G
UniRef90_UPI000361ED6D T W G G V L S E T A Y Q N F S L R Y M Q K I V A G L K Q V P V I V F T K G G
UniRef90_Q2S1W0 S W A G L H T P D E N F R T F C L P Y L A E I A T R V S K A A H L V I F A K G A
UniRef90_UPI00035F043B S W A G T L S P R D Y A R F V A P Y N A R L I A A A R E S G V P V I Y F S T G T
UniRef90_UPI000455E697 S N A G D L S P Y D F T T F S L P S L K H I A T K V K E R L G S D A V P M T
UniRef90_UPI00036FFF0 S W G G V L A D G K F Q Y T E Q V L G Q L K R T G P D G G A D I P R I V F T K G G
UniRef90_E8T2H7 S W M G V L S R E D Y E R F V F L P T E K V V K A L K E R H I H F G V N A
UniRef90_T1P8S8 S S A E H T W C A P Y L K D I A S K L K Q R L S E Q N I P L V P M T I F A K G A
UniRef90_M5RNNH7 S W A G C L S P S D Y S K F V L P W M K Q I A G I D P S V P V I N F A T G
UniRef90_D2UEQ8 T W G G V L S P A M Y R E F S L P Y L Q R I A G E L E R T P L I L F G K G
UniRef90_UPI0004281F47 S W V G A L N V N D Y R I Y V K P V M E R I F T E L K E T N V P L I T F G V G A
UniRef90_D3RZH7 M G A P T D V L S P R M F K N L L P H L K E L F L K L K E P T V L H I C G D T
UniRef90_A0P534 S W G A L S H H E Y E S H S L N Y M K V I I S N L N M G F I I F T K G G
UniRef90_A7H9E0 S W L G E L D R A D L E E F A F P Y L A R I A E A V K R T G V P S L F F S T G T
UniRef90_J411L1 P H H F R E F S L P L L K Y I S T I V R S K L A A E G I P T V P M T L F P K G A
UniRef90_E5AKK4 T W G G V L A E R I L Y S F S L Q Y M S Q V V A A L K R E H V I A F T K G G
UniRef90_V4JF81 S W A G I L A P G D Y R H Y A L P Y V E Q I F T Q L R D C A V P L I Y F I N
UniRef90_S2XFU8 S W V G A L N I E D Y R I F I K P V M T R F T A K E Q D G V P V T T F G V G A
UniRef90_V4YCE1 T Y A S L L S P A D Y E R Y I V P R H Q R I L D A V D I P T L V I F V R N M
UniRef90_UPI0003B4F559 T W A G I V S P Y E Y E E F I Y P Y V K Q V V D S V E G A H F I Y F A K D S
UniRef90_G8N8U8 S W V G A L S P A D Y R R Y V K P H M E R L F Q A L K P V P V I H F G V G T
UniRef90_UPI000477611D T W G G V L S T P A Y R E F S L A Y M R Q I V A G L K R E H V V F T K G G
UniRef90_Q6ANR5 S W A G V L A P C D F E V F A L P Y V R R I A S L Q Q F D L P I I Y F A N N G
UniRef90_R4I0H6 T W G G V L T S R D Y C E F S L Y Y M H K I V D S L R Y I P V T L F T K G G
UniRef90_E6PUM4 S W G G A L A D G A F Q E F S L A Y S Q R V I S R L K R E Q L I L F T K G G
UniRef90_Q220I2 S W G G V L A D G A F Q E F S L A Y T A R V L A Q L K R E H R I P R I V F T
UniRef90_Q8XU90 T W G G A L A D G I Y Q T F S L A Y M A R V V E G L R R V P Q I L F T K G G
UniRef90_A2SC07 S W G G V L A D G A F Q R F S L A Y T E R V L R Q L K R E Q Q I V F T K G G
UniRef90_UPI00047D1B22 S W V G A L A P H D F A E F V L P H V E E I F E R L S D L D V I Y F P G V S
UniRef90_N6UF06 S N A E Y T F C L P Y L K R I A S Q D V R T K L K E K N L Q E V P M V L F A K G G
UniRef90_K2BP13 T W S G D L A H Y H L F S L A Y I E K I A K K I K D F P D V P I L Y S K N G
UniRef90_E8SJN7 S W V G A L N Q P D Y D Y I I K P C M E K L I T G I K A Y N V P V I M F G V G A
UniRef90_B8G821 S W A G T L A P A D Y R A Y V L R H T Q N V V A T V R A P P L I Y F G T D M
UniRef90_X1XUX4 S S A D H L S L P C L Q R I R T D V L R K L A D E Q V P A V P M V L F A K G A
UniRef90_D5EB72 A V V S P D I I P A M F K S V I K P H Y K Q L A D S V N G K C V I H V C G K A
UniRef90_Q00XQ9 S W A S E F S P A D F E K Y C L P Y L Q R L V K T H P H V P L I I Y S S G S
UniRef90_Q5L284 S W V G A V S A D D Y R T F I K P A M A R I F A A L R E E G A P L I M F G V G A
UniRef90_A0A024GEL0 S V A A E S V I T Q K H Y F E F A F P Y L E Q T A A R V K D A C G V P V V C F S
UniRef90_F2SUF4 S W A G E L S P R S F A E F S L P Y L R F V S A N L P K R P M T V F A K G A
UniRef90_V2QIU7 T W A G L L P P A E Y K E M V F P Y V K E I S E S S A P F I Y F A K D G
UniRef90_UPI000379F129 S W V G A L S P Q D F S H Y V L P T I K R I F D E L K N I P K I Y F P G V S
UniRef90_C7Q1S4 S W A G A L S P R D Y E R Y V M P H S A K V L D S L A D L G V P R I H F G V G T
UniRef90_F4W6N5 S N G Y L D N Y S F K Y I K P L S E R V R K Q L K E A N I P E V P M I A F P K
UniRef90_UPI00044498ED S N A G E L S P H D Y E T F S L P Y T T R I L T R V R P M T L F P K G A N T
UniRef90_UPI0002FD9DA3 S W V G A L N V E D Y R V F I K P V M T R I F A E L R N Q N V P L I L F G V G A
UniRef90_A8FBM5 S W V G A L N A A D Y R T F I K P V M Q R I F T E L K S E N V P M I M Y G V G A
UniRef90_I4C598 M Q A S P D L T A P H T Y R D L E L E Y Q K K Q V D A L S V P V I L H I C G N V
UniRef90_D5XDX7 M G A T T D L L S P R V I F K S L I P P L T K I A Q N I N V P K I L H I C G S T
UniRef90_F9DQC7 S W V G A L N V S P R Y I F I K P T M T R I F S E L R K L N V P L I T F G V G A
UniRef90_Q8TK12 G G I V I G S R M M P P S V L E N S V K P F Y K R C K K V K G P V I L H I C G D V
UniRef90_UPI00037353B0 S W G G A L A H R Q E F S H Q Y N K Q V V A E L K K R H P D I P V V F T K G G
UniRef90_S2K5W9 S W G G E L S P Q D F K E Y S L P Y I R Q I S N K V K E R P M T I F A K G S
UniRef90_K9H3P6 S W A G V D D A F E R W S I R P I A D I T R R V K E A R P G T K V I G F P R G A
UniRef90_Q54DF9 S W S N E L S P A M F K E Y C L P Y L V Q I G K E V K H P E I P L I C F A K
UniRef90_E4U7Q9 S W V G R L T R H D Y E R Y V A P H M R R L F E A L K P L G V P V V H F G T Q T
UniRef90_G4VSS2 S H A G F L S P Y L F N T F C L P Y L K Q I S N E V R I P P L I V F A K D G

UniRef90_UPI00047C1F38
UniRef90_F0TMI9
UniRef90_C4K9E7
UniRef90_Q2NWR2
UniRef90_L0ECM7
UniRef90_C1F1C6
UniRef90_UPI000370E695
UniRef90_F0SN03
UniRef90_A3YC88
UniRef90_W4LVM2
UniRef90_UPI00029A9573
UniRef90_K1KJB6
UniRef90_G4TED5
UniRef90_A7SJK0
UniRef90_M9LCQ5
UniRef90_R4G8F1
UniRef90_F7BVV4
UniRef90_E4TG75
UniRef90_I0K515
UniRef90_B5E7R1
UniRef90_H3KBB2
UniRef90_V2UDR4
UniRef90_W9DPB3
UniRef90_L0DA46
UniRef90_D7DP85
UniRef90_D0MR48
UniRef90_UPI0004716301
UniRef90_UPI0003726A8D
UniRef90_C6WZF7
UniRef90_D5MMI4
UniRef90_UPI00047E021D
UniRef90_W0P812
UniRef90_I6WXR8
UniRef90_V2XLN1
UniRef90_J9Z998
UniRef90_A0A026WC69
UniRef90_E0WUT6
UniRef90_UPI000361ED6D
UniRef90_Q2S1W0
UniRef90_UPI00035F043B
UniRef90_UPI000455E697
UniRef90_UPI00036FFFB0
UniRef90_E8T2H7
UniRef90_T1P8S8
UniRef90_M5RNNH7
UniRef90_D2UEQ8
UniRef90_UPI0004281F47
UniRef90_D3RZH7
UniRef90_D0P534
UniRef90_A7H9E0
UniRef90_J41L1
UniRef90_E5AKK4
UniRef90_V4JF81
UniRef90_S2XFU8
UniRef90_V4YCE1
UniRef90_UPI0003B4F559
UniRef90_G8N8U8
UniRef90_UPI000477611D
UniRef90_Q6ANR5
UniRef90_R4I0H6
UniRef90_E6PUM4
UniRef90_Q220I2
UniRef90_Q8XU90
UniRef90_A2SC07
UniRef90_UPI00047D1B22
UniRef90_N6UF06
UniRef90_K2BP13
UniRef90_E8SJK7
UniRef90_B8G821
UniRef90_X1XUX4
UniRef90_D5EB72
UniRef90_Q00XQ9
UniRef90_Q5L284
UniRef90_A0A024GEL0
UniRef90_F2SUF4
UniRef90_V2QIU7
UniRef90_UPI000379F129
UniRef90_C7Q1S4
UniRef90_F4W6N5
UniRef90_UPI00044498ED
UniRef90_UPI0002FD9DA3
UniRef90_A8FBM5
UniRef90_I4C598
UniRef90_D5XDX7
UniRef90_F9DQC7
UniRef90_Q8TK12
UniRef90_UPI00037353B0
UniRef90_S2K5W9
UniRef90_K9H3P6
UniRef90_Q54DF9
UniRef90_E4U7Q9
UniRef90_G4VSS2

250 260 270 280
G P Y L E E L A A T G A E A I G V D W T V S L G D A R R R T G G R V A L Q G N
W F A L E E M T L S K A S A L G V D W T I T P E L A R T Y T N H T M T L Q
G L W L E S I A A T G C D A V G L D W T M D I G D A R R R L V G D K V A L Q G N
G Q W L E A M A A T G C D A V G L D W S T D I A D A R R R R V G D K V A L Q G N
V S S G E L L P S L K G I K A D V T G L D W R V P I R E G R R R L G G G Y A V Q
A S L L P S M R E T A G A D V I G L D W R T P L A E A W H R L L D Y G C A V Q
G G M L E L V K K E T A G A D V I G L D W H V N L G K A R D I L G D K I A V Q G N
P A L L P V Q K E A G G A A I G L D W R V D L A E A W E T V G Y D F A V Q G
G Q W L E N M A A S G T D A L G L D W T T D M A E A R A R V G N K V A L Q G N
N A L L E L M R A D A G G H V I G V D W R V E L D A A W R R L G A V A I Q
P A L L P L L R E S G G D V I G I D W R V D L G E A W K T V G Y D V A V Q G N L
K G G G E W L S E T A A S G C N A V G L D W T V N M T R A R R V V E D K V A L Q
N W G H K E F A E T A G Y D V L G L D W V N E P A A V R R Q V V G N K V A L Q G N
H Y A T K E L S Q C G Y D V V S L D W T M S S K E A R R I V A P T V T L Q
S G E L L P T L R E L K A D V I G L D W R V S V T E G R R R L N G R F A V T L Q
H Y A L E E L A N S G Y D V V G I D W T I D P A L A R K C V G P N V T L Q
H Y A L E E L A Q S G Y E V V G I D W K V N P A L A R R E R V G K T V T L Q
A T F R K Y I S N L K C S C I G V D W K L E L D E A D M Q L G T G K F V T L Q
F F A R Q A I G Q L N C D V V G L D W N M D A A E S R R L L V P N K V T L Q G N
G A G T M L E I V K Q A G G D V M G L D W H V N L G K A R D I L G D M A V Q G N
G E W I A D I A S T G C D A V G L D W S V N L T R A R S V V G D R V A L Q G N
G Q W L I P M L J A T G A D A L G L D W T T S L K T A R E L V Q G Q V A L Q G N
T L G L A L M E S S G V D G I S V D Q N V D V A T A V G S V E K A V I V G N
G S L L E L Q R D A G G D A L G L D W R V E L D Q S W N R L G P K V G V Q G
A L W L E L Q A E I G A D A L G L D W T V D I G Q A R K R V G D K V A L Q G N
Q Y A Y E K L V I A T K Y D C I G L D W Q S D P V I E V R Q I A R G R V S L Q
G Q W L E S I A A D S G C D A V G L D W G I E L G N A R A R I G D R V A L Q G N
S H L A R E W H D L P V D V V G L D W R L Q I K E A R A R I G D M G L T K T L Q
C W F A L E E M T L S K S A L G V D W T I R P E I A R K L V G E N M T L Q G N
T S L L P L I R E A G G N V I G L D W R V D L G E A W A G L G Y E V G V Q G
V A A R Q D I A H L D C Q V V G L D W T M P I A E S R A L A G E K T L Q
G L W L E D I V S D C D A I G L D W T V N L K Q A R E R V G D R V A L Q G N
G L W L E D M V D A G F D A L G L D W T V G L S D A R R R V Q D R V A L Q G N
N H A L S F L A E H S G Y D V L G L D W C I D P A E A R R L V G T K V A L Q G N
G S C A L L E D M V I T A G T N V V S V D W R M S L A N V R E R V P A S V S I T Q G
N S L K I L A E D Q G Y E V I G L D W T I D A V E A R R R Q V L G P N I T L Q
G H W L E E L A S T G C D A I G L D W T T D I A S A R R Q V L G D K V A L Q
G L W L E K M A D I G A D A L G L D W T V N L S Q A K A R V G D K V A L Q G N
H Y A L D A L A D T D Y D V I S L D S T M D P D A A R D T V G D R A V L Q G N
G T L L R T I S A L G S D V V G V D W R I G L D E A W A Q I G H D R A I Q G N L
L F A K G A S P T L A A R G G Y D V I G L D W T V D P R D V S T L P I E I S L Q
G L W L T Q M N L L P D C D V I G V D W T V N L G A A R A S L W M H G E G K S I L Q
S H L L E V N N R L P V D V I G L D W K T E I P F A L E I R I D K S I L Q
H S L A E Q A T F G Y D V I S L D W T V D P E E A R K Q V G P N I T L Q G N
N P E L L P L R G D R R T V V G V D W R L S L D V A W Q R I G H D C A V Q G N
A P Y L E E L A A S G A E G V G V D W T I D L A D A A R R T G G R V A L Q G N
R H L T K D W H D L P V D V V G L D W R Y P I S E A R K D G I T K T V Q
N M L V E L M W S S G A T A I S V E Q K N D V A K T R E K L G E E A I F G N
G Q W L D L Q S Q S G A D A L G I Q W Q T D L G N A R K V V N D K I A L Q G N
T A H L E P I S K L G Y D V V S V D W R I P I D E A R R R A P G V A I Q G N M D
N A D L A A I A E G T G Y D T I S L D W C I E P S E A R R R V G G N I A L Q G N
G Q W L E A I A A S G V D A V G L D W T V D L A R A R A R V G G R V A L Q G N
N G A T L L N Q C E S I A A Q V I G V D W R V N I G E A A R L V S P K V V Q G N
S H L A K E W H D L P V D V I G L D W R L S I K E A R A M G L T K T L Q
G G N L D M L A D S G V D V I G L D W T V D I E S A R E T L G D Q P V L Q
S S F Y P V I K Q L N C S A L G V D W K I T L E Q A D K A L D S K F T L Q
M G L L Q E M R Q A G G D V L G L D H H T P L P W A R E V L G P T P V L Q
G L W L E D I V Q T G C D A V G L D W C V D P A Q A R V R T G G K V A L Q G N
S T L L E M S A S S G A S V L G L D W R I N I G D A G K R V P G I A L Q G N I D
G Q W L E V M A S T G C D A L G L D W V T D I A D A R R R V G D K V A L Q G N
G P W L Q A M S H S G A D A L G L D W T V N L G A A R A Q I G O R V A L Q
K G G G M W L K E M G L L D C D V L G L D W T V N L A K A R A T V G D S K A L Q
G L W L E S M A Q T G A D A L G V D W T V N L Q L A R V R T G G R V A L Q
G L W L E A I A D S G C D V V G L D W T M N L G A A R A R V G D R V A L Q G N
S G E L L P H L I T G L K A D V V G L D W R V P I A E G R R R T E G K F A I Q G N
W Y C L E E L A D L G Y E V L G I D W T V E P K F V R N I L K N K N I T I Q G N
A M G L E A R A A L P G V D A L G L D W T V D I G L A R E K V G Q R V A L Q G N
S H L I E S W N A L P I D V L G L D W R T S I N E A R A K G V S K A L Q
A G L A G E L R Q T L G T D V L G V D W R I D L D V A W A Q Y G Y E H A V I Q G
M H S L A E Q A Q T G Y E V I G L D W T I D P E E A R K R V G P N V T L Q G N
D P I I K D I A E C G F C G I S V E E S V E D Q Y A I K M A H E G G A L T G N
G G F L E R L A T P N A D V I S L D G T V D M A D A R R R L G A N Q G A V Q G
S H L V H E W N D L P L D V I G L D W R L S I R E A R R Q G I A K A I Q
K G T P Y A Y K A L A T T K Y D C L I Q V D W Q S D I C Q V R D I V D G K V S L Q
W Y A L D E L C E S G Y N V V G L D W Q H D A A K A R A V A N G R V S L Q
S A Y F D T I K E L N C A G V I G I D W K I S L K E A N V M L G S K F V L Q
S G E L L P T L R G L Q A N V I G L D W R V S V I A E G R R R L G P N Y A V Q G N
G E L L P L M A A G A D V V G V D W R V P L D E A S R R I G P D Y A V Q G N
G A T M N S A M D Q S Y E V I G L D W T V D P I E A R K Q L G A N V T L Q
T P S V V A S A N S G Y D V I G L D W C V A R S A A A A N V R D G K G V A F Q
S H L I N E W N D L P I D V I G L D W R M S P I R K A R E L G V E K A V Q
S H L V K D W H D L P L D V V G L D W R M S V D E A R K E G L T K T L Q
D K I I P F M H D T G C A A I S L E P K S D T Q L A R K V V G P S G I L I G G
N S V I T V M Q E S G Y D A L S I E Q K N D M V K T R A D I G K E P L V F G A
S H L A N E W H D L P V D V V G L D W R L S V K V A G E R G L T K P L Q G N L D
G D S L G T L S E C G F E A I S I E E K V S L K A A K E V I D G R A R L I G N
G L W L D V Q A D S D A D C L G L D W T M P L D K A R V I I A E A N K G S A I Q
W Y A L T D L S E S N Y E V V S L D W T I D P A F A R K M T N D K V A L Q
G P M Y P A F I E K T G V D A V S L D T T V P L D Y A R D H I Q P R C P V Q G N
G S N F A L E D L S K S G A Y D V L G D W T I E P S V A R E M V A D R V S L Q
M H L L S P M A E A G D V I G V D T T P L D W A R D R L G A R P V Q G N L D
H Y A L T E L S K A D Y D V I S L D W T I S P R L A R N T V G S H I T L Q

UniRef90_UPI00047C1F38 L D P S T L Y A N P D A I R A E A R R R A L D D A G F H V F N L G G H G M A P S M
UniRef90_F0TMI9 G N F D P A R L H S T P E T I V R K M V D N M L D R A F G Y I V N L G G H G G I L S P N T
UniRef90_C4K9E7 L D P S N V L Y F A P S P A R I V A T E R E T A T I L D D A G E F H V F N L G G H G G I L S Q Y Q T
UniRef90_Q2NWR2 M D P S V L V L Y G S P A R I V A T E R E V A T I L D D A G E F H V F N L G G H G G I L S H Q Q D V
UniRef90_L0ECM7 G N L D P A V L T G P M A V I E E E Q A A D I L D D Q G G F V F N L G G H G G I L F P E A T
UniRef90_C1F1C6 G N L D P I T L Y A E P D L I E E Q R V E N I L A Q R P G F H I F N L G G H G G I L V P G T
UniRef90_UPI000370E695 L D P T V L Y A P K P Y I E Q N E V Q R I L A D R P G F H I F N L G G H G G I L P T V
UniRef90_F0SN03 N L D P V T L F A D P V I R E R A L L E V L K K P G F H I F N L G G H G G I L M P G M
UniRef90_A3YC88 L D P C V L Y A D K D V I R D Q V G E V L A G Q F F G H I F N L G G H G G I L H P Q F V
UniRef90_W4LVM2 G N L D P C V L Y A E R T Y I R E R A Q R I L A D Q P G F H I F N L G G H G G I L P T T
UniRef90_UPI00029A9573 D P V S L M A D L P I L K Q R A K A V L T A A A D G R G G H I F N L G G H G G I L F P E V
UniRef90_K1KJB6 G N M D P L A L L Y G P E E T I R A E A R K V M A D D G G G H I F N L G G H G G I L N T P Q F T
UniRef90_G4TED5 M D P N V L Y G G R D A I R A E A V E K M A K E F G G G W I A N L G G H G G I L P G V
UniRef90_A7SJK0 G N L D P A A L Y G S H E D I V Y A V K G M V R G G F G Y I A N L G G H G G I L H P D H
UniRef90_M9LCQ5 L D P Y V L Y A R P L S D I E R E A A H L V E N K F G G Y I A N L G G H G G I L F P E A M
UniRef90_R4G8F1 G N L D P C A L Y A S K E K I G R V V E Q M L A A F G G H I A N L G G H G G I L Y P D M
UniRef90_F7BVV4 G N L D P C A L Y A S K E K I G R V V E Q M L A A F G G H I A N L G G H G G I L Y P D M
UniRef90_E4TG75 M D P V I L Y A T N R E K I M N L A K L V A D K A F G G H I A N L G G H G G I L P N T
UniRef90_I0K515 L D P P C V L Y A E P A Q I R A E V A Q M L A A F G G H I A N L G G H G G I L Y P D T
UniRef90_B5E7R1 L D P T V L F A P N E T I R E R A V K R V L D R P G G L I F N L G G H G G I L P T V
UniRef90_H3KBB2 L D P F V L Y G S D E E T I R R E A R R V L D A D A G G H I F N L G G H G G I L N Q F T
UniRef90_V2UDR4 L D P A I L Y G S P E K S I R A V H A M L D D A G G H I A N L G G H G G I L N Q W V
UniRef90_W9DPB3 L D P V N M L W N Q T P E T I R E Q S Q K V L D A G V G L L A P G G I L V S K T T
UniRef90_L0DA46 N L D P T L L E A S T P E I Q R Q T R R I L D Q G G H I F N L G G H G G I L P T T
UniRef90_D7DP85 L D P A I L L S T P E A I R K Q V E N V L D R G H G H I F N L G G H G G I L T Q W T
UniRef90_D0MR48 G N M D S S V I Y A S T D I Y D E V K K M L K R F G G Y V A N L G G H G G I L C F P D M
UniRef90_UPI0004716301 L D P N V L Y G S A E T I R Q E V A R T L E G G G H I F N L G G H G G I L T P Q Y T
UniRef90_UPI0003726A8D G N L D P S L L L A P W E V I R E R V K A L D D Q G G H I F N L G G H G G I L F S P E V
UniRef90_C6WZF7 F D P S R L Y S S P E T I T R M V H E M I N R F G G Y I V N L G G H G G I L P N I
UniRef90_D5MMI4 N L D D P V A L Y A E S D K I V R Q Q A D R L E R P G H I F N L G G H G G I L P Q T
UniRef90_UPI00047E021D G N L D P C A L Y A S F A E V R E K M T R Q M L J E F G G H I A N L G G H G G I L Y P D T T
UniRef90_W0P812 I D P M A L F G T E S A I R H E V R R V I D D G G H I F N L G G H G G I L S Q F T T
UniRef90_I6WXR8 L D P M A L F S D E K S V R A Q A R N V I D D G G G W I F N L G G H G G I L S Q F T
UniRef90_V2XLN1 M D P N V L Y A G K P A I E S A V K R M C E D G G G W I A N L G G H G G I L T P G V
UniRef90_J9Z998 N L D P V S L L G T P A I L R E E T R R I L E D P G Y V F N L G G H G G I L P S T
UniRef90_A0A026WC69 G N M D P C A M Y S R Q E D I V D R A R K M V S N S F G G Y I A N L G G H G G I L L Q D T T
UniRef90_E0WUT6 G N M D P H L L C A Q P E R I R Q E V S S L E G G G H I F N L G G H G G I L L Q D T T
UniRef90_UPI000361ED6D F D P F A L F G T P E L I R S E V A R L A G S G H V F N L G G H G G I L N Q D F T
UniRef90_Q2S1W0 L D P C A L Y A E Q D V L R A K E V H M L A G F G H I G N L G G H G G I L M L P Q T H
UniRef90_UPI00035F043B E P L L L Q A P W E E L Q R Q A K A V E E A A G R A G H I F N L G G H G G I L P Q T
UniRef90_UPI000455E697 G N L D P T V L Y G G R D A I E R E V R R M L A G G G W I A N L G G H G G I L T P G V
UniRef90_UPI00036FFFB0 G N L D P N V L F A P P E K V A A E A R A V L D A S F G H I F N L G G H G G I L S Q F T
UniRef90_E8T2H7 G N L D P V A L Y A D E K T I T E K V E K L L K A R G H I F N L G G H G G I L P P T
UniRef90_T1P8S8 L D P Q D L Y K T P E E I R E L A T T M V R K F G Y I A N L G G H G G I L P Q T
UniRef90_M5RNH7 M D P S V L L A D P D A I R E T V D Q L L Q R P G H I F N L G G H G G I L S K E T
UniRef90_D2UEQ8 L D P A V L Y G A P E A I R E T V Q R V L H S R G H I F N L G G H G G I L S P D M
UniRef90_UPI0004281F47 G N L D P A I L L A P W D E I E K R A R E V L D Q G G F I F N L G G H G G I L F P E I
UniRef90_D3RZH7 I D P Y G T L V L G T P E D I R N A V K K A I V G G V S S V W P G G I L W P A V
UniRef90_A0P534 L D P A I L L S E P E A I R S A V R N V L D S Y G H I F N L G G H G G I L Q F T
UniRef90_A7H9E0 S T V L L G P K E V I A V I E R A L S I V R A A G R E P G Y I F N L G G H G G I L Q P G T
UniRef90_J41L1 L D P N L Y G G R D A I E R E V K R M F R G G G W I A N L G G H G G I L T S P G V
UniRef90_E5AKK4 L D P N V L F A P P E V I R A Q A R Q V L D A P G H I F N L G G H G G I L S Q F T
UniRef90_V4JF81 L D P A A L L P E P Q L R T R L E A L D A E Q A T G H I F N L G G H G G I V N H F T
UniRef90_S2XFU8 G N L D P S L L L A D W S V I E E R A K E I I D Q A G H I F N L G G H G G I V N F P E V
UniRef90_V4YCE1 G N L D P A L L Y G D P D T V R E R T R A I D A A G H I L N L G G H G G I L F D R N T
UniRef90_UPI0003B4F559 G N M D P A L L F A D K A T I T K Y A E K I L A E G G H I F N L G G H G G I L M P K T T
UniRef90_G8N8U8 G N L D P A V L F A P K E V I R R E V R R I L D R P G H I F N L G G H G G I L P K T
UniRef90_UPI000477611D L D P G V L M G S A Q H V A A E T R R V L D G P G H V F N L G G H G G I L S Q H A
UniRef90_Q6ANR5 P F A L L L P K D K L R K R I G T L E D A K E V K G H I F N L G G H G G I L H Q F T
UniRef90_R4I0H6 M D P S I L Y A T P K R I G Q E V E S L A G F G G H V F N L G G H G G I L H H D A
UniRef90_E6PUM4 G N L D P N I L F A P P Q Q I A A Q A R A V L D S F G H V F N L G G H G G I L S Q F T
UniRef90_Q220I2 G N M D P N V L F A S P A Q I A A E A T R V L D S F G H I F N L G G H G G I L S Q F T
UniRef90_Q8XU90 G N L D P T V L F A E P D A I R A Q V R R V L D D G G H I F N L G G H G G I L S Q F T
UniRef90_A2SC07 L D P N V L F A D P E Q I R A E V A R T L D G S G H V F N L G G H G G I L S Q H T
UniRef90_UPI00047D1B22 L D P Y V L T A P M D V I R E H A R R L L D E G G Y V F N L G G H G G I L F P E A
UniRef90_N6UF06 L D P S A V L Y A S K A D L E N Y I K T M L E N Y P G R Y I A N L G G H G G I L Y P D A
UniRef90_K2BP13 L D P A V L Y A S A D I L R E I K N N L E N Y P G H I F N L G G H G G I L P A D A
UniRef90_E8SJK7 G N L D P S I L L A P W E V I E A R L K P T L D Q G R H I F N L G G H G G I L F P E V
UniRef90_B8G821 N L D P M T L F A P P E L I A S R A R E L Q R P G H I F N L G G H G G I L T E T
UniRef90_X1XUX4 L D P Q D M Y K S S E E L R E L V L T M V R K F G Y I A N L G G H G G I L P Q T
UniRef90_D5EB72 V S T S V T I Y N K T A E E V K A E A L K C L E A G V D I L A P G G I A P Q S T
UniRef90_Q00XQ9 N M D P V H L E A S Q D F I T K K V H E T I E K A G Y I M N L G G H G G I L M V G T
UniRef90_Q5L284 G N L D P A V L L A P W D V I E E R V K R L D E G G Y I F N L G G H G G I L D D V
UniRef90_A0A024GEL0 G N L D P C A I Y A S P E T I Q S N V R E M L E A F G Y V A N L G G H G G I L C F P D M
UniRef90_F2SUF4 G N A D P G C L Y G A R E S I T A V A E E M V K G F G W I A N L G G H G G I L P F V
UniRef90_V2QIU7 G N L D P A I L Y S N K A S I K K Y A E T A I N E G G H I F N L G G H G G I L M P A T
UniRef90_UPI000379F129 L D P F L L T A P Q E M I H K R A A E T I D E G G F I F N L G G H G G I L F P E A
UniRef90_C7Q1S4 L D P S V M F A P W V I E T R V R E V L D E G G H I F N L G G H G G I L P D M
UniRef90_UPI00044498ED G N M D P C A M Y F S Q D E I I D R A Q K M V S N F G Y I A N L G G H G G I L P D T
UniRef90_UPI0002FD9DA3 G N L D P S I L L A D W S V I E R R T K D I L D Q G G H I F N L G G H G G I L F P E V
UniRef90_A8FBM5 G N L D P T I L L S P W E V I E E R A K D L D D Q G H F I F N L G G H G G I L P D V
UniRef90_I4C598 V D A A T T L F M K S P D V V K D A S R E Q V D M G L D V L A P G G I A I P G T A
UniRef90_D5XDX7 L D A Y N V L V N G T P E D V R N A T V K C L E D G V D A V W P G G I L W P P A
UniRef90_F9DQC7 P S M L L A D W S I I E R A K R I V E E G V E H D S H I F N L G G H G G I L F P E V
UniRef90_Q8TK12 V S P S R T L L F G T P E A V K A E A K Q C L S D G V D I L A P G G I A P R T
UniRef90_UPI00037353B0 G N L D P A T L Y G S P D S I R Q A V K L M L D D A G Y I A N L G G H G G I L Q W V
UniRef90_S2K5W9 G N M D P T A L Y G G F D A I R E I A T K M V H A F G H I A N L G G H G G I L P T V
UniRef90_K9H3P6 L D P T L L I A G Q A M L D R D R T L D V L G K G P F I F N L G G H G G I L P E T
UniRef90_Q54DF9 G N L D P C V L Y C G D Q V I R D Q T Q K M L Q S F G L I A N L G G H G G I L H P T H
UniRef90_E4U7Q9 P T L F A P E P V L A R G V E A V L S A N A G R P G H I F N L G G H G G I L P G T
UniRef90_G4VSS2 G N L D P C A L Y S N E N Q I S S L V K E M I N D F G Y I V N L G G H G G I L Y P D V

UniRef90_UPI00047C1F38 D P E H V R V L V E A V H E V G A
UniRef90_F0TMI9 P V E N A E A F V R A V V D W
UniRef90_C4K9E7 P P E S V S V L V D T V H A H S
UniRef90_Q2NWR2 P P A H A G H F V A A V H R L S
UniRef90_L0ECM7 S L D K I A A L T K F I H R Y S A
UniRef90_C1F1C6 P V E H V Q A V V K F V R E Y S
UniRef90_UPI000370E695 P P E N A I H M V E C V H R L S
UniRef90_F0SN03 K P E N V K A L V E I V H E
UniRef90_A3YC88 D P E Q P K Y L I D A V H E L G A
UniRef90_W4LVM2 P M D H V I A L V E D V H E L S A
UniRef90_UPI00029A9573 P P E H V K A L V Q M V H E
UniRef90_K1KJB6 P I E N V Q I L V D E V H E Y S
UniRef90_G4TED5 D P D D L K W F F E C V H K Y S A
UniRef90_A7SJK0 D P D K L K T F I D T V H S Y S
UniRef90_M9LCQ5 S L D K L Q R L T E F V H E Y S S
UniRef90_R4G8F1 D P E N V K T F L K E V H H Y S
UniRef90_F7BVV4 D P A H V E A F V E A V H R H S
UniRef90_E4TG75 P V E N V K Y L V E L I K
UniRef90_I0K515 N P D H V R V F I D A V K
UniRef90_B5E7R1 P P E K A I F M V D C V H R L S
UniRef90_H3KBB2 P V E N V R I L V D E V H E Y S
UniRef90_V2UDR4 N P D H A K V F V D T V H E Y S A
UniRef90_W9DPB3 P T E N L R A M V E M A H K Y
UniRef90_L0DA46 P V D H V I A L V E E V H S Y
UniRef90_D7DP85 P P E N A A A M L E A V R K H S
UniRef90_D0MR48 E P A H V D A F I K A V Q Q I S
UniRef90_UPI0004716301 P V D N V N V M L N A L H E L S
UniRef90_UPI0003726A8D S P D T L K R L T S F I H E Y S A
UniRef90_C6WZF7 P L E N A E A F I R A V V D W
UniRef90_D5MMI4 P V D H L R V L I D Y V H E A T A
UniRef90_UPI00047E021D E W E K V K C F I D T V K G F
UniRef90_W0P812 P P Q N V S I L V D E V H S Y S S
UniRef90_I6WXR8 N P D I V E A L V D E V H N Y S
UniRef90_V2XLN1 D P E D V R W F F E C V H K Y S A
UniRef90_J9Z998 P V S M A K Y L V S L V Q K
UniRef90_A0A026WC69 P I A S M E A F I K G V H H S F S
UniRef90_E0WUT6 P P E N V D V F V N T V H S F S
UniRef90_UPI000361ED6D H P E H A K I L I D S V H Q L S
UniRef90_Q2S1W0 D P E H A R V F V D A V H E F S
UniRef90_UPI00035F043B P P D N V A R L A D F V H E F S A
UniRef90_UPI000455E697 D P E D M R W F L Q C V Q K Y S A
UniRef90_UPI00036FFF0 P P E H V T A L V E A V H S H S
UniRef90_E8T2H7 D P A K A R F L V E T V H K L S
UniRef90_T1P8S8 P I V S M E V F V D A V H K
UniRef90_M5RNH7 P V E N V I A L V E T V K E L S
UniRef90_D2UEQ8 Q P E H V G A L I A A V Q R H S
UniRef90_UPI0004281F47 K P E T L K R L T R F A H E Y S
UniRef90_D3RZH7 S K E N M L T F V E A V K E F
UniRef90_A0P534 P P E N V E C M L D E V R S Y S
UniRef90_A7H9E0 P T E T V K A V V D A V H A F
UniRef90_J41L1 D P E D L R W F F E C V H K Y S S
UniRef90_E5AKK4 P V Q A V T E L V D E V H Q Y S
UniRef90_V4JF81 P P E K A K L V V D L V H Q L S A
UniRef90_S2XFU8 N P D T L K R L T S F V H E Y S
UniRef90_V4YCE1 P V E N V A A F F E T V K E T A A
UniRef90_UPI0003B4F559 P V E N V K H L V D L V K
UniRef90_G8N8U8 P V E H V R Y V V E L L Q E E A A
UniRef90_UPI000477611D P H D N V R V L V E T V H A Y S
UniRef90_Q6ANR5 P P E Q A R I A V D A V H E L S
UniRef90_R4I0H6 S L V N T G A L I E A V H N Q S
UniRef90_E6PUM4 P P E H V S A L V E A V H S H S
UniRef90_Q220I2 P P E H V A A L V Q A V H E H S
UniRef90_Q8XU90 P P E S V A V L V D E V H T F S
UniRef90_A2SC07 P P D S V S V L V D A V H S Y S
UniRef90_UPI00047D1B22 S L D K L R E L T E F V H A Y S
UniRef90_N6UF06 P I D S V Q T F V D T V H N F
UniRef90_K2BPI3 P L E N V S V V I E A V H R Y
UniRef90_E8SJN7 K P E T L K H V A Q F V H D Y
UniRef90_B8G821 P V E H V R Y L V E F V Q S Y
UniRef90_X1XUX4 P I E S M N V L V Q A V H D
UniRef90_D5EB72 P L K N M Q A L A Q T R N E F
UniRef90_Q00XQ9 P E E N V A H F F Q T V R D Y
UniRef90_Q5L284 Q P A T L K R L T A F I H E Y T S
UniRef90_A0A024GEL0 A P S H L D T F V K A V Q E I S
UniRef90_F2SUF4 K P D D L K F Y F E E I H R L T A
UniRef90_V2QIU7 P V E N V K Y L I D V V K
UniRef90_UPI000379F129 S L D K L R I L T E F V H E Y S
UniRef90_C7Q1S4 D P D R L A R V V E L V H E A S A
UniRef90_F4W6N5 P I S S M E A F I K G V H H S F S
UniRef90_UPI00044498ED D P E D M K W F M Q C V H K Y S A
UniRef90_UPI0002FD9DA3 N P E V L K R L T A L I H D Y S
UniRef90_A8FBM5 S P D T L K K L T D F I H D Y S A
UniRef90_I4C598 P T A N L L A M V Q V A E E Y
UniRef90_D5XDX7 P V Q N L K T M V D T V K E L G A
UniRef90_F9DQC7 Q P A T L K R L T A F V H E Y S A
UniRef90_Q8TK12 P L A N I R A L V E A R N E W Y G
UniRef90_UPI00037353B0 D P D N A K V F V D A V H S Y
UniRef90_S2K5W9 D P E A L K V Y L E T V Q T V S A
UniRef90_K9H3P6 P P E N V A M M V E H I R K
UniRef90_Q54DF9 P I E G P E S Y V K A V H E L S
UniRef90_E4U7Q9 P P D A V R R A V E L V H S L S
UniRef90_G4VSS2 D P D K V N K F V D L V H H L S S

UniRef90_UPI00042A99A9 1 K N D T F L 10 K A A W G E E T D Y T P V W C M R Q A G R Y E F R E T R S T D 40
UniRef90_S3XDB8 K N D T F L V D A C L K K E T V P Y T P V W M M R Q A G R Y E Y R A V R K K G G
UniRef90_R9C7E7 K R D T F L K A A K G Q Q T D Y V L P V W Y M R Q A G R Y P E Y R A L K K Y S Y
UniRef90_D5XDY4 E M T S R E R F M A A L N G Q P V D R L P V I S V C H A T R Y E D Q M E Q L K N S Y
UniRef90_J9HVD0 N E R F L Q A C R R Q R T D V T P V W F M R Q A G R Y D Y R K T R R H S
UniRef90_C7N394 T A K E R L L A T A D G K E T D R P P C I C M M N M V T V G L Q D E I G V F
UniRef90_M0LG28 M K D L F R K A L R G E P T E R P P V W M M R Q A G R Y E Y R E L R D Y S
UniRef90_L0KX26 T P K E R L A R A L T G K P V D R M P A I S V T Q T G T V E Q M E A V G A F
UniRef90_UPI0003FDF9A M T P A K P F L R A L A G E T L A R P P V W L M R Q A G R Y E R A A R A R A G S
UniRef90_N1J9C1 N D L L L R T A W G E K T V E R P P I W V M R Q A G R Y E Y H E A K A G R D
UniRef90_C8PUE6 M L K N D R I L R A M R F E S V D V T P V W M M R Q A G R Y K Q T R A Q A G D
UniRef90_F7XMG9 M D L K Q R L F T V L N S G K P D I V P V V S V T Q T A T V Y E Q M Q M T D S F
UniRef90_J8QEE6 K N D T F L K A C L K G E K H D R V P V W Y M R Q A G R Y P E Y R K I K E H S
UniRef90_F7HR87 K N D T F L R A A W G E E T D Y T P V W C M R Q A G R Y E F R E T R A A D
UniRef90_M2XBG7 L L L R A A K G L P V E R P P V W M M R Q A G R Y E Y Q E L A K K H P S
UniRef90_Q8CW15 N D S Y L R S A L R K S V K R T P I W I M R Q A G R Y E Y Q S I K K K D
UniRef90_R71832 M T E N D N L L K A L Q K E P V P Y T P I W L M R Q A G R Y R A T R E K A G S
UniRef90_E8TTN3 N D T F L R A C L R Q A T D Y T P L W L M R Q A G R Y K A T R A R A G S
UniRef90_K2GMR4 M T N N D T I L K A F R G E P T E H T P V W Y M R Q A G R Y P E Y R K L K K Y G
UniRef90_M1LTC8 M L K N D I L L R S L L R E H V E Y T P L W L M R Q A G R Y E Y R K I R A G S
UniRef90_H6C835 K N D R L L R A A R G E Q V D R P P M W V M R Q A G R Y E Y H E A K A G H D
UniRef90_A0A017HK21 M T R K T I L R A L A G E A L P T P P I W M M R Q A G R Y R A T R E R A G S
UniRef90_D5XB31 Q M T S K Q R V L G L L K G E T V D R P A C Y S G T G T V W G A A L K H Y G Y N
UniRef90_F5LJQ4 M I N N D R F I R A C R K Q E V I D R L P V W Y M R Q A G R Y E Y R K I K K Y S
UniRef90_K9SK53 M G N D L L I R A A R G E V I E R P P V W M M R Q A G R Y R E L R Q K H P N
UniRef90_M3CIR8 K N D L L L R A A R G E K V E R P P I W V M R Q A G R Y E Y H R E K G T D
UniRef90_D6W7F3 K N D R L L R A A R G E V P D K Y P V W Y M R Q A G R Y E Y F M F R K K Y S
UniRef90_N0AMN8 N E T F L K A A R G E K T D Y L P V W Y M R Q A G R Y P E Y R K I K K Y S
UniRef90_V9IDZ3 K N D L T L K T I R G E P T E R I P I W I M R Q A G R Y E Y F Q E I R K Y D
UniRef90_R7UAN9 N D L L L R A A R G E G T E R S P V W L M R Q A G R Y E Y M D V R K K H
UniRef90_UPI00036D3412 M I T N D R F L R A C L K Q E V D Q L P V W Y M R Q A G R Y D P D Y R K K Y S
UniRef90_I4F0Z8 L V R A A R G L P V D R T P V W F M R Q A G R P E Y R A L R A G T
UniRef90_A4BPL5 M W I M R Q A G R Y E Y R Q V R A G S
UniRef90_R8BME9 N D L L L R A A W G E E L E R P P C W V M R Q A G R Y E Y H E A K A G R D
UniRef90_E6R1J3 K N D L L L R A A S G E E T P R A P P V W V M R Q A G R Y E F L E V R K H S
UniRef90_K2L8K3 P N K T F L R A L A G E T L P D P P I W L M R Q A G R Y E Y R A T R A G S
UniRef90_A6CB18 N S R F M K A V A R R E T V D T T P I W L M R Q A G R Y E Y M E V R K V T
UniRef90_W9GIV6 L V R A A R R E P V S R T P V W F M R Q A G R P E Y R A L R G T T
UniRef90_A0A016P9G0 K N D L L L R T A W G Q T V E R P P M W V M R Q A G R Y E Y H E A K G R D
UniRef90_UPI000360A20A M T Y N D T F I R A C Y R R E Q V D H I P V W Y M R Q A G R Y E Y R K I K K Y S
UniRef90_W2EL51 F V R A C R R E P V P H T P V W Y M R Q A G R P E Y R R A R G V E
UniRef90_UPI0004723075 N D S L L K A A R R E V T N R Y T P V W Y M R Q A G R P E Y R K L K K Y S
UniRef90_S2ZQ86 F L K A C R R E P V P Y T P V W F M R Q A G R P E Y R K V R G V P
UniRef90_G3ALW2 K N D L L L R A A K G E K V E R P P L W L M R Q A G R Y E Y H E V K G K D
UniRef90_Q8PUA8 E M T P T R R A L A A V L G G R V D Y X P P A N P L A Q T T T E L M A I C N A S
UniRef90_UPI0003755F17 N D L L L R V A Q G A E V E X P P V W L M R Q A G R P E Y R A L R A K G
UniRef90_B9L212 N S P L L R A C R R K T V D M T P V W L M R Q A G R Y E Y R A L R R Y S
UniRef90_G4W926 K N T N V I N A L K G E S V E A R V P V W M M R Q A G R Y E Y R A V R A G S
UniRef90_UPI00038257CA L L E T L K G N P S D R V P F W F M R Q A G R Y E Y R E V R A P S
UniRef90_Q2RGP5 M T P K E R F L R A L N R E H V D R I P V G N P V S V A T V E S M E A C G A Y
UniRef90_B2WCU5 K N D L L L R T A R G E K V E R P P I W V M R Q A G R Y E Y H E A K G K D
UniRef90_K0AZE6 E M T P K E R M E A Y F K G E V D R L P C N L M F E E T A A V Y A G I S
UniRef90_P42503 M T D K T I L R A L K G E V L P T P P V W L M R Q A G R Y R A T R A Q A G D
UniRef90_L8FW06 N D L L L R A A R G E E V E R A P A W V M R Q A G R Y E Y H F V K G G D
UniRef90_W7UA58 D I L L R V A R G E Q T H R T P V W L M R Q A G R Y M A F V K K Y P
UniRef90_C1MGR1 T K D P L M L R A I R G E D V E R P P I W M M R Q A G R Y Q E L C K K H P T
UniRef90_Q8TSL7 E F T L N K R F E K A L K G E P T D L T P V C S V T Q T G T V E L M E M T G A Y
UniRef90_B4W1N7 L L R A A R G G K L E R P P V W M M R Q A G R Y M Y R D L R D K S
UniRef90_D9SZQ0 F V R A C R R E P G P H T P V W F M R Q A G R P E Y R E I R A V P
UniRef90_H8G316 F L V A A R G G T P A H V P V W F M R Q A G R P E Y R R L R G V P
UniRef90_UPI00047457D0 F L R A C R R E P V H T P V W F M R Q A G R P E Y R K L R G I A
UniRef90_W4DXZ3 M T Y N D T F I R A C R Q Q N T E Y T P V W Y M R Q A G R Y D Y R T I K K Y S
UniRef90_S4NU11 K N D R L L K A A C G K E V D K T P V W V M R Q A G R Y E Y Q A V R A H D
UniRef90_UPI0004652983 F L L A C R R R P V H T P V W F M R Q A G R P E Y L R V R G V P
UniRef90_UPI00037E0189 N D T F L R A L L R Q P T E F T P L W L M R Q A G R Y N A T R S R A G S
UniRef90_B7RJR6 P T K T I L R A L A G E T L A T P P I W M M R Q A G R Y K A T R A E A G D
UniRef90_M5G6W6 K N D L L L R A A R G E T E R A P V W V M R Q A G R Y E F R K V R K H A
UniRef90_T0E369 Q M T P K E R M E A F A K G E P M D R I L C S P F L A E S V S P I F G H T
UniRef90_A9FZW7 D R F L R A C R R E P T D V T P V W F M R Q A G R Y E Y R E L R K Y T
UniRef90_UPI0004750CAF F L R A C R R E S V P H T P V W F M R Q A G R P E Y R A L R A G T
UniRef90_B1ZV06 M N S R E R F L A A C A C Q L D R P P L W L M R Q A G R Y E Y R A L K A R S
UniRef90_K9AH10 K N T T L D T I K G K E T S H T P V W F M R Q A G R Y E Y R K L K K Y S
UniRef90_A8FMU8 F I D A C F K K P T Y T P I W M M R Q A G R Y E Y M E V R K G D
UniRef90_R9GLD3 M S N K Q L F I K A A F S L P T E R P P I W F M R Q A G R F E Y W E I K K Y S
UniRef90_C7NV72 E L L V R A A R G E R T E R P P V W L M R Q A G R H E Y R E L R E Y D
UniRef90_K9YRV0 L L K V A R G E S V S R P P V W M M R Q A G R Y E Y R D L R D K S
UniRef90_C7DFQ7 M T I Q K T V L R A L S G E A L P V P P I W M M R Q A G R Y K A T R A Q A G D
UniRef90_F4XK12 L L R A A R G E V L D R P P V W L M R Q A G R Y M Y R D L R D K S
UniRef90_M1VB11 L L V R A I R H E Q V E R P P I W L M R Q A G R H R E L C K R H P S
UniRef90_UPI0003775D9E F L R A C R R E P V P H T P V W F M R Q A G R P E Y R K L R G T A
UniRef90_C6WBD4 E M T E M T P L L V A A R G G T P S R T P V W F M R Q A G R P E Y R A L R A G T
UniRef90_D5V0S0 F V D A C F R K P T P Y T P V W M M R Q A G R Y E Y M K V R A G N
UniRef90_Q5YTA5 F L A A A T G A T P S R R P V W F M R Q A G R P E Y R E L R G I G
UniRef90_UPI00039B8123 T A A S P F I L A C R R R P V P H T P V W F M R Q A G R P E Y L K V R G I P
UniRef90_UPI000477C447 M L F N D T F L R A C R K E R V E H V P V W Y M R Q A G R Y E Y R K I R K Y S
UniRef90_UPI000380442A N D T I L K A A R G E K T E Y T P V W F M R Q V I G R P E Y N K V K K Y S
UniRef90_I4C816 M T L K E R F M R A L T G K E V D V T P V G C T A Y P V V E F M S R C G Y A
UniRef90_K9X9L7 L L R A A Y G E T L D R P P V W M M R Q A G R Y R E L R E K Y P S
UniRef90_A6DBT3 F I D A C F G R E T P Y T P V W M M R Q A G R Y E Y M E V R K G N
UniRef90_R9TBQ7 M T P K E R F L G A L A R K E M D R P A V G C V T Q S V T V D Q M D W A G V E
UniRef90_K1R4Q6 K N D L L L R A A R G E K T E R T P V W L M R Q A G R Y E F M S K H S A S
UniRef90_C5CLI6 N D T F L R A C W R Q A T D H T P V W L M R Q A G R Y V A T R A R A S

UniRef90_UPI00042A99A9 F F S T C R S P E A C C E L T L Q P L V D I V G V D D A A I I F S D I L V V P Q A L
UniRef90_S3XDB8 F F S L C K N P E K A C C E L T L Q P L V D I V G V D D A A I I F S D I L V V P Q A L
UniRef90_R9C7E7 W F E L T H Q N P E L C A Y R V T L Q P L V D I V G V D D A A I I F S D I L V V P Q A L
UniRef90_D5XD4 W P D A M Y N A E L M A R L V A G G A Y N I L G V F D D A A I I F S D I L V V P Q A L
UniRef90_J9HVD0 L L D I C A E P E L C A E L V T M M P V R K L G V D D A A I I F S D I L V V P Q A L
UniRef90_C7N394 F P E A H Y S D P E K M A A L A K A V Y D R G F F D A A I I F S D I L V V P Q A L
UniRef90_M0LG28 F L E A I S T P E V A A E L T L Q P L V D I V G V D D A A I I F S D I L V V P Q A L
UniRef90_L0KX26 W P E A N D N A E V A M A K L A E A G H T I I G F F D A A I I F S D I L V V P Q A L
UniRef90_UPI0003FDF9A F L D L C C Y N P E L A A E L T L Q P L V D I V G V D D A A I I F S D I L V V P Q A L
UniRef90_N1J9C1 F F E C C R S P E L A A E L T L Q P L V D I V G V D D A A I I F S D I L V V P Q A L
UniRef90_C8PUE6 F L S L C K N T P D L A A E L T L Q P L V D I V G V D D A A I I F S D I L V V P Q A L
UniRef90_F7XMG9 W P E S H I N P E L M A S V L A L A G H T I A G F F D A A I I F S D I L V V P Q A L
UniRef90_J8QEE6 L F E I T H D P E L C A Y V T L Q P L V D I V G V D D A A I I F S D I L V V P Q A L
UniRef90_F7HR87 F F S T C R S P E A C C E L T L Q P L V D I V G V D D A A I I F S D I L V V P Q A L
UniRef90_M2XBG7 F R E R S E N T P E L A L E L T L Q P L V D I V G V D D A A I I F S D I L V V P Q A L
UniRef90_Q8CW15 F L S L C K N T P D L A A E L T L Q P L V D I V G V D D A A I I F S D I L V V P Q A L
UniRef90_R71832 F L N L A H S P E Y A T E V T L Q P L V D I V G V D D A A I I F S D I L V V P Q A L
UniRef90_E8TTN3 F M G L A T N Q V D Y A T E V T L Q P L V D I V G V D D A A I I F S D I L V V P Q A L
UniRef90_K2GMR4 L F E I T H Q P E L C A Y V T R L Q P L V D I V G V D D A A I I F S D I L V V P Q A L
UniRef90_M1LTC8 F M S L L T N P D Y A C E V T L Q P L V D I V G V D D A A I I F S D I L V V P Q A L
UniRef90_H6C835 F F E C C R S P E L A A E L T L Q P L V D I V G V D D A A I I F S D I L V V P Q A L
UniRef90_A0A017HK21 F L D L C C Y N P D L A A E V T L Q P L V D I V G V D D A A I I F S D I L V V P Q A L
UniRef90_D5XB31 F A D A H H D P E K M A R L A T F P F E A A G F F E C A L M P F D I C V E A E L L
UniRef90_F5LJQ4 L L E L C E N Q P E L A A E V T L M P V K K L G V D D A A I I F S D I M N P V A
UniRef90_K9SK53 F R D R S E N P D L A A E I T S L Q P L V R H A F K P D D G V I M F S D I L T P L P G I
UniRef90_M3CIR8 F F E C C R S P E L A S N L T L Q P L V D I V G V D D A A I I F S D I L V V P Q A M
UniRef90_D6W7F3 F F E I T H Q P E L A C E V T L M P V I K R Y N V D D A A I I F S D I L V V P Q A L
UniRef90_N0AMN8 L F E I T H Q P E L C A Y V T K L Q P L V D I V G V D D A A I I F S D I M T P L P A I
UniRef90_V9IDZ3 F F S L C Q T P T L A C E V T L Q P L V D I V G V D D A A I I F S D I L V V P Q A M
UniRef90_R7UAN9 F T E K C K N Q P E L A C E L T L Q P L V R F N L G V D D A A I I F S D I L V V P E V L
UniRef90_UPI00036D3412 L L E I C C K Q P E L A A E V T L M P V I H K L G V D D A A I I F S D I M N P V A
UniRef90_I4F0Z8 M L Q A C C Q D P D L V T E I T L Q P L V R R H G V D D A A I I F S D I V L P L V V A
UniRef90_A4BPL5 F M T L C C R N P D L A C K V T L Q P L V E R F A L D D A A I I F S D I L V V P D A M
UniRef90_R8BME9 F F E C C C R D P E V A S T L T L Q P L V E R F A L D D A A I I F S D I L V V P Q A M
UniRef90_E6R1J3 F F E C C C Q T P S L A S T L T L Q P L V D R Y P L D D A S I I F C D I L V V P Q A L
UniRef90_K2L8K3 F L D L C C Y N P D L A A E V T L T A Q R V L G V D D A A I I F S D I L V V P L E P M
UniRef90_A6CB18 F I E L C C K T P A L A A E V T L T A Q R V L G V D D A A I I F S D I L V V P L K A V
UniRef90_W9GIV6 M L E A C C T R P D L V A E I T L Q P V R R H G V D D A A I I F S D I V V P L K A V
UniRef90_A0A016P9G0 F F E C C C R D P E V A T E I T L Q P V R R F A L D D A A I I F S D I L V V P Q A M
UniRef90_UPI00036A20A L L E I C C K Q P E L A A E V T L M P V R K L G V D D A A I I F S D I M N P V A
UniRef90_W2EL51 M L T A C A T P D L V V I E I T M Q P V R R Y G V D D A A I I F S D I V V P L K A I
UniRef90_UPI0004723075 L F E I T H Q P E L C A Y V T R L Q P V E N Y D V D D A A I I F S D I M T P L P S I
UniRef90_S2ZQ86 M L E A L R R P E L I A E I T L Q P V R R H G V D D A A I I F S D I V V P L K A V
UniRef90_G3ALW2 F F E T C R D P E L A S E I T L Q P L D H F D I D A A I I F S D I L V V P Q A M
UniRef90_Q8PUA8 W P K A H F D S K M M A D L A A A S Y E V C G I E A A R P Q F D I S L I E A E V L
UniRef90_UPI0003755F17 F K E L V E T P A L A A E V T L Q P V D I L G V D D A A I I F S D I L V V P E A M
UniRef90_B9L212 L L E L C C R Q P E L A A E V T L Q P L V R R Y P L D D A A I I F S D I L V V P L A L
UniRef90_G4W926 F L K V C C Q D P G L A S E V T V Q P R R R Y P L D D A C I I F S D I L V V P Q A M
UniRef90_UPI00038257CA F M D F C Y S P D K A T E V T L Q P L R R F G M D G A I I F S D I L V V P D G L
UniRef90_Q2RGP5 F P D V H L N P E K M A T L A A T G Y E I L L G F D T I A P Y F S V Q Q E A A A F
UniRef90_B2WCU5 F F E C C R S P D L A S T L T L Q P L I E R Y A L D A A I I F S D I L V V P Q A M
UniRef90_K0AZE6 T K E Y Y F D A D K M L E A E K F I V R E L G A E S A G I N V T L R G M G E A L
UniRef90_P42503 F L S L C Y T P D L A A E V T L Q P I R R Y G F D A A I I F S D I L L L P Q A L
UniRef90_L8FW06 F F E C C R S P D L A S T L T L Q P L I E A F A L D A A I I F S D I L V I P Q A M
UniRef90_W7UA58 F R Q R S E T P S M A I E L S M Q P L E A F G V D G V I M F S D I L T P L P A L
UniRef90_C1MGR1 F R E R S E K V D L A V I E S L Q P W E A F Q P D G V I L F S D I L T P L S G M
UniRef90_Q8TSL7 W P Q A N Y D A L K M A D L A S L A G Y K L A G F E N V R C P F C T T V L A E T L
UniRef90_B4W1N7 F R E R S E I P E I A I E I S L Q P W K A F R P D G V I L F S D I L V V P L P G V
UniRef90_D9SZQ0 M L I E S C R R P D L V T E I T L Q P V R R H G V D D A A I I F S D I L V V P V A A
UniRef90_H8G316 M L Q A C C F D P E M L A E I T L Q P V R R H G V D D A A I I F S D I V V P L K A A
UniRef90_UPI00047457D0 M L D S C C M R P D L V A E I T L Q P V R R H K V D D A A I I F S D I V V P L K A I
UniRef90_W4DXZ3 L L I E T C C R Q P E L A A E V T L M P V R K L G V D D A A I I F S D I M N P V A
UniRef90_S4NU11 F F T V C C R T P E L A C E V T L Q P L R R Y E H D A S I I F S D I L V I P Q A L
UniRef90_UPI0004652983 M L I E S C C T R P D M L V I E I T M Q P V L R R Y A V D A A I I F S D I M V P L K A I
UniRef90_UPI00037E0189 F L G L A T S P D L A T E V T L Q P L E R R W D L D A A I I F S D I L T V P D A M
UniRef90_B7RJR6 F L S L C C Y N P D L A T E V T L Q P L I R R Y G F D A A I I F S D I L L V P Q A L
UniRef90_M5G6W6 F F D L C Q T P A L A T E I T L Q P L I R R Y A L D A A I I F S D I L V I P Q A M
UniRef90_T0E369 I H E Y N H S V D A L V D V A V G S F K L F R P D S I I G F G P G L Q G G I P E A M
UniRef90_A9FZW7 L L E I C C K T P E L A L E V T L Q P L R L G M D A A I I F S D I L L P L K A P M
UniRef90_UPI0004750CAF M L I E A C A R P D M V T E I T L Q P V R R H H V D D A A I I F S D I V V P L K A I
UniRef90_B1ZV06 F L I E M V R T P S L A A E V T L Q P L H R F A L D D A A I I F S D I L V I P E A L
UniRef90_K9AH10 L F D I T H Q P E L A A Y V T H L P V D I V G V D D A A I I F S D I M T P L K P L
UniRef90_A8FMU8 F L S L C C K D Y K K A S E V S L Q P I D I L D V D A A I I F S D I L V V P L E M
UniRef90_R9GLD3 F L E M C K T P E I A A D V T M L P V N L L G V D D A A I I F S D I L V T A E A M
UniRef90_C7NV72 F L E A V T T P E I A A E I T L Q P W D R Y R P D G V V I M F S D I L T L L E
UniRef90_K9YRV0 F R E R S E N P D L A A E I S L Q P W R A F Q P D G V I L F S D I L T P L P G M
UniRef90_C7DFQ7 F L S L C Y N P E L A A E V T L Q P L I R R Y G F D A A I I F S D I L L L P Q A L
UniRef90_F4XK12 F R E R S E N P D I A E I S L Q P W K A F Q P D G V I L F S D I L T P L P G L
UniRef90_M1VB11 F R E R S E V A A L S T E I S L Q P Y R A Y H P D A V I M F S D I L T P L P G M
UniRef90_UPI0003775D9E M L I E S C M R P D L V T E I T L Q P V R R H G V D D A A I I F S D I V V P L K A I
UniRef90_C6WBD4 M L D A C C F D P E M V C E I T M Q P V R R H D V D G A I I F S D I V V P L K A A
UniRef90_D5V0S0 F L N L C H N P K L A A E V T L Q P L D I V G V D D A A I I F S D I L V I P N E A M
UniRef90_Q5YTA5 M L I E S C C F D P E L V C E I T M Q P I R R H G V D D A A I I F S D I V V P L K A A
UniRef90_UPI00039B8123 M L I E S C C M R P D L V T E I T L Q P V R R H K V D D A A I I F S D I V V P L K A I
UniRef90_UPI000477C447 L M E I C E I P E V C A E V T L L P V R Q L N T D A A I I F S D I M I P V K A M
UniRef90_UPI000380442A L M E I T H Q P E L T A Y L T A T P V E N Y N V D A A V L Y K D I V S P L A
UniRef90_I4C816 R P L A D V I D P E V A L T E L S L A G H E Y A G F E W V K A M G W D L T A L S E F
UniRef90_K9X9L7 F R E R S E I P E V A I E V S L Q P W R A F Q P D G V I L F S D I L V T P L P G L
UniRef90_A6DBT3 F L D M T R N P E I V A E V T L Q P L I E I L D V D A A I I F S D I L N L P M E M
UniRef90_R9TBQ7 W P A A H T D A Q M M A K I G I A G A K V F G F E N A R V P F C L T V E A E A F
UniRef90_K1R4Q6 F F D M V R N P E S S C E I T L Q P L K R F D L D A A I I F S D I L L V I P Q A L
UniRef90_C5CLI6 F M G L A T N T D Y A T E V T L Q P L E R Y P L D A A I I F S D I L T V P D A M

UniRef90_UPI00042A99A9
UniRef90_S3XDB8
UniRef90_R9C7E7
UniRef90_D5XD4
UniRef90_J9HVD0
UniRef90_C7N394
UniRef90_M0LG28
UniRef90_L0KX26
UniRef90_UPI0003FDF9A
UniRef90_N1J9C1
UniRef90_C8PUE6
UniRef90_F7XMG9
UniRef90_J8QEE6
UniRef90_F7HR87
UniRef90_M2XBG7
UniRef90_Q8CW15
UniRef90_R71832
UniRef90_E8TTN3
UniRef90_K2GMR4
UniRef90_M1LTC8
UniRef90_H6C835
UniRef90_A0A017HK21
UniRef90_D5XB31
UniRef90_F5LJQ4
UniRef90_K9SK53
UniRef90_M3CIR8
UniRef90_D6W7F3
UniRef90_N0AMN8
UniRef90_V9IDZ3
UniRef90_R7UAN9
UniRef90_UPI00036D3412
UniRef90_I4F0Z8
UniRef90_A4BPL5
UniRef90_R8BME9
UniRef90_E6R1J3
UniRef90_K2L8K3
UniRef90_A6CB18
UniRef90_W9GIV6
UniRef90_A0A016P9G0
UniRef90_UPI000360A20A
UniRef90_W2EL51
UniRef90_UPI0004723075
UniRef90_S2ZQ86
UniRef90_G3ALW2
UniRef90_Q8PUA8
UniRef90_UPI0003755F17
UniRef90_B9L212
UniRef90_G4W926
UniRef90_UPI00038257CA
UniRef90_Q2RGP5
UniRef90_B2WCU5
UniRef90_K0AZE6
UniRef90_P42503
UniRef90_L8FW06
UniRef90_W7UA58
UniRef90_C1MGR1
UniRef90_Q8TSL7
UniRef90_B4W1N7
UniRef90_D9SZQ0
UniRef90_H8G316
UniRef90_UPI00047457D0
UniRef90_W4DXZ3
UniRef90_S4NU11
UniRef90_UPI0004652983
UniRef90_UPI00037E0189
UniRef90_B7RJR6
UniRef90_M5G6W6
UniRef90_T0E369
UniRef90_A9FZW7
UniRef90_UPI0004750CAF
UniRef90_B1ZV06
UniRef90_K9AH10
UniRef90_A8FMU8
UniRef90_R9GLD3
UniRef90_C7NV72
UniRef90_K9YRV0
UniRef90_C7DFQ7
UniRef90_F4XK12
UniRef90_M1VB11
UniRef90_UPI0003775D9E
UniRef90_C6WBD4
UniRef90_D5V0S0
UniRef90_Q5YTA5
UniRef90_UPI00039B8123
UniRef90_UPI000477C447
UniRef90_UPI000380442A
UniRef90_I4C816
UniRef90_K9X9L7
UniRef90_A6DBT3
UniRef90_R9TBQ7
UniRef90_K1R4Q6
UniRef90_C5CLI6

90 100 110 120
G M E V T M V P G K G P T F P E P L R E E R D L E R L R D P A T V A S E L D D
G M D L E F I V G R G P V F S D P V V C E E D L K K L D I Q K A V K N E L D D
G V D V E I K S G I G L P V T E N P L Q S M D D V S R L G M L H P E R G R I K
G A I L K E G S G R E G L P S V K T H P Y N I G D P V D F P E D F L S R E Q D I
G L E F S G R E N V G S V T J A Q P I R T K E D I E N L R P F T P S S E G R A L P
G A E V T I G R K D V E P H I T G N A I F D V H D Y K Q V K P M D L E S G R A K
P L G F S Y H L E S G V G P V T V E A P A D T R R R E R G D V R E R G Q L W
G C G I K P G T K E G Q P S V T S H C V K D M S D I E R L K D F D I N R G R V A
G Q A L D Y V E G E G P K L E P V T D A A A V A R L S A D R L H E V L G
G M L V E M L P A K G P H F P K P L Q S P N D P Q Y S E V L N N V N V S E L V L Q
G L G L Y F E A G E G P K F H K T V R S M A E V E A L P T V A M S D A L D
G C D V N M G R I D V Q P S V I T H P L S R S D K K N E V I Y P D G L L N A K R V P
G V D V E I K S G I G L P V I D N P I Q S K A D V E K L G E I L T P E Q D R L
G M E V T M V P G K G P S F P E P P L R E E Q D L E R L R D P A V V A S E L T G
G V A F D I P D K G P V T E Q P L R T K A D L E K V H E M Q P E R S T P
G M D V N F Y E N L G P S F L N P I S S I S D M K N L N V P D P E K N L K
G L G L K F V P G E G P V F F E S P V Q S E E A V A K L H V P D V G T D L K R
G L G L S F A E G E G P R F A K A V R S E A D V A Q L A V P D M D R L V P
G V D V E I R K G V G P V I H N P V R N R Q D V E N L G E I D P Q S D S D R L P
G L G L S F T D G L G P S F S R K I R T E D D V K R L L S V P D M N S L S G
G M D V Q M V R I D V G P K F P E P L R S P A D K Q Y K E V L E R D V D A K E L G S
G L D L A F E T G E G P R F L S T I T T E A D L A R L R P V D A I H D T L P
G C D I N Y F D E S I Y P N I K K R L I M K P N E I E G V E V P D H V M G R V S P
S L G L Q F D I V K N I G P V I E N P I R S R E D V M K L K P I L D V E G A L S
G I N F D I V E S K G P V I D P P I R T K A Q I D A L H E L D P T T A L P
G M E V I M L P E K G P H F P S P L Q S P D D E Q F K E V M R E V D V V K E L G
G M V V E M K A G P I P L T L E N F H E L N K T G A V D R L K P
G V D V D I K S G I G P V I T N P I R S L A D V E K L G E I N P E A D R L P
G L T V D M I P G M G P V L P K P L K D P T D L V R L I Q P N V E K D L K G S
G M R L K E T P T G P K F E N P L D S P E D I K N L E Q E P D V E K K L G S
S I G I D F D I V A N V I G P V I H N P V R T A E D V A K L R P I D I E G K D R L
G M D I E I K P G V I G P V V A S P V R S V A D V D A L P P L E P D R L E
G L G L Y F E E G E G P R F E R P V R S L R A I A D L S S P D I A S E L R D
G M T V E M V D K K G P H F P D P L K S P A D K Q Y E E V M K A V D V A K E L D
G L E V L M E P S R G P V L L P N P L V T P D D L K R L R E D V N V Q K E L G
G Q H L A F K Q G E G P Q L E A I R D A S G L G I L N V D H I H D T L D
G L D L E Y L K G E G P V I H N P I Q D A S Q V D R L T D I A D M D C L G
G L D L D I V A G V I G P V V A E P I R T R A D L D R L P E L T S E H V P
G M T V E M V D K K G P H F P E P L K S P D D G Q Y G Q V L A K D V D V A E L G S
S L G I D F D I V K N I G P V I E N P I R C A A D I D R L R P I D V D A D L S
G V D L D I K P G V I G P V V A T P I R D R A G A E V L R P L E P G D V P
G V D V E I L T G K G P V I H N P I R S T R A K D V E Q L G K I H P E E D I V S
G I D L D I K P G V I G P V V E R P V R T R A L R L R D L T P E D D V S
G F E I D M V E G K G P V F A S P P L R S P E D L S R I D L N P D I T K S K L D
G C K L D W D K P D R P V T G P A Y T N P E D V T W P D K L E E T G R I P
G L T Y E M I E K K G P S F P K T I Q S Q K D I E D L I E G V D A S E L T
G V P L S F A E G E G P V I G A P I R D P A A V D R L P E P D E S P L W
G Q P L Q M L P N R G P V F D W R L E S P E D L K K L D L T P D V E D S L G V
G Q D V W F E A G V I G P R L N P V T D K A S Y D R L S L G A F H E K V G
G L K M N W G T V D S M P D V L L E N P F E D P D D I I P A D F L E R P I R
G M E V I M V D K K G P H F P E P L Q T P D D K Q Y K E V L R E V D V A E L D
G S K M G Y N D N G A S F L I E P L L K D Y K M L E N M D I V N P Y K G R L P
G L D L W F E T G E G P R M S T V I T S M E G V K G L K G K D D I H D K L A
G M T V E M I D K K G P H F P E P L T S P T A M D G R Y E T V M K K V D V A K E L D
G I E F D V I S G K G P V I P N R I A T A M D V D N V R R L D D P A S S L P
N I P F D I V K G T G P V I M D P V I R G M D D V K K I T K L E P E K S V P
G C T V A E G S I D I Q P Y V T D F P C K K K K D V K D I P G S L L E S R R T S
G I P F D I V E S K G P I I D P P I R S Q A Q I D G L H P L E L E K L T
G I D L D I V P G T G P V V A E P V R T A A D V E R I T P I G R D D V S
G V D L D I V A G T G P V V A A E P V R S R A D V E A L P E L E P E Q V R
G V D L D I K P G V I G P V V E K P I R S R A D L E R L R A E L E P E D V G
S L G V D F D I V K N I G P V I E N P I R S A S D V D R L K P I D V E G D L A
G M T V E M H P G V I G P V F P E P L K D V S E I D N L K E E G A V S R L T
G V D L D I K P G V I G P V I A D P V R T P A D L D A L R R L D P G D V P
G L G L R F A A G E G P R F E H A L R T E A Q I R A L Q V P E L D K L R Y V F D
G A D L W F V T G E G P R L S T V I T Q A D F D K L K P V D A I H E T L N G
G M I V E M P T G E G P T F P H P L A D P E D L S R L K H P V N V D Q E L G
G S E V I F P T N N T P Y I N K P A I N D Y S E I G K L R P I D P Y K D G R I H
G A P F E F A K G E G P V I H E P V R D R A G L E R L R V F E P E E G L G S
G V D L D I K P G V I G P V V A H P I R S H A D L E Q L R P L E P G D V S
G Q G Y R F R D E G G I A M E F R L E N T A Q I D A L A P A N A V P E R L R
G V D V E I K S G I G P V V I S N P I T C Y Q D V E K L A H I D P K R D V P
G M N L R F E K G E G P V F D N P I S T L E D L E K L D Q N A H K K L N
G D L S F T Q G V I G P R F A N P V R L K Q D V E R L T T D V S Q K L Q
P L G F D Y H I E S G T G P V V I E S P I A D P G D V P Q A Y A P I L D P E T S L P
G I D F D I V E S K G P V I D P P I R T Q E Q V D Q M R P I L D P E T S L P
G A D L W F V T G E G P R L S T I T T A D Q L A A L K P A A D V N D H L S
G I E F E I V E S K G P I I N Q P I R T Q E Q D Q L H L L D L D R F T G
G I T F D I P E R G P V V V S P V R S Y D D L Q R F R E M D P Y K S T P
G I D L D I K P G V I G P V V A N P I R S R A D L A R L R D L T P E D V P
G V D L D I V A G T G P V V A S P V R T R E D V A A L P E L E A A H L T
G M H L E F I K G E G P I V K A S P I R T R E A E V A D A L L G S E A A D K L T
G I D L D I V A G V I G P V V A A P V R S V A D V R A L P R L R P E E V G
G L D L D I K P G V I G P V V E Q P I R S R E D L V R L R P L P E A D D V K
G M E V D I K G G Y G P V V I H N P I R N I D D V E K L G E L D P Y K D L D
P I G M D V E I K K G V I G P V I H N P I R N I D D V E K L G E L D P Y K D L D
G C G L M G E P A I D L Q Y I I K V H P F E H N L D G L H C P E D L L M R G R F P
G V D M D I A E G K G P I I J A S P I R T Q A Q V D Q M R L R P L E P E S L P
G L S L R F E K G V I G P V F D K T I D S E K D I D N L D P N A D E K L F
G A T V D L E G N R V K T P M L K A H P Y S S E D E P V I P E G F L G K G R I A
G I G I E I E G K G M T F D F L Q T P E D L K K L N T I V D V T Q E L H
G L G L S F E A G E G P R F A R P V I Q G E A A V A A L E V P D M A K L R

UniRef90_UPI00042A99A9 Y V F Q A I T L T R E K L A K R V P L 140 G F A G A P W T L M T Y M I E G G S S K
UniRef90_S3XDB8 Y V Y E T I K I L T R E K L A K R V P L I I G G F F G A P W T L V A S Y M I E D G G S S T K K
UniRef90_R9C7E7 Y V L L D T A I K R L L T T S E Q L L N G V I V L G G F S G A P F F T L A S Y M I E D G G S S T K K
UniRef90_D5DXD4 H V L L E A I R L L L K T S Q L L N G V I V L G G F S G A P F F T L A S Y M I E D G G S S T K K
UniRef90_J9HVD0 H V L L T S I R L L L K T S Q L L N G V I V L G G F S G A P F F T L A S Y M I E D G G S S T K K
UniRef90_C7N394 T V L I E A I R L L L K T S Q L L N G V I V L G G F S G A P F F T L A S Y M I E D G G S S T K K
UniRef90_M0LG28 Y V Y G D L L K R L L T D E L D G E Q A A T L V G G F A G G P F F T L A S Y M I E D G G S S T K K
UniRef90_L0KX26 T I C K A V I K R L L A D K Y G T K I P V M A S M L G P F S L A Q H M N E G D D W F
UniRef90_UPI0003FDF9A P V Y E A I V T R I M T R A A A L P S G R E T A L I G F A G G S P W T L V A T Y M V I E G G G S K
UniRef90_N1J9C1 Y V Y E A I V T R I M T R A A A L P S G R E T A L I G F A G G S P W T L V A T Y M V I E G G G S K
UniRef90_C8PUE6 Y V M K A V T S I T R R H A L A G R A P L I F G F S G S P W T L A T Y M I E I E G G S S K
UniRef90_F7XMG9 S V L E A T R I L L R E E R T D G N V P L I I G F A G M E G A P A T L A S H L T E G M Y N F L
UniRef90_J8QEE6 Y V L E T A T K R L L R Q Q L S A G R E V P L I I G F A G A P F T L A S Y M L E I E G G S S K
UniRef90_F7HR87 Y V F Q A I T R L L T R Q R L A S G R E V P L I I G F A G A P W T L M T Y M I E I E G G S S K
UniRef90_M2XBG7 F V R E T A I R A L R R E A L V S D E A A V L L G F V A A P Y T L A T Y C M I E I E G G S S K
UniRef90_Q8CWI5 Y V L D S I K I C K I R R A L D K K I P L I I G F F S G S P W T L A C Y M I E I E G G K S K
UniRef90_R7I832 Y V T D A V S S I R S T L D Q G R V P L I I G F F S G S P F T L A C Y M I E I E G R G S K
UniRef90_E8TTN3 Y V E D A I V S I L R R A L D N G R V P L I I G F F S G S P W T L A S Y M I E I E G G S S K
UniRef90_K2GMR4 Y V L D T I S L L T R R A L Q L S A G R E V P L I I G F F S G A P F T L A S Y M I E I E G G P S K
UniRef90_M1LTC8 Y V F D T I N L V K N E L K Q Q V P L I I G F F S G S P W T L A C Y M I E I E G Q N I K
UniRef90_H6C835 Y V Y K A I R L L T R K L A G R V P L I Y G F C G A P W T L C Y M I E I E G G G T K
UniRef90_A0A017HK21 P V Y E T V R L L A G A L P K E T T L I G F A G A P W T V A T Y M V I A G R G T P
UniRef90_D5XB31 V C N A I R Q A K A E F G Q H I P I G A H I L L G P F T L A T H L M D F N E L L
UniRef90_F5LJQ4 H V I E T I R L L D R E V L D T V P L I T F A G A P F T L A S Y L I E G R P S K S K
UniRef90_K9SK53 F V G K V L K T L L R Q E V A D G R V P L I I G F V G S P W T L A A Y A I E S G G S K
UniRef90_M3CIR8 Y V Y D A I T L T R R K K L D G R V P L I Y G F C G A P F T L L C Y M V I E S G G S T K
UniRef90_D6W7F3 Y V F G E A I T L T R R H K L D D G K V L I F G F F A G A P F T L A S Y M I E S G G Y K T K
UniRef90_N0AMN8 Y V F E A I K I L L T R Q E Q L S A G R E V P L I I G F A G A P F T L A S Y M I E S G G Y K T K
UniRef90_V9IDZ3 Y V G D A I T L T R Y K L E G K V P L I I G F T G A A W T L M S Y M I Q G G G S S R
UniRef90_R7UAN9 F V E K A I R L L T R R I R G Q C P L I I G F F S G A P W T L M S Y M I E I E G G S S K
UniRef90_UPI00036D3412 H V L E T I R I L L D R E L G S E V T P L I I G F F A G A P F T L A S Y L I E I E G G R P S K
UniRef90_I4F0Z8 F L A T S V R R L V A E L G S T P L I I G F A G A P F T L A T Y L I E I E G G S S K
UniRef90_A4BPL5 Y V T D A I G L I R H E L A G R V P L I I G F F S G S P W T L A T Y M V I E I E G G S S K
UniRef90_R8BME9 Y V Y K A I T V T R R K K L K G R V P L I I G F C G A P W T L L C Y M V I E I E G G S T K
UniRef90_E6R1J3 Y V F E A V T L T R K G L D G R V P L I I G F C G A P W T L M A Y M C I E I E G G S K
UniRef90_K2L8K3 P V Y E T A V A K L S A S I P S H I T S L I I G F F A G A P W T V A T Y M V I E I E G G S K
UniRef90_A6CBI8 F V F E T V K L I R S A D L P A D I P L I I G F F A G C P F T L A S Y A I E I E G G S K
UniRef90_W9GIV6 Y I T D A V R L L V A E L G S D T P L I I G F A G A P F T L A S Y L V I E I E G G P S K
UniRef90_A0A016P9G0 Y V Y D A I R L L T R Q K L D G Q V P L I I G F C G A P W T L F C Y M V I E I E G G T K
UniRef90_UPI000360A20A H I M E T I R I L L D R E L K V P L I I G F F A G A P F T L A S Y L I E I E G G R P S K
UniRef90_W2EL51 Y V T E S V E A L L K E L G G T P L I V G F A G G P F T L A S Y L I E I E G G P S K
UniRef90_UPI0004723075 Y V L E T I K L L T E E Q L L T T P L I I G F F S G A P F T L A S S Y L I E I E G G S R
UniRef90_S2ZQ86 Y V T E A I G L L T G E L G A T P L I I G F F A G A P F T L A S Y L V I E I E G G E N A K
UniRef90_G3ALW2 W A F K S I T L T R T K L N G R V P L I I G F V G A P W T L V Y M T E I E G Q G S K
UniRef90_Q8PUA8 V V L G A I D E L R K R Y D G M L P L I I P L L T A P F T V A G H I A G V I E G N M A
UniRef90_UPI0003755F17 Y V Y D A L R I V R A E L A G R V P L I I G F F A G A P W T I F A Y M V I E I E G G S K
UniRef90_B9L212 P V A E A L R I V R A E L P E R V A V I I G F F A G A P F T L A S Y L I E I E G G S S K
UniRef90_G4W926 N V F D A M Y L T K K K V D N E V T L F G F C G A P W T I L G Y M V I E I E G G S K
UniRef90_UPI00038257CA Y V Y E T L R R L K V E L P S D V T L I I G F F A G A P W T V A T Y M I E I E G A G S K
UniRef90_Q2RGP5 T V L E A L K I L K K E Y G D H V C L V G K V M G P W T L S Y H L H G V I Q K F L
UniRef90_B2WCU5 Y V Y K A I R L T M T R Q K L A G R V P L I I G F C G A P W T L C Y M V I E I E G G S K
UniRef90_K0AZE6 I I L R A L G K I K K E L G K E I N I G S G V S G P M S A F A L R G V D N L M
UniRef90_P42503 P V Y E T C K I L S R E L P K E T T F I T G F A G M P W T V A T Y M I A G R G S K
UniRef90_L8FW06 Y V Y K A I R L T M T R H K L K G R V P L I I G F C G A P W T L L C Y M V I E I E G G S K
UniRef90_W7UA58 F V G E T I R T L K N E V A G R A T V L I I G F F V G A P F T L A A Y T I E I E G G S K
UniRef90_C1MGR1 F V G E A L G L L R Q E V G N N A T V L I G F V G A P F T L A S Y I V I E I E G G T S K
UniRef90_Q8TSL7 V V L D A V G L L R K E V G E D V P V V A G L V I G A G L A S M L A G M K N Y L
UniRef90_B4W1N7 F V G E L L Q A L R Q E V G N E A V L I G F V G A P W T L A A Y A I E I E G K S K
UniRef90_D9SZQ0 F V D E A V R R L V V E L G D T P L I I G F A G A P F T L A S Y L V I E I E G G P S K
UniRef90_H8G316 P I T D G V R L L T R E Q L L G E T P L I I G F A G A P F T L A S Y L I E I E G G S K
UniRef90_UPI00047457D0 Y V T E A V G I L L T R E L G A E T P L I I G F A G A P F T L A S Y L V I E I E G G P S K
UniRef90_W4DXZ3 H I L E T I A I L D K E L D V P L I I T F A G A P F T I A S Y L I E I E G R P S K
UniRef90_S4NU11 Y V G D A I T L T R H K I E G K V P L I I G F T G A P F T L M G Y M I E I E G G S K
UniRef90_UPI0004652983 Y V T E A I V E G L V G E L G D T P L I I G F A G G P F T L A S Y L I E I E G G P S K
UniRef90_UPI00037E0189 A V S Q I R R A L T R D G V G R V P L I I G F A G S P W T L A C Y M V I E I E G Q G S D
UniRef90_B7RJR6 P I Y Q T I R N L R K G A L P P E T T L I I G F A G A P W T V A T Y M I A G G G T K
UniRef90_M5G6W6 Y V F D A I T M T R G K L K G E V P L I I G F C G S P W T L M A Y M I A Q G G S K
UniRef90_T0E369 Y F L E A L K I A Q D K L J A E V G V G T S V G G P F T T A C F L R G T D K F L
UniRef90_A9FZW7 Y V L D A V R L L I R K E L D G K T P L I I G F A G A P F T M A S Y L V I E I E G S K
UniRef90_UPI0004750CAF Y V T E A I G M I T A E L G A T P L I I G F A G A P F T L A S Y L I E I E G G E H T K
UniRef90_B1ZV06 Y V A D T L A L L K K E L A G N K A L L G F A G S P W T L A T Y M V I E I E G G S S K
UniRef90_K9AH10 Y V L D T I E L L T K K L D V P L I I G F T G A P F T L A S Y M I E I E G G S S K
UniRef90_A8FMU8 Y V Y D A L K E L L R E K S Q N K A L I G F C G S P W T I A T Y M I E I E G S S K
UniRef90_R9GLD3 Y V P E A I K V I Q Q R L D G S E T P L I I G F A G G P F T V M S Y L V I E I E G G S S K
UniRef90_C7NV72 Y V G E L L D R L D T Q V G E E T G I I G F A G G P F T L A S Y A V I A G R T S K
UniRef90_K9YRV0 F I K T L K T L R E V V G N Q S T V L I I G F V G A P W T L G A Y A I E I E G K T S K
UniRef90_C7DFQ7 P I Y E T I K I L S K S L P V G T T L I I G F A G S P W T V A T Y M I A G Q G T P
UniRef90_F4XK12 F I R E T L K A L R Q E V G N E A V L I I G F V G A P W T L G A Y A I E I E G K S K
UniRef90_M1VB11 F V R E T L Q A T L R R V V E P E V A V L I I G F V G A P W T L L T Y C I E I E G G S S K
UniRef90_UPI0003775D9E Y I T E A V G Q L V G E L G G T P L I I G F A G A P F T L A S Y L V I E I E G G P S K
UniRef90_C6WBD4 P V A D A I G L L L K E L L G N V P L I I G F A G A P F T L A S Y L V I E I E G G P S K
UniRef90_D5V0S0 Y V Y E T I K L L K Q E L P E D K A L I I G F T G A P W T L A T Y M I E I E G Q G T K
UniRef90_Q5YTA5 A V V E G V R L L V D A L G Q T P L I I G F A G A P F T L A S Y L V I E I E G G P S K
UniRef90_UPI00039B8123 Y V T E A I G M L T G E L G E T P L I I G F A G A P F T L A S Y L V I E I E G G P S R
UniRef90_UPI000477C447 N T M E A I R I L H R E L N V P L I I G F A G A P F T L A S Y M I E I E G G P S K
UniRef90_UPI000380442A Y V C K T L K I L T E E K L N V P L I I G F C G A P F T V A S Y M I E I E G G P S K
UniRef90_I4C816 A Y K E Q F R L L K E R V G D R L A I F G G M A E G P F T C A S N L L E A S T I M
UniRef90_K9X9L7 F I K T L Q A L R E E V G N K A A V L I I G F V G A P W T L A A Y M V I E I E G K S K
UniRef90_A6DBT3 Y V Y E G I K K I K E R L P E N K A L I I G F A G S P W T I A T Y M V I E I E G R G S K
UniRef90_R9TBQ7 T A I E A V K T L K A E Y G D E Y P I V I A G F T T G P L T I A G H L I E G T E D L L
UniRef90_K1R4Q6 Y V M D A I T L T R Q R L E G R C P L I I G F A G A P W T I M K Y M I E I E G S S R
UniRef90_C5CLI6 Y V F D A V A S I R K A L D G R V P L I I G F S G S P W T L A C Y M V I E G A S S K

UniRef90_UPI00042A99A9 R W L Y Q R P Q A S H K L L G L L T D A L V P Y L I G Q V V A A G A Q V S L Q R Q Q
UniRef90_S3XDB8 N Y L Y Q R N P E F L H Q I L S K V T T Q A T K I Y L E N Q I I K A G V N A V I Q I F D
UniRef90_R9C7E7 N I Y M Y A K P P E A W Y A L M E K L G K D M A G T M L A Q A M I S A G A G A S A I Q I E D
UniRef90_D5DXD4 K I A Y R K P Q E L V S Y I E I G E K A G T M L A Q A M I S A G A G A D V I A I A I E F D
UniRef90_J9HVD0 T M M V I S R K P D L W Q T L M D K L A D M V I H Y G R A Q V V E A G A G A S A L A Q V I F D
UniRef90_C7N394 K Q L Y K E K E L S H A Y M D F I T N E L I R F G L A Q V V E E S G A D A V I A Q I F A D
UniRef90_M0LG28 S F M A E H P E A F S R L E A F T D V L V E Y V E F V E S G A D A V I A Q I F A D
UniRef90_L0KX26 M A I M T D E D F A T A L M N L A T E F N I T Y A K K M V E N G A D T M V I I D
UniRef90_UPI0003FDF9A E Y A Y G E P E T F A R L L D L L V E A T S A Y L L R L Q V I E A G A E A V Q V I F D
UniRef90_N1J9C1 T W L Y K H P E A T E K L L Q K I A E V C V E H L L R L Q V I E A G A Q L V Q V I F D
UniRef90_C8PUE6 E M L Y G E P E T L H A L L A K I T D A V I D Y L L A Q I A A G A Q L V Q V I F D
UniRef90_F7XMG9 T W S V L N P E N L D S I L M Q L A T D V C I E Y A D A L L D C G A G A D L I Q I F A D
UniRef90_J8QEE6 N Y M Y G Q P D A W F L L M D K L A D T T I S Y V K S Q I K A G A Q A I S Q I F D
UniRef90_F7HR87 T M A Q G Q R W L Y Q R P Q A K S K T F F F L I T G F I G Q A V S G I E A L Q L
UniRef90_M2XBG7 K M A F T E S P E L L H Q L L E K F A H N L A I Y C C Y Q I E S G A Q A I Q I F D
UniRef90_Q8CW15 K M I Y Q N S K E L H Q L L L K K I T N S I L L Y L N S Q I I Y E S G V N A I I I F D
UniRef90_R71832 S M M Y R R P D L F Q K V I S V N E K A V T E Y L N A Q I I E A G A Q A I Q I F D
UniRef90_E8TTN3 S L M Y A R P D L M H R I L A V N A D A V A R Y L N A Q I I D A G A Q A I Q I F D
UniRef90_K2GMR4 N Y M Y R D E E T W F L L M D K L A S M I T Y V Q L Q V K A G A R A I Q I F D
UniRef90_M1LTC8 K M L Y S R P D L L H K V L E I N T E S I I Q Y L N S Q I A S G V D A V M L F D
UniRef90_H6C835 T W L Y K Y P K E S Q A L L D Q K I S E V C V E H L L R L Q V I E A G A Q L V V Q V F D
UniRef90_A0A017HK21 D Q K A A N R P D L F E A I L L D R K L T E A T I L L Y L L S K Q V E A G A E A V V K L F D
UniRef90_D5XB31 M T V F R K P D L V S G L L E K L A G V L M N V A R A Y E E A G A D Y I C L R F D
UniRef90_F5LJQ4 E L M Y G N P E V W H A L L M D K L G D M V I T Y L R A H I A A G A K A V Q L F D
UniRef90_K9SK53 D M A Y S E P E M L H T F L G K L A D A I A V Y V R Y Q I I A D M G A Q V V Q L F D
UniRef90_M3CIR8 T W I Y K Y R E A A K Q L L Q K I A E L C V E Y L A H Q I V V A G A Q I V Q V I F D
UniRef90_D6W7F3 K W L Y A Y P K I A H K L L E L L T E V I D Y V V M Q V N E A G A Q L L L L F D
UniRef90_N0AMN8 A F M Y S E P K A W F A L L M D K L G E T T I T Y V K A Q V N A G A K A V Q I F D
UniRef90_V9IDZ3 E W L Y K Y P N E S H K L L Q L I T N V I I D Y L V M Q V N A G A Q L L Q V F F E
UniRef90_R7UAN9 R W L F A H P S E C H T A L Q M L T D D V I V K Y L I G Q V K A G A Q L L L L F D
UniRef90_UPI00036D3412 Q M M Y S A P E V W F A L L M D K L G D M V I A Y L K A H V A N G A K A V Q L F D
UniRef90_I4F0Z8 E H M Y A E P E A W R R L L E R L A V S A A T F L Q V Q V D A G A S A V M L F D
UniRef90_A4BPL5 T L L Y E H P Q A L H Q L L E K V A Q A V A D Y L N A Q V E A G A Q L L Q V F D
UniRef90_R8BME9 T W I Y K Y P E A S K K L L Q K I A E V C V E Y L A L Q V E A G A Q L I Q V F D
UniRef90_E6R1J3 T W L Y K Y P E A S H E L L R R I A D V C A D L L I G Q V L A G A Q M L Q V F D
UniRef90_K2L8K3 D F A Y G D P D G F S R L L E L V E A T T Q Y L L K Q V E A G A E C I Q I F D
UniRef90_A6CB18 N M M Y N D P S A W N A L M N R F V D N L I V Y L Q R Q L A A G C Q A V Q I F D
UniRef90_W9GIV6 N H M H G D P D L W H A L C D R L A Q I S G A F L H A Q A E A G A S V V Q L F D
UniRef90_A0A016P9G0 T W L Y K Y P E E A K K L L S K I A D L C V E H L A L Q V K A G A Q L V M V F D
UniRef90_UPI000360A20A E M M Y G E P D M W F R L M D K L G D M V I T Y L R A H I A N G G K A F Q L F D
UniRef90_W2EL51 N H M Y G D P E L W H E L M D R L G A T T L A F L R V Q A E A G A S A V Q L F D
UniRef90_UPI0004723075 D Y M Y A P E K A W F T L M D K L G D M I I S Y V K A Q I H A G A S A I Q I F D
UniRef90_S2ZQ86 A M M Y G D P E L W A D L L D R L S E I T I A F L K V Q L D A G A S A I Q I F D
UniRef90_G3ALW2 M W I F K Y P E A A H K L L Q A T C D A C I E F L A L Q V V A G A Q M L Q I F E
UniRef90_Q8PUA8 R W T K T D P E K A H A F I L D A A T D F V V A Y G K L Q A A Y G A H I L L A D
UniRef90_UPI0003755F17 K M L F R E P E A H A L L G K I T S T T I A Y L K Q K V K H G A D L I L Q L F A D
UniRef90_B9L212 R F L L T E R S A W E R L L E R L T E L T L R Y L M L Q V R A G A E V V Q L F D
UniRef90_G4W926 R W L Y D Y P E E S H K L L E A I S R L S A K Y L I G Q W D S G A G A M V Q V F D
UniRef90_UPI00038257CA D H A Y G D P E L F G K I L L D L V D A T A E Y L I A Q I I D A G A D A V I Q I F D
UniRef90_Q2RGP5 I K T I L E P D K V R R F L D K L K D L A V K F A N A Q F A A G A D V V T V A D
UniRef90_B2WCU5 M W I Y K Y P E E T K A L L K L A E L C V E Y L A L Q V Q A G A Q M I Q V F D
UniRef90_K0AZE6 K D M I K D K E N L H K L L A F M T E C N L S F V R A V Y S E Y G L V C G I G D
UniRef90_P42503 D Q A A A H R A A F S A L I D A V T V A T I E Y L S K Q V E A G C E V V K L F D
UniRef90_L8FW06 T W V F R H S Q A S K D L L Q K I A E V C V E H L A L Q V K A G A Q M V Q V F D
UniRef90_W7UA58 N C M M Y D P T L L H V Y L D K L A T A I G D Y A C Y Q I E N G A E V I Q V F F E
UniRef90_C1MGR1 K M A F D E P Q I Y E A L L N S I T D S V V E Y V K Y Q A D S G A Q V I Q I F D
UniRef90_Q8TSL7 M W F V T N P E L V E E L M G V L T E A C I E Y A K G L L E R N G A D A V T Q L F D
UniRef90_B4W1N7 N M A F S Q P A M L H E F L G K I A D A I A V Y V R Y Q I I D N G A Q V V T L F D
UniRef90_D9SZQ0 T H M Y G D P E L W H A L C A R L A E V T L A F L Q V Q I I D A G V S A V Q L F D
UniRef90_H8G316 N H M H S E P E V W H A L A G S L A R T T L T F L R A Q L I D A G V D A V Q L F D
UniRef90_UPI00047457D0 N H M Y G D P E L W A D L L D R L A D T T A T F L K V Q I E A G A A A V Q L F D
UniRef90_W4DXZ3 T Y M F S Q P Q V W E K L M E K L G D M V I T Y L R A H V A S G G A F Q L F D
UniRef90_S4NU11 T W L E K Y P K D V H R L L G L L A T R V I I D Y L V M Q V I E S G A Q L L Q V F D
UniRef90_UPI0004652983 N M M Y G E P E L W S G L L G R L A D L T I D F L K L Q I A E A G A S A V Q V F D
UniRef90_UPI00037E0189 D W M Y S R P D L M H H I L R V N A Q S V A A Y L N A Q I I E A G A Q A V M L F D
UniRef90_B7RJR6 D Q R I N D N P L F E S L L N L I T T K A T I E Y M S A Q I I D A G A E V M K I F D
UniRef90_M5G6W6 R W I F Q Y P T A S K E L L S R I T T C V I C V D F L I G Q V R A G A Q L V Q V F D
UniRef90_T0E369 R D L T K N K D M A H Q L L E I S T Q S V I N Y I D A A C D I G L A P S L A E
UniRef90_A9FZW7 Q L L M W S D P E A W S A L M G K I S E V V R R L L R A Q V A A G A Q A V Q L F D
UniRef90_UPI0004750CAF A M M Y G E P Q L F H A L L E R L S G I T A A F L D V Q I I R A G A S A V Q L F D
UniRef90_B1ZV06 Q L F Y T D R P T F D Q L L E K L T A A L T A Y F R M Q I A A G V D A I Q I F D
UniRef90_K9AH10 N M M Y R D E A T W F K L M D H L V D V S I N Y T K A Q I E A G A S I Q I F D
UniRef90_A8FMU8 K M L Y Q N P E L L H K I L N K L T Q V L K L Y L E E Q I K A G A N A I Q I F D
UniRef90_R9GLD3 D M I H N Q P E L A H Q L L N K I A D V T I T Y L N M Q I E A G V N A V Q L F D
UniRef90_C7NV72 N H Y A R H P E A F A D L S I V A D A V R E F L S Y Q I D S H G A D V V Q L F D
UniRef90_K9YRV0 N M A F Q N P Q L L H Q F L G S K V A D S I A R Y I C Y Q I D S G A Q V V Q M F D
UniRef90_C7DFQ7 D Q K D E N R L V F D G L I D I T D A T I V Y L S A Q I E A G A E V I K L F D
UniRef90_F4XK12 N M A F S Q P A M L H Q F L G K L A D A I A I Y A R Y Q I N S G A Q V I Q M F D
UniRef90_M1VB11 K V A F T E P A L L H E L L A R V T D N L A I Y A N F Q I E C G A D A I Q I F D
UniRef90_UPI0003775D9E N H M Y G D P Q L W A D L V D R L A Q I T S A F L K V Q I E A G A S A I Q L F D
UniRef90_C6WBD4 N H M H S D P D L W H A L L A K I A D I T A E F L R V Q V E A G V K A V Q I F D
UniRef90_D5V0S0 K M M Y S N P E L L H K I L K V T E V K L Y M E N Q I K A G A D V V Q I F D
UniRef90_Q5YTA5 H H M Y A D P K T W H E L L G V L T D I T I A F L R A Q L D A G V D A V Q L F D
UniRef90_UPI00039B8123 N H M Y G E P E L W A E L L D R L A D L T S A F L K V Q I E A G A S A V Q I F D
UniRef90_UPI000477C447 N M M Y A P E V W N A L M D K L G N M I V T Y M K A Q V A A G A S A V Q I F D
UniRef90_UPI000380442A N M M Y N Q P D T W F K L M D K L T D M S I R Y L T A Q V E S G A K M L Q I F D
UniRef90_I4C816 R A I K D P E T V R K V L D V T V E A V T K V A Q F A F S N G A Q V F C L G D
UniRef90_K9X9L7 T M A F S D P T L H Q L L T K L A D A I A T Y V R Y Q I D C G A Q V V Q M F D
UniRef90_A6DBT3 K M V Y S N P M L L H R L L A F N T K E T I E Y L S K Q I E A G A D A V M F D
UniRef90_R9TBQ7 L M M I T E P D T V Y K F I K V I A E M E K Q Y I S A L V A A G V D V I N M S D
UniRef90_K1R4Q6 R W L V I Q Y P E A S N T L A K V L A T T E M T D Y L N A Q V K A G A Q L V I Q M F D
UniRef90_C5CLI6 S M L Y S R P D I L M H R L L A V N A D S V A A Y L N A Q I I D A G A Q A V M V F D

UniRef90_UPI00042A99A9 T G C S L V R Q D 210 P K Q W L S K V E 220 K A G L I I F A K D G 230
UniRef90_S3XDB8 S W A S E K D V Y F D F S W K Y I L E I V D Y L K A K Y P E I P L I V F P K G I
UniRef90_R9C7E7 S W V G A L N M I T P K Y R L F I L P V M K R L F S E L A N E N V P T F I H G V G A
UniRef90_D5XD4 M M C S L D N V I T P K I Y R E K L A A P Y Q K K Q I E A L S V P T I L H I C G K L
UniRef90_J9HVD0 S W V G S L S V D A F R K S V K P F M T R T F H E L R K L D V I Y F G V N T
UniRef90_C7N394 P S G T G E I M G P R S F D Q Y A V T Y L Q K A L Q D A G A R T I V H I C G Q M
UniRef90_M0LG28 T Y A G L L S P A D Y R E F L L P L H R E V L E A V D V P T I V F A R N V
UniRef90_L0KX26 P T A S A M L I G D A Y Y E K Y V V P A H K R I V D A M H E L N V P H I C G D T
UniRef90_UPI0003FDF9A S W A G V L P E G F E R E V I V A P T R R L V E A V R A G A P G V P V I G F P R
UniRef90_N1J9C1 S W S F R R F S Q P Y L E F I S K M L P L K I K A L G L D P V P M I V F A K G A
UniRef90_C8PUE6 S W G G A L A H R Q F V E F S H H Y N T K I V A A I K A T Y V V L F T K G G
UniRef90_F7XMG9 G I A G P D L L D P G M Y E S L V Q P L H K R L A D R L K G R K I I H M C G T A
UniRef90_J8QEE6 S W V G T L N L A D P D Y R K Y V K P V M N R I F T E L R G E G V P L I M F G V G A
UniRef90_F7HR87 F E S H A G H L G P Q L F N K F A L P Y I R D V I A K R V K P V P M I V F A K D G
UniRef90_M2XBG7 S W A G Q L S I T D Y E M F A L P Y Q K R V L E Q V K R H Y I L L F I S Q G
UniRef90_Q8CW15 T W G I L T E E K Y C E Y L S H Y M S L I I K N L F C K Y V T I I F T K N G
UniRef90_R71832 T W G G C L A D G L Y Q Q Y S L A S I R N V I A N L P V V V F T K G G
UniRef90_E8TTN3 S W G G V L A D G M F Q Q F S L A Y T A R V L A Q L Q P R L V F T K G G G
UniRef90_K2GMR4 S W G G A L H A A D Y R K F L K P V M D R I F R E L R K E G V I L F G V G A
UniRef90_M1LTC8 T W G I L T G T A F K D F S L A Y N K K I F D S L R R I P I V S F T K G G
UniRef90_H6C835 S W A G E L S P A S F R E F A L P W L K Y L S T N L P K R P M V V F A K G A
UniRef90_A0A017HK21 S W A G S L Q G E D F A A Y A L A P A R I T R A L K E R H P G L P V I A F P R
UniRef90_D5XB31 M S G T T D I V I S P K Q F N E L L R P E L V K T I Q N C R V P V V L H I C G N T
UniRef90_F5LJQ4 S W V G A L A P Q D F R E F V L P T I Q R I E R E L G D Q P K I Y F P G V S
UniRef90_K9SK53 S W A G Q L A P Q D Y E F A L P Y E K R I V D Q V K A T H L I L Y I S G S
UniRef90_M3CIR8 S W A G E L S P A T F K E F S L P Y L E W I A D H L P K R P M V V F A K G A
UniRef90_D6W7F3 S N A D L L N K E L Y R T K F G L P Y L K K L R D S V R Q V P M V L F A K G A
UniRef90_N0AMN8 S W V G A L N A E D Y R Y F I K P V M H R I F T A L K E T G V P L I M F G V G A
UniRef90_V9IDZ3 S H S D F L N D E L F E N Y S F K Y Q R L K K E N T P E V P M I A F P K G A
UniRef90_R7UAN9 S N A G S L A P D Q F A E F S A P Y L K Q T I S E K V K N V P M T V F A K G G
UniRef90_UPI00036D3412 S W V G A L A P Q D F E R Y V L P T I K R I F S A L K E V D V I Y F P G V S
UniRef90_I4F0Z8 S W A G V L S A T D Y A S R V L P H S R A V F D A L I G D R D V P K V H F G V G T
UniRef90_A4BPL5 T W G V L L A H E A Y L E F S E P V R R V L E A L R R I P V I V F T K G G
UniRef90_R8BME9 S W S G E L S P A T F K Q F S E P Y L L Y I A D N L P V P M I V F P K G S
UniRef90_E6R1J3 P H Q F K T F A L P P L L H I S S K V H S V L S Q L S H P G I P I T L F A K G A
UniRef90_K2L8K3 T W G G E N G F E R W V T Q P T K K L V A N L K A V H P D L P V I G F P G A G
UniRef90_A6CB18 S W A G C L S P E D Y J Q Y V Q P Y T A K L V A G V Q D H P V I N F L T G N
UniRef90_W9GIV6 S W V G A L P R A D Y A R Y V L P H S T K A L A A V A D L D V P R L H F G V G T
UniRef90_A0A016P9G0 S W S Y R Q F S E P F Y E Y I A E K L P A K I Q S L G L E K V P M T V F P K G A
UniRef90_UPI00036A20A S W V G A L A P K D F E Y Q V L P T I R R I F D E L A H V P K I Y F P G V S
UniRef90_W2EL51 S W V G A V A P Q D Y R T Y V L P H T A K I F A G L A D L G V I H F G V G T
UniRef90_UPI0004723075 S W V G A L N L E D Y R F Y I K P L M E R I F S E L K T E K V P R I M F G V G A
UniRef90_S2ZQ86 S W A G A L A P A E Y R H S V L P A S A K V F D A V A G Y G V P R I H F G V G T
UniRef90_G3ALW2 S W A G E L S G P D D F N E F S L P Y L K Q T A E K L P Y I P L T V F A K G A
UniRef90_Q8PUA8 P S A S S L I S A E T Y R E F A L P A H R R L A K E I S C P Q I L H I C G D S
UniRef90_UPI0003755F17 S W A G L L S P A L Y K E F A I P L V R Q I T E A L R E T P V T V F A K D A
UniRef90_B9L212 S W A G A L A P A V Y R D A V L P W T R R I V A A V R E V P V I V F S T G T
UniRef90_G4W926 T N A G V L P P H L Y E E F G A K Y M R M I A D L V K R P Q A L I V G F P K
UniRef90_UPI00038257CA S W S I P E P M F E K W V I E P T R A I V D K V R A K H A E T P I I G F P R L A
UniRef90_Q2RGP5 H A T G D L V I S G T C Y R D F L L P I H Q E M T R Q L N G P T I L H I C G N T
UniRef90_B2WCU5 S W C F K T F A L P Y L N H I A D N L P A R I K S K G L E P V P M T V F A K G A
UniRef90_K0AZE6 P L A S G N L I S P K Q F E E F V E P Y L R K T I D G L G K K P S L H I C G K T
UniRef90_P42503 S W A G S L Q D F E D F A V I E P A R V I T A E M K R R F P G L P V I A F P R E A
UniRef90_L8FW06 S W S F R Q F S Q P S Y L A Y I S A N L P K R L A E M Q L D P V P M I V F A K G A
UniRef90_W7UA58 S W A H Q L S P S Q F L K Y S K P Y A D K V T T I V D K E R H P E V P I F F
UniRef90_C1MGR1 S W A S E F C P S D F D K Y C L P Y L T R I V T E V K A T H L I L Y S S G S
UniRef90_Q8TSL7 S E A G P D I I A P Q M F E T S V L P L Y R K F C R E V P G L K I L H M C G D A
UniRef90_B4W1N7 S W A G Q L S P Q D Y D T F A L P Y Q R V V E Q V K A T H L I L Y I S G S
UniRef90_D9SZQ0 S W A G A L S E A D Y R R F V L P H S T Y V L G G L A D A G V I H F G V G T
UniRef90_H8G316 S W A G A L S V K D Y R T F V L P H S A A V L D G V A D Y G V P R I H F G V G T
UniRef90_UPI00047457D0 S W A G A L A P E D Y R N R V L P T P A S V K V F E A V A G Y G V I H F G V G T
UniRef90_W4DXZ3 S W V G A L A P R D F G Q Y V L P T I T R I F A E L S D L E V I Y F P G V S
UniRef90_S4NU11 S S A D H L T R E Q F I E F S V P Y L K D I R S G V K Q V P M T I F A K G G
UniRef90_UPI0004652983 S W A G A V A A Q D Y R E S V L P H T R R I F A E I E K L G V I H F G V G T
UniRef90_UPI00037E0189 S W G A L A D G A F Q E F S L Q Y S R L V L G A L R R E H A I L F T K G G
UniRef90_B7RJR6 S W A G S L S G F Q K Y A L E P A R E T Q E L K K R H P G I P I I G F P R E A
UniRef90_M5G6W6 S W A S E L S P H A D F Q E F S L P Y L C I I A H R R V K P V P M I L F A K G A
UniRef90_T0E369 P I A S S T M I S E K K F V E F A K P Y L K K C M N R I G G T T L H I C G R T
UniRef90_A9FZW7 S W V G S L S L D D Y R E H V Q P H V R Y I L R D L E A T G V P V I H F G V N T
UniRef90_UPI0004750CAF S W V G A L A P A D Y R R S V L P H S A K V F E A V A H H G V P R I H F G V G T
UniRef90_B1ZV06 S W G I I I A G P D Y E A A S L Q W I R R I V I T A L P R D F P I I L Y A K G T
UniRef90_K9AH10 S W V G A L S E K D Y A Y I K P S M D K L V R G I K E N D V P V I L F G V G A
UniRef90_A8FMU8 S W A S A L E Y D F F E F S F N Y M L E I S N F I K S K Y P N I P V I L F P K
UniRef90_R9GLD3 S W A L A L S W D D Y R E F A H Q Y N V R I L A G L N R K D I P V I S F C K G S
UniRef90_C7NV72 T Y A G V L S P P A A Y R E F I Q P L H R E I L T D I D V P T I L F Y R N M
UniRef90_K9YRV0 S W A G Q L S P Q D Y E F A Q P Y Y Q K R V I E K V K Q T H L I L Y I S G S
UniRef90_C7DFQ7 S W A G S L H G D D F A Q Y S I A P M R K I T S A L K S A Y P D V P I I A G A G
UniRef90_F4XK12 S W A G E L S P Q D Y E T F A L P Y Q Q R V V Q Q V K A T H P T P F I L Y I
UniRef90_M1VB11 S W A G Q L A P S D Y E D E F A G P Y L N R L V R E V K A S H L I L Y I N Q
UniRef90_UPI0003775D9E S W A G A L S A A D Y R A S V L P A S T K V L A S V I E H Y G V P R I H F G V G T
UniRef90_C6WBD4 S W A G A L S E R D Y R T F V L P H S T R V L E S I T G V P R I H F G V G T
UniRef90_D5V0S0 S W A A A I E P A K Y D E F S W K Y M V E I A D Y L K E K Y P H I P I I M F P K
UniRef90_Q5YTA5 S W A G A L S P A D Y R A F V L P H S E R V F T E I A D A G V I H F G V G T
UniRef90_UPI00039B8123 S W V G A L A P E D Y R R H V M P A S V K V F R S V A D Y G V I H F G V G T
UniRef90_UPI000477C447 S W I L G S L S P S D Y R Q Y V F P T M R R I F E N L Q G I G A P M I Y F G I N T
UniRef90_UPI000380442A S W G A L N K N D Y G Y V L S P S M N R I I D A V R K L G V P V I V F G I G A
UniRef90_I4C816 P T S S P D L L S P K A Y E K Y V L P A V R K V V T N V D G Q T V L V H V C G N T
UniRef90_K9X9L7 S W A G E L S P Q D Y E T F A L P Y Y Q Q R V F Q Q V K Q T H L I L L V S G S
UniRef90_A6DBT3 S W S A L S E K E K F E F S W N Y M K E I A K N L K Q N Y I P V I G F S K
UniRef90_R9TBQ7 P S A S T D M L S T E M F D E F A L T Y T K H A F E G S G D A K K H I C G N T
UniRef90_K1R4Q6 S N A G E L G P A L F N K F G L T Y L R Q L A J Y G V K H V P M T V F A K D V
UniRef90_C5CLI6 S W G G V L A D G A F Q Y T A R V L A G L Q R N G A D G Q P V P R I V F T K G G

UniRef90_UPI00042A99A9 H F A L E E L A Q A G Y E V V G L D W T V A P K K A R E R V G K T V T L Q
UniRef90_S3XDB8 S A Y L D K L D G N F D V V G L D W S T P L A L A R D L S H K Y T L Q G N
UniRef90_R9C7E7 S H L A L E W N D L P L D V V G L D W R L P I S E A A R K M G I T T K A V Q
UniRef90_D5XD4 D N I I L D I A R T L G C S A I S V E P V V D V P A L A K F R A E M G I T T I G A
UniRef90_J9HVD0 G E L L G D F A E T G A N V I S V D W R V P L S R A R A R V G N Q V A L Q G N
UniRef90_C7N394 R S V Y E Q V A K S C A N A L S F D A V V P L I K E S A R K N L P G R V V M G N
UniRef90_M0LG28 S G N L D L L A K S G A D V V G L D W T V D L E S A H E K Q L A D E D V A I Q G N
UniRef90_L0KX26 T M S I E L M E S S G V D G I S I D Q S V D V A T A K S K V K K A V I V G N
UniRef90_UPI0003FDF9A G A G L L T E R Y T G D A V G L D T T V P P S D A A R A L L Q S P K A A V I Q G N
UniRef90_N1J9C1 H A L L D S L C N I G Y Q V V G L D W L Q D P G S D A I K L R G S R P I V F Q G N
UniRef90_C8PUE6 G L W L D T Q C H S G A D A V G L D W T M P L S D R A R S I L V F E Q Q K A I A L Q
UniRef90_F7XMG9 L P I L D A L S E S G F D G I S L E E S I D L S Q A S E I I S G R A I I A G N
UniRef90_J8QEE6 S H L A N E W N E L P L D V V G L D W R L S L D E A R A R G I Q K T V L Q
UniRef90_F7HR87 H F A L E E L S Q A G Y E V V G L D W T V A P K K A R E R V G K T V T L Q
UniRef90_M2XBG7 S H Y L E R M A S V G F D V I S L D W T V D I G E Y A R E R I L G S H V I S I Q
UniRef90_Q8CW15 G Q W I K E I A K S G C D V I A L D W S V D I E Y A R K Q V I N G K I A I Q
UniRef90_R71832 S V W L K D I A S C G A D A V G L D W T M N L A R A R E E V K D R V A L Q
UniRef90_E8TTN3 W L Q D M K A L D C F V L G L D W T A N L G Q A R A I V G G S A G P G K A L Q
UniRef90_K2GMR4 P H L L G D W D E L P I D V V G L D W R T S I T E A R E M G I P L Q G N L D
UniRef90_M1LTC8 S L W L K D I V K S G C D A I G L D W T I D M S E A R H I T S D A V A L Q
UniRef90_H6C835 W Y A L D E L C D S G Y D V V G L D W L H D P A E A V K I A R G R V T L Q
UniRef90_A0A017HK21 G A G P R Y H A A T G A D C I A L D D G V T P E W A A E H V V Q P A G C V Q G N
UniRef90_D5XB31 N K I V Q Y M V E C N A H A I S V E T R N D L V R T R Q D I G N G P L V F G N
UniRef90_F5LJQ4 S G E L L P L L K G D L Q A D V I G L D W R V S L P E G R R R T G G R F A V Q G N
UniRef90_K9SK53 A G I L D R M P K T G V D I V S V D W T V D M A E A R Q R L G P G I K V Q
UniRef90_M3CIR8 W Y A L D R L C Q T K Y N V V G L D W L H D P K E A Y A I A Q K H G K V V Q G N
UniRef90_D6W7F3 H Y C L A E Q A D L P L G Y E V V G L D W T L E P Q V V R T L K G K N V T V Q G N
UniRef90_N0AMN8 S H L A L E W N D L P L D V V G L D W R L P I E Q A R Q M G V N K T V Q
UniRef90_V9IDZ3 T I N S L E L L A K S K T Y E V L G L D W T I D P I E A R K K F G S E I I L Q G
UniRef90_R7UAN9 S R F L K Q I T S L G Y N V I G V D W S V S A E A A R E L V G S D V V L Q G N
UniRef90_UPI00036D3412 S G E L L P T L R D L E A N V I G L D W R V S I T E G R A R I G S K F A V Q G N
UniRef90_I4F0Z8 G E L L P L I G D A G A D V V G V D W R V P L D E A A R R V G P G Y S L Q
UniRef90_A4BPL5 G L W L E A L A G V G A N A I G L D W S V D I A A A R Q R V G E R V A L Q G N
UniRef90_R8BME9 W Y A L D S M C D S A Y N V V G L D W L V D P A D A T K I R G D R N T V L Q G N
UniRef90_E6R1J3 N A P S T F S S D P A H T G Y A T L G L D W T V D P V E V R E I V G K V N L Q
UniRef90_K2L8K3 L H L T D F K Q Q T G V D A V G L D S G V P L K W V A K K L G P L G P V Q G N
UniRef90_A6CB18 P A L L G L Q R Q A G G Q V F G V D W R I N L S D A W E L F G S D V A I Q G N M
UniRef90_W9GIV6 G E L L S L M G S A G A E V V G V D Y R V S L T D A T E R I G P D H A V Q G N
UniRef90_A0A016P9G0 W Y A L D S A C N L G Y N V V G M D W L H D P K E A V K I R G D R N I V F Q G N
UniRef90_UPI00036A020A S G E L L P L L S L G K A D V I G L D W R V S I T E G R H R L G D K F S V Q G N
UniRef90_W2EL51 G E L L G V M G E A G A D V V G V D W R V P L D E A A L R V G A G K A L Q
UniRef90_UPI0004723075 T H L A L E W N D L P L D V V G L D W R M P I S E A R D K G I G K A L Q G N L D
UniRef90_S2ZQ86 G E L L G L M G E A G A D V V G V D W R V P L D E A A R R V G P G K A L Q G
UniRef90_G3ALW2 W Y A L D D L C N A G Y D T V S L D W L Y R P E D A V K V N G R I T L Q G N
UniRef90_Q8PUA8 S K L L P Y I K Q S G L D C F S F D T V P V W Y C R Q V I G N D M S I L G S
UniRef90_UPI0003755F17 W F A L S K L D A S P C Q D V I G L D W T Q N P A D L R K S L K T D K A F Q
UniRef90_B9L212 A G Y L D V L A D T G A D V I G V D W R I E L D R A W N A I G A R A I Q G N L D
UniRef90_G4W926 D M P L A S F N D S S Y D G I G L S W T A D V Q E M R E R F P N K T L Q G
UniRef90_UPI00038257CA G A M L P E F V A R T G V N A V S L D T G V P L S W A E H V V Q S Q V C V Q G N
UniRef90_Q2RGP5 T D R L D Y I A Q A G F N C F H F D S K V N P R Q A H E I V N G R I A L T G S
UniRef90_B2WCU5 W Y A L S D L C N D T N Y N T I G L D W L H A P A E A Y K V A Q A K G V L Q G N
UniRef90_K0AZE6 K N I W R L R N F N I S T F S V D N C E D I E E L K K S I G D K V S I L G N
UniRef90_P42503 G Q G Y I G F A E K G A D C V A I D N S V S P D W A A E N V Q K G K T C V Q G N
UniRef90_L8FW06 W H A L E A L C D L G Y D V V G L D W L Q D P A A A V K I R G D R S V V F Q G N
UniRef90_W7UA58 G H G A S S F L E L Q G D M A A D M I C L D W Q V D M A T A R R T L G A K P V S
UniRef90_C1MGR1 G G L L E R L K T T G A D V I S L D G T V D M A D A R A R L G M D Q A V Q G N
UniRef90_Q8TSL7 T F V L D P L A D A G F E G I S I E E K V G V S F A K G L V G S R V C L I G N
UniRef90_B4W1N7 A G I L E R M G K S G V D I I S V D W T V D M A E A R Q R L G Y K M N V Q G N
UniRef90_D9SZQ0 G E L L G A M G E A G A D V V G V D W R T P L D V A T G R I G P D K A V Q G
UniRef90_H8G316 G E L L P D M R E A G A D V V G V D W R L P L D E A A R R V P G K P A P V V Q
UniRef90_UPI00047457D0 G E L L G L M Q A G A D V V G A D W R V P L D E A A R R V G P G K A I Q G N L
UniRef90_W4DXZ3 S G E L L P S L T K L Q A D V I G L D W R V S I T E G R R R L G G G Y A V Q G N
UniRef90_S4NU11 G H S L D V Q A E M G Y E T I G L D W T V D P V E A R K T V G N I T L Q G N
UniRef90_UPI0004652983 G E L L G P M G E A G A D V V G V D W R V P L D E A V S R V E P G K A L Q G
UniRef90_UPI00037E0189 G P W L R E M S E S G A D A L G V D W T V N L G R A R E L V G Q R V A L Q G N
UniRef90_B7RJR6 G Q Y I G F H R A T G V Y D C V A L D N S V S A E W A A A N V Q V D G C V Q G N
UniRef90_M5G6W6 N Y A L E L A I T G Y D V L G L D W C I D P L V A R H L V G D S V A L Q G N
UniRef90_T0E369 K K I W G H M V D T G I A N L S L D N I D D I G E L K E A Y G D K V C L I G N
UniRef90_A9FZW7 G A L L E A Q R D A G G T V I G V D W R T P L D K A W Q R V G Y D R A V Q G N
UniRef90_UPI0004750CAF G E L L G L S E A G A D V V G A D W R V P L D E A A R R V G G K T V Q G N L
UniRef90_B1ZV06 A P Q L M D Q A F C G A R V L S V D W T N D L A I V R R T L P G N V A V Q G
UniRef90_K9AH10 H H L L H Q W N E L P L D V L G L D F R T P I T K A R Q M G V N K T L Q G N L E
UniRef90_A8FMU8 G I S G Y L D R I D G N F D V F G V D W S T P L D L A R M K L S H K Y T L Q G N
UniRef90_R9GLD3 S V F A S M M A E A K P D V I S V D W N A D L L D I K K M L P K G I A V I Q G
UniRef90_C7NV72 G G R L D Q L A A T A G A D V V S L D W T V E M D T A R E Q L R G D R P V V Q
UniRef90_K9YRVO A G V L E R M G N T G F D I S V D W T V D L A E A R Q R L G K G V K V V Q
UniRef90_C7DFQ7 E K Y G N L H T A I G A D C I A L D D G V S A D W A A K N V Q T G G C V Q G N L
UniRef90_F4XK12 S G S A G V L E R M G Q S G V D M V S V D W T V D M A E A R T R L G D K M K V Q
UniRef90_M1VB11 S H L L E R M R E T G V D V V S V D W T I D I G E A R S R L G P R V A V Q G N
UniRef90_UPI0003775D9E G E L L R M F G E A G A D V V G V D W R I P L D V A A T R V G P G K A L Q G
UniRef90_C6WBD4 T E L L P A M R E A G A D V V G V D W R T P L D V A V R R M V Q D L P P V V Q
UniRef90_D5V0S0 G V P A F L D K V Y G F D V F G V D W G T P M A L A K E K L G D K Y V L Q G N
UniRef90_Q5YTA5 G E L L G A M G E A G A D V V G V D W R V S L T E A A R R V G P G K A L Q G
UniRef90_UPI00039B8123 G E L L G L M G E A G A D V V G V D W R V P L D E A A S R V G P G K A L Q G
UniRef90_UPI000477C447 G E L L P V W K E L A G V D V I G V D W R V P L D A A R A R V G T K F A L Q G N
UniRef90_UPI000380442A S H L I P E W N S L D M D V M G L D W R T S I E E A R A L G V G K A L Q
UniRef90_I4C816 D R I I H M M C D T G V A G I S V E E K T D L K K A V E I A H G K G V K V F G N
UniRef90_K9X9L7 A G L L E R M A Q S G A D I S V D W T V D M A D A R T R L G N M K V Q G N L D
UniRef90_A6DBT3 G V G L Y P D M D G E F D V I G V D W S V P M D Y S L G I F K D N Y T L Q G N
UniRef90_R9TBQ7 T A L L D H M I N T G V D A L S I E E K V D S A E A V N I V N G R V A L V G N
UniRef90_K1R4Q6 H F A L E D L S N S G Y D V V S I D W T I K P T H A R R L V G S Q V T L Q
UniRef90_C5CLI6 G L W L E A M R E L D C E V L G V D W T V N L S A A R R L V G E G T D A K A L Q

UniRef90_UPI00042A99A9 G N L D P C A L Y A S E E E I G R L V Q H M L D E F G Y I A N L L G H G L L Y P D M
UniRef90_S3XDB8 M E P C R L Y S K D A I K E S V E K I V K T M K G K S H I F N L L G H G L L P D D I
UniRef90_R9C7E7 G N L D P A V L L L A G N V S V I E E R A K T I I E K G G F L F N L L G H G L L P D D V
UniRef90_D5XD4 I D P V N T L Y H A P V S V E K R E E T R A C M A K G G F S M I S P G G C A V L P P A T V
UniRef90_J9HVD0 F D P A M L F A P I D V I D K L A Q D T L D E G G S Y V F N L L G H G L L V K P A S T
UniRef90_C7N394 N V S T F A I E L K D A E R V R S L T R M C M N D D A G H I T A P A G C G L G D M R N T
UniRef90_M0LG28 L D P A L L Y G D P E T V I R D R D V I D D A G H I L N L L G H G L L G D M R N T
UniRef90_L0KX26 L D P V N V L W N K T P E F I K E K S K E V L D A G V S L L A P G G C G I V S K T T
UniRef90_UPI0003FDF9A D P V F L L T G G A P M L R A A D A I V D A L G R G P F V F N L L G H G L L Q K T
UniRef90_N1J9C1 A D P G V L Y G S H A S I T K V V E D M V G R G F W I V N L L G H G L L T P R V
UniRef90_C8PUE6 G N L D P A T L F A S P E S I I R Q T H L M L D K T G Y I A N L L G H G L L I N Q W V
UniRef90_F7XMG9 V S A Y R T L L S T S P E N V I K E S R Q C L E K D V D I L A P S C G I A P R S
UniRef90_J8QEE6 G N L D P A L L L S D S W S V I E A K T K E L D D Q G N F I F N L L G H G L L T P R V
UniRef90_F7HR87 G N L D P C A L Y A S E E E I G Q L V K Q M L D D F G Y I A N L L G H G L L Y P D M
UniRef90_M2XBG7 G N L D P A I L L L G T P E L I E K R T L E I I E K A G H I M N L L G H G L L Y P D M
UniRef90_Q8CW15 G N M D P F E L Y G S F S S I E E E T N K I L S K F G H I F N S L L G H G L L Y K N D T
UniRef90_R71832 G N L D P A V L L S D E K T V R E E A R L V L D Q G G H I V F N L L G H G L L D L N T T
UniRef90_E8TTN3 G N I D P N V L F A P E I A A Q A R A V L D S F G H I F N L L G H G L L S P E H I
UniRef90_K2GMR4 P A V L L S E W D V I E S R A K S L D E G L K Y G P H I F N L L G H G L L S P E I
UniRef90_M1LTC8 G N L D P L A L L G D H S L L R A E A R N I I E N G G H I V F N L L G H G L L T P S T
UniRef90_H6C835 G N A D P G V L Y G S H E A I T A V V E N M V R G F G W I V N L L G H G L L T P G V
UniRef90_A0A017HK21 A S P H L V T G G A A L I E E T R V V R A F A N G P H I F N L L G H G L L T P D A
UniRef90_D5XB31 I D G F G V L V K G T P E E V E Q E V I K C L R N G V D A L W P G C E I S L K A
UniRef90_F5LJQ4 L D P Y L L T A P M P V I Q E H A K R L I D Q G G Y I F N L L G H G L L E P E A
UniRef90_K9SK53 G N L D P C V L F G K Q D Y I R D R I Y Q T I R Q R G H I M N L L G H G L L L S T T
UniRef90_M3CIR8 A D P G V L Y G G H E A I T K V V E E M V S G F G W I A N L L G H G L L T P W V
UniRef90_D6W7F3 L D P C A L Y A P K E E L I A L V H K M V E E F G Y I V N L L G H G L L Y P D A
UniRef90_N0AMN8 G N L D P A I L L A P W E V I E E K A K A I L D D Q G G Y I F N L L G H G L L Y P Q V
UniRef90_V9IDZ3 N F D P C A L Y G S E Q E I S R A Q D M A L K F G R Y I A N L L G H G L L P D T
UniRef90_R7UAN9 L D P A V L Y S S K E G I R E A T T R M L E G F G Y I A N L L G H G L L F K D E A
UniRef90_UPI00036D3412 L D P F L L T A P T H V L E E R A R I D E G I Q Q G Y I F N L L G H G L L F P E A
UniRef90_I4F0Z8 G N L D P A V L L A D R E T V D R E V R R V V E Q G G H V F N L L G H G L L P D E T
UniRef90_A4BPL5 L D P C V L Y A A P A V I R R E V Q R V L E A P G H V F N L L G H G L L H P E V
UniRef90_R8BME9 A D P G V L Y G S K E S M Q Q V V K E L V D G K G W I F N L L G H G L L T P F V
UniRef90_E6R1J3 G N F D S T V L Y G G K E G I E K E V E R L S A G G G W I A N L L G H G L L T P N V
UniRef90_K2L8K3 D P M Y L I T G G D E M I D E T R R I L D V L R D G P F I F N L L G H G L L T P E T
UniRef90_A6CB18 D P I V L Y A E L P V L K Q K A K A V L D A A A D G R G H I F N L L G H G L L M P D M
UniRef90_W9GIV6 L D P A L L F A P W E V L R D I V V E I V D E G G H I F N L L G H G L L P D V
UniRef90_A0A016P9G0 A D P G V L Y G T K E A I T K A V E E M V E N G F G W I A N L L G H G L L T P G V
UniRef90_UPI000360A20A L D P Y V L T A P M K V I Q E R A K V I E G M Q N P G Y I F N L L G H G L L F P E A
UniRef90_W2EL51 G N L D P A V L L A P W E V V E E R A R E V L E R G G H V F N L L G H G L L P S E T
UniRef90_UPI0004723075 P A L L L A P W E V L Q K K V M S L D E G M Q P G Y I F N L L G H G L L F P E V
UniRef90_S2ZQ86 N F D P A V L F A P K D A V E A K A R E V L D S A G H V F N L L G H G L L M P A T
UniRef90_G3ALW2 I D P G V M Y G S D E V I A K K V E K M I H G F G Y I I N F A H G T H P F M
UniRef90_Q8PUA8 L D V I D L M N G T P E Q V Y N R T R E C I L Q G R D I V G T A C G V S Y G T
UniRef90_UPI0003755F17 G N L D P C Q L Y A P G E K V A E A T K K M L T G K R H I A N L L G H G L L Y P D T
UniRef90_B9L212 P A W L L A P A E D L R K A A R D V L D R A A G R P G H I F N L L G H G L L P E T
UniRef90_G4W926 N M D A H I L Y A N K D A I R K A T H E M V K E F G Y V A N L L G H G M E P R M
UniRef90_UPI00038257CA M D P H L V V A G G Q P M V D E A R I L D K L K G G A H I F N L L G H G L L P Q T
UniRef90_Q2RGP5 I N N P K T L F N G T P D D V R R E V F A N C E A G I E I S P E C A V I P L R T
UniRef90_B2WCU5 A D P G V L Y G T R E S I T K V V E E M V A G F G W I A N L L G H G L L T P F V
UniRef90_K0AZE6 I D P V S I R S G T I D D V D K A V K C L I E K A G Y I V G S G C D I P S H A
UniRef90_P42503 L D P S Y M V T G G Q E V E A T K K V A A F K N G P H I F N L L G H G L L T P E A
UniRef90_L8FW06 A D P G I L Y G T K D A I T C A V T K M V D G F G W I A N L L G H G L L T K T V
UniRef90_W7UA58 G N V D P T V L L G P E G I V A A V D E C V R G G H I L N L L G H G L L I K T T
UniRef90_C1MGR1 M D P V S L F G S K A H I T E R V L D T I K K A G H I V M N L L G H G L L M Q G T
UniRef90_Q8TSL7 V S P S D T L L A K G P E E V I E A R A C L E R D G I D I L A P G C G L A P H T
UniRef90_B4W1N7 M D P G V L F G S Q D F I R D R I L D T I E K R G H I F N L L G H G L L P G T
UniRef90_D9SZQ0 N L D P T V L L A G W P V V E T E V R R I V E Q G G H V F N L L G H G L L P E T
UniRef90_H8G316 G N L D P A L L F A S W P V V E A E V R R L V A A G G H I F N L L G H G L L P N T
UniRef90_UPI00047457D0 D P A V L F A P R E A V R V G A A D I L R A A D G E H I F N L L G H G L L P Q T
UniRef90_W4DXZ3 L D P Y L L T A P M D M L K A R A K E L I D E G G Y I F N L L G H G L L F P E A
UniRef90_S4NU11 L D P Q D L Y L K T P E E I K K L T I E M T Q K F G Y I A N L L G H G L L P Q T
UniRef90_UPI0004652983 N L D P A I L F A P W E T V E H R A R D V L A R G G H I F N L L G H G L L P S T
UniRef90_UPI00037E0189 L D P T V L F A P P E R I E H E V R A V L E A A G H I V F N L L G H G L L S Q F T
UniRef90_B7RJR6 A S R H M V T G G Q D L V D E T R A I V K A F S K G P H I F N L L G H G L L T P D A
UniRef90_M5G6W6 I D P D I L Y G K E A I Q R E V K R M C A S F G W I A N L L G H G L L T P G V
UniRef90_T0E369 V D P V D T I M R G S I E D I Y K E A K E C I R K A G F I L S T G C D V I G T
UniRef90_A9FZW7 L D P L L L C A P R A V A E R A R L L E A G G R A G H I F N L L G H G L L I P E T
UniRef90_UPI0004750CAF D P A V L F A P T A V E E Q A A K V L D A A A G P G H I F N L L G H G L L P D T
UniRef90_B1ZV06 N L D P V L L N T T P A I V Q R E T A R L L E S A G H I F N L L G H G L L P Q A
UniRef90_K9AH10 P A V L L A P W P V I E E R L K E V L D Q G L A E G P H I F N L L G H G L L F P E V
UniRef90_A8FMU8 M E P C R L Y D K N A I K E G V E I L K T M Q N K A H I F N L L G H G L L P D I
UniRef90_R9GLD3 N L D P H I L Y A D K K V I R E R I V K L H E R N G F I F N L L G H G L L M P D L
UniRef90_C7NV72 G N L D P S V L F A G P E T V R R E R T V E I E A A G H I L N L L G H G L L H Q D T
UniRef90_K9YRV0 G N I D P G V L F G S Q D F I R D R I L D T I E K R G H I L N L L G H G L L P G T
UniRef90_C7DFQ7 A S R H M V T G G D A L V A E T R K I V D A F S G G P H I F N L L G H G L L T P D A
UniRef90_F4XK12 G N I D P G V L L G S Q A F I R D R I L D T I R K A G H I L N L L G H G L L P G T
UniRef90_M1VB11 M D P A C L L G S R E L I Q R R A Y E I I G K T G H I M N L L G H G L L P E T
UniRef90_UPI0003775D9E N L D S A V V F A P W E A V R A K T D E V L A A G G H I F N L L G H G L L P N T
UniRef90_C6WBD4 G N L D P A L L F A G T P A L E R E V D R I V E E G G H I F N L L G H G L L P D T
UniRef90_D5V0S0 M E P C R L Y S K E A T T M C V E A L Q N I M Q G D G H I F N L L G H G L L P D V
UniRef90_Q5YTA5 N L D P A V L F A G P R A V E A H A R R I L G A A G H I F N L L G H G L L P D T
UniRef90_UPI00039B8123 N L D P A V L E A P R E A V E K K T R E V L A A P G H I F N L L G H G L L P T T
UniRef90_UPI000477C447 L D P A V L L A P W P V I E E K K R E I L D L G G Y I F N L L G H G L L F P E V
UniRef90_UPI000380442A G N L D P A L L L A D W E V I E K Q T K E L D Q G G H I F N L L G H G L L F P E V
UniRef90_I4C816 V G T S S T L F M G S P E E C Y K E A V A L E N G V D F L A P G C G I A P Q S
UniRef90_K9X9L7 P G V L F G S K E F I R D R I Y D T V R K A G N R H I F N L L G H G L L P E T
UniRef90_A6DBT3 M D P T R L Y S K S A T K E A V I K I A K I M K G H R H I F N L L G H G L L P D V
UniRef90_R9TBQ7 L G S V K P L Y M G T P E E C A A D A A R L R D A G F N I A P G C G L A A E T
UniRef90_K1R4Q6 G N L D P C M L Y S T K D E L K H A V K D M V T K G F Y I A N L L G H G L L A R D T
UniRef90_C5CLI6 G N I D P N V L F A P P A Q L I E A E V A K V L Q A F G H I F N L L G H G L L S Q F T

UniRef90_UPI00042A99A9 D P E H V G A F V D A V H K H S
UniRef90_S3XDB8 P V E N A K Y F I N L V H E L S A
UniRef90_R9C7E7 D P A V L K R L T G F I H E Y S G
UniRef90_D5XDX4 R I E V L K A I V E T V Q E
UniRef90_J9HVD0 D L G V L R H L V E T V H A Y
UniRef90_C7N394 P S E N V R A V L E T V R E
UniRef90_M0LG28 P V E N V E A F F E T A K
UniRef90_L0KX26 P N A N L Q T M V E M A R
UniRef90_UPI0003FDF9A P P E H V A A L V R H L R R
UniRef90_N1J9C1 N P E D L R F F F Q E I R R R
UniRef90_C8PUE6 N P D H A K A F I D A V H E Y
UniRef90_F7XMG9 P I K N L K A L V R A R D E Y S
UniRef90_J8QEE6 N P D T L R K L T A F V H D Y S
UniRef90_F7HR87 D P E H V G A F V D A V H K H S
UniRef90_M2XBG7 P E E N V T K F F Q T V Q Q Y
UniRef90_Q8CW15 P P E N V N F L I E S V H N L S
UniRef90_R71832 P V E L V Q A L V D E V H H Y S
UniRef90_E8TTN3 P P E H V A A L V E A V H G H S
UniRef90_K2GMR4 K P E T L R K L T E L V H T Y S
UniRef90_M1LTC8 D P D A V A E L I E E V H S Y S
UniRef90_H6C835 N P D N L K F F F E E V H R
UniRef90_A0A017HK21 S I D N V H R M I D T V R E
UniRef90_D5XB31 P L E N L R A M V R A V E K H
UniRef90_F5LJQ4 S L D K L K E L T D F I H A Y S A
UniRef90_K9SK53 P E E N A A F Y F E T V K S Y S
UniRef90_M3CIR8 N P D D L K F Y F Q E I H R L S G
UniRef90_D6W7F3 P T E S L Q T L V E T V H E Y S A
UniRef90_N0AMN8 N P D T L T R L T N F V H E Y S A
UniRef90_V9IDZ3 P I A S V T A F I E G I H H V S
UniRef90_R7UAN9 A I P N V R Y F L D S V H E V S
UniRef90_UPI00036D3412 S L D T L K H L T D Y I H A Y S
UniRef90_I4F0Z8 D P G V L T H V V E L V H E L S A
UniRef90_A4BPL5 D P D H V S A M J E A V H E F S
UniRef90_R8BME9 K P D D L K F L L E E V H R
UniRef90_E6R1J3 K P E D M G W F L E C H K Y S
UniRef90_K2L8K3 S P E N V G K L V D F I R N Y
UniRef90_A6CB18 N P D H V K A L V E M V H E
UniRef90_W9GIV6 D P D V L T R V T E L V H E V S
UniRef90_A0A016P9G0 N P D H L K H Y F E E I H R
UniRef90_UPI000360A20A S L D K L R E L T T Y I H E Y S A
UniRef90_W2EL51 D P D Q L A R L T D L V H E A S A
UniRef90_UPI0004723075 D P E T L K R L T A F I H E Y S
UniRef90_S2ZQ86 D P D A L T R L A E Y V H T H S A
UniRef90_G3ALW2 K P E R I E Y F L K Q C H K Y G S
UniRef90_Q8PUA8 P L E N L R A Y V R A C K E
UniRef90_UPI0003755F17 P L E G V R A F I Q T V H R Y
UniRef90_B9L212 S P D A V A I L V E F V H E Y S A
UniRef90_G4W926 D P E H A K A F I Q S I K E A S S
UniRef90_UPI00038257CA P P E N V A L L S E T I K N F
UniRef90_Q2RGP5 P N A N L K A L V T A V E E Y
UniRef90_B2WCU5 K P D D L K F Y F E E I H R
UniRef90_K0AZE6 P I E N I K A V T E A V K K Y S S
UniRef90_P42503 N P D N V T L L M E T I R K
UniRef90_L8FW06 N P D D L K F Y F E E L R R L T A
UniRef90_W7UA58 P E D A V R L F V D T A K
UniRef90_C1MGR1 P E E N V A H F F Q T V K D Y
UniRef90_Q8TSL7 P L E N I K A L F R A R D E F Y S
UniRef90_B4W1N7 P E D N V R F F F E T A K Q
UniRef90_D9SZQ0 D P E V L T R V V A L V H E L T A
UniRef90_H8G316 D P E V L T R V V E L V H
UniRef90_UPI00047457D0 D P A A L T D L V A Y V H E Q S S
UniRef90_W4DXZ3 S L D T L K E L T D Y V H E Y S A
UniRef90_S4NU11 P L E S M T V F T E S V H E
UniRef90_UPI0004652983 D P D V L A R L A D L V H E A S A
UniRef90_UPI00037E0189 P A E H V G V L V R T V H E H S
UniRef90_B7RJR6 D P D N V Q L M I D T V R E
UniRef90_M5G6W6 S T E D M G H F L S C V H K Y S
UniRef90_T0E369 N P E N I K A L M D A A R I Y G A
UniRef90_A9FZW7 P V D T V K A V I D L V H
UniRef90_UPI0004750CAF D P D A L T R L T A F V H E R T A
UniRef90_B1ZV06 R L E C V E A L V T T V
UniRef90_K9AH10 K P E T L R K V A S F V H E Y
UniRef90_A8FMU8 P V E N A K Y F I K L V Q E S S A
UniRef90_R9GLD3 P F D H V K Y A V D V I K
UniRef90_C7NV72 P I E S V E A F V E T A K
UniRef90_K9YRV0 P E D N V R H F F E V A K Q
UniRef90_C7DFQ7 D P E N V Q L M I D T V R
UniRef90_F4XK12 P E D N V R F F F E T A K K
UniRef90_M1VB11 P E E N V L E F F R L V R G Y
UniRef90_UPI0003775D9E D P E V L T R I V A H V H E V S A
UniRef90_C6WBD4 D P D V I T K A V E L V H R
UniRef90_D5V0S0 P V E N A I H F V K E C Q R V S
UniRef90_Q5YTA5 D P G V L T A L V E L V H E
UniRef90_UPI00039B8123 D P D A L T R L V D F V H
UniRef90_UPI000477C447 K V E T L K R L T E F I H R Y S S
UniRef90_UPI000380442A S P D T L K K L T A F V H Q Y S
UniRef90_I4C816 P I E N I L Q L R K A R D D Y
UniRef90_K9X9L7 P E E N V A F F F E T A K
UniRef90_A6DBT3 P V E N A K Y F V D L C K E V S
UniRef90_R9TBQ7 P K A N I E A F V K A I K
UniRef90_K1R4Q6 D P E N V R T F V D S V H I Y S
UniRef90_C5CLI6 P P D H V A A L V Q A V H

UniRef90_B5HCK4
UniRef90_D3BN73
UniRef90_UPI00037A00A2
UniRef90_A9SST2
UniRef90_V6IXT8
UniRef90_UPI00037AF3B9
UniRef90_S2ZD41
UniRef90_H5WTL6
UniRef90_E2S9A2
UniRef90_A4EE64
UniRef90_U5N9R6
UniRef90_Q72L31
UniRef90_A6DLM9
UniRef90_E3PR77
UniRef90_UPI0003A6C95B
UniRef90_E4NIF6
UniRef90_O22886
UniRef90_UPI00036830B8
UniRef90_UPI000464C8FC
UniRef90_A5UKJ5
UniRef90_UPI000361ECCA
UniRef90_UPI00047AE439
UniRef90_F5XEW2
UniRef90_U21G4
UniRef90_G8M2A8
UniRef90_D7CJY8
UniRef90_UPI0004788403
UniRef90_UPI0002485402
UniRef90_J3HMK1
UniRef90_UPI0004764372
UniRef90_J3Q598
UniRef90_UPI00037D4F13
UniRef90_C3XME8
UniRef90_D7UZS3
UniRef90_UPI00036B36C7
UniRef90_C9SHG2
UniRef90_UPI0003DE9582
UniRef90_Q0AZU9
UniRef90_B6BVX5
UniRef90_UPI0003B59331
UniRef90_UPI000345F45C
UniRef90_S6ECJ1
UniRef90_U5WBG7
UniRef90_D4YKN3
UniRef90_HOUIF6
UniRef90_UPI0003B3407F
UniRef90_UPI0003B43492
UniRef90_G4MUB5
UniRef90_M5BUA4
UniRef90_A3TVL4
UniRef90_A2C141
UniRef90_A3SRQ0
UniRef90_UPI0003B46AB0
UniRef90_L8HH08
UniRef90_D3PZP7
UniRef90_E9DE73
UniRef90_M9SCQ9
UniRef90_UPI000468E865
UniRef90_B1VDH7
UniRef90_UPI0003B35F68
UniRef90_C1FE82
UniRef90_D2Z639
UniRef90_A7X3T8
UniRef90_G0GVZ3
UniRef90_E7QPI0
UniRef90_A8L0K0
UniRef90_R6WVJ4
UniRef90_K5BK31
UniRef90_UPI000376167B
UniRef90_G9PRZ6
UniRef90_Q4JVB8
UniRef90_S5SSA6
UniRef90_UPI000361E661
UniRef90_G2NY36
UniRef90_I4C208
UniRef90_E8V1C0
UniRef90_UPI00047AD321
UniRef90_V5AIN6
UniRef90_R6SL78
UniRef90_UPI00046863EE
UniRef90_A4RRD3
UniRef90_R4X7Z8
UniRef90_C5WDG4
UniRef90_H2CIJ8
UniRef90_M1X1V4
UniRef90_C5E0G5
UniRef90_Q6NJJ4
UniRef90_I0EQR0
UniRef90_G7WGI3
UniRef90_W5Y5J3
UniRef90_F8DXL2
UniRef90_UPI00040EBCF3

1 10 20 30 40
T Y D S A F L K A C R R E E P V P H T P V W F M R Q A G R Y P E Y L K V R G I V D
K N D L L L R A A R G H E A L E R D P P V W M M R Q A G R Y E F K E V R A V D
L L L R A A R G H E A L E R D P P V W M M R Q A G R Y Q M Y R D L R A D K S
L L L R A A R G E A L E V D R P P V W M M R Q A G R Y Q D L C Q K H P T
N D V F L K A C R K E A T V P Y T P V W F M R Q A G R Y Q E Y R A I R R Y S
R F L E A C K R R A T D V R P V W F M R Q A G R Y M Y R K E I R R A H S
M N R R Q L L L R A A R G E T P D H T P V W F M R Q A G R Y P E Y R K L R G V G
N D C F L R A C L R Q P T T H T P L W L M R Q A G R Y N A T R S R A G S
F L R A A R G E Q P D H T P V W F M R Q A G R Y P E Y L A L R A G V P
M A Q Q K T L L R A A L A G E T L P T P P I W M M R Q A G R Y K A T R A Q A G D
N D T F L R A C L R Q R T E Y T P V W L M R Q A G R F E Y R A L R A G S
L L L R A A R G E P T P R P P V W F M R Q A G R Y E Y Q A Y R K R Y T
L L L D T A L G K K C E R T P I W L M R Q A G R Y E Y R A V R K F S
E M T P K E R M D A F G R G E E I D R V P C C P F T G E S Y A T Y F G Y S
L I D A A A G R T P T R T P V W F M R Q A G R P E Y R R V R G I G
F L R A A R N E P V P H T P V W F M R Q A G R P E Y L K V R G I P
T S E P L L L R A V K G E V V D R P P V W L M R Q A G R Y Q T L C E K Y P S
R F L K P F K G E V L D V P P I W L M R Q A G R Y K A T R A E A G S
I L K A L A G E T Q A T P P I W M M R Q A G R Y K A T R A K A G D
M N L K E N L E N A L S G E D V E V K P V I S V T Q A G I E A M E Q T N A S
F L R A A R G E R T P R T P V W F M R Q A G R P E Y H E V R G A P
R F V R A C L R Q P V D R T P V W L L R Q A G R Y E Y M A V R K H S
F L A T C R Q Q S D D R V P V W F M R Q A G R P E Y R Q V R G I S
M T R R N L F L D A A F G R T P S R T P V W F M R Q A G R P E Y R K L R G T S
Q M T P K E R M E A Y N K G Q I D R L P C V P I V G N T A A R V I N A K
T P R E R M E A L A E G K K V D R L P V C P I L G E Y P S V V V G V P
T A N A P L I Q A Y R G Q R P D R L P V W F M R Q A G R P E Y R E L R G V A
F L A A V R G E R P S R R P V W M M R Q A G R P E Y R E L R G V A
M T D R K V M K V L R G E T V F P P P I W M M R Q A G R Y E Y R E L R K G S
F L D A V A G R K P T R T P V W F M R Q A G R P E Y R E L R G I P
K N D L L L R A S R G E K T E R S P V W V M R Q A G R Y E Y R K A K S H G
M T L K K K L K A L A G E V L D T P P I W M M R Q A G R Y E Y R E T R A G D
F I D A C F K K H T P Y T P V W F M R Q A G R Y E Y K A V R K G D
S N D L F L R A A R R K K V E R L P A W Y M R Q A G R P E Y R A L K K Y S
K N S L F I D S A F S R K T E R P P V W M M R Q A G R F E Y W E L K K Y S
K N D L L L R A A R G E V T E R P P C W I M R Q A G R Y E Y H E A K G T D
K N D L L L K A I R G E S T E R T P I W L M R Q A G R Y E F Q E I R K H D
E M T P L E R M A A F A A G K P Y D R L P C S S F S G E T A C H F I G T T
N D S F L K T L R L G K T S Y T P A W L M R Q A G R Y E Y R D T R K K S
N N T F L E A A R G N Y T G H V P V W Y M R Q A G R P E Y R K L K K Y S
L L L R A A R G E I L E R P P V W M M R Q A G R Y R D I R E K Y P S
K N D L L L R A A R G E L V E R P P C W I M R Q A G R Y E Y H D A K G G D
F V R A C R G R S V P H T P V W F M R Q A G R P E Y R K I R G V G
L T R A A L S E S V E R T P V W F M R Q A G R P E Y K K A R G I A
E M T P K E R M T A F A K G E P M D R L P C V L N A G V T M S S I G A T
M T S R E R V L A A L R N E P T D R T P I C N P T S V A T V E L M D M L V E A P
M T P K E R V M S V I N H Q K P D R M P C F G A N S T V S Y D Q M D K V K A Y
K N D L V I R T A W G Q K V E R P P I W L M R Q A G R Y E Y H E A K G R D
T S W A E E F R E V R K S H
I L K A L R G E V Q K V P P I W M M R Q A G R Y R A T R E K A G D
L L L R A A R G E H V E R T P P P V W M M R Q A G R Y M Y R D L R H P S
M T R S D K I L R A A L A G E T L P T P P I W M M R Q A G R Y R A T R A E A G D
T P R D A L L R A A R R E E V P F T P V W F M R Q A G R P E Y R A I R D V S
K N D L L I R A A F G E K T E R V P V W V M R Q A G R Y E Y H E A K G A D
F L R A C R G E T P R T P V W F M R Q A G R P E Y R A L R A D T
K N D L L L K A A R G E K V Q R P P I W L M R Q A G R Y E Y H E A K G R D
M T P T R R A L A A V L G G R T D Y V P P A N P L A Q T T K D L M E F C G A T
F V D A C F G K P T S H T P V W M M R Q A G R Y E Y M E V R A G D
Y L A A V R G D K P S R R P V W M M R Q A G R P E Y R K V R G I P
F L T A M R R E R A P H T P V W F M R Q A G R Y E Y R A L R G R S
L L L R V A R G E Q A D R P P V W L M R Q A G R Y E F R E Y S K Y G
M T P K E R M T A F S K G E S M D R I P V V P D M G V T K S E F I G V T
N K N N T L L K M L K G E E T S H T P V W F M R Q A G R P E Y R K L K K Y S
K M T P A Q R A A K A K G E P A D R V A C N P N I A N G M A R I A G Y S
D L L V R A A R G E R T E R P P V W L M R Q A G R Y E Y R D I R Q Y T
F L R A A A G D R P D S V P V W F M M N A G R P E Y R A L R A T T
L T P K E R L K N I F E G E P V D R P A C I C M M N M I T D L M D E V K V Y
T R R E L Y L A A A H G R K P R R V P V W F M R Q A G R P E Y R E L R A K T
K N A P L L E A A N G R T P S R T P V W F M R Q A G R P E Y K K A R G I S
M T P A E R L Y A A A H L A A V D R P P C V C M M N M I V S D I M R E T G C T
F L A A A R G E T P S R R P V W M M R Q A G R P E Y R E I R K Y G
M T R R Q L L L D A A A G R T P T R T P V W F M R Q A G R P E Y K K A R G I T
M N S R E R F L T A V Q C G S L E R P P V W I M R Q A G R Y E Y R K L K S Y S
P K K L L L R A L A G E R T E R P P I W L M R Q A G R Y E Y H D V R A G G
M T P K E R V K K L L R R E P V D T M P V F S G M G M V T V Q A I D K M G I R
R F V R A C L R Q P V D R T P V W F L R Q A G R Y E Y M A V R K H S
V L E V L S G K P V F P P I W M M R Q A G R Y E Y R E T R A K A G S
N D T F I R A C L R Q S T T H T P L W L M R Q A G R Y E Y R E T R A K A G S
E M T P K E R K I A Y A R G E E V D R I P T S L S A G E T A P L Y G I S
M S Y N D T F I K A C R K E E V G H V P V W Y M R Q A G R Y D P A Y R K K Y S
L L R A A R G E D V E R P P V W L M R Q A G R P E Y M A E F R T K Y G
L L I R A A R G E D V E R P P M W V M R Q A G R Y E Y H K E K G L D
R Y L H A L L R L P V D V T P V W L M R Q A G R Y E Y K N I R K G G
L I Q A L K G Q K C N R P F W Y M R Q A G R Y E Y R D I R G R T
L L L R V A R G E V A H R P P V W L M R Q A G R Y M Y R N L R D K S
K N D L I L R A A R G E T V E R P P C W I M R Q A G R Y E Y H K A K G R D
F L D A A A G K T P H R P V W F M R Q A G R P E Y R E L R G V S
F L D A C F K E T P Y T P I W M M R Q A G R Y Q E T R T K A G S
M T P K E R M Q A F A Q G K P T D R I P C N P I M G E T L S S L I G R T
M T A K R R I L D A A L G R T P S R R P V W F M R Q A G R P E Y R E V R G I G
N P D A P L L A A A R G E K P T R R P V W M M R Q A G R P E Y R Q V R G I A
I L D A A A G R T P S R R P V W F M R Q A G R P E Y R Q V R G I P

UniRef90_B5HCK4
UniRef90_D3BN73
UniRef90_UPI00037A00A2
UniRef90_A9SST2
UniRef90_V6IXT8
UniRef90_UPI00037AF3B9
UniRef90_S2ZD41
UniRef90_H5WTL6
UniRef90_E2S9A2
UniRef90_A4EE64
UniRef90_U5N9R6
UniRef90_Q72L31
UniRef90_A6DLM9
UniRef90_E3PR77
UniRef90_UPI0003A6C95B
UniRef90_E4NIF6
UniRef90_O22886
UniRef90_UPI00036830B8
UniRef90_UPI000464C8FC
UniRef90_A5UKJ5
UniRef90_UPI000361ECCA
UniRef90_UPI00047AE439
UniRef90_F5XEW2
UniRef90_U21G4
UniRef90_G8M2A8
UniRef90_D7CJY8
UniRef90_UPI0004788403
UniRef90_UPI0002485402
UniRef90_J3HMK1
UniRef90_UPI0004764372
UniRef90_J3Q598
UniRef90_UPI00037D4F13
UniRef90_C3XME8
UniRef90_D7UZS3
UniRef90_UPI00036B36C7
UniRef90_C9SHG2
UniRef90_UPI0003DE9582
UniRef90_Q0AZU9
UniRef90_B6BVX5
UniRef90_UPI0003B59331
UniRef90_UPI000345F45C
UniRef90_S6ECJ1
UniRef90_U5WBG7
UniRef90_D4YKN3
UniRef90_HOUIF6
UniRef90_UPI0003B3407F
UniRef90_UPI0003B43492
UniRef90_G4MUB5
UniRef90_M5BUA4
UniRef90_A3TVL4
UniRef90_A2C141
UniRef90_UPI0003A3SRQ0
UniRef90_UPI0003B46AB0
UniRef90_L8HH08
UniRef90_D3PZP7
UniRef90_E9DE73
UniRef90_M9SCQ9
UniRef90_UPI000468E865
UniRef90_B1VDH7
UniRef90_UPI0003B35F68
UniRef90_C1FE82
UniRef90_D2Z639
UniRef90_A7X3T8
UniRef90_G0GZV3
UniRef90_E7QPI0
UniRef90_A8L0K0
UniRef90_R6WLJ4
UniRef90_K5BK31
UniRef90_UPI000376167B
UniRef90_G9PRZ6
UniRef90_Q4JVB8
UniRef90_S5SSA6
UniRef90_UPI000361E661
UniRef90_G2NY36
UniRef90_I4C208
UniRef90_E8V1C0
UniRef90_UPI00047AD321
UniRef90_V5AIN6
UniRef90_R6SL78
UniRef90_UPI00046863EE
UniRef90_A4RRD3
UniRef90_R4X7Z8
UniRef90_C5WDG4
UniRef90_H2CIJ8
UniRef90_M1X1V4
UniRef90_C5E0G5
UniRef90_Q6NJJ4
UniRef90_I0EQR0
UniRef90_G7WGI3
UniRef90_W5Y5J3
UniRef90_F8DXL2
UniRef90_UPI00040EBCF3

50 60 70 80
M L E S C M R N P E L A V T E I T L Q P V R R H K V D A A I F F S D I V V P L K A M
F F T V C R N A D L L A V E I S T L L Q Q P V W R R F F K L D D G V I M F F S D I L V T P L Q A M
F R D R S E N A D L L A V E I S T L L Q Q P V W R A F K P D D G V I M F F S D I L T P L P Q A M
F R E R S E N A D L L A V E I S T L L Q Q P V W R A F K P D D G V I M F F S D I L T P L P T G M
F F E I S H H P E L A Q V T R L Q P V E K L G V D A A I L F A D I M T P L K A R M
L L E S C K K P E L A A A V T L L Q Q P V V E R R H D G V D A A I L F F A D I L V V P L K A A
M L E S C F N P E D M L A E V T L L Q Q P V R R R H G V D A A I L F F S D I L T V P L D A M
F M G L A T N P A F A T E V T L L Q Q P L E R R Y A L D D A A I L F F S D I L T V P L K A A
M L E S C F R T D M V V E I T L L Q Q P V R R R Y G V D A A I L F F A D I L V V P L K A A
F L S L C Y N P E L A A E V T L L Q Q P I R R Y G F D D A A I L F F A D I L L V P L Q A A
F L D L V S Q V E L A A E V T L L M P M E R F G L D A A I L F F S D I L V I P E A M
L P E L V Q N P E V A A E V T M Q P I V K A L G V D A A I L F F S D I T T P L Y G M
F L E M C M Q Y E N A V E V T M Q P I D I L D V D A A I L F F S D I L T P L L Y P
L D D Y N H S T E I T V D T I T R T F H M F R A D N C S I G P G L Q G I P E A M
M L D S C C F M P E L L A E I T L L Q Q P V R R R H K V D A A I L F F S D I V V P L K A A
M L D S C C M R P D D L A E I T L L Q Q P V R R R H K V D A A I L F F S D I V V P L K A V
F R D R S E N A D L L V V E I S T L L Q Q P W K V F K P D D G V I L F F S D I L T P L S G M
F L K L C Y N P K L A A E V T L L Q Q P I R R Y G F D D A A I L F F A D I L L V V P D A A
F L S L C Y N P E L A A E V T L L Q Q P I R R Y G F D D A A I L F F A D I L L V I G Q A M
W P E A H T N P E Q M A I L G S S L H E L A G L E C A R I P F G L T V E A Q S M
M L R S C L T P D V A R E I T M Q P V V R R H G V D A A I L F Y S D I M V P L Y A A
L L E I C A R T P E V A E V T T A A E R L G V D A A I L F A D I L L P L P T Y P M
M L D S C C F P E L V T E I T L Q P V R R R Y G V D A A I L F Y S D I M V P L K A A
M L D A C F Q P E M L A E I T M Q P V R R R H D V D A A I L F F S D I L V I P L K A A
V S E I R N N G K L L A K A H V R A Y R M F R Y D I R V F T D L Y V Q A E A M
V D R Y L H S P G L L A E A Q V R A F E V F G Y D S V G V G P D Y L G M A E A M
M L D S C C L R P E M A A E I T L L Q Q P V R R R H G V D A A I L F F S D I M I P L K L A
M L D S C C M R P D D L L S E I T L L Q Q P V R R R H D V D A A I L F F S D I L V V P L K A A
F L D L C Y S P D L L A V E I T L L Q Q P V R R R F G F D D A A I L F F S D I L V V P H A L
M L D A C F M P E L L A E I T L L Q Q P V R R R H D V D A A I L F F S D I L V V P L R A A
F F D I C R T P E L A M E V T M Q P I R R Y G F D D A A I L F F S D I L L V I P Q A L
F L S L C Y N S D L A A E V T L Q P I R R Y G F D D A A I L F A D I L L L P Q A L
F L S L C K N P E L L A S E V T L L Q P V E N Y G V D A A I L F Y K D I M S P L P E M
L F E I T H Q P E L C S Y V T R L P V E N Y G V D A A I L F C D I L V T G E A M
F L E M C K T P E I A A D V T M L P V D L L G I D A A I L F C D I L V T G E A M
F F A C C R S P T I A S T L T L Q P I D R F D L D A A I L F S D I L V I P Q A M
F F S I C Q T P E L A C E V T L L Q P I K R F D L D A A I L F S D I L V I P Q A M
V S E Y R H S A K L M A R V E T V T Y K M F G H D G A G V G G F L A L A E A M
F M D L C R N T S F A T E V T M Q P L E E Y Q Q N D A A I L F Y K D I L T P D A M
L V E I T H D P E L C A Y V T R L P V E Q Y Q N D A A I L F Y K D I M T P L P S I
F R E R S E I P E V A I E I S L Q P W K A F Q P D D G V I M F S D I V T P L P G L
F F E V C R D P E V A S E I T L L Q Q P V R R Y A D D A A I L F S D I L V I P Q A M
M L E S C R R P D D L V T E I T L L Q Q P V R R R H G V D A A I L F F S D I V V P L A A A
M L D A C L M P E L T A E I T L L Q Q P V R R R H G V D A A I L F F S D I L V V P L K I A
C K Q Y V F D P D V M V E T A T A M F N Y R H D S V G I S I T L R G M A S E A M
F P Q A N R E P E L M A R L A T A G Y T E L Y R F D D T I M P V F T L I Q E S A E A M
W P E G H E K A D V M A K Q A M A A H T V L L G F D A V R V P F C Q T F E A E A L
F F E C C R D P E V A S T L T L L Q P I D R F D L D A S I I F F S D I L V I P Q A M
F F E I C R T P E L A T E I T L L Q Q P I R R Y S L D A S I I F F S D I L V I P Q A M
F L S L C Y N P D L A A E V T L L Q P I R R Y G F D G A I L F A D I L L L P Q A L
F R E R S E N S D L A S Y E I S M Q P F T A F Q F D D G V I L F F S D I L T P L P G M
F L S L C Y N S D L A T E V T L L Q P I R R Y G F D D A A I L F A D I L L V P Q A L
M L E S C C R T P D L V T E I T L L Q Q P V R R R H G V D A A I L F F S D I V V P L M A V
F F T V C R N K E L A S T I T L L Q P V E R F H L D A A I L F T D I L V V P Q A L
M L T A C R T P D M L R E I T M Q P V R R R H G V D A A I L F S D I V V P L A A V
F F E C C R D P E V A S T L T L L Q P I E R Y E I D A A I L F S D I L V I P Q A M
W P K A H R D P V M M A D L A A A P Y E V C G I E A A R P Q F D I S L E A E V L
F L S L C R D P E L A C E V T L L Q P M D I L G V D A A I L F S D I L V V P M E M
M L D S C C F M P D L L A E I T M Q P V I R H D A D A A I L F S D I V V P L K A A
M L E C I R T P D L A A E I T M Q P L K A F N V D A A I L F N D I L T P L P T M
F R H R S E T P D L L A E I S L L Q P W R A F K P D D G V I M F S D I L T P L P A A
T K E Y Y H S A E K M A E L E I A L F D Y L H H D S I G I S T T L R G M A E A M
L F D I T H Q P E L C A Y V T H L P V D N Y H T D A A I L Y K D I M T P L K P
I S Q F N D D P E A L A D A I K T Y R R F G A D G A R I T D L F L V S E A M
F K E A I K N P E V A E R T I T L L P W E L F E P D G L V M F S D I L T V L E
M L D S C R N A D M V T E I T L L Q P V R R R F P D D A A I L F F S D I L T V P L A A V
L P E A H N D A R Q M A E I A K A V Y E K G C F E N Y G V P F C M T V E A E E M
M M Q A C F D A D L I T E I T L L Q P V R R R H G V D A A I L F S D I V V P L R A A
M L D S C C F M P E L L A E I T M Q P V R R R H D V D A A I L F F S D I L V V P L R A A
W P E S H L D P A K M A S L T R A L C Q N G G F E N Y G V P F C M T V E A E A L
M L E S C F N P E L L A E I T L L Q P V R R R H D A D A A I L F S D I V V P L K A A
M L D S C C F M P E L L A E I T M Q P V R R R H D V D A A I L F S D I V V P L K A A
F T E M V K S P E L A T E V T M Q P L R R Y D L D A A I L F S D I L V I P E A L
M V G L C N S P E H A V E I T L L Q P L R R F T L D A A I L F A D I L P Q I A A A L
F A S V H G S A E N L A K S A T Y S A D I L F G F D S V I V P Y D M C T I P E A M
L L E I C R N P E V A S E V T T A A E H L G V D A A I L F A D I L L P L P T Y P M
F L D L C Y N P D L A F E V T M Q P I R R R F G F D A A I L F S D I L V V P H A L
F M G L A T N D Y A T E V T L L Q P L A E F P L D A A I L F S D I L R T V P D A M
I R D Y Y S A D A M V E S R L A E D F Q A D N M G M G L R T V E A L
L L E I C L Q P E L A A E V T M L P I H K L G V D A A I L Y S D I M N P V A
F R H R S E T P E I A A E I S M M Q P W R A F K P D D G V I M F F S D I L T P L P A L
F F Q T C R D P E V A S N E I T M Q P V D R Y E D A A I I F F S D I L V I P Q A L
F M S L Y K N S D L A S E V S L Q P L R R Y P L D A A I I F F S D I L T I P D A M
F L D M S T N A D I A Y E I T L L Q P H R R F Q N D G L I L F A D I L T P L H A C
F R E R S E I P E V A I E I S L Q P W K V F Q P D D G V I L F S D I V T P L P G L
F F E I C R D A E V A S E I T I Q P V K R Y A L D A A I I F F S D I L V I P Q A M
M L D S C C F R P D M L A E I T L L Q P V R R R H D V D A A I L F S D I V V P L K A A
F L E L C K N S P E L A T E V T L L Q P V E I L D V D A A I L F S D I L V V P L E M
T Y E V Y H D P E V Y A D L E I A L F R K F R H D A V G V G I G L R E V A E A M
M L E S C C F M P E L L A E I T L L Q P V R R R H D V D A A I L F S D I V V P L K A A
M L D S C C F M P E L L A E I T M Q P V R R R H D V D A A I L F S D I V V P L K A A
M L D S C C F M P E L L A E I T M Q P V R R R H D V D A A I L F S D I V V P L K A A

UniRef90_B5HCK4
UniRef90_D3BN73
UniRef90_UPI00037A00A2
UniRef90_A9SST2
UniRef90_V6IXT8
UniRef90_UPI00037AF3B9
UniRef90_S2ZD41
UniRef90_H5WTL6
UniRef90_E2S9A2
UniRef90_A4EE64
UniRef90_U5N9R6
UniRef90_Q72L31
UniRef90_A6DLM9
UniRef90_E3PR77
UniRef90_UPI0003A6C95B
UniRef90_E4NIF6
UniRef90_Q22886
UniRef90_UPI00036830B8
UniRef90_UPI000464C8FC
UniRef90_A5UKJ5
UniRef90_UPI000361ECCA
UniRef90_UPI00047AE439
UniRef90_F5XEW2
UniRef90_U21G4
UniRef90_G8M2A8
UniRef90_D7CJY8
UniRef90_UPI0004788403
UniRef90_UPI0002485402
UniRef90_J3HMK1
UniRef90_UPI0004764372
UniRef90_J3Q598
UniRef90_UPI00037D4F13
UniRef90_C3XME8
UniRef90_D7UZS3
UniRef90_UPI00036B36C7
UniRef90_C9SHG2
UniRef90_UPI0003DE9582
UniRef90_Q0AZU9
UniRef90_B6BVX5
UniRef90_UPI0003B59331
UniRef90_UPI000345F45C
UniRef90_S6ECJ1
UniRef90_U5WBG7
UniRef90_D4YKN3
UniRef90_HOUIF6
UniRef90_UPI0003B3407F
UniRef90_UPI0003B43492
UniRef90_G4MUB5
UniRef90_M5BUA4
UniRef90_A3TVL4
UniRef90_A2C141
UniRef90_A3SRQ0
UniRef90_UPI0003B46AB0
UniRef90_L8HH08
UniRef90_D3PZP7
UniRef90_E9DE73
UniRef90_M9SCQ9
UniRef90_UPI000468E865
UniRef90_B1VDH7
UniRef90_UPI0003B35F68
UniRef90_C1FE82
UniRef90_D2Z639
UniRef90_A7X3T8
UniRef90_G0GZV3
UniRef90_E7QPI0
UniRef90_A8L0K0
UniRef90_R6WLJ4
UniRef90_K5BK31
UniRef90_UPI000376167B
UniRef90_G9PRZ6
UniRef90_Q4JVB8
UniRef90_S5SSA6
UniRef90_UPI000361E661
UniRef90_G2NY36
UniRef90_I4C208
UniRef90_E8V1C0
UniRef90_UPI00047AD321
UniRef90_V5AIN6
UniRef90_R6SL78
UniRef90_UPI00046863EE
UniRef90_A4RRD3
UniRef90_R4X7Z8
UniRef90_C5WDG4
UniRef90_H2CIJ8
UniRef90_M1X1V4
UniRef90_C5E0G5
UniRef90_Q6NJJ4
UniRef90_I0EQR0
UniRef90_G7WGI3
UniRef90_W5Y5J3
UniRef90_F8DXL2
UniRef90_UPI00040EBCF3

90 100 110 120
G I D L D I K P G V G P V V A E P I R T R A D L A R L R D L T P D D V L R
G L E V Q M I P G K G P H F P D P V R E P S E M S R V K Y P V D I K K E L Q
U N I P F D I V E S Q G P I I D P P I R T A A Q A D V A K V R H D L D P P E T A V P
U N I P F D I V E S Q G P I I D P P I R T A A Q A D V A K V R H D L D P P E T A V P
G I E V E L V E G V G P V L N Q P I R S G A D F A Q W K Q L D P P A R D D L G T
G L K V E F V A G E G P S I D N P I S A P E D I D D L S T D N T E H H E I T R
U N I G V N L D I V P G R G P V L L E H P I R T L S D V Q A L P T L A K L R
G L G L S F A A G E G P R F A H P V N G E A E V K A L A V P D M A K L R
U N I G V D L D I V P G T G P V V A E P V R R P E Q L A Q L R D V E P D D V T A V T D
G A D L L W F V T G E G P R L A Q P V Q D D A A V A G L H V P T E A I H D T L N T
U N I G L G L S F L A E E G P R L A Q P V Q D D A A V A G L H V P T E A I H D T L N T
U N I G V D L S L V E N K G P V I H N P V R D E K G V E A L R P L V P E E A V P
U N I G F D L K F Y E E G R G P V I H N P I E N A E D V S R V V V P D V K K G S D
G A R L H F S K N D I P Q I A A P A I S S Y E E I S K L K P I N P Y K D G R L K
U N I G V A V D I V P G R G P V M E S P V R T G A D V A A L P R L D S P P L E P D D M P
U N I G I D V E I K A G V G P V I A D P I R T E A D L Q R L R P L E P D D M P P
U N I P F D I V K G K G P I I F N P P Q S A A D V A Q V R E F V P E E S V P
U N I G G Q V R F E E G E G P R K L D P V I R S A G D L K R L D L A A T S S K F S
U N I G S K L W F A E G E G P M S T I T D A A G V A G L R P A S D I H E T L A
U N I G A E V N L G N N E R T P E V T G T P F E S A D D I E A P D D F L E N G R I A P
U N I G I E L E I T P G V G P V I A E P V R T R A D V E R L P P E L D D E P A A L A S
U N I G V D F E F L A G E G P V V H T P V R T L D Q V R A L R T D R V P L T V E Q L S
U N I G I E L D I V P G T G P V I A E P I R S A A D V Q R I R P L T V E Q L S
U N I G V D V E I V P G R G P V M A Q P I R T P Q D V R D L P V L D D D I L S
U N I G A K R H C P Y D Q T A Y L E A P A I S D V S E I D S L P V D P Y R D G I L P
U N I G C R L R Y A P D Q R P Q M A T A V V E D E R S L S R L K P V E A E R D D G R L P
U N I G V D V D I K P N V G P V L G A P I R T A E D I A R L P E L E P D A Q L D A
U N I G V A V D I V P G R G P V M D H P V R T A A D I A A L P E V E P D A Q L A
U N I G R D L R F E E G R G P L M T P I D K D G I F W L E S A G A A D R L E P
U N I G I G V E L V P G R G P V M D K A L T T R S D V Q M L P I L L E S A G A A D R L E P
U N I G M E V I M N P G P I F P S P I T S T E Q M E M I N K T I L T P E E L K D S K L N
U N I G A D L W F V T G E G P R L A Q P V Q D D A A V A G L H V P T E A I H D T L N T
U N I G M D L G F F A G E G P K F A N P I S T Q D L I K L S D N A Y E K L V P
U N I G V D V E I K T G I G P V I A H P I R R Y Q D V E S L A A F D A K S Q V L P
U N I G G D L S F T Q G I G P R F A N P I K N E K D I D N L R V D V M D N L Q
U N I G M T V E M V D K K G P H F P S P L T G P E D P Q Y A S V M A V D L P A A E L D
U N I G L T V E M I P G M G P V L P K L D P T D L V R L I Q P N V E K E D L K
U N I G T E L K Y P E D N I P F V A N P V L K N W D D F D K L E P A D P H K D G K L P
U N I G L G L N F L P G E G P T F S N P L I D E S S V H K L D I P S M E K L S
U N I G V D V E I K P G I G P V I D R P I E T L A D V K R L G T L E P E K D I D
U N I G I E M D I A E G K G P I I S S P I R S Q Q Q V D A L K A L N P D E S L P
U N I G M T V E M M E G K G P H F P K P I R T K E D V Q K V L D Y E V D V L K E L D S
U N I G V D L D I V P G T G P V V A E P I R T A A D V A A L G T L E P G D V S
U N I G M D V E I Q P G I G P V F A Q P V R T R E D L A R I P D L T A D M C E
U N I G S V M N Y P E D N I S L L E K P V V E K P E D V D N L T V D D A H K D G K M P
U N I G C K I Q W Q K P D N N W P T V K M R E P I W E D V D D I V I P D D Y L H P D T Q
U N I C P G K T P S G E S I P G I E H P P I Y K L D D T P E F P D D F L S R G R I P
U N I G M V V E M V D K K G P H F P N P L Q S P D D G Q Y A E V L A R D V D S K E L D
U N I G L V V E M H D G G G P F F P E P L V A P D D L D L R L H A R N D V D R E L G
U N I G A D L W F V T G E G P R L A Q P V Q D D A A V A G L H V P T E A I H D T L N T
U N I G I N F D I V E S K G P L I N D P I R S L K Q V K D L K P A A D V H E V L S
U N I G A D L W F V T G E G P R L A Q P V Q D D A A V A G L H V P T E A I H D T L N T
U N I G V D L D I V A G T G P V V A H P V R T R A D L E R L P E L T P E H V P
U N I G M E V I L M L E K A G P H F P H P L T S P D D L A K L D E P S A A L E R L N P
U N I G V D V D I V A G T G P V V I G P I R D M A G V E A L R D L T P E D V P
U N I G M T V E M V E K K G P H F P E P L K S P D D G Q Y E R V M K K V D V K A E L D
U N I G C R L D W N K P D R P P V T G P A Y K D P K D I S W D G G F Y K K G R A A
U N I G M E L K F V K G E G P L F P N P I K T M E D L D A L C I I E A A D K L E
U N I G M D V E I V A G R G P V M G E A V R T S E Q I A N I P D L E P D Q L G
U N I G L D L D F V G G V G P Q I A N S P I E T P A D V D R L G V P A T A E T M P
U N I G V I E F D V V K G K G P V I S N P V R T T E D L N R L K C L D D P D L S L P
U N I G S R I G Y P E D N I S Y L L E P V V K D F D D V D R L E P A D P R R D G K L P
U N I G V D V E I K S G I G P V I H N P I K T I Q D V I E K L S Q I D P E R D V P
U N I G A K V R K P E D N T A D L E E P A I N D M S E F D K K V I D P Y T Q G R I P
P L I G F D Y R I E S G V I G P V V I S N P V I T D P G D V P T E F A D V A T E I D
U N I G V D V D I V A G V I G P V V A H P V R A P S D L D V L R P L E P G D V P
U N I G A G V D M G T K I Y E P H V I E Y V M E S V S D Y E K L V P V D V T K G R A K
G T I E L D I V P D V G P V I E H P V R A R D D V R A L R P L D P D R V A
U N I G V G V E I V P G R G P V M D K A I E S R S A D V D A L P I L D H E V E E
U N I G A D V D M G D G E V E P H V V R S P L S A L E A D R L R P F D P D K G R P A
U N I G V D L D I V A G R G P V V I E H P V R T A E E V T A L P I V E S S Q L D
U N I G V G V E I V P G R G P V M D Q P V R T R A D I D N L P I L D H E V D E
G Q P Y H F R D G G G I G M D F I L E T K E Q I L E A L D E K N T G D K L L
U N I G Q T L E Y R V G D G P V L T P P I R S T S D I T E F L S A S R L H E E L A
U N I G R G C S T Y A D A E G I L Y P T V P T K W E N D V V Q I N A D W A K A R M P
U N I G L D F E F V N G E G P V V H A P I R T L E Q V Q A L R T D R A E I L S
U N I G R D L R F E E G R G P L M T P V I T A D D I H R L D G S D F H Q H L A
U N I G L G L S F A I G E G P K F E R T V R D E A A V N A L H V P D M A K L Q
G T K L E Y P E H S V S Y I E K P A L E T F D D L D H M E L I N V E K D G R F P
U N I S I G I D F D I V Q N V I G P V I H N P I R T S Q D I E R L R P I D V E K D L S
U N I G L E F D V V K G K G P V V T P V R T M D D V K A M K Q L D D P D S Q L P
U N I G M E V K M I D K I G P S F P D P I K S P E D L D K L R N C D E I D E A K E L G
U N I G L G L S Y Q D N S G P Y F N Y P I T C Q A D V D N L I I P D P E E D I G
U N I G V P L Y F E E K R G P L I D E R T I S K E E D L H L L E S F S P A E Q C P Y I G
U N I G I D M D I A E G K G P V L I D P P I R T K E Q V D N L K I L E P E E S L P
U N I G M K V E M L E G K G P H F P E P L R T K E D A Q K V L D Y K V D V L K E L D
U N I G V R V E I V P G R G P V M D H P L T R Q D I T R Q D I E N L P I L D H D V H E
U N I G L D L E F I P T K G P H F L Q T I T D L K S V E S L K S G A A K N L E
U N I G T K V I Y P P N N I S Y V A E P A L K D I R D V A K L P V N P Y Q D G K I P
U N I G V A V E I V P G R G P V M D K A I E S R Q D V D K L P M L E E E D V P
U N I G V E I D I V P G R G P V M A E A I R T P E Q I A A L P E V H I R E Q M E
U N I G V D L D I V P G R G P V V A E P I R T A A D I A A L P E F S P E Q V E

UniRef90_B5HCK4
UniRef90_D3BN73
UniRef90_UPI00037A00A2
UniRef90_A9SST2
UniRef90_V6IXT8
UniRef90_UPI00037AF3B9
UniRef90_S2ZD41
UniRef90_H5WTL6
UniRef90_E2S9A2
UniRef90_A4EE64
UniRef90_U5N9R6
UniRef90_Q72L31
UniRef90_A6DLM9
UniRef90_E3PR77
UniRef90_UPI0003A6C95B
UniRef90_E4NIF6
UniRef90_O22886
UniRef90_UPI00036830B8
UniRef90_UPI000464C8FC
UniRef90_A5UKJ5
UniRef90_UPI000361ECCA
UniRef90_UPI00047AE439
UniRef90_F5XEW2
UniRef90_U21G4
UniRef90_G8M2A8
UniRef90_D7CJY8
UniRef90_UPI0004788403
UniRef90_UPI0002485402
UniRef90_J3HMK1
UniRef90_UPI0004764372
UniRef90_J3Q598
UniRef90_UPI00037D4F13
UniRef90_C3XME8
UniRef90_D7UZS3
UniRef90_UPI00036B36C7
UniRef90_C9SHG2
UniRef90_UPI0003DE9582
UniRef90_Q0AZU9
UniRef90_B6BVX5
UniRef90_UPI0003B59331
UniRef90_UPI000345F45C
UniRef90_S6ECJ1
UniRef90_U5WBG7
UniRef90_D4YKN3
UniRef90_HOUIF6
UniRef90_UPI0003B3407F
UniRef90_UPI0003B43492
UniRef90_G4MUB5
UniRef90_M5BUA4
UniRef90_A3TVL4
UniRef90_A2C141
UniRef90_UPI0003A3SRQ0
UniRef90_UPI0003B46AB0
UniRef90_L8HH08
UniRef90_D3PZP7
UniRef90_E9DE73
UniRef90_M9SCQ9
UniRef90_UPI000468E865
UniRef90_B1VDH7
UniRef90_UPI0003B35F68
UniRef90_C1FE82
UniRef90_D2Z639
UniRef90_A7X3T8
UniRef90_G0GZV3
UniRef90_E7QPI0
UniRef90_A8L0K0
UniRef90_R6WLJ4
UniRef90_K5BK31
UniRef90_UPI000376167B
UniRef90_G9PRZ6
UniRef90_Q4JVB8
UniRef90_S5SSA6
UniRef90_UPI000361E661
UniRef90_G2NY36
UniRef90_I4C208
UniRef90_E8V1C0
UniRef90_UPI00047AD321
UniRef90_V5AIN6
UniRef90_R6SL78
UniRef90_UPI00046863EE
UniRef90_A4RRD3
UniRef90_R4X7Z8
UniRef90_C5WDG4
UniRef90_H2CIJ8
UniRef90_M1X1V4
UniRef90_C5E0G5
UniRef90_Q6NJJ4
UniRef90_I0EQR0
UniRef90_G7WGI3
UniRef90_W5Y5J3
UniRef90_F8DXL2
UniRef90_UPI00040EBCF3

Y V T E A M G M L T D E L G P T P L 140 F A G A P F T L 150 A S Y L V E G E N T K
Y V F D A L T Q L T R Q R V L E G R D A S T V L I G G F S G A P W F T L L S Y C S G M N H A K
Y V R T Q L L T T A L R E E V G N A S A V L V L I G G F V G G A P W F T L L A A Y A V V E G G K T S S K
Y V G T A L L T T A L R E E V G N A S A V L V L I G G F V G G A P W F T L L A A Y A V V E G G K T S S K
Y V L D T T E L L H Q Q L N A V P L V I G G F V G G A P W F T L L A A Y A V V E G G G P S S K
Y V G E A Q D T L V T K S L A G R V L V I G G F V G G A P W F T L L A A Y A V V E G G G P S S K
Y V A E A G I Q D T I T S E L E T E T Q A L I G G F V G G A P W F T L L A A Y A V V E G G G P S S K
Y V F D A V T S I R K A L N G R V P L I G G F S G S P W F T L L G C Y M V E G G S P S S K
A V T A L V G E L G S R E L P D E T T L L I G G F A G A P W F T L L A S Y L M I A E G G Q G T P
H V L D T V R A T R I A L A G K A P L I G G F A G S P W F T L A C Y M V E G S S G S R
F V L E T I R S A I R K K L S P V E K D L I G F A G S P F T L A S Y A J I E G G P S S V K
Y V Y D A L S A I R K K L S P V E K D L I G F A G S P F T L A S Y A J I E G G P S S V K
L Y I E A L K I V Q D K L S G N E V N I G N T V G G P F T T T A F L I I E G T E K F L
G L S E G I A G I L K R E L S P E K D L I G F A G A P F T L L A S Y L I I E G G E N T S K
Y V I T E A V L A G L V A S E L G A T P L I G G F A G A P F T L L A S Y L V I E G G E N T K
Y V G E A L R R L R N E V N N E A A L L I G F F G A P F T L L S S Y V I E G G E S S K
L V C E T I A R L R Q D L P A E T A L I G F C G A P W T V A T Y M V I E G G Q G G K G A H
P I Y E T V R L L S R E L P R E T T L I G F A G A P W T V A T Y M I E G G G K G A H
V V L E A I D I L K E K Y E D L P L I V G I T G P F T L T G H L G G E N V V
P I T E A V R L L A T A E L G E V P L I G F A G A P F T L L A S Y L V I E G G E R T K
Y V A K A L E R V A K H F A P Q L G I I G F A G A P F T L L A S Y M I E G G S S K
Y V T E A V R L L V A E L G E T P L I G F A G A P F T L L A S Y L V I E G G G P S S K
E V S E G I E I I L D E L T D S Q A L I G F F G A P F T L L A S Y L V I E G G S S K
Q H L E A M R I I A E E V G D D E V T V A G P V T G P F T T N A S F L I I E G G S E N L V
M Y L E A L K T I K D R V G D R V K V G S G V G G P F T L A A C L R G T E E F L
P I R E A V G G R V V A E L G T T P L I G F A G A P F T L L A A Y M V I E G G K P S S R
P I V E A V G G V L V A G L R G D Q T V L I G F A G A P F T L L A S Y L I I E G G K P S S K
P V Y E T V R L L R Q Q L P A E T T L L I G F C G A P W T V A T Y M I A E G G H G T R
E I A A G I A G V L A E L R A D D Q V L I G F F S G A P F T L L A S Y L V I E G G S S K
Y V Y E A K L T T A A L E N R L P L F G F V G A P W T L F A Y M T A G G R G T P
P V Y E T V R L L S K K L P E E T T L I G F A G A P W T V A T Y M I A E G G S T P
Y V Y E T S L T R Q K L A K D K A L I G F C G A P W T L A T Y M I E G G E P S S K
Y V L E T I K L L R E E Q L D V P L I G F F G G A P F T L L A S Y L V I E G G G P S S K
Y V A D A I K V I Q Q R L S G S I P L I G F A G A P F T L L M S Y L V I E G G S S K
Y V Y K A I T M T R H K L A G R V P L I G F C G A P W T L L C Y M V I E G G S S K
Y V G D A I T T R Y K L E A G R V P L I G F T G A W T L M S Y M I I E G G G S R
I Y L E A L A M I K D A I G D E V P I G S S V G G P F T T A A L V R G T E N F L
Y V F D A I R S I K D A I Q N R V P L I G F A G S P W T L A T Y M V I E G G K P S K
Y V L E T I K L L R Q Q L S V P L I G F S G A P F T L L A S Y M I E G G K P S S K
F L K T I L Q S L R S E V G N K S T V L I G F V G A P W T L A A Y A V I E G G K G S K
W A F R A I T T T R N K L E G Q V P L F G F C G G P W T L F V Y M T E G G G P S S K
Y V D E A V R L L V P L E G A T P L I G F F A G A P F T L L A S Y L I I E G G P S S K
A I A Q A V T L T R E G L P E D T A L I G F A G A P F T V A S Y L I I E G G P S S K
L V L D A L Q R L R D R I L G K E G N A V G A G M A G P F S V A A S V V G T E N L L
C A L L E A I K I L R K K E Y G D D V A I V G G K T M G P W S L G Y H C F G V I E P F L
Y V F K A I T L T R K K L K Q G R V P L I G F C G A P W T L F C Y M V I E G G G S K
Y V F D A I T M T R K K L K G E V P L I G F C G A P W T L M S Y M V I E G G S S K
P I Y E T V S L R S Q E L P P E T T L I G F A G A P W T V A T Y M V A G R G T P
P V G E V L G R N L R E S V G N K A A V L I G F V G A P W T V A A Y V I E A G K S S K
P I Y Q T L R R N L S G A L P S E T T L I G F A G A P W T V A T Y M I A E G G R T P
D I S E S V T R R L V A D L G A T P L I G F A G A P F T L A S Y L V I E G G P S S K
Y V F E A I T L T R E R L A G A R V P L I G F S G A P W T L M A Y M I E G G G S K
Y I T E A V G M L R E E L G A T P L I G F A G A P W T L A S Y L V I E G G P S S R
Y V Y K A I T L T R Q K L R G R V P L I G F C G A P W T L L C Y M V I E G G G S K
V V L D A I K I L R E R Y C G A D D A L I P V I T A P F T V A G H I M G V I E G K L V
Y V Y E T I R L I R G K L A A D K A L I G F C G A P W T L A T Y M I E G G Q G T K
P L V E G I E Q I L E R L R T D Q V L I G F A G A P F T L A S Y L I I E G G P S S K
Y T M E S I R S L R S Q Q L D P R I L I G F I G A P F T L A S Y A I I E G K G S K
F I F E L L S S L R S E V D G K S T P L I G F I G T P W T L A A S I I E G R S T K
L L L K A L E T I K D T L G D V A D I G A S M T G P F S V A S V I E G T E N L L
Y V L D T I K L L R D E E K L N V P L I G S F T G A P F T L A S Y M I E G G E P S S K
V H L R A I E I L V R D E I A S E V G V T A S V V G P F T N A S F L I I E G V I E K M T
Y V G D L L A R L Q S S I I G D E T S I I G F S G G P Y T L A S Y V V I E G D E P T R
Y V S E A V A S L V R E L Q T P L I G F A G A P F T L A S Y L I I E G G P S S R
V V T D A I R I L K E E T S E V P I V G N L T G P I S T A S S L M E P V I F Y
P V S A A V R Q L I T E L G E V P L I G F A G A P F T L A S Y L V I E G G P S S R
V V A D G I E I L D E A L T D Q V V I G F V G A P F T L A S Y L V I E G G P S S K
V V L E A I H L L K A A G D G V P V V I G N L T G P I S V A S T L V D M S S L L
S I V E G I G G V L Q G L R D D Q V L I G F A G A P F T L A S Y L V I E G G P S S K
V A D G I S I L D E L R D D Q A L I G F V G G A P F T L A S Y L V I E G G P S S K
Y M G K A L E S I R A T M G M D K A L I G F G G S P W T L A A Y M T E G G S L K
P I Y E T V R Q L T R A L P D E V T L I G Y A G A P W T V A T Y M V I E G R G V K
V V E D A L K M L V S E G K Y A V G G W V L G P F T L G G Q V I E G A D L L L
Y V A R A I E K V A A H F S E D Q L G I I G F I G A P F T L A S Y M I E G A S S K
P V Y E T V S R L R A K A L P T E T A L I G F C G A P W T V A T Y M I A G G H G T L
Y V F D A V T S I R T A L H G R V P L I G F S G S P W T L A C Y M V I E G G S S K
I I I E A F E R L Q E K Y G K E R G L I G S G A G P F T T A A S L I I G T E T F L
H V I K T I N L L E R E L S V P L I T F V G A P F T I A S Y L I E G K P S R T K
F V F E L I S T L R K E I E G Q S T M L G F I G S P W T L A A Y A M E D R G S S K
Y V F E A I K A T K L K L N D R V P L I G F C G A P W T L A A Y M I D R G S S K
Y V I N T V R T T N R A L A G E V P L I G F S G S P W T L A T Y M V I E G R T S S K
E T L T R L T A Y A S G Q S E R P A V L G F A G A P F T M A S Y L I I E G G T S S K
F I R T L Q S L S Q E I D S N K S T L I G F V G A P W T L A A Y A V I E G G K S S K
W A F R A I T L T R K K L D S G Q V P L F G F C G G P W T L L V Y M T E G G G S K
V A E G I S Q T R E E L L N D A Q T L I G F A G A P F T L A S Y L V I E G G P S S K
Y V Y A T I S Q T R K K L A K A K T L I G F C G S P W T L A T Y M I I E G G S S K
I R L I A L K M T R D A L F K E V N V S C G I P G P F T T A S G L L I E G T E N L L
E V A A G I E I L G E L S D S Q T L I G F A G A P F T L A S Y L V I E G G P S S K
P I A Q G I S Y I L E E L R D D Q V L I G F A G A P F T L A S Y L V I E G G P S S K
K V Q E G I S I L S E L T D Q Q A L I G F A G A P F T L A S Y L V I E G G P S S K

UniRef90_B5HCK4
UniRef90_D3BN73
UniRef90_UPI00037A00A2
UniRef90_A9SST2
UniRef90_V6IXT8
UniRef90_UPI00037AF3B9
UniRef90_S2ZD41
UniRef90_H5WTL6
UniRef90_E2S9A2
UniRef90_A4EE64
UniRef90_U5N9R6
UniRef90_Q72L31
UniRef90_A6DLM9
UniRef90_E3PR77
UniRef90_UPI0003A6C95B
UniRef90_E4NIF6
UniRef90_Q22886
UniRef90_UPI00036830B8
UniRef90_UPI000464C8FC
UniRef90_A5UKJ5
UniRef90_UPI000361ECCA
UniRef90_UPI00047AE439
UniRef90_F5XEW2
UniRef90_U21G4
UniRef90_G8M2A8
UniRef90_D7CJY8
UniRef90_UPI0004788403
UniRef90_UPI0002485402
UniRef90_J3HMK1
UniRef90_UPI0004764372
UniRef90_J3Q598
UniRef90_UPI00037D4F13
UniRef90_C3XME8
UniRef90_D7UZS3
UniRef90_UPI00036B36C7
UniRef90_C9SHG2
UniRef90_UPI0003DE9582
UniRef90_Q0AZU9
UniRef90_B6BVX5
UniRef90_UPI0003B59331
UniRef90_UPI000345F45C
UniRef90_S6ECJ1
UniRef90_U5WBG7
UniRef90_D4YKN3
UniRef90_H0UIF6
UniRef90_UPI0003B3407F
UniRef90_UPI0003B43492
UniRef90_G4MUB5
UniRef90_M5BUA4
UniRef90_A3TVL4
UniRef90_A2C141
UniRef90_A3SRQ0
UniRef90_UPI0003B46AB0
UniRef90_L8HH08
UniRef90_D3PZP7
UniRef90_E9DE73
UniRef90_M9SCQ9
UniRef90_UPI000468E865
UniRef90_B1VDH7
UniRef90_UPI0003B35F68
UniRef90_C1FE82
UniRef90_D2Z639
UniRef90_A7X3T8
UniRef90_G0GZV3
UniRef90_E7QPI0
UniRef90_A8L0K0
UniRef90_R6WVJ4
UniRef90_K5BK31
UniRef90_UPI000376167B
UniRef90_G9PRZ6
UniRef90_Q4JVB8
UniRef90_S5SSA6
UniRef90_UPI000361E661
UniRef90_G2NY36
UniRef90_I4C208
UniRef90_E8V1C0
UniRef90_UPI00047AD321
UniRef90_V5AIN6
UniRef90_R6SL78
UniRef90_UPI00046863EE
UniRef90_A4RRD3
UniRef90_R4X7Z8
UniRef90_C5WDG4
UniRef90_H2CIJ8
UniRef90_M1X1V4
UniRef90_C5E0G5
UniRef90_Q6NJJ4
UniRef90_I0EQR0
UniRef90_G7WGI3
UniRef90_W5Y5J3
UniRef90_F8DXL2
UniRef90_UPI00040EBCF3

170 180 190 200
A L M Y G D P Q L W A D L L D R L A E I T S A F L K V Q I E A G A S A V Q L F F D
L W L Y K Y K E E S H R F L K M L T D T V V G Y L I G Q I V D A G A Q L L V Q L F F D
S M A F S Q P A M L H T S L L G K L A E D N I A T Y V R Y Q I D C G A Q V V V Q I F F D
H M A F E T P A V L H S L L Q K L A E S V I I Y V R Y Q A D C G A Q V V V Q I F F D
N Y M Y T H P E D W A L L M D D L A D M T L N Y L Q A Q I R A G A Q A V V Q I F F D
T F M Y N D E T M W R L L A G K L V D V L G N F A A I Q V H A G I D A M Q L V F F D
N H M H N E P K T W A L L M E K I T A T V T A F L A T Q M H A G I D A M Q L V F F D
T M L Y S R P D L M H R I L D I N A Q A V T A F L N E Q I K A G A Q A V M V L F F D
Q M M Y A E N R P V L W H A L L G R I L A A I J A G Q Y L R L Q I V E A G A S A V V Q L F F D
D Q K S E N R P Q V F D G I L I N R L T E G T I A Y L R S K Q I D A G A E C G A Q L F F D
T M L Y R R P D L L N R V L R V N A D T V A S F L L N A Q I E A G A Q A V M V L F F D
A L M Y G E E A L W H R L M E K L T A E M A R Y L R A Q Q A E A G A D L V Q I F F D
N Y M Y T Q P K A Y D E L M M K I A E M T C Y Y L L E Q F K A G A Q L V Q I F F D
R D L R R N P D K I K E V L E I A T L S T L N V M D A I M D L G I T P G I A D F F D
A H M H T E P E T W H A L M E S L V H T V V A F L R Q Q I E A G I D M L Q L F F D
A M M Y G A P E L W A G L V D R L A Q I T S A F L R K I Q I E A G A S A V V Q I F F D
N F A F S Q P K V L H A L L Q K F T T S M T Y I R Y Q A D S G A Q A V V Q I F F D
L W A Y R D P E G F E Q L I D L L V T A S I D Y L D Q Q V K A G A D C L Q I F F D
A F K A A D R V A F A Q L L D R I A E A T V E Y L S A Q I D A G A E V V K I F F D
R Y M K T D P D E I E T A M E N C L D A S M D Y I E S I Q K H D A D V I C V F F D
A M M L G D P E T W N L A A K L A R M T S T F L R V Q A E A G V D A V V Q I F F D
R L M Y G D R T A W Q L L M E K L V E V L V G Y A A Q Q V E A G A D V I Q I F F D
D Y M V S E P E V W H D L C S R L A Q I S A T F L T A Q V T A G A R A V Q L F F D
N H M H S D P N T W H L M E K I T P T V T R F L Q T Q I T A G I D A M Q L F F D
R L I L K D P D K V H K L C E I S L E T C L R Y S K A I I D A G C T P S L T F F D
K D L I R K P A F A Y Q I L E I S T Q S I M N Y M Q A C F R L G V S C S L G E F F D
D H M Y A D P A A W D A L A S W A A R T S G K F L R A Q I E A G A S A G Q L F F D
D H M Y S E P Q L W H A L M A K L T T V I R F L R A Q I N A G A D A V Q I F F D
L F A Y R E P E A F K K L L D E L S D V S A E Y L R Q I N A G A D A V Q I F F D
S H M H S D P D T W H L L M R L V P T I V A F L R T Q L D A G I D A W Q L F F D
S W I Q I Q P Q L S S R L L E K L A R V C A L H L N Q I K A G C Q I V Q V F F D
D Q K P A H I L A F E N L I E I L T K A T I K Y L S A Q I D A G A E V V K I F F D
K M L Y Q N P E K L H E I L Q K I T Y N L K Y L L E Y Q I K A G V S N A V V Q L F F D
N Y M Y Q D E A T W F A L M D K L A T M T A D Y L S A Q I E A G A S A V V Q L F F D
D F I H N H P A L A H K L L S K I A T V T I D Y L N L Q I A A G V N A V V Q L F F D
K W V Y R H A D A A R A L L Q K I A D L C V E Y L A L Q V Q A G A Q A V M V F F D
E W L Y K Y P D D S H K L L Q L I A N V I I D Y L V M Q V K A G A Q V L L F F D
K D L R R N P E M A H R L L Q L V T N T T L N Y I D A V M D M G C S V S I G D F F D
K M A Y E R D D L M H H I L K L N A E T V S Q Y L A E Q I K A G A D A V M I F F D
N Y M Y S Q P D A W F A L M D T L G D M V I R Y A G A Q V E A G A Q A I I F F D
T M A F S D P T I L H Q L L S K L A D A I A T Y I C Y Q I D C G A Q A V Q M F F D
L W I N T Y P D I C H Q K K T A D V I E F L S Q Q V A G A I L L Q L V F F D
A M M Y G D P D L W N E L C G K L A D D I T L A F L R V Q V G A G V S A V L Q L F F D
N H M L G D P E L F S A I L G K L A H M S A T F I Q A Q L D A G A H A F S Q L F F D
R W M V K P P E V T H K V M D M T L C N E Q Y I K A V I G E L G F K G V S F S F F D
L L S L D D P G K T K J A L D R M K E A T V Q V G I A Q I E A G A D A I T L P D F F D
K A S I K K P D K I V P F L E V G V K A G A A L G K A L V D A G A D I I S C E D F F D
K W I F R H P E E S K K M L Q K I A E L C V E Y L A L Q V Q A G A Q L L V Q V F F D
Q W I F K Y P E E S K R L L E R I T K V C A D F L V G Q V K A G A Q L L V Q V F F D
D Q K A E N R A L F S A L I D L L T E G T I A Y L S R Q I D A G A E V V K L F F D
N M A F E N R P E L L H Q L L N H F A E S I A N Y L S Y Q I Q S G A Q V V Q M F F D
D Q K A Q E R P V F E A L L D R I T E A T I E Y L S A Q I D A G A E V I K L F F D
N H M H G D P G L W S D L C A R L A Q I S L A F L R V Q A D A G A S V V Q L F F D
M W F Y K Y P E A S H A L C G R L L A G I T A S F L E G Q V A A G A L L Q L F F D
T Y M H G A P D V W H A L C G R L L A G I T A S F L K V Q I D A G A N A V L Q L F F D
M F I Q S K T W Y L A L Q V A A G A Q V L V Q V F D S W A G E L S
M M T V T D P E K A H E A I D A A T D F C I E Y G R Q Q V A A G A H I L F P A D F F D
T Y I Y S N P K F M H A L L R K V T E V I K I Y M Q R Q I E N G V N A V M I F F D
N H M Y A E P Q L W H A L M E K L S P M I A H F L M Q R Q I E A G V D A I Q L F F D
R F M Y A P E P A A W A R L M G K F E A I L G D Y L E Q Q V R A G A Q A V V Q I F F D
Q I M N Q N P E F L H Q Y L A H L A D V L I V Y V C H Q I D C G A Q V V Q L F F D
K W M V R A P E K V H Q V M E V I T E S N D R Y I E A V A Q L G L G V G F C D F F D
N M M Y R D E A T W F A L M N H L V D V S V K Y I V T A Q V E A G A E L T I Q I F F D
K M L L K D P E S V H K L C E I S L Q S C I A L T D A V L E K G V G V T I F S E F F D
R F R T N H P E A F R D L L S M F T D V V E E Y V R Y Q V E Q G A D V V Q V F F D
N H M Y A E P A L W H D L L G R I L A D L T A A F L R V Q I E A G A D A I Q L F F D
K E L R K K K E A H A Y M E F V T D Q L I A F G K A Q I E A G A D V I A L F S D F F D
H H M L G D P D T W D A L M T L L T D V T I A F L R V Q L E A G V D A F Q L F F D
N H M H G D P D T W H A L M K R I V P T V K N F L R T Q V N A G I D A M Q L F F D
M E F R K R P E A C H R L L G I S D A L I A F G R A Q V K A G A D A V I C I A E F F D
N H M Y S Q P D V W H A L M R R L T P T I J R F L Q V Q A E A G V D A L Q L F F D
N H M H S Q P D D W H A L M R R L V P T I T F L R T Q V N A G I D M M Q L F F D
N C F Y E D R S L W F E T L M E K V T A L I D L F K M Q I A H G A D A L Q L F F D
Q W A L S D P E G F Q P L I D L L T A A T I E F L D R Q I Q A G A E A I Q L F F E F F D
K G I K K D A E R V H A F M E K M T K V V I E V A K R Y Q A L G I D Y I T I R E F F D
K L M Y S N G A A W Q L L M Q K I S V L V E Y A Q Q V E A G A D V I Q I F F D
D F A Y R E P A A M A L L L D T L A D H S A E Y L R Q V E A G A D V V Q I F F D
T L M Y Q R P D L M H R I L E I N A D A V A L Y L N T Q I E A G A Q A A M I F F D
K G T V K H K E Q A H K L L Q Y S D C V V K C C E D L H R K L G I G F T L S E F F D
Q L M Y S E P E L W K K L M D K L G D M L I T Y L K A Q I A A G A K A I Q V F F D
Q L M T Q D P E T L H A F L S K L A D A L G V Y V C H Q I D S G A Q V V Q I F F D
T F M R L H P E A S H D L L R R C A D A V A I P Y L L K Q V E A G A Q L V Q I F F D
K M I Y T V P Q T L H K M L H K L T Q A I I L Y L N A Q I Y A G V N A V I I F F D
K F M F G Q P E L F K K L C D R L V D M T V D Y L R Y Q F K S G A E A V Q L F F D
N M A F S D P N L L H Q L S K L A D A I S T Y A C Y Q V D C G A Q V L Q L F F D
M W I N Q Y P D I C H Q L L Q K T D V A T E F L S Q Q V T A G A Q I L Q V F F E F F D
N H M H Q D P E S W H L M R L V P T I V Q F L R T Q I D A G V N A M Q L F F D
K M L Y S E P K I L H A L L E K L V T E L I E Y L S I Q L Q A G V N A V M V F F D
K A L I K Y P E K V H E L M E I V E S N F R I D I A A E M G V G I G I A D F F D
N H M H A E P E T W H A L M R R L T P T I J R A F L K A Q I E A G I D A M Q L F F D
N H M Y S E P E T W H E L M R A L T P T I J R A F L Q M Q L E A G V D A I Q L F F D
N H M H S E P E T W D R L M R K I T P L I S G F L R A Q I D A G I D A I Q L F F D

UniRef90_B5HCK4 S W V G A L A 210 P A D Y R R S V M P A S E K V F E A V A S Y G V I H F G V G T
UniRef90_D3BN73 S W S G D L L S P D L F D E Y C L P Y L V D I A K R V K E V H M I C F A G S N
UniRef90_UPI00037A00A2 S W A G Q L L S P M D Y R T F S L P Y Q Q R V V Q Q H P S D T L L I L Y I S G S
UniRef90_A9SST2 S W A T H L L S P V D F E R V F S L P Y I K Q L V S A V K S T H L I L Y A S G S
UniRef90_V6IXT8 S W V G A L L G E K D Y Q I Y I A P T M A K I F T E L K K T G A V S L Y F A A G A
UniRef90_UPI00037AF3B9 S W V G A L L S P E D Y V R Y V Q P Y S R A L I E R V R T T P V I H F G T G V
UniRef90_S2ZD41 S W A G F L T E H D Y R E L V Q P Y S A Q I L E T A R D I P R I H F G V G T
UniRef90_H5WTL6 S W G G V L A D G A F Q E F S L K Y T T Q V V A G L Q R E P V I V F T K G G
UniRef90_E2S9A2 S W A G A L L A D D Y E R Y V R P H S A A V L E S V A D L G V P R I H F G V G T
UniRef90_A4EE64 S W A G S L Q G D D F T N Y S I K P M Q R I I A A L K E K H P G V P V I J A F P R
UniRef90_U5N9R6 S W G G V L S G A A Y E E F D L S P L R R V L S R L H R E Y R I V F A K G A
UniRef90_Q72L31 S W V G A L L S P A D Y R R Y V K P H M E R L E Q S L R P V P V I H F G V G T
UniRef90_A6DLM9 S W G G V L S R E D Y L K Y S H P Y T V K I I D F I K K K P V I H F V K G A
UniRef90_E3PR77 P I A S S T L I N K S V Y R E F V F P T I K T C Q D H I R K R M I M H I C G K T T
UniRef90_UPI0003A6C95B S W A G S L S A R E Y R E R Y V L P Y S R R I F S E V A D A G I I H F G V T T
UniRef90_E4NIF6 S W A G A L L A P D E Y R S V L P A S T K R V I F D A V A G V I H F G V G T
UniRef90_O22886 S W A T E L L S P V D F E E F S L P Y L K Q I V E A V K Q T H L I L Y A S G S
UniRef90_UPI00036830B8 T W A G P D D E F D R W V V A P T R A I R E A I K D L H P S D I P V I G F P G A G
UniRef90_UPI000464C8FC S W A G S L K G D D D F S E A P I A R I R E A L K A R H P S V P V I A F P R E A
UniRef90_A5UKJ5 P T A S P E L T D P L Q F K S M I K P N L E D L A D F T D V Q K V L H I C G S T
UniRef90_UPI000361ECCA S W A G A L S E R E Y R E S V L P H T T R A V E D S I G G E F G V I H F G V G T
UniRef90_UPI00047AE439 S W A G A L G V T D Y R E Y C L A P T T E L V R R V G V P V I H F G V G T
UniRef90_F5XEW2 S W V G S L S A A D Y R A S V L P H S A E V L E T I G Q Y R V I H F G V G T
UniRef90_U21G4 S W A G Y L T E R D Y R E F V L P Y S Q R I L E S V R E I P R I H F G V G T
UniRef90_G8M2A8 P M S S T V I S P L Q F K E F S F P Y L K R L I D Y I H S R V T H I C G K T
UniRef90_D7CJY8 P I A S C S V I S P R H F R Q F A K P Y C E W H R S C F G R S L S L H I C G T T
UniRef90_UPI0004788403 S W A G S L S L R D D Y Q E F V A P A S A T T L S A A K D L G V P L V H F G T G T
UniRef90_UPI0002485402 S W A G F L L R D Y R E F V A P Y S R Q I F D A V R P F G V P M I H F G V T T
UniRef90_J3HMK1 S W S G D E A C F E Q F C I A P V E K I V R K V R A V H P D V P I L G F P K G A
UniRef90_UPI0004764372 S W A G F L S A R D Y R E F V L P Y S Q E L M A E I A D Y Q V P H F G V T T
UniRef90_J3Q598 S W D F T H F S L P Y L R M V S T L V K E N L A Q E S I A P V M V F A K G A
UniRef90_UPI00037D4F13 S W A G S L K G D D F Y K Y A L E P T K K I V M E L P M V P I I A F P R Q A
UniRef90_C3XME8 S W A G A L S R E D A Y L E F G W K Y C K E I A D F I K D K Y P H I P V L F P K
UniRef90_D7UZS3 S W V G A L S R E D Y H Y I A L K P S R M I T T K V K A K H P Q I I M Q A V A A
UniRef90_UPI00036B36C7 S W A L S L S W D D Y K E F S H Q Y N V D I S K L N R K D V P V I S F C K G S
UniRef90_C9SHG2 S W E F A S F S E P Y L A H I A A H L P A K L R S L G L E D P V P M T V F P K G A
UniRef90_UPI0003DE9582 S W E F A S F S E P Y L A H I A A H L P A K L R S L G L E D P V P M T V F P K G A
UniRef90_Q0AZU9 P T A S G S L L L S V K Q F R E F A K P Y L S K L A D R V G K G P M L H I C G D S
UniRef90_B6BVX5 S W G G A L S H L E Y E K L S L N Y M K V I D N L G F G D V P K L I F T K
UniRef90_UPI0003B59331 S W V G A L N A A D Y R Q Y V K P V M T R I F A A L E G K N V P V S M F G V G A
UniRef90_UPI000345F45C S W A G Q L L S C P Q D Y E V F A L P Y Q Q Q V F R K V K E T H L I L L V S G S
UniRef90_S6ECJ1 S W G G E L S S A D F D E F S L P Y L K Q I A S K V H P V M I V F A K G S
UniRef90_U5WBG7 S W A G A L S E A D Y R D F V L P H S A R V L S G L Q D A G V I H F G V G T
UniRef90_D4YKN3 S W A G Y L N R A D Y E R Y V L P H S R T V F D A L I A H N N V P S I H F G V T T
UniRef90_HOUIF6 P V S T S L L K V K Q F K E F S L P Y L T R N I A H V K Q Y C M V H I C G T S
UniRef90_UPI0003B3407F H A T G D L L V S G E Y Y Q R Y L R D L H I E F V E R I P I P L I L H I C G R T
UniRef90_UPI0003B43492 M T A S P E M I S P N T Y R D Y A M D Y Q I R Q F D A I S V P K I L H I C G N V
UniRef90_G4MUB5 S W A G E L S P A S E Q F S A P Y L R Y I S E N L P K L D P V P M L V F P K G A
UniRef90_M5BUA4 S N A G D L S P H D F A N F S L P Y L K V H N P P I P I P M T L F A K G A
UniRef90_A3TVL4 S W A G S L S D F D D F A L A P A K R I I A E L K A R H P G I P V I A F P R Q A
UniRef90_A2C141 S W A G Q L L S P Q D Y D E F A A P Y Q Q K V V N L V K E K H M I L Y I S G S
UniRef90_A3SRQ0 S W A G S L N D E D F A A Y A L A P A Q R I I A A L K A R H I I A F P G A G
UniRef90_UPI0003B46AB0 S W A G H L S R A D Y L R H V E P H S R S V G M A Q S H P E V P R L H F G V G T
UniRef90_L8HH08 S W A N E I A G D D Y G F A T F S K P Y L Q T A R A L K
UniRef90_D3ZP7 S W A G A L S A G D V G M F V A P H S A A V L S A V A R P G V P R I H F G V G A
UniRef90_E9DE73 P A S F S E F A L P Y L R Y I A A N L P K R V V E L G Y E A V P M T V F A K G A
UniRef90_M9SCQ9 P S A S G D L L S P E T Y K E F V L P Y H R K F A R A V S A P K I L H M C G H T
UniRef90_UPI000468E865 S W A E E S A Y F E F S W D Y M K E I S A H L K A K Y P H I P V I M F P K G I
UniRef90_B1VDH7 S W A G F L T A R D Y R E Y V A P Y S Q K I L D A V R P Y G I P M T H F G V G T
UniRef90_UPI0003B35F68 S W V G M L S V H D Y R T F V K P A T D R L V Q R V A K G L G V P V I Y F G T G T
UniRef90_C1FE82 S W A H H L S Q Q F A E F S L P Y S E R V I A A V K A K Y L I L H A N N G G
UniRef90_D2Z639 P V S S T S V I S P K Q F R S F S L P Y M K R N V T H V A C P T M H I C G K S
UniRef90_A7X3T8 S W V G A L N V E D R R Y K P H M I R L T S E V K E K H D V P V I L F G V G A
UniRef90_G0GZV3 P L S S C T V V S P K H F R E F S A P Y L K R L I D H I K A R T V I H I C G I T
UniRef90_E7QPI0 T W A G V L T P D D Y R E F V L P L H Q R I F D A I D V P S I V F A R H P
UniRef90_A8L0K0 S W A G A L S E D D Y L R Y V A P H S T R V L A A F A D D G I P R I H F G V T T
UniRef90_R6WLJ4 P S G T G E I L G P K Y F K E F A V T Y L N K G L Q T V G L G T L V H I C G H M
UniRef90_K5BK31 S W A G T L S L A D Y R R Y V L P H S A R V F A T L I A D A G V P M T H F G V G T
UniRef90_UPI000376167B S W A G F L T R K D Y Q E H V L P Y S V E I L E S V G E I P R I H F G V A T
UniRef90_G9PRZ6 P S G T G E I L G K R F Q E Y A V T Y I N R V L D A V P P T K I L V H I C G R L
UniRef90_Q4JVB8 S W A G Y L T A R D Y R E F V R P Y S T Q I F D A M R A Y G I P M I H F G V G T
UniRef90_S5SSA6 S W A G F L T E A D Y R E F V L P Y S V E L E T V A N D D L I H F G V G T
UniRef90_UPI000361E661 S A G A F C A C Y H E M S V K W M Q K V I D A M P A D Y P I I Y A K G M
UniRef90_G2NY36 S W A G I L L P D P L F Q R W C V T P V A A I V A A L K A K H P S V P I I A F P R
UniRef90_I4C208 M G S G T D L L S P R M W K Q L I Q P Y L K E Q E F N A L E S P K I L H I C G G T
UniRef90_E8V1C0 S W A G A L S V S D Y R Q F V L P I T K E L V Q R V Q A L G V P V I Y F G V D T
UniRef90_UPI00047AD321 S W S G D E A S F T A F C V A P V A R M V A K V R S V H P K I P I I G F P G A G
UniRef90_V5AIN6 S W G S R D L Q T F S M A Y T H R V L N K V H T E F N G V K I P R L V F T K G G
UniRef90_R6SL78 P M G S R D L L S K R Q F K E F F L P Y I K Q A V E R M N K F Q G I H I C G H T
UniRef90_UPI00046863EE S W V G A L L A P K D F V I Q F V L P T I E R I F S A I G E A N I I Y F P G V S
UniRef90_A4RRD3 S W A H H L S P Q Y Q L E F S H P Y N E R V I A Y V K Q R Y L F H A N G G
UniRef90_R4X7Z8 S W A F M T F A M P Y Q L K Q I A R G V D E G L D Q R G I K R V P K T V F A K G A
UniRef90_C5WDG4 T L G G I L L S D S D Y Q I F S L F Y L N Q T L D G L Y R I P I T L F T K G G
UniRef90_H2CIJ8 S W A G I L L S A E Q Y D E F A G R Y T E E I R R L K D H P I L L F V G G G
UniRef90_M1X1V4 S W A G Q L L S P Q D Y D T F A L P Y Q Q K V F Q Q V R Q K H L L L V S S
UniRef90_C5E0G5 S W G G E L S P A D F D E F S L P Y L K Q I S S K V H K E H V P M V V F A K
UniRef90_Q6NJJ4 S W A G F L L S E R D Y R E F V L P Y S M E L L A Q V G D V P R I H F G V G T
UniRef90_I0EQR0 S W A N A L E K E A Y L D F S W H Y M K M I S K E I K R Y S H V P I L I L F P K
UniRef90_G7WGI3 P I S S S T I I S K K F F Q I F S M P Y V E K C I D R I K Q K M S I H V C G K S
UniRef90_W5Y5J3 S W A G F L T E R D Y R D H V L P Y S T E I L A A L A E D G L I H F G V G T
UniRef90_F8DXL2 S W A G Y L T A R D Y R E F V Q P Y S K Q I F D A T V R E D P M I H F G V G T
UniRef90_UPI00040EBCF3 S W A G F L T E R D Y R R F V L P H S T N I L D S V A D A G I I H F G V G T

UniRef90_B5HCK4
UniRef90_D3BN73
UniRef90_UPI00037A00A2
UniRef90_A9SST2
UniRef90_V6IXT8
UniRef90_UPI00037AF3B9
UniRef90_S2ZD41
UniRef90_H5WTL6
UniRef90_E2S9A2
UniRef90_A4EE64
UniRef90_U5N9R6
UniRef90_Q72L31
UniRef90_A6DLM9
UniRef90_E3PR77
UniRef90_UPI0003A6C95B
UniRef90_E4NIF6
UniRef90_O22886
UniRef90_UPI00036830B8
UniRef90_UPI000464C8FC
UniRef90_A5UKJ5
UniRef90_UPI000361ECCA
UniRef90_UPI00047AE439
UniRef90_F5XEW2
UniRef90_U21G4
UniRef90_G8M2A8
UniRef90_D7CJY8
UniRef90_UPI0004788403
UniRef90_UPI0002485402
UniRef90_J3HMK1
UniRef90_UPI0004764372
UniRef90_J3Q598
UniRef90_UPI00037D4F13
UniRef90_C3XME8
UniRef90_D7UZS3
UniRef90_UPI00036B36C7
UniRef90_C9SHG2
UniRef90_UPI0003DE9582
UniRef90_Q0AZU9
UniRef90_B6BVX5
UniRef90_UPI0003B59331
UniRef90_UPI000345F45C
UniRef90_S6ECJ1
UniRef90_U5WBG7
UniRef90_D4YKN3
UniRef90_HOUIF6
UniRef90_UPI0003B3407F
UniRef90_UPI0003B43492
UniRef90_G4MUB5
UniRef90_M5BUA4
UniRef90_A3TVL4
UniRef90_A2C141
UniRef90_A3SRQ0
UniRef90_UPI0003B46AB0
UniRef90_L8HH08
UniRef90_D3PZP7
UniRef90_E9DE73
UniRef90_M9SCQ9
UniRef90_UPI000468E865
UniRef90_B1VDH7
UniRef90_UPI0003B35F68
UniRef90_C1FE82
UniRef90_D2Z639
UniRef90_A7X3T8
UniRef90_G0GVZ3
UniRef90_E7QPI0
UniRef90_A8L0K0
UniRef90_R6WVJ4
UniRef90_K5BK31
UniRef90_UPI000376167B
UniRef90_G9PRZ6
UniRef90_Q4JVB8
UniRef90_S5SSA6
UniRef90_UPI000361E661
UniRef90_G2NY36
UniRef90_I4C208
UniRef90_E8V1C0
UniRef90_UPI00047AD321
UniRef90_V5AIN6
UniRef90_R6SL78
UniRef90_UPI00046863EE
UniRef90_A4RRD3
UniRef90_R4X7Z8
UniRef90_C5WDG4
UniRef90_H2CIJ8
UniRef90_M1X1V4
UniRef90_C5E0G5
UniRef90_Q6NJJ4
UniRef90_I0EQR0
UniRef90_G7WGI3
UniRef90_W5Y5J3
UniRef90_F8DXL2
UniRef90_UPI00040EBCF3

250 260 270 280
G E L L G L M G E A G A D V V G V D W R V P L D E A A R R V V G P G K A L Q G N L
F G L T K L A Q L S Q Y D V L G I D W T I E P K V A R R F V A G T N K V L Q G N
A G L F D M M G E S G V D I V S V D W T V D M A D A R R R L G P S I L G V Q
G G L E R M A S T G V D V V S V D W T V D M A E A R R Q R L G T Q L A V Q Q G N
G H L L N E W N K L P V D V L S I D W R T S A D D L D R L Q I S K A I Q G N L D
G G F L K E L H A A G G D V I G V D W R T N I D Q A W M D I G Y R S A I I Q G
G E L L P D M A A A G P D V V G V D W R V P L D R A E R L H R V I S G R V T G L Q
G P W L E Q V A G C G A D V V G L D W T T N L G Q A R Q R T G D R V A L Q G N
G E L L G S M G E A G A D V V G V D W R V P L D E A V R R V Q G P G R S V Q G
G A G T K Y V G V H A A T G A D C V A V D D G V D A A W V A Q N V G Q N D G C V Q
G N R L Q H L S K L D C D V I G L D W T V D L Q E A R A V L G P T K A L Q
M G L L E D M K E A G G D V L G L D H H T P L P W A R A L L G A T P
N A Y F D S V A D S Q A D V L G T D W T L P L N V A K D L C N N S R V L Q G N
K P V W E E I V S T G I A G F S L D N I E D I G E F R R Q G Y E D K V L V I G N
G E L L G D M A L A G A G P D V V G V D W R V P L D T A A R R I A H A A E P K A L Q
G E L L G L M G Q A G A D I V G V D W R V P L D E A A N R V G P G K G L Q G N L
G G L L E R L A R T G V D V V S L D W T V D M A E G R D R L G R D I A V Q G N
A T A V W Y V S E T G V D G I G C D T A T P P F V M S E A F D E E D V V I Q G N
G D G Y V G F K R T G A D C V A V D D S V D A A W V A Q H V Q V D G C V Q G N L
Q P I I S D M S S V G F D G I S I E E A V D A I P K A K E S I E D E C V I V I G N
G E L L P A M A E A G G D V V G V D W R I P L D E A A R L R A A G G I E N P V V Q
A S L L P T M R Q T G A D V I G L D W R I P L A E G W K A V G E G C A V I Q G N L
G E L L T L M G T A G A E V V G V D W R I P L D E A S A R L G H R Y A V Q G N
G E L L G A M S Q A G S E V M G V D W R V P L D S A A E R I C Q V A G P R V L Q
K K I W D L M A E A G A D C I S I L D N D A N L L E A K Q I V G H R V R L M G N
K P I W E D V A A L G V S Q F S F D E K E D V E E A K R F M G A R L V I K G N
S E L L V A M R D A A G A D V M G V D Y R L P L S V A N Q R R L G S E A T P L L Q G
G E L L G E M A A V G P D V T G V D W K V P L D V A A R R R I L G S E A A G P T V L Q
G A L Y T N Y R Q R T G V T A L G L D W S V P L S M A S S L Q G Q G A V Q G N L
G E I L G E M S R A G S E V M G V D W R V P L D E A A R R I A E V S G P K V V Q
N L P H Q L R Q E S G Y S A M S L D W K V Q P A Y A L E A L G T A S T K I A L Q
G D Y Y K G F L K T G A D C L A I D D S I S S A W A K Y L Q K D G C I Q G N L
G I S G F L E R D I D G N F D V F G V D W S T P L S S A K E K L G S K Y V L Q G N
G H L L P E W N D V P I D V V G I D W R M S I A A A R D I L P E K A L Q G N L
S V F A P L M V I E A K P D V V S I D W N A D L R N I K D I L P A N I A V Q G N
W H A L G R A C D L G Y D A V G I D W M Q D P A E A V R I R G D R R V A L Q G N
N S L E M L A K S K T Y E V L G L D W T I D P I E A R K K F G S E I L L Q
T P I W S D A D T G A P T L S L D N V I D L A E A K K V V G E R V C I M G N
G G G Q W L N Q L K A G S N A I G L D W Q T S L K T A R E L T K D K V A L L Q G
G H L L E D W N D L P L S I I G L D W R T S I L E A R N R G I T K T L Q G N L D
A G L L E R M T P S G A D I V N V D W T V D M A E A R Q R L G K D M K V Q G N
W Y A L N K L C D S G Y N A V S L D W L W D P A E A C N I N Q G R V T L Q G
G V L L Q A M G E A G A D V V G V D W R T P L D R A T T V I G P D R S V Q G
G E L L G S M S T A G S S V M G V D F R V D L D D A S K R V Q P G Q A L Q G N
K A L W R D C V I E A G I G T F S L D N I E D L A E A K E I M G K D V V I T G N
V D R M E Y I A Q T G M A F H Y D S K N E P K E S M D I V K K R I A L V I G N
D P V V G L M G K T G A D T L S L E P K A S A K L A R E K C G P D I L L M G G
W F A L E D C C A M G Y N V V G L D W L Y S P A K A N Q V R G D R E I V L Q G N
G H A L P D L T K A G Y N V L G L D W V T S P E A L A T G G P S R T V G L Q
G D R Y V G F G D T G A D C V A V D D S V S A E W A A T H V Q V D G C V Q G N L
A G V L E R M G Q T G V D V L S L D W T V D M A D G L K R L P Q S V G V Q G
P R Y E G F A R A T G A D C V A L D D G V D A W A G A H V Q I D G C V Q G N L
G E L L P Q M A E A G A D V I G V D Y R V S L A D A V E R T G G R Y A V Q G N
A K H P E I P L I V C S L Q
G H L L A A M G E V G A D V V G V D W R I P L T E A A G L V G D R A L Q G N
W Y A L D D L C Q S G Y N V V G L D W L H D P A Q A T R I A N G R V T L Q
E K L L K H I R E S G M D C F S F D A P A W L V R A E L G N R M Q C L G S
S G Y L D K I D G F D V F G D W S T P L E L A K E K L G D K Y V L Q G N M
G E L L V D L A K V I G P D V V G V D W R V P M N V A A K Q A L P D Q T P K A Y Q
Q H L L P D M A S L G T D V V G A D W R L P L D E A W K L L F G P G Q G I Q G N L
V G K L E I M A S T A D V I G L D W S T D M A D A R R I L F G P D R V L Q G
R A L W E D C V I E A G I G N F S I D N V I D L E D A K N V M G D R V V I T G N
S H L L N E W N D L P I D V L G L D W R T S I N Q A C Q A L G V T K T L Q G N L D
D P I W D L V I E M G V D V L S I D N V A D M E K C A E T V G D K M V I A G N
G G K L D L L A E S G A D V V G L D W T V D M A D A R E Q L G D T P V Q
G E L L G A M G A A G A D V V G V D W R V P L D E A A R R V G P G R A V Q G N D
G S V Y N E I N E V K S V L S F D S V V P M K E A R A H L K D R V L M G
A E L L G A M S E A G A T V V G V D W R T S L T D A A A R V R P G T A L Q G N
R E I L G A M S D A G S E V M G V D W R V P L D E A A K R F S S P R V L Q G N
G S V Y H L L D S L H C D A F S F D A M V G A H E V K P Y L T G K A V M G
G E L L G D M A L A G P D V V G V D W R V P L Q E A D P T A E P T A R A K A L Q
G E L L G A M S E A G S E I V G V D W R V P L D K A S R I A A A T G P K A I Q
A H H S T S L I A A G A K V L S V D W T V D L P Q F H S A L P E G I A V Q G N F
G A Y K G F A E A T G V D C V G D S T V P V E W A A Q K V Q H E L G R C V Q G N
D L I V S L M N E C G A D A L S F D Q K N N L V E T R Q K I G N D M L L G N
A S L L K T M R E T G A D V L G L D W R V P L D E G W K L A G S G C A V Q G
V L Y E R Y R Q D T G V D A L G I D W T V P V S F G A R L Q S D G A V Q G N
G M W L D D M Q Q L P C D V L G M D W T V N L S Q E A R A K L G D T H A L Q G N L
R D R W E V I G T G V S G F W V D N C E S L Q E L K E Y G D K V A I S G N
S G E L L P H L L Q H L D A E V I G V D W R V S I T E G R K R I G E R F A I Q G N
C G K L H E L K K S T A D V I G L D W N T S M S E A R A V L G P D R V L Q G
W F A L D E L C E A G Y E V I G L D W T H D P A E A V K V A R G R V T L Q
G R W L E K M V D T G C D A L G L D Y T T N L G E A R K R V G S K V A L Q G N
H H L L P E M V R Q N P D V I S L D W R V R I E D V E K I P S R I A I Q G N L D
A G L L E R M A Q S G A D I L T D W S V D M A D A R I R L G O D M K L Q G N
G S W Y A L D K L C G I G Y N A V S L D W L W N P A D A C K I N Q G R V T L Q G
G E L L T A M S E A G S E V V G V D W R V P L D V A A Q R M V S P K V L Q G N L
G I G G F L D S I D G E F D V L G I D W S V P L E N A K K V F Q D K Y V L Q G N
K K I W G D L V E I G I T S I D D I E D L E D A K N A V G D K V C L V I G N
G E L L G A M S E A G S E V M G V D W R V P L D R A A E R I A A A S G P R A L Q
G E L L G D L A V A G P D V L G V D W R V P M D V A A E Q Q G D O T K A L Q G N
G E L L G A M A E A G P E V V G V D W R V P M D K A H R I A D S L D R V N S G

UniRef90_B5HCK4 D P A V L F S S R E A V E S K T R E V L D A A A G E G H I V F N L G G H G V L P T T
UniRef90_D3BN73 M D P A V M F A G Q E V I D R E V E R M I N S F F G Y I A N L L G G H G M Q P S M
UniRef90_UPI00037A00A2 G N I D P A L L F G S Q S L I R R R I L D T V K K A G R G H I L N L L G G H G V L P S G T
UniRef90_A9SST2 M D P A A L F G T K E F L I R R R I H D T V A K A G R G H I L N L L G G H G V L V G T
UniRef90_V6IXT8 P S L L L A P L P L K E R A K T L L D Q L S N R P G G Y I F N L L G G H G V F P E V
UniRef90_UPI00037AF3B9 N L D P A A L F A P M S E I R Q K V T D L L R R A P G G H I V N L L G G H G V L P E T T
UniRef90_S2ZD41 G N L D P A M L F A S E S A I R A R E V A R I I R E A G G H I F N L L G G H G V L P E T T
UniRef90_H5WTL6 L D P M V L F A N E Q A V R Q E A A R K V L D S A G G G H I V F N L L G G H G V I N Q H T
UniRef90_E2S9A2 N L D P S T V V F A P T E V V H A E A A R V I C D A G G P H I F N L L G G H G V I T P A T A
UniRef90_A4EE64 G N L K S S H M V T G T G D A L V S E T R R R I C D A G G P H I F N L L G G H G V I T P D A T
UniRef90_U5N9R6 G N L D P L A L L A K P A V V E A E A S K V L R A S F G H I F N L L G G H G V I H P H T T
UniRef90_Q72L31 G N L D P A V L L A P K G V I R R E V Q R L K K K S G H I F N L L G G H G V I M P K T T
UniRef90_A6DLM9 L D P A S L F S N K E L L A D K K L E L L R E Q A K K G G H I F N L L G G H G V I M P K T T
UniRef90_E3PR77 V D P V I G V I L N G T K E D I Y E A V R V C C E K G G G Y I L A S G C D I P I G T T
UniRef90_UPI0003A6C95B G N L D P A M L F A G P R R I K A E A R R A V E R G S H I F N L L G G H G V L P D S T
UniRef90_E4NIF6 D P A V L Y A P T H V V E T K A R E V L Q A L G G S H I F N L L G G H G V M P S M
UniRef90_Q22886 V D P G V L F G S K E F I T S R I H D T V K K A G R G H I L N L L G G H G V I K V G T T
UniRef90_UPI00036830B8 L D P L M L L V A G G E R L D E R D E I L D L M R K G K R F I F N L L G G H G V I T P Q D A
UniRef90_UPI000464C8FC K S S H M V T G G A L V D E T R R I V D A L K G G P H I F N L L G G H G V I T P Q D A
UniRef90_A5UKJ5 I S T S K T L L S G T P E D V K E D V K K V L S E D I D I J A P S C G L A P K T T
UniRef90_UPI000361ECCA G N L D P T V L F A G E R V V E R E T A R V L A E G G H I F N L L G G H G V I P N T T
UniRef90_UPI00047AE439 D P I T L F A P Q D V L R L R V R E V L D A A G G R G H I F N L L G G H G V I V P G T T
UniRef90_F5XEW2 L D P A L L G A P W P V V A E R T R A V I A A G A P G H I F N L L G G H G V L P P G T T
UniRef90_U21G4 G N L D P A I L L F S G E Q A M A R E I T R I G N A Q A T G Y I F N L L G G H G V L P N T E T
UniRef90_G8M2A8 V K P S E I M L Q G T V S D V K K A A T Q C L S K G G Y I V L S S G C C S L P T E T T
UniRef90_D7CJY8 V P P V I S V L A R G S Y E E V M A A A T Q C L S K G G Y I V L S S G C C S L P L E T T
UniRef90_UPI0004788403 N L D P A L L A A P W R V L E A H V R D V V E G G R H I V N L L G G H G V L P P P E T T
UniRef90_UPI0002485402 G N M D P A V L L A G D R V I A D Q V R R I C G E R G H I F N L L G G H G V I T P Q T A
UniRef90_J3HMK1 D P L R V V A G G K A T D D G V D A I I D A L G Q G P L I F N L L G G H G V I T P D A T
UniRef90_UPI0004764372 G N L D P A I L L F S E L A R I K A E A Q R A I E A A G G H I F N L L G G H G V I T P D T T
UniRef90_J3Q598 G N L D P A V L L H T N H E T I K K Y V R L M F E A A G G H I F N L L G G H G V I T P G V
UniRef90_UPI00037D4F13 N S S H M V S G G Q N M I D E I E T I V S D L S Q G P H I F N L L G G H G V L T P E A
UniRef90_C3XME8 L E P C R I Y A K D S M L K K A K E I L D L M Q Q S A H I F N L L G G H G V M L P D D L
UniRef90_D7UZS3 D P A L L L A P Q K S F D K A K T I G E A V K Q P G F I F N L L G G H G V I M P D E V
UniRef90_UPI00036B36C7 L D P H I L Y A D K H V I K D R I H R L F E R M G F V F N L L G G H G V I M P D I
UniRef90_C9SHG2 A D P G V L Y G T K E E M T R A A Q V M V D G F G W I C N L L G G H G V I T P G V
UniRef90_UPI0003DE9582 G N F D P C A L Y G S E Q E I N R A K D M A L K F G Y I A N L L G G H G V I L P D T T
UniRef90_Q0AZU9 V K P I D T I M K G S H Q Q I E A E V K E C L R K A G F I L A V G C Q V I P L I G T T
UniRef90_B6BVX5 N M D P A L L L G S D K K I E G T V K S V I D G E G H I F N L L G G H G V I T Q F T T
UniRef90_UPI0003B59331 P S L L L A P W P E I E K R A A I D E G I H P G F I F N L L G G H G V I F P D V
UniRef90_UPI000345F45C I D P G V L F G S H D V I R D R I L D T I R K A G H I L N L L G G H G V L V I G T T
UniRef90_S6ECJ1 N L D P G V I Y G S D E V I T K K V Q K M I S G F G Y I V N L L G G H G V T H P Y M
UniRef90_U5WBG7 N L D P A I L F A P W E V V E R A R R V V A E G G Y I V F N L L G G H G V M P E T T
UniRef90_D4YKN3 L D P A L V F A P W D V I R I E D I V R A G L R H G G H I F N L L G G H G V L P E T S
UniRef90_HOUIF6 V P P V D V M L Y G D R E M I R K S V R E C I R K A G Y I L S T P E C C Q I P K G T T
UniRef90_UPI0003B3407F I N N P E T L F S K R E P D V K A E V L K N L E A G V P L I G T P E C C A I P L Q T T
UniRef90_UPI0003B43492 V D T A T T L F M Q S P E T I K E G C I E S I E N G I Q I L A P G H I F N L L G G H G V I A P G T T
UniRef90_G4MUB5 A D P G V L Y G T K D A I T A A V V K D M V E A F G W I V N L L G G H G V I T P L V
UniRef90_M5BUA4 G N I D P A I L L Y G G R E A I R E V I K R M C E A F G W I A N L L G G H G V I T P G V
UniRef90_A3TVL4 A S R H M V T G G Q E L V E A T R G I V R A F S G G P H I F N L L G G H G V I T P D A
UniRef90_A2C141 N V D P G L L F G T P D A I R S I V D V V K G R K H I L N L L G G H G V I L P G T A
UniRef90_A3SRQ0 A S S H M V T G G E A L V Q E T H A I V D A L S H H P H I F N L L G G H G V I T P D A
UniRef90_UPI0003B46AB0 L D P A L L F A P W D A L E Q R V R E I V E E G G H I F N L L G G H G V L P S T T
UniRef90_L8HH08 G N L D P C A L Y S S K E V I R E E V R K M L Q S F G L I G N L L G G H G L H P S H
UniRef90_D3PZP7 L D P T T L F A P E D V L A H E V R R V L A E G G H I F N L L G G H G V L P E T T
UniRef90_E9DE73 G N A D P G C L Y G S R E A I T A V V E N M V K G F G W I V N L L G G H G V I T P F V
UniRef90_M9SCQ9 L D V I D L M P N G T P E Q V Y A R T A E C I R E G V D V V G T A C D V I S N G T
UniRef90_UPI000468E865 E P T R L Y N K D A I K E G V E K I V K T M D N N R H I F N L L G G H G V I L P D I
UniRef90_B1VDH7 G N L D P A V L L F A G R D V I R E H V K R I A A E R G H I F N L L G G H G V L P H T T
UniRef90_UPI0003B35F68 D P L L L Q A P W R E L K H Q V D R I L E A G G R P G H I F N V L G H G L V P E T T
UniRef90_C1FE82 N M D P M Y L F A D E G R I R R E V A Q N I A A A G H I L N V G H G V L P Q G T
UniRef90_D2Z639 I P P V D I V A N G T V A D V F R S A R E C I R K A G F I L C T G C Q I P K G T T
UniRef90_A7X3T8 P S I L L A P W N V I E E R L K P L L D Q G M E N G K H I F N L L G G H G V I F P E V
UniRef90_G0GZV3 V D P S A I M Y A G S R E D V R K A T I K C A M Q G G F M I M S G C S L P V E V
UniRef90_E7QPI0 G N L D P S Y L L G S P E F V K E K T H E V I E K A G H I L N L L G G H G V I D R T T
UniRef90_A8L0K0 P A A V F A P S D V L A A K V R D V C R R G A A A P G H I F N F G H G V L P E S
UniRef90_R6WLJ4 N V I S T Y T L E F G E P R E V A L L T K N C V K N G S D I I S P A C G G L G M K S
UniRef90_K5BK31 L D P V V L L A G W P V V E V V D D G R R A V D A G G H I F N L L G H G V L P E T T
UniRef90_UPI000376167B L D P A M L F A G S D V V R I K A E A A R A I E A G G H I F N L L G H G V L P T T
UniRef90_G9PRZ6 N V I S T H A L G V M P R E K V K Q L T A A A Y K Q G M D I L A P A C G G L P L T T
UniRef90_Q4JVB8 G N L D P A V L L F A G P E R I C A E A D R A I E R G G H I F N L L G H G V L P N T T
UniRef90_S5SSA6 G N L D P A M L F Q Q V A R I K A E A A R A I D A G G H I F N L L G H G V L P P T T
UniRef90_UPI000361E661 D P S I L D G T A E R T R I E A T R L D S M R G G H I F N L L G H G V L P S A T
UniRef90_G2NY36 L D P Q L L V A G G P A L H A E D R I L N A L S G G P F V F N L L G H G V I V K T T
UniRef90_I4C208 F D P Y G T L C Q K E A S E V P A V I E D C I N A G V D A V W P G C D I W P D V
UniRef90_E8V1C0 N L D P I A L F A P E A L L K Q R V K E V L D A A G H I F N L L G H G V I T P G T T
UniRef90_UPI00047AD321 L D P M R L V A G G Q A R D G V D A I L R S L G N G P L I F N L L G H G V I T P E T T
UniRef90_V5AIN6 D P N A L F A A P E Q V A E I L G R Q V L D M G D G T G H I F N L L G H G V I L N Q V T T
UniRef90_R6SL78 V P P V D V L K N G T F A E J L D Q V L K K C I N P R G Y N L C P G G C T P V D T T
UniRef90_UPI00046863EE L D P M I L I T A P M S V I E S Y A K E I I D Q G G Y I F N V G H G L F P E A
UniRef90_A4RRD3 N M D P M Y L E A S P E R I R Q E V A N N V R D A G H I L N V G H G V I Q G T T
UniRef90_R4X7Z8 G N M N P A W L I A G R E V I T Q E V Q K M I L G F G Y I L N V G H G V I F P E V
UniRef90_C5WDG4 M D P S I L Y G S P D R I K Q E V N N L Q G S G H I F N L L G D G I Y Q D I
UniRef90_H2CIJ8 P L Y L Y G G K D R V I R E T E A V L N R F A S R A P G Y I F N L L G H G V I H P A S
UniRef90_M1X1V4 L D P G V L F A S K K F I R E T R D R I Y D T V H K A G H I F N L L G H G V I P N T
UniRef90_C5E0G5 N L D P G I Y G S D E V I T K R V E T M I K Q F G Y I V N F G H G T H P F M
UniRef90_Q6NJJ4 D P A G E D V M R R E I A R I C A E A D R A I A A G G H I F N L L G H G V L P N T
UniRef90_I0EQR0 L E P A R L Y S K K A L E G V E R I L K V M G N K G H I F N L L G H G V L P D L
UniRef90_G7WGI3 V P P V D I V R N G T Y E D V V R E S K F C I K K A G F I L S T G C Q I P M N A
UniRef90_W5Y5J3 G N L D P A M L F A G E E V S A K E V A R L C T A T G H I F N L L G H G V L P H T
UniRef90_F8DXL2 L D P A V L L F A G R H V S V I C A E A D N A I D R G H I F N L L G H G V L P S T
UniRef90_UPI00040EBCF3 F F A G D D A L R S E V T R I T E E T D R A I S E G G H I F N L L G H G V M P N T

UniRef90_B5HCK4 D P D A L T R L V A Y V H E Q T A
UniRef90_D3BN73 T I D S A A N F I S S V H N I S
UniRef90_UPI00037A00A2 P E E N A A Y F F E T A K
UniRef90_A9SST2 P E E N V A H F F E T G K
UniRef90_V6IXT8 S E E N L R E L T K F V H H Y
UniRef90_UPI00037AF3B9 P V E S V K S V V R M V R D F
UniRef90_S2ZD41 D P E V I T R T V R L I Q E
UniRef90_H5WTL6 P P D T V A A L V D E V H S H S
UniRef90_E2S9A2 D P D A L A R L V D F V H A Y
UniRef90_A4EE64 N P E N V Q L M I D T V R
UniRef90_U5N9R6 P P E H V A A L V D A V H G H S
UniRef90_Q72L31 P E E N V R Y V V E L I Q E V A A
UniRef90_A6DLM9 P V E N V K F V V D T V K S W
UniRef90_E3PR77 P P E K I M H F I D A A R V Y
UniRef90_UPI0003A6C95B P A E A I T E A V A L T H E
UniRef90_E4NIF6 D P D A L T R L V A F V H E A S A
UniRef90_O22886 P E E N V A H F F E V A Q E
UniRef90_UPI00036830B8 P P E N V G R L V E R V R
UniRef90_UPI000464C8FC D P E N V Q L M I D T V R
UniRef90_A5UKJ5 P L J A N V K A L V E A R N E Y
UniRef90_UPI000361ECCA D P A E L T K L V D L V H R
UniRef90_UPI00047AE439 P V E N V I Q T V Q W V K E F
UniRef90_F5XEW2 D P A V L E R I V D L V H D
UniRef90_U21G4 V P E D I T K A V E L L H E
UniRef90_G8M2A8 P F E N I R A M M D A T R E
UniRef90_D7CJY8 P P E N I H A L T E A S R R F S
UniRef90_UPI0004788403 N P E V L T R L V E L V H
UniRef90_UPI0002485402 P A D A V T R A F E E V H
UniRef90_J3HMK1 P V S H V E Q M I N R V R
UniRef90_UPI0004764372 P A E A I T E A V A L I H E
UniRef90_J3Q598 D P E A M R T F L E A V H E E S
UniRef90_UPI00037D4F13 N P D N V
UniRef90_C3XME8 P R E N A L A L V E F I H N Y
UniRef90_D7UZS3 S P S T L K Q L T A L V H S E S
UniRef90_UPI00036B36C7 P F D H V K Y A V E V V K E F
UniRef90_C9SHG2 N P D D L K F F L S E V H R
UniRef90_UPI0003DE9582 P I A S V T A F I K G L H
UniRef90_Q0AZU9 T A D N F M C F M N A A R K Y
UniRef90_B6BVX5 D P A K V T L M L D V L K E Y S
UniRef90_UPI0003B59331 K P D T L K R L T A F V H E Y S
UniRef90_UPI000345F45C P E D N V R Y F F E T A K
UniRef90_S6ECJ1 N P E K I K H F L Q E C H R F G S
UniRef90_U5WBG7 D P E V L T R L V E L I H
UniRef90_D4YKN3 D P T V L T R I V E E V H T V S S
UniRef90_HOUIF6 S L I E N L E Y F M E A G R E Y
UniRef90_UPI0003B3407F T I E N L Q A I P E T V Q G W H S
UniRef90_UPI0003B43492 P L I E N L L A M M E V V K
UniRef90_G4MUB5 N P D D L K F Y L Q E I H R
UniRef90_M5BUA4 D P E D L K W F L E C V H K Y S S
UniRef90_A3TVL4 D P D N V Q L M I D T V R
UniRef90_A2C141 P E E N A R V F F E A G K
UniRef90_A3SRQ0 D P D N V Q R M I D A V R
UniRef90_UPI0003B46AB0 D P D V L T R V V E L V H E V S
UniRef90_L8HH08 D P Q L V G E F I E A V H E I S
UniRef90_D3PZP7 D A D A L T K T V E Y V H R F S A
UniRef90_E9DE73 N P E D L K F F F Q E I H R L T A
UniRef90_M9SCQ9 P L I E N L K A Y V R A C R E
UniRef90_UPI000468E865 P V E N A K Y F I K Q V Q E
UniRef90_B1VDH7 D A D A I T A A F E E V H
UniRef90_UPI0003B35F68 P M D N V A R V I D Y V H E R T A
UniRef90_C1FE82 P E A N V G L F C D A A R K
UniRef90_D2Z639 P M E N I K A I M D A G R E Y
UniRef90_A7X3T8 Q P E T L R K V S E F V H T Y
UniRef90_G0GZV3 P I E N L D A M M D T A R E
UniRef90_E7QPI0 P V E N A T A F V D A A K E
UniRef90_A8L0K0 D P G V L A H I V D L V H Q F
UniRef90_R6WVJ4 P I K N I Q A I L K C L S E
UniRef90_K5BK31 D P E V I T R V V E L V H
UniRef90_UPI000376167B Q A E A I T E A V A I L H E
UniRef90_G9PRZ6 P L J A N I K A M A E T A R E
UniRef90_Q4JVB8 D P D A I T R A F E E V H K
UniRef90_S5SSA6 Q A E A I T E A V A I L H E
UniRef90_UPI000361E661 K P E N M A A L I E T I T Q Y
UniRef90_G2NY36 P P E H V A A L A Q Q V R S W S S
UniRef90_I4C208 K P E N V N A W V R T V R E
UniRef90_E8V1C0 P V E N V I N V A R W V R E M S A
UniRef90_UPI00047AD321 P I D H V E A M I A Q V R
UniRef90_V5AIN6 P P E S V A A L V E A V H S H S
UniRef90_R6SL78 T K E N M V A F M N A A A K Y
UniRef90_UPI00046863EE S I E K L E Q L T S F I H E Y S A
UniRef90_A4RRD3 P E E N V G H F C D A A R
UniRef90_R4X7Z8 D P D D L E H F F K E C H R F G S
UniRef90_C5WDG4 A P E N V G V L I E S V H K Q S
UniRef90_H2CJ8 P L I E N V E A M I Q T L R N Y
UniRef90_M1X1V4 P E E N V E F F F E T A K Q
UniRef90_C5E0G5 D P E K I R H F L Q E C H R
UniRef90_Q6NJJ4 D P D A I T R A V E I T H T F
UniRef90_I0EQR0 P R E N A K Y L V Q L V R S R S
UniRef90_G7WGI3 P I E N I Q A L L D T A R S Y
UniRef90_W5Y5J3 A P E A I T R A V E I L H E H
UniRef90_F8DXL2 D P D A I T R A F E E V H
UniRef90_UPI00040EBCF3 D P E A I A R T V E M V H

UniRef90_S2XYM8 1 T E K E R L E R A L R Q E E V D R P P C I C M M N M I T T D L M D A C G V T 40
UniRef90_K9RMJ8 L L R A A R G E E V N R P P V W M M R Q A G R Y R D L R E T K Y P S
UniRef90_D5E8N7 R E N L L N V L A G K E E G L T P V L S V T Q T A T N G L M E T R K G A F S
UniRef90_V8CLD1 F I D A A L K K D E P Y T P I W L M R Q A G R Y Q A T R A K A G S
UniRef90_UPI00042B3649 T A E P L L L N A V R G Q D V E R P P V W L M R Q A G R Y Q I I C E K Y P S
UniRef90_HOQZQ3 L I A A A T G G T P S R R P V W F M R Q A G R Y P E Y R A I R A R G S
UniRef90_H7F2N7 M N K N D L F L R A A R K E N V D T I P V W Y M R Q A G R Y E Y R K L K K Y S
UniRef90_F7Z7A4 N D S L L K A A R G E Q A G R V P V W Y M R Q A G R Y P E Y R K L K K Y S
UniRef90_UPI0004754426 R F Q R T L K G E R Q D H P I W M M R Q A G R Y E Y K E I R A P S
UniRef90_UPI00046352A8 M A A K R T V L E V L K G E T V S P P P L W M M R Q A G R Y R E T R K R A G S
UniRef90_G8AG66 M L A A L A G E V R P R P P F W L M R Q A G R Y E Y R E L R A G S
UniRef90_UPI000373DE25 Q M T P K E R L A G F V S G K E I D R I P A L P F V T S V S G R V A G I T
UniRef90_UPI000464BD4B M A P K R I V V D F V L K G E P V F P P I W M M R Q A G R Y R E T R A K A G S
UniRef90_UPI000421D13F M P I T S N F I L N A C R R Q P V T H T P V W Y M R Q A G R Y E Y R K I R K Y S
UniRef90_G8M2C7 L S P K E R I L R V L K K D K T D R P P V C M M N A A T V D V M N K T G H T
UniRef90_U3GY38 T P Q A P L Q A A A K L T P E R T P V W F M R Q A G R Y E Y K Q A R G I P
UniRef90_UPI0004263DC5 M T G T H R V L E V L S G K T L V P P P I W L M R Q A G R Y E Y R E T R A G I S
UniRef90_Q5FS38 L L R A L R G E A V W P P P V W L M R Q A G R Y E Y F R A M R D A D S
UniRef90_C6HUN0 K N D L F L R A C R R E R L D R P P I W I M R Q A G R Y E Y Q E I R K K S
UniRef90_B6QNT2 K N D L L L R A A R G E T V E R P P M W V M R Q A G R Y E Y H E A K G R D
UniRef90_C5DDZ3 K N D L L L R A A L G K E P V E R P P C W I M R Q A G R Y E Y H K V K G R D
UniRef90_K7SBJ7 L L R A L K G E A V W P P P V W L M R Q A G R Y E Y F R A M R K A D
UniRef90_UPI00041F091C N D M F L R A A K Q E P V S H T P V W Y M R Q A G R P E Y R E L K K Y G
UniRef90_D5E737 K E R L N T L K G K P D R V P V I S I T Q T G I E L M D A T G A S
UniRef90_D6TGL8 T G V A R F L D A C Y H R Q P D A T P V W F M R Q A G R C E Y R A L R K Y D
UniRef90_W1PCN8 L L R A V R G D K V E R P P V W L M R Q A G R Y Q L I C E K Y P S
UniRef90_A8I9S9 R D L L R V A R G E D A E R T P V W L M R Q A G R Y M A A F R E K Y P
UniRef90_B7G0Z0 L L L V R A A R G E T V E R T P V W M M R Q A G R Y M E A F R E Y S D
UniRef90_UPI000380C4B6 F I L T A A R G G T P E H V P V W F Q R Q A G R P E Y R R V R G T G
UniRef90_UPI00037F134C M S R R E L V L D T A T G R S P K R T P V W F M R Q A G R P E Y R K V A R G V S
UniRef90_D7CY02 L F L E A A R Q Q D T A R A P I W I M R Q A G R Y E Y R A L R A Y S
UniRef90_D8G245 L L L R A A R G E V L E R P P V W M M R Q A G R Y M Y R D L R D K S
UniRef90_UPI0003F9C657 F I L D A A A G R T P T R T P V W F M R Q A G R P E Y R R V R G I P
UniRef90_D5UN08 L L L A A A G Q P P A R R P V W F M R Q A G R P E Y R K V R G V G
UniRef90_M7NM99 T A N S P L I S A Y R G Q Q P T R R P V W F M R Q A G R P E Y R K L R G T E
UniRef90_G2IS33 L L G V L G Q R P S R P L W L M R Q A G R Y E Y R A L R K G G S
UniRef90_UPI00047670C9 E M R R K I M R V L D G E T L S P P P I W L M R Q A G R Y E Y R E V R A G S
UniRef90_MOQN95 M T Q R T R F R A A T G G T P S R R P V W F M R Q A G R P E Y R A I R A H G
UniRef90_G7WD14 M D A K E R L L K A L K G D K T D R L P C I C M M N M V V T E L M E K A D I C
UniRef90_Q93ZB6 L L V K A A K G Q A I S R P A W M M R Q A G R Y M A V Y K K H P S
UniRef90_A6BKM5 M N E K E R L K K A L H H E K T D R P P C I C M M N M I T T D L M D K S G I T
UniRef90_K8E9M9 L L R A A R G E D V A E R P P V W L M R Q A G R Y M A E F R A K Y P
UniRef90_A0A022LJC1 Y L D E V R G T G A E H T P V W F M R Q A G R P E Y R E L R G S T
UniRef90_U2PT63 F L R A A R G E R P E R T P V W F M R Q A G R P E Y R A R G T T
UniRef90_UPI0002EBD0EB L L L R T A L G E K V E R P P V W M M R Q A G R Y M Y R D L R D K S
UniRef90_H2AYZ0 K N D L L I R T L K G E T V E R P P C W I M R Q A G R Y E Y R E V K G R N
UniRef90_M9SFY3 M T P R E R V I T A M N K E N L D R P P A A I F T Q S A T I G Q M D A T G A A
UniRef90_UPI0003B4A83D T S R S R L I T A Y S G R R P D V L P V W F M R Q A G R P E Y R E L R G T N
UniRef90_D3UHW4 F I D A C K R L E T P Y T P I W M M R Q A G R Y R A T R A K A G S
UniRef90_A0A021VPD9 T S H A A V V R A F S G Q R P E D P P V W F M R Q A G R P E Y R A T R G V A
UniRef90_Q2NHV3 N Y T K N L R D V L N G K K T D I A P V V T V T Q S G I L D A M E R T G T S
UniRef90_F6FVP3 T A R S P L V R A L R G D R P E R T P V W F M R Q A G R P E Y R E V R G I A
UniRef90_UPI0003B3BCC2 P N A P I L A A A R G E T P S R P P V W F M R Q A G R P E Y R A V R G I S
UniRef90_Q2GC56 L L L K T L Q G E N I S R R P I W L M R Q A G R Y E Y R E L R K G G
UniRef90_T0IMN4 Q M T P A Q R A A A I A N G S A V D R L P C N P N I A N G V A R V Y G C K
UniRef90_UPI00029B1063 K N D R Y L R A L L K Q P V D V T P V W M M R Q A G R Y R A T R A Q A G D
UniRef90_U2YF64 L L V R A V R G E R V E R P P V W L M R Q A G R H E Y R E I R E Y S
UniRef90_UPI00035F36B2 T P K E R I K K V F N N E E V D R P P C I C M M N M I T T D L M D R S N V F
UniRef90_Q0RNY5 F I L R A C R R D Q P E T T P V W F M R Q A G R P E Y R A L R A V P
UniRef90_UPI00046425EC F I D A Y S G K K T P Y T P V W M M R Q A G R Y E Y M E I R R G N
UniRef90_R9N5G1 E M T P K E R M I A Y S K G E E V D R I P T S L S A S E T A P P L M G I D
UniRef90_UPI00028805AB E M T P K E R M A A Y S K G L E I D R I P C M P Q M G V T M A P L M G I T
UniRef90_UPI000418B613 F I L R T L D G E A G V P P P I W L M R Q A G R Y E Y R E I R A K S
UniRef90_L7LJP1 L I A A A T G G T P S R R P V W F M R Q A G R P E Y R E I R G R G
UniRef90_D5UCS4 T G D S A L V T A Y S G T R P E R L P V W F M R Q A G R P E Y R A S R A G T
UniRef90_U7FP69 M K S Q D R V M R V L S G E K L W P P I W M M R Q A G R Y E Y R E V I R A A N
UniRef90_A6GDP1 M R Q A G R Y E Y R A I R K V S
UniRef90_C0WI72 M S R L N R I I D A A L G R T P S R P P V W L M R Q A G R P E Y R A A R G I S
UniRef90_A8CBH0 A G E E P F L T P V W M M R Q A G R Y E F R M R R Q H G
UniRef90_UPI0003B55A93 M N L K E R F M N R L E G K S V D M T P V G C T T T Y G L V D L M K K C G A E
UniRef90_C8XF57 L L A A Y R G T R P A H R P V W F M R Q A G R P E Y R E V R G I G
UniRef90_M1UD34 L L D A T N G K T P T R T P V W F M R Q A G R P E Y R K V R G I G
UniRef90_Q0BWA2 M N K P I L R V L R G E A L P T R P P V W L M R Q A G R Y E Y R E V R A G S
UniRef90_Q8UBL6 E R V M T V L N G K T V T P P P I W L M R Q A G R Y E Y R E T R K G S
UniRef90_K6AYY1 E M T S L Q R C M A V A L N G D I P D M L P V I P Q S F M F A V E T A G M K
UniRef90_H6MZU6 S R M P L V A A A R G E S P A R R P V W F M R Q A G R P E Y R A T R A I G
UniRef90_G0HED6 F I L V A A A G G T P S R R P V W M M R Q A G R P E Y R E L R G V E
UniRef90_C6XIK9 P E K K L L E T L N G K I Y E H P P V W M M R Q A G R H E Y L E L R G K D
UniRef90_F6ELH9 F L A A V D G R Q T H R P V W F M R Q A G R P E Y R E L R G I G
UniRef90_UPI0003B742CF M R V L D G E T L S P P P V W L M R Q A G R Y R Q T R A K A G S
UniRef90_U2UY08 E M T P K E R A V A Y A A G E E V D R I P T N L S A G E T A P P L Y G Y R
UniRef90_G4W924 D L L L R A A K G E Q T H R A P V W L M R Q A G R Y M E A F R K Y Y P
UniRef90_U1HHB5 M T P I K P L L E V L S G R Q A V P P L W M M R Q A G R Y R D V R A R A G G
UniRef90_Q8DKW0 L L L R A A R G E S V A E R P P I W L M R Q A G R Y R D L R D R Y P S
UniRef90_A0LUP4 L L R V C R G E P A P V T P V W F M R Q A G R P E Y R A A R G E T
UniRef90_T0I8A2 P K E R L N K V F S E E K V D R P P C I C M M N M V T A E L M E E V G I C
UniRef90_F5LB16 T F N D T F L K A C R G E H V C Q L P V W Y M R Q A G R Y E Y R K L K K Y S
UniRef90_A5G1D5 V L R V L K G E A V W P P P V W L M R Q A G R Y E Y R K L R A G N
UniRef90_C1FD66 N D I M I R A A K G Q K V E R T P V W L F R Q A G Y M E Y K N A R G K N
UniRef90_H5Y2U7 Q M T P N Q R L Q A F I K G E K M D R L A M P I L V S I S H R V S G M T
UniRef90_UPI00034BB739 K N D R Y L R A L L R E P V D M T P V W M M R Q A G R Y K A T R A T A G D
UniRef90_C0ZYX0 L L A A A T G R T P S R R P V W F M R Q A G R P E Y R E I R G I G

UniRef90_S2XYM8
UniRef90_K9RMJ8
UniRef90_D5E8N7
UniRef90_V8CLD1
UniRef90_UPI00042B3649
UniRef90_HQOZQ3
UniRef90_H7F2N7
UniRef90_F7Z7A4
UniRef90_UPI0004754426
UniRef90_UPI00046352A8
UniRef90_G8AG66
UniRef90_UPI000373DE25
UniRef90_UPI000464BD4B
UniRef90_UPI000421D13F
UniRef90_G8M2C7
UniRef90_U3GY38
UniRef90_UPI0004263DC5
UniRef90_Q5FS38
UniRef90_C6HUN0
UniRef90_B6QNT2
UniRef90_C5DDZ3
UniRef90_K7SBJ7
UniRef90_UPI00041F091C
UniRef90_D5E737
UniRef90_D6TGL8
UniRef90_W1PCN8
UniRef90_A8I9S9
UniRef90_B7G0Z0
UniRef90_UPI000380C4B6
UniRef90_UPI00037F134C
UniRef90_D7CY02
UniRef90_D8G245
UniRef90_UPI0003F9C657
UniRef90_D5UN08
UniRef90_M7NM99
UniRef90_G2IS33
UniRef90_UPI00047670C9
UniRef90_M0QN95
UniRef90_G7WD14
UniRef90_Q93ZB6
UniRef90_A6BKM5
UniRef90_K8E9M9
UniRef90_A0A022LJC1
UniRef90_U2PT63
UniRef90_UPI0002EBD0EB
UniRef90_H2AYZ0
UniRef90_M9SFY3
UniRef90_UPI0003B4A83D
UniRef90_D3UHW4
UniRef90_A0A021VPD9
UniRef90_Q2NHV3
UniRef90_F6FVP3
UniRef90_UPI0003B3BCC2
UniRef90_Q2GC56
UniRef90_T0IMN4
UniRef90_UPI00029B1063
UniRef90_U2YF64
UniRef90_UPI00035F36B2
UniRef90_Q0RNY5
UniRef90_UPI00046425EC
UniRef90_R9N5G1
UniRef90_UPI00028805AB
UniRef90_UPI000418B613
UniRef90_L7LJP1
UniRef90_D5UCS4
UniRef90_U7FP69
UniRef90_A6GDP1
UniRef90_C0WI72
UniRef90_A8CBH0
UniRef90_UPI0003B55A93
UniRef90_C8XF57
UniRef90_M1UD34
UniRef90_Q0BWA2
UniRef90_Q8UBL6
UniRef90_K6AYY1
UniRef90_H6MZU6
UniRef90_G0HED6
UniRef90_C6XIK9
UniRef90_F6ELH9
UniRef90_UPI0003B742CF
UniRef90_U2UY08
UniRef90_G4W924
UniRef90_U1HHB5
UniRef90_Q8DKW0
UniRef90_A0LUP4
UniRef90_T0I8A2
UniRef90_F5LB16
UniRef90_A5G1D5
UniRef90_C1FD66
UniRef90_H5Y2U7
UniRef90_UPI00034BB739
UniRef90_C0ZYX0

50 60 70 80
W P E A H T D A Q M M A D L A S L A S Y Q H G C F E N V G V P F C M T I E A E E L
F R Q R S E S P E V A I E L S L L Q A P W K A F G Q P D G V I L F S D I V T P L P G L
W P Q A H S S A V A Q M A E E L S L L Q A A H T V G G L D E A I S Y P F C L T V L P L E A E A M
F L D L C Q N V A F L A T E E L V S L L Q A P V E I L D V L D A A I L F S D I L T V L P M E A M
F R E R S E N V D L V V E I S L L Q P W N V F K P D G V I L F S D I L T P L S G M
M L E S C F D A A L V C E I T M Q P V R R H D V D A A I L F S D I V V P L K A A
L F E I T H N P E L L C A Y V T R L P V E H Y D V D A A I L Y K D I M T P L P A L
L F D F C Y N P D L A C E A T L L Q P I R R F G F D A A I L F S D I L M I P D A L L
F L D L C Y N P D L A V E V T L L Q P I R R F G F D A A I L F S D I L V V P H A L L
F L D M C Y N P D H A V E V T L L Q P I R R Y D M D A A I L F S D I L V V P H A L L
H K E K R S C A K N Q A Q A Q A C Y I E R R F G F D S I S I E Y S G L H G V G L A L L
F L D L C Y N P D F A V E V T L Q P I R R F G F D A A I L F S D I L V V P H A L L
L I E I C Q I P E L C V Q L V T K L P V D Q L G V D A A I L F S D I L M V P V G A M
L P E A H H S D R L L M A Q L S Y D V Y E H T G F F E N F G I P F C M T V E A E V L L
M L D S C F M P D L L A E I T M Q P V R R R R D V D A A I L F S D I V V P L K A A
F L E L C Y T P D L A V E I T L L Q P I R R R Y G F D A A I L F S D I L V V P D A L L
F L T R C C M T P D M A T E L T L L Q P I R R Y G M D G A I L F S D I L L I P V E A M
F L G L C C K T P E L A S T Q A T L L Q P I E R Y A I D A A I L F S D I L L I P Q A M
F F D C C R S P E I A S T L T L L Q P I E R Y A I D A A I L F S D I L L I P Q A M
F F E T R C R D A E L A S E I T L L Q P I R R R Y A L D A A I L F S D I L L I P Q A L L
F L T R C C M T P D M A S E E L T L Q P I R R Y G M D G A I L F S D I L L I P W A M
L E E I T R M P E T C A W V T K L P V D Q Y N N D A A I L Y K D I M T P L P A I
W P E A H S D P E K M A E L A F A A Y D L T R G V D A A V R Y P Y C S T V L A E A M
M L T M V K T P E L S T E V T L M P V K T F G V D A A I I Y S D I L T P L E A M
F R E R S E N V D L V V E I S L L Q P W K V F Q P D G V I L F S D I L T P L P G M
F R M R S E T P E L A I E L S L L Q P L R A F R G P D G I I F F S D I L T P L P G M
F R E R S E T P D Y A V E I S L L Q C H R A Y G M D G L I M F S D I L T P L P T L L
M L E S C L T P D L A C E I T L L Q P V R R R Y G V D A A I L F S D I V V P L K V A
M L D S C C F M P E L L A E I T L L Q P V R R R H D V D A A I L F S D I V V P L K A A
F W E M C R T P E L A A E V T L L Q P L R R F D L D A A I L F S Q D I M T P L P P M
F R D R S E K T D I A V E I S L L Q P F R A F E P D G V I L F S D I L T P L P G I
M L D S C C F M P E L L A E I T L L Q P V R R R H D V D A A I L F S D I V V P L K A A
M L Q S C C F M P E L V S E I T L L Q P V R R R H R T D A A I L F S D I V V P L K A A
M L E S C C L R P E M A S E I T L L Q P V R R R H D V D A A I F F S D I V V I P L K L A
F L D L C C Y T S E A A A E V T L L Q P I R R R Y G F D G A I L F S D I L V V P H A L L
F L D L C C Y T P D H A V E V T L L Q P I R R R Y G F D A A I L F S D I L V I P D A M
M L E S C C F D P G L V C E I T M Q P V R R R H D V D A A I L F S D I L V V P L K A A
W P E A H T D A V K M A D L S A K A V Y D H G C F E N Y G V P F C M T I E A E Q M
F R E R S E N T D L I V E I S L L Q P W Q A F R P D G V I F F S D I L T P L P A F
W P E A H L N A E M M A D L A S Q A N Y E N G C F E N V G V P F C M T I E A E S M
F R H R S E T P E L A T E I S T M Q P W R A F K P D G V I M F S D I L T P L P A L L
M L E A C C F P E M T C E I T M V Q P V R R H G V D A A I F F S D I V I P L A A A
M L E S C L T P A L A A E I T L L Q P V R R R Y G V D A A I L F S D I M V P L G L A
F R E R S E N A E L A S E I S M Q P F H A F K P D G V I L F S D I L T P L P G M
F F E L C Q N D A E L A S E V T L L Q P I R R R Y E L D A A I L F S D I L V I P Q A M
W P E A H K N A E I M A K L A A A Q A D V F G F E C C R T S F C L T A E A E R L
M L D A C C L D P A L A S E I T L L Q P V R R R H H V D A A I E F S D I V V P L K L A
F L D L C C Q D V T L A T E V T L L Q P V E I L N V D A A I L F S D I L L I P L E M
M L D A C C L D P A L A S E I T L L Q P V R R R H G V D A G I F F S D I V V P L R L A
W P Q A H E N P E Q M A T L G A S L Y E L A R L E D A K I P F C L A V E A E S M
M L E S C L R P E L A A E I T L L Q P V R R R H G V D A A I F F S D I V V P L R L A
M L D S C C F R P D L L A E I T L L Q P V R R R H D V D A A I L F S D I V V P L K A A
F L A L V Y D T D A A A E V T V M Q P I R R R F G F D G A I L F S D I L I V P Y A M
L S E F N H N K A I A A A Q M A A Y H K F G C D L R I F T L F P W A E A M
F M S L C K N A E L A C E V T L L Q P L R R Y P L D A A I L F S D I L T P D A M
W P E A I K T P E V A E R I L A L P W E Y R P D G V V M F S D I L T V L E
F L N A H L N G E K M A E L A S A N Y E N G C F E N Y G V P F C M T I E A E A M
M L D S C R D P A M I T E I T M Q P V R R R F R P D A A I F F S D I V V P L V A I
F L D M T K N P E L A E I T L L Q P V R R R L N V D A A I L F S D I L N L P M E M
L R D Y Y F S A D A M V E I E T A L A N D F Q A D N M G I G L G L R T L V E A L
T N Q Y Y N S A E Y M A E L E I F L F N K L G H D S V G V G T T L R G V A E A M
F L E F C Y A P T L A A E A T L L Q P I R R R F G F D A A I L F S D I L V I P D A L L
M L E S C C F D P E L V A E I T M Q P V R R R H D T D A A I L F S D I V V P L R A A
M L D A C C L D P D L A S E I T L L Q P V R R R H G V D A A V F F S D I V V P L R L V
F L E F C Y N P D L A T E V T L L Q P I R R R Y G F D A S I L F S D I F V V P D A L L
F L E L C C R T P E L A A E V T L L Q P I D R L D V D A A I L F S D I L V V F D A M
M L E S C C F M P E L L A E I T L L Q P V R R R H D V D A A I L F S D I V V P L K A A
F L E V C R D P R L A S E L T L L Q P Y R R F P Q M A A I L F S D I L V I P E A M
R P L A D T D P Q A M A T L A M S A E I A G F E M V K A M G W D I T P M S E A F
M L E S C L M P E L A A E I T L L Q P V R R R H G V D A A I L F S D I V V P L K L A
M L D S C C F M P E L L A E I T L L Q P V R R R H D V D A A I L F S D I V V P L R A A
F L G L A T H P E W A A E V T L L Q P I R R R F G M D A A I L F S D I L M L P W A L L
F L D L C Y N P E L A S E V T L L Q P I R R R Y G L D A A I L F S D I L V I P D A L L
I G D V N R N G R K M A Q A H I I S Q E K Y G Y D G C V I D F D A T I A E A V
M L E S C C F D P D L V C E I T L L Q P V R R R H D V D A A I L F S D I V V P L K A A
M L D S C C F R P D L L S E I T L L Q P V R R R H D A D A A I L F S D I V V P L K A A
F L D F C Y S P S L A T E A T L L Q P I R R R Y N M D G A I L F A D I L L L D A M
M L E S C C F R P D L V C E I T M Q P V R R R H N V D A A I L F S D I V V P L K A A
F L D L C Y S P E H A V E V T L L Q P I R R R Y G F D A A I L F S D I L V I P D A M
I R D W Y F S A D I M V D V S H L A E D F G A D N M G V G L G L R A L V E A L L
F R Q R S E T P N I A V E L S L Q P F R A F G T D G V I M F S D I L T P P A F
F L D L C F T P E L A A E V T L L Q P I R R F N F D A A I I F S D I L V I P Y A L L
F R Q R S E I P E L A I E I S L Q P F R A F A P D G V I L F S D I L T P L P G I
M L Q A C L D R D L A T E I T L L Q P V R R R Y R V D A A I L F S D I L T V P L A L S
F P E A H T N A R M M A D L A A A V Y E K G C F E N Y G V P F C M T I E A E N L L
L L E I C A Q P P E L A A E V T L M P V R K L G V D A A I L Y S D I M N P V A
F I A L C T T P P L A T E V T L M P V R R F G M D A A I L F S D I L I L P W A L L
F L E L L K D P K D V A E V T L L Q P I R R R Y N I D A G I L F S D I L V I A E A M
H R E K R A S A A K Q A Q S Q I D C Y K R Y G N D L M I E Y S G L H G V G T A L L
F M S L C R N A E L A C E V T L L Q P L R R Y D L D A A I L F S D I L T I P D A M
M L E S C C F D P A L V C E I T M Q P V R R R H D V D A A I L F S D I V V P L K A A

UniRef90_S2XYM8 G A K V T L G S K I F E P H V T E Y A G T S V T E W E K S S P I N L E C G R A K
UniRef90_K9RMJ8 G D M D L V A E G K G P P V T E N P G T R T S Q K Q V D N L Y S L V Q P E E R S L P
UniRef90_D5E8N7 G C E I D L G T A I N R G P P E F V I S H P F A E K V E N P D I P A D V Y D Q R A R S L P
UniRef90_V8CLD1 G L E I E L F V A G E G P P R F L Q T T R D E V S I N A L K S G V Y P A R E S L P
UniRef90_UPI00042B3649 N I P F N T V K G K G P P V I F D P L G S A A D V D K V R E F N P E E S V S P
UniRef90_HOQZQ3 G I D L D I V A G T G P P V V I A R P V I R T S A D D V A S L P R L D A A A V D V P
UniRef90_H7F2N7 G V E V E I V K G G P G V V I H N P I R T L Q D V E E L D V L S P A T A V D G P
UniRef90_F7Z7A4 G V E V E I L K G A G P V I H N P V S S L K D V E K L G E L H P E E D D V P
UniRef90_UPI0004754426 G Q A V R F E E E G P V G P R L D P L P L E A V G D L D R S R L E D H L A
UniRef90_UPI00046352A8 G R D L R F E E E G R G P L L T P I R A D E I D E L D R S R D R F H E R N L E
UniRef90_G8AG66 G Q P L A F L E E G E G P L L E K L D P V R S V I E D L K R L S R D R F H E R N L E
UniRef90_UPI000373DE25 G S K T N D P E D G V P A I I E H Y N L K D L S S L D L S K I T E R K N D P W Y Q
UniRef90_UPI000464BD4B G R D L H F E E E G R G P L L M T P I K A E E I A E I D T S A F H V N L E
UniRef90_UPI000421D13F G L J A F E I K E H V G P V I E N P I R T A A D V D R L R V F H P E E S L P
UniRef90_G8M2C7 G S E I N F G S L R E C E P K I E K E A F A S V S E L F K D I A Q M L K E G N I E
UniRef90_U3GY38 G I D V D I V P G R G P V M A A P I R T R A D I D A L P I L L D T N V E
UniRef90_UPI0004263DC5 Q R N V R F E E G H G P R M D P I D E D G I A E L S A E G V I G H L A
UniRef90_Q5FS38 G Q S L E F I D G R G P V L G A I R S E A D L A R L D P K R V Q Q D A V A
UniRef90_C6HUN0 G L S L E F T E H K G P K F L N P V R T D A D I E R L A V P P R R V L E A T A P
UniRef90_B6QNT2 G M V V E M I D K K G P S F P Q P L V S P D D G Q Y E K I L K K D V D K K E L D
UniRef90_C5DDZ3 G M R V E M L E E K G P H F P E L I R T E E D M K K V L D Y H T D V L K E L D
UniRef90_K7SBJ7 G Q S L E F I D G R G P V L G A I R S E A D L A R L D P K R V L E A T A P
UniRef90_UPI00041F091C G V D V S I K P G V G P V I A N P I E T M A D V Q R L D G T L H P E K D V D
UniRef90_D5E737 G C K V N L I G S K F I Q P H V I S H P F S E D T D N I E A P K N L V E K A R I P
UniRef90_D6TGL8 G V S F E I R H E V G P L I H H P I R N Q D V E N I R I P N G P E I A P
UniRef90_W1PCN8 N I P F D L V K G K G P V I Y N P I K T G A D V D Q V K E F V P G E Y V P
UniRef90_A8I9S9 G I E F D M V K G K G P V I A N P M R S T E H L K Q L T P L S D P A S R L P
UniRef90_B7G0Z0 G I E F D V V K G T G P V I T T K V R T E E D V N N M P R H E F D D K V P
UniRef90_UPI000380C4B6 G V G V D I V A G T G P V I D A P V R T A A D V A A L P A L D P E Q A A
UniRef90_UPI00037F134C G I G V E I V P G R G P V M D R L A L S T R E D V D N L P V L D S E V P
UniRef90_D7CY02 G V E I D F S P G V L K E P V R S A Q V R A L R V P E G G E I A P
UniRef90_D8G245 G I N F D I V E S R G P M I D P P I R S V I E Q I E K L H P L E P A E S L P
UniRef90_UPI0003F9C657 G V D V E I V S G R G P V V A N P I R S F A A D V G A L P I L D H E V S
UniRef90_D5UN08 G L D V D I V S G I G P V I E Q P V I R S D A A V A A M P S L D A E Q V E
UniRef90_M7NM99 G L D V D I V P G V G P V L G T P V R T A A D V R A L P K M T D A A L D
UniRef90_G2IS33 Q Q D L R F E A G E G P R L A P P L A K A E L A T L Q A A P E R L L A
UniRef90_UPI00047670C9 K R N R W F T E G H G P E M D P I D V D G I D G L D G S R V M Q H L E
UniRef90_MOQN95 G V D L D I V A G T G P V I A S P I R S T A D V E A L P R F D L E P E S V G
UniRef90_G7WD14 G A V V D I D L G S S I Y E P H V I T G Y A M D D I A Q W Q E L P P F D P Y S Q R A V
UniRef90_Q93ZB6 G V P F D I E E V K G P V I I Q S P I R T E E D M K R L H P I D F E K L Q
UniRef90_A6BKM5 G A K V T L G D R V H E P H V T E Y A L H S V K E W E K I R P M D M N Y G S R V K
UniRef90_K8E9M9 G V E F D V V R G K G P V V E P V R S M E E V K K L K T L D D P D S S L P
UniRef90_A0A022LJC1 G V D I D I V P G T G P V V A T P I R D E A G V A A L P D L T P D R L E
UniRef90_U2PT63 G V G V D I V P G V G P V L D R P V R T E A D V D A L P A L T D E A L S
UniRef90_UPI0002EBD0EB G L N F E L V E S K G P I I E N P I R T F D Q I K N L K K I A P N E S L S
UniRef90_H2AYZ0 G M N V E M I D G R G P V F Q H P I R T V Q D I E D V L N Y E V I A E K S L S
UniRef90_M9SFY3 G C T V A V D K K D A A P M I K N H P F K D D P A A M M P I D E F L Q G G R V A
UniRef90_UPI0003B4A83D G V D I D I V P G K G P V L G T P V I R T A A D V A A L P T L D M D A L A
UniRef90_D3UHW4 G L P L E F I A G E G P R F V L Q K S I E S Y S D V C A L K K D A F E R L D
UniRef90_A0A021VPD9 G V A V D I V P G T G P V F E H P V R T A D D V A R L A P L D P D A L A
UniRef90_Q2NHV3 G C E V D I L G Y G G R T P E V V K S P F E K P E D I E I P D N F E T S G S R L E
UniRef90_F6FVP3 G V D V D I Q P G V G P V M D R S P Y R T A D D V A R L V E R D L D D G D T P
UniRef90_UPI0003B3BCC2 G V G V E I V P G R G P V M E H P V R T A E D V R N L P V L D G D T P
UniRef90_Q2QC56 G Q D L Q F L A G E G P H L S P R L L D A A L N S L V A V P A N P Y K D G R L S
UniRef90_T0IMN4 G A T I A F P E D D T A D L L K P A I L S S V E D I D K L Q P A N P Y K D G R L P
UniRef90_UPI00029B1063 G L G L Y F E T G E G P K F E R P I Q S L D D V K K L P K L D P T D E L G
UniRef90_U2YF64 P L G F D Y R I E S G V I G P V I A D P I T G P A D V P D E Y A S V A D E L D
UniRef90_UPI00035F36B2 G A K V T L G T E S Y E P H V I E Y A I N S V D E Y E N L K E M N M Q E G R A K
UniRef90_Q0RNY5 G L D I D I V A G V G P V V A E P V R D S A R L A A L R A L E P D D V P
UniRef90_UPI00046425EC G L P L A R F E K G V G P V F D K T I D S E E D I D R L D C K A D K K I S
UniRef90_R9N5G1 G T K L A Y P K G V N V A Y I L E P A L R S F E D I E N M D L V N V E K D G R F P
UniRef90_UPI00028805AB G S K I A Y P N N G V S Y L E E P V L K D I R L V D N L S P A D P Y K D G K L P
UniRef90_UPI000418B613 G Q K V S F E S G E G P R L E P I V S A E D F A K L A E S L N L A R L A
UniRef90_L7LJP1 G I D L D I V A G T G P V I A S P I R T A R D V A S I P R L D A E R V L G
UniRef90_D5UCS4 G V D V E I V P G T G P V I G T P V I R T L D D V A R L R D G P L D A E S L A
UniRef90_U7FP69 G Y P V R F E E G R G V L P S P P V R T R A D V I E G L R W G E P V G E L E
UniRef90_A6GDP1 D V A V E F E K P P Q L P S P V R T R A D V I E G L R W G E P V G E L E
UniRef90_C0WI72 G V N V D I V P G R G P V M E K A V R E K G D I G K L P I L L E A D V P
UniRef90_A8CBH0 G M K L S M E E G V G P R F A W R L E S P A D M R K L N F K P D I E G T L G
UniRef90_UPI0003B55A93 G C G L G V P I Q I D L Q Y C I K E H P Y T D S L D K L E Y P S D F L D R G R F P
UniRef90_C8XF57 G I D V Q I V A G T G P V V A A P I R T A A D V A A L P T L D P D A L
UniRef90_M1UD34 G V A V E I V P G R G P V L D A P I R T R E D V S N L P I L D V D V P
UniRef90_Q0BWA2 G Y G L H F A E G E G P V L P K L E E A D I D R L D F S Q L I P R I A P I M
UniRef90_Q8UBL6 H R N V S F S E G K G P A M D P I D I S G I E K L D A S D V M A H L S
UniRef90_K6AYY1 G A K V I F R E D E P A T V D E G C P V L K D R D V Y D M P P D P L R S G A R L C
UniRef90_H6MZU6 G V D L D I V A G T G P V I A A P I R S T A D V E S L P R L D P A Q V E
UniRef90_G0HED6 G V A V D I V P G R G P V L E H P V R T P A D I A A L P T V I E P G A Q L E
UniRef90_C6XIK9 G R N V R F V K G E G P Q L D P A S S A A D L D K F P L E K L L D R M S
UniRef90_F6ELH9 G V D L D I V A G R G P V V A E P I R S A D V A R L P R L Q P D E V
UniRef90_UPI0003B742CF K R N V R F T E G H G P E M D P I D E A G I S R L D A G G V I D Y L K
UniRef90_U2UY08 G T R L T Y P D Y G V S Y V R E P K F S S F G E V E G A E L V D I D K D G R L P
UniRef90_G4W924 G I D F D V V K G K G P V F P E P V I R T K E D V E M R L R V E D F G R S L P
UniRef90_U1HHB5 G R N V R F E V I G E G P R L D P L D T P D K V R T L S S T G D F T K L E
UniRef90_Q8DKW0 G I P F D I V E S K G P I I D P I R T L E Q V Q H L H P L E P E A A C P
UniRef90_A0LUP4 G V S L R I E P G V G P V F D Q P V R R A A D V A R I R P L D R A G S M T
UniRef90_T0I8A2 G A K V D L G T S F Y E P H V V E Y A I T S V K E W D R L A A V N S R Q G R A D
UniRef90_F5LB16 S I G I R F D I V K N V I G P V I H N P V R T K A D I E R L K P I Q V E E D L T E
UniRef90_A5G1D5 G Q K L R F A E G E P R L E R I D G L A G L E A L D P A A L R Q G T E
UniRef90_C1FD66 N I N V E M P G G L I G I L V P N P L R N P E D L S R L P R S V N V E E R L G
UniRef90_H5Y2U7 G T E M N D P E D S L P A L V R N H Q D L K S A D I Q L D F N K T K K E N D P W L A
UniRef90_UPI00034BB739 G L G L S F G A G E G P K F A R N P E N K S A V I Q N L P I P D E Q E L Q
UniRef90_C0ZYX0 G I D L D I V A G V G P V V A N P I R S I A D V A A L P R L V P E E V G

UniRef90_S2XYM8
UniRef90_K9RMJ8
UniRef90_D5E8N7
UniRef90_V8CLD1
UniRef90_UPI00042B3649
UniRef90_HOQZQ3
UniRef90_H7F2N7
UniRef90_F7Z7A4
UniRef90_UPI0004754426
UniRef90_UPI00046352A8
UniRef90_G8AG66
UniRef90_UPI000373DE25
UniRef90_UPI000464BD4B
UniRef90_UPI000421D13F
UniRef90_G8M2C7
UniRef90_U3GY38
UniRef90_UPI0004263DC5
UniRef90_Q5FS38
UniRef90_C6HUN0
UniRef90_B6QNT2
UniRef90_C5DDZ3
UniRef90_K7SBJ7
UniRef90_UPI00041F091C
UniRef90_D5E737
UniRef90_D6TGL8
UniRef90_W1PCN8
UniRef90_A8I9S9
UniRef90_B7G0Z0
UniRef90_UPI000380C4B6
UniRef90_UPI00037F134C
UniRef90_D7CY02
UniRef90_D8G245
UniRef90_UPI0003F9C657
UniRef90_D5UN08
UniRef90_M7NM99
UniRef90_G2IS33
UniRef90_UPI00047670C9
UniRef90_MOQN95
UniRef90_G7WD14
UniRef90_Q93ZB6
UniRef90_A6BKM5
UniRef90_K8E9M9
UniRef90_A0A022LJC1
UniRef90_U2PT63
UniRef90_UPI0002EBD0EB
UniRef90_H2AYZ0
UniRef90_M9SFY3
UniRef90_UPI0003B4A83D
UniRef90_D3UHW4
UniRef90_A0A021VPD9
UniRef90_Q2NHV3
UniRef90_F6FVP3
UniRef90_UPI0003B3BCC2
UniRef90_Q2GC56
UniRef90_T0IMN4
UniRef90_UPI00029B1063
UniRef90_U2YF64
UniRef90_UPI00035F36B2
UniRef90_Q0RNY5
UniRef90_UPI00046425EC
UniRef90_R9N5G1
UniRef90_UPI00028805AB
UniRef90_UPI000418B613
UniRef90_L7LJP1
UniRef90_D5UCS4
UniRef90_U7FP69
UniRef90_A6GDP1
UniRef90_C0WI72
UniRef90_A8CBH0
UniRef90_UPI0003B55A93
UniRef90_C8XF57
UniRef90_M1UD34
UniRef90_Q0BWA2
UniRef90_Q8UBL6
UniRef90_K6AYY1
UniRef90_H6MZU6
UniRef90_G0HED6
UniRef90_C6XIK9
UniRef90_F6ELH9
UniRef90_UPI0003B742CF
UniRef90_U2UY08
UniRef90_G4W924
UniRef90_U1HHB5
UniRef90_Q8DKW0
UniRef90_A0LUP4
UniRef90_T0I8A2
UniRef90_F5LB16
UniRef90_A5G1D5
UniRef90_C1FD66
UniRef90_H5Y2U7
UniRef90_UPI00034BB739
UniRef90_C0ZYX0

UniRef90_S2XYM8
UniRef90_K9RMJ8
UniRef90_D5E8N7
UniRef90_V8CLD1
UniRef90_UPI00042B3649
UniRef90_HQOZQ3
UniRef90_H7F2N7
UniRef90_F7Z7A4
UniRef90_UPI0004754426
UniRef90_UPI00046352A8
UniRef90_G8AG66
UniRef90_UPI000373DE25
UniRef90_UPI000464BD4B
UniRef90_UPI000421D13F
UniRef90_G8M2C7
UniRef90_U3GY38
UniRef90_UPI0004263DC5
UniRef90_Q5FS38
UniRef90_C6HUN0
UniRef90_B6QNT2
UniRef90_C5DDZ3
UniRef90_K7SBJ7
UniRef90_UPI00041F091C
UniRef90_D5E737
UniRef90_D6TGL8
UniRef90_W1PCN8
UniRef90_A8I9S9
UniRef90_B7G0Z0
UniRef90_UPI000380C4B6
UniRef90_UPI00037F134C
UniRef90_D7CY02
UniRef90_D8G245
UniRef90_UPI0003F9C657
UniRef90_D5UN08
UniRef90_M7NM99
UniRef90_G2IS33
UniRef90_UPI00047670C9
UniRef90_MOQN95
UniRef90_G7WD14
UniRef90_Q93ZB6
UniRef90_A6BKM5
UniRef90_K8E9M9
UniRef90_A0A022LJC1
UniRef90_U2PT63
UniRef90_UPI0002EBD0EB
UniRef90_H2AYZ0
UniRef90_M9SFY3
UniRef90_UPI0003B4A83D
UniRef90_D3UHW4
UniRef90_A0A021VPD9
UniRef90_Q2NHV3
UniRef90_F6FVP3
UniRef90_UPI0003B3BCC2
UniRef90_Q2GC56
UniRef90_T0IMN4
UniRef90_UPI00029B1063
UniRef90_U2YF64
UniRef90_UPI00035F36B2
UniRef90_Q0RNY5
UniRef90_UPI00046425EC
UniRef90_R9NSG1
UniRef90_UPI00028805AB
UniRef90_UPI000418B613
UniRef90_L7LJP1
UniRef90_D5UCS4
UniRef90_U7FP69
UniRef90_A6GDP1
UniRef90_C0WI72
UniRef90_A8CBH0
UniRef90_UPI0003B55A93
UniRef90_C8XF57
UniRef90_M1UD34
UniRef90_Q0BWA2
UniRef90_Q8UBL6
UniRef90_K6AYY1
UniRef90_H6MZU6
UniRef90_G0HED6
UniRef90_C6XIK9
UniRef90_F6ELH9
UniRef90_UPI0003B742CF
UniRef90_U2UY08
UniRef90_G4W924
UniRef90_U1HHB5
UniRef90_Q8DKW0
UniRef90_A0LUP4
UniRef90_T0I8A2
UniRef90_F5LB16
UniRef90_A5G1D5
UniRef90_C1FD66
UniRef90_H5Y2U7
UniRef90_UPI00034BB739
UniRef90_C0ZYX0

170 180 190 200
K D L R R H K E E A H Q F M T F V T E Q L T A F A N A M I E N G A D V I A L S D
N M A F S E P A I L H Q L L A K L S D S I A T Y V R Y Q I D C G A Q V V I Q M F D D
K W A L F K P E T F K M Y I R E A T C L C E G Y A K L L F E A G A D V I C L F D D
S Y L Y T N P E A L H H T L S K L E A T T E L I A Y I L S A Q L R A G A N A V I Q L F D D
N F A F S Q S K V L H S L L L Q K F A T S M A N Y I L Q Y Q A D N G A Q V V I Q I F F D
A M M H G R S E L W H Q L M A Q L A D M T E F L R V Q L E A G V H A I Q I F F D
S Y M Y R E P A L W L L M Q K L A G K M T A D Y L L I A Q I E A G A S A V I Q I F F D
A F M Y T E P K A W F A L M E K L A D M I T V Y V K A Q I I K A G A S A I Q I F F D
D Q A F G D S D G F G K L V D C L V E A V S A Y L L V A Q I E A G A C D A V I Q I F F D
D Q A Y R S P Q A M R R L L A V L A E Q S A A Y L L I R Q I E A G A D V V I Q I F F D
R W A Y G D P A G F G A L L M D L L V E V T A D Y L C T Q I E A G A E V V I Q I F F D
R S L R K E P E K V H E L L R F S T D A T K I V M K D F L E A G A G L I Q I F F D
D Q A Y A N P E A M R A L L Q L L A E K S A E Y L I R Q I E A G A D A V I Q I F F D
D Y M W S A P D I W R K L M D K L A D A T T V Y L R A Q I V A G A G A A V S I Q I F F D
K D L R K D K E N A H R A L L D Y V T D N F L I E Y A K L M I D N G V D L L I Q I F F D
N H M H S P E D D W H A L M E R L V P T I T T F L R T Q L D A G I D A M Q L F F D
L F A Y R H P K A F D Q L L A F L A D I S A D Y L V A Q I E A G A D A V I Q I F F D
D M M Q T N P A L F D R L L D T L T S S T A E M L C G Q I E A G A E A V I Q I F F D
E F I F S N P R G Y R A L L M E K V T R T V I D Y L L E M Q V E A G I H A Y Q L F F D
M W I Y K Y P N E S K A M L Q K I A E L C V E Y L A L Q V V T A G A Q L V Q V F F D
Q W L N E S P E L C H K L L Q K I T T D V A V E F L A Q Q I V A G A Q A M L V F F D
D M M Q T E P A L F D K L L D T L T T S T A E M L C G Q I E A G A E A V I Q I F F D
N Y M Y G Q P E V W S A L M E K L A D L V I T Y T K A Q I H A G S Q A I Q I F F D
K W S T L N P D Y A T Q C L N L A T T A C L E Y A N E L I K H G A D V I C L F S E
D M M Y S P E L W H A L M E K L T T V T Q S Y L G E Q V Q A G A G V D A V I Q I F F D
N F A F S Q P E I L H A L L M Q K F A G S M A K Y I Q Y Q A D H G A Q A V I Q I F F D
K L M F R G N P A L L H S F L D F L T E Q M L V Y A G Y Q I E S G A Q V I Q I F F D
D C L R G D N A C L I S F L F L D K L A D M I G D Y A C Y Q I E H G A Q V I Q I F F D
N H M H A E P E T W H A L L D H L A D L T L T F L R V Q V E A G V D A V I Q I F F D
A M M H G D P G T W H A L M E R L V P T I T S F L K K T Q V D A G I D A M Q L F F D
D Y L R Y A P E T A H A L L D K L T D L S V R Y L L K V Q L Q A G A Q A V I Q I F F D
D M A F S E P A M L H Q F L S K L A D A I A I Y V R Y Q I D C G A Q V V I Q I F F D
N H M H A E P K A W H A L M E R L V P T I T R F L Q T Q I T A G I D A V I Q I F F D
N H M Y T D P T T W H A L L D Q L A D I A I T F L S V Q A N A G I V A F Q L F F D
D H M H A E P G V W E E L A N W A D A S G E F L R A Q I E A G A S A G Q L F F D
D H A Y Q E P A R F G A I T E S I J A T T I D Y L S A Q I E A G V D A V I Q I F F D
L F A Y R H P K A F E K L L M L L A D V S A D Y L V A Q I E A G A D A V I Q I F F D
N Y M H G D P T T W N V L M G R L A D I T T F L R A Q I E A G V D A V I Q I F F D
K A L R R R K T E A H G R A L M S F V T D A L I R F G K A Q I E A G A D V I A I S D
N M C H T A P D V L R G A L L S H L T K A I T E Y V V Y Q V E H G A H C I A I S D
K E L R K K K E D A H K Y M E L V A D E I I R F A R A Q I D A G A D I I A I S D
Q M M T K N P E I L H A F L A H L A E A L G V Y V C H Q I D C G A Q V V I Q I F F D
N H M Y S R P D I V H A L M S K L A D L T T V F L R A Q I G A G V D A V I Q I F F D
G H M H E R P E V F A R L L D R V A E L D I A F L R A Q V L A G A S A V I Q I F F D
N M A F R E P D L L Q K L L D H F A E S I G E Y L K F Q I K S G A Q L V I Q I F F D
I F I N T Y P E L I H K L L N K I T A D V A I E F L C K Q V V I A G A Q L V I Q I F F D
F G M M M A P E E V D K W V A A T A P I C K A Y A Q T L I D N G A D I I Q M S E
D H M H A D P D A W H A L M T W A A D L T G S F L R A Q V L A G A S A A Q L F F D
K M L Y A N P Q T M H Y L L K Q I D D E L K G Y L L R A K Q I Q A G A N A V I Q I F F D
D Q M H A D P G T W Q A L M D W C A D V T G A F L R A Q V L A G T S A V I Q I F F D
K M L N L D L F A V E D A L E A A V S A Y I K Q L N E V K P E V I C V F A D
D H M H A D P G T W R L L T E W T A D L T G R F L R A Q V L A G A S A V I Q I F F D
N H M H S D P Q L W H Q L M Q R L V P T I T R F L Q I Q V D A G I D A M Q L F F D
D H A Y R D P S A F Q A I T D A I T E V T I E Y L S G Q V E A G A E G L Q L F F D
K L I H K N P E A V H K L C R V S L E T C K A Y A K A A L D I G L N P T I S E
K M A F A E P Q T L H L L D K V A D S V I D Y L N A Q V K A G A Q S L M I F F D
H F R A R H P E A F R A L L D V I A D A V L D S L Q Y Q I D N G A D V V I Q I F F D
K E L R K K N K K A H E F M S F V T D E I I N F A R A Q I D A G A D I I A I S D
A M M Y G E P E L W H E L L D R L A T I T T A F L R V Q V D A G V D A V I Q I F F D
Q A Y T N P M M L H R L L A F N T R E L T E Y L S N Q I T S G A N A V I Q I F F D
K A T V K K E G A H R L L Q Y S T D C I V K C C R D L N R K L G I G F G L S E
K G M L K Y P E K V H T L L E I V T E T N L R I V K A F A N L G V D L G M S D
L F A Y R H P D L F Q R L L D R L T A A S I D Y L S A Q L D A G V E A V I Q I F F D
A M M L A E P E L W H S L M G R L T I T I A F L R A Q L D A G V D A V I Q I F F D
D H M H A D P A A W A A L M D W T A E V T G A F V L R A Q V T A G A S A A Q L F F D
D Q A Y R D P D L M Q R F V D Q L V T A S I R Y L L R Q I D A G A D A V I Q I F F D
K L L F T E P A L F R S L M A N M S D L L A R Y L L I G Q I D A G V D A V I Q I F F D
N H M H A E P E T W H M L M R R L V P T I T N F L R V Q V D A G I D A M Q L F F D
K F V Y E H P E A T H T L L Q V I T D L C V E Y L V G Q V D A G A Q V L V I Q I F F D
K W M F K R K A D V H K L L E V T K L A M L D V I N F A F E N G A D Y Y V M A E
D H M H A E P Q V W H A L L T W V A G V T G A F L R A Q I L A G A S A V I Q V F F D
N H M H G D P E T W H A L M Q R L V P T I V N F L K V Q I D A G I D A M Q L F F D
H F A Y T N P E A F D R L L A R L T E A T I T Y L S A Q V E A G A E A L M L F F D
D Q A Y Q E P A A M E K L L A L L A E V S A D Y L V A Q I D A G A D A V I Q I F F D
M D L L T E D K L T N D V L E Y C R K I S A V F A K A Q K D A G A H A T S I G D
N Y M R D T P D T W H A L M A R L A D I T I T F L Q V Q L D A G V D A V I Q V F F D
N H M Y S E P Q T W H A L M E K L T P T V I T F L R T Q L E A G I D A L Q L F F D
L K A Y Q D P E D L D A I L D L V E T T A H Y L K A Q A D A G A D A L M V F F D
H H M H S A P D V W H Q L L G K L T D I A I V F L K T Q A G A G V D A V I Q I F F D
L F A Y Q Y P K A F E R L L T L L A D I S A E Y L V I T Q I D A G A D A V I Q I F F D
R G M L R D R D G V H K L M Q Y A T D N V V K C A H D L H E R L G L G L S E
E C M L R P E T A R K F L S F L A E Q I G R Y V S F Q V Q N G A Q L V I Q V F F D
M M A Y R Q P E A F S Q I I D A L V I E N S I R Y L L G Q L A G A D V L Q I F F D
D Y L Y R P D L L H K E L N H L A T A I A D Y L C Y Q I D C G A Q V V I Q I F F D
A L M Y S D P A T W H A L L D R L A D I S R E F L L A Q I D A G V S V V I Q V F F D
K E L R K N N A K A H E F M E F V T N Q L I A F A K R Q I E A G A D I I A I S D
Q L M Y S E P E L L W R Q L M D K L G H M V S T Y L R A Q I K A G A D A V I Q I F F D
E V A Y A D P A L L J A V I E T V T T A T I D Y L S W Q I E A G A D C V M L F F D
Q W L R E H P N E S Q Q L L E R L T T V V I D Y L D A Q I K A G V H M V Q V F F E
R A T R K N P A A T H Q L L R L C D A L K D I Y K E Y I Q R G I I A M C D
K M L Y A E P E T L H L L L D K L A D A V A L Y L N A Q I K A G V Q S V I M I F F D
N H M H S D P K T W H A L L L G S L A D T T I C F L Q T Q L K A G V D A V I Q I F F D

UniRef90_S2XYM8 P S G T G E I L L G 210 P K F F E E Y A V K Y L N M L L D G I K D Q T I V H I C G Q M
UniRef90_K9RMJ8 S W A G Q L S P Q D Y E T F A L P Y Q K R V L F E Q V K Q T H L I L L V S G S
UniRef90_D5E8N7 T V A G P E T L D C L L F E T L I K F S Y Q H L T H S I E G D V V M H M C G N T
UniRef90_V8CLD1 S W A G A L S P R A Y I E T L I K F S Y M C E I A R A L K K D F V M L F C K G V
UniRef90_UPI00042B3649 S W A T E L S P V D F E E F S L P Y L K Q I V D S V K Q T H L I L Y A S G S
UniRef90_HOQZQ3 S W A G T L S V A D Y Q T Y V A P H S A R V L A E V A E Y N V P R I H F G V G T
UniRef90_H7F2N7 S W V G A L S R A D Y Y I K P V M R K I I G K V K Q E Y P N V P V I M Q A V S A
UniRef90_F7Z7A4 S W V G A L N A A D Y R N Y I K P V M E R I F T A L R T E N T P F I L F G V G A
UniRef90_UPI0004754426 S W A G T L L A F P R W S V D P N A R I V A N V R A A R P G V P I I A F P R N A
UniRef90_UPI00046352A8 S W S G D E A S F Q A F C V E P V A E I V R R V R A V Y P E V P I I G F P K G A
UniRef90_G8AG66 S W A G V L P A G E F R R W V I E P T R R I V D L I K A R H P A I P V I G F P R
UniRef90_UPI000373DE25 P A S G T L L D K K T Y R D F V L P Y T K E I V D Y V H S F G T Y H V C G E T
UniRef90_UPI000464BD4B S W S G D E A T F K M C C V E P V A E I V R R V R E V H P D T P I I G F P K G A
UniRef90_UPI000421D13F S W V G S L S K E D Y L A Y V F P T M Q K I F G A L A D L D V P M I Y F G K D T
UniRef90_G8M2C7 P T A T G E I L L G P K M F E E Y A V R Y L N K L I D G I H T D P V I V H C G N M T
UniRef90_U3GY38 S W V G F L P Q A D Y R T H V L P Y S Q R L I A S V R D I P R I H F G V G T
UniRef90_UPI0004263DC5 S W A G V L G E E E F A R Y A V E P V R R M I A S V P S A R I I A F A K G A
UniRef90_Q5FS38 S W A G I L P P S A F R R Y V I E P T R Q I V E Y I R A R H F P R L L G G I M
UniRef90_C6HUN0 T W A G S L C A E H Y R E Y A L P Y T R E V V R A L A R H G I P S I L Y I N G T
UniRef90_B6QNT2 S W A G E L S P A T F K E F S L P Y L R Y I S E H L P K R P M T V F A K G A
UniRef90_C5DDZ3 S W G G E L G P R D F D E F S L P Y I R Q I S K R L P H R P L T I F S K G S
UniRef90_U7SBJ7 S W I L P P S A F R R Y V I E P T R Q I V R H I Q E K H P G T P I I G F P R L G
UniRef90_UPI00041F091C S W I G A V S R E D Y Q E S I K P Y M N K I F A A L Q P E G V P L I M H G V G A
UniRef90_D5E737 G N V C S D L L N S D M F E F V K P Q Y H R F C E N T G I K I I H M C G N A
UniRef90_D6TGL8 S W V G A L S P S V Y E R Y V K P Y V H H I F D S V K Q T G I I H F G T G T
UniRef90_W1PCN8 S W A T E L S P I D F E E F S L P Y L K Q I V S S V K L T H L I L Y A S G S
UniRef90_A8I9S9 S W A H H L S P A Q F T E F S L P Y M E R L T V K Y P H V P V I M H A N G G
UniRef90_B7G0Z0 S W A H Q L S P H W F E T Y A K P A A Q K A I R K I K S Q Y V I F A N G G
UniRef90_UPI000380C4B6 S W A G A L S E R D Y R A L V L P H S R K V L A G L A D A G V P H F G V G T
UniRef90_UPI00037F134C S W A G F L T E R D Y R E F V L P Y S T R I L A E A V G V I P R I H F G V S T
UniRef90_D7CY02 S W A G L H D A R V Y R E F A K P Y N T R I F E A L A F G V P R L Y I A V
UniRef90_D8G245 S W A G Q L S P Q D Y E T F A L P Y Q R Q V V E Q V K A T H L I L Y I N G S
UniRef90_UPI0003F9C657 S W A G F L L S E R D Y R E F V L P Y S A Q I F E A A K E I P S I H F G V G T
UniRef90_D5UN08 S W A G A L S A D Y R E Y V L P H S A R V F A A L R E T P G F H F G V G T
UniRef90_M7NM99 S W A G S L S L A D Y T N H V A P A S A R A L D H V R D T G V P L V H F G T G T
UniRef90_G2IS33 S W A G S L S P Q Q F R Q W V A P N A A I V T A L K A R H V I G F A K G A
UniRef90_UPI00047670C9 S W A G V E R E F E A F A V K P V A R M I A S I K A R R P N A K L I A F A K G A
UniRef90_MOQN95 S W A G M L S E A D Y R Q Y V A P H S T R V I F A E V A E Y G V P R I H F G V G T
UniRef90_G7WD14 P S G T G E I L L G P R S F D E F V V P Y V N K L I A G L R E T H I V H C G K M
UniRef90_Q93ZB6 S W G Q L T P E M W E R W S K P Y I E E I I H A D E V I S T V P R T H F G V G T
UniRef90_A6BKM5 P S G T G E I L L G P K L F E E Y A V H Y I N R I I D H L K M G V I V H I C G Q M
UniRef90_K8E9M9 S W A H H L S P Q Q Y A E F S H P Y N E R V M E I V R A K Y P D T P L I F H A N T
UniRef90_A0A022LJC1 S W A G A L S R D Y R S M V L P H S A G I F A D E V I S T V P R T H F G V G T
UniRef90_U2PT63 S W V G E L A E D D Y L A H V Q P A S G R V L R A M G R L G V P R I H F G T G T
UniRef90_UPI0002EBD0EB S W A G Q L S P Q D Y D I F A Y Q K K V V D V V K E Y P D T P L I L Y I S G S
UniRef90_H2AYZ0 S W G E L S S M D F D E F S L P Y L K R I S E T V P Q R P M I I F A K N S
UniRef90_M9SFY3 P S G S T D M L A P D M F E E A A G K A V A A S L G A T K N G N V L H I C G D A
UniRef90_UPI0003B4A83D S W A G A L S L D D Y T R H V A P A S A R A L S H V R N V P I V H F G V G T
UniRef90_D3UHW4 S W A N A L A K D A Y T F E S W G Y M K D I A K H V K M H H V I L F P K G V
UniRef90_A0A021VPD9 S W A G A L S L A D Y E A H V A P A S R R A L S H V A D L D V P V V H F G T G T
UniRef90_Q2NHV3 P T S S G D L L S P L D F A Q L S V P A L E D I Q E V M K S Q N V L H I C G H T
UniRef90_UPI0003B3BCC2 S W A G S L S L A D Y A A H V A P A S S T R A L A H V A D L R V I H F G T G T
UniRef90_UPI0003B3BCC2 S W A G Y L N E A D Y R E F V L P Y S K E L A A V G V I P R I H F G V G T
UniRef90_Q2GC56 S W S G S L A P A E F E R W V I A P N A R I A S A M Q Q R Y P H V P V I G F P K
UniRef90_T0IMN4 P M S C T V V S P T V F R K F S L P Y L K E L V D F I K N Y P V V H I C G Q T
UniRef90_UPI00029B1063 S W G V L S P R D Y K E F S L Q Y M H K I V D G L R K V P V T L F T K N G
UniRef90_U2YF64 T Y A G S L P P A D Y R E F L Q P L H R R I C A G V D A P V L L F V R N M
UniRef90_UPI00035F36B2 P S G G E I L L G P R D F E Q F A V K Y I N K V V H S L Q E E K I G T I V H I C
UniRef90_Q0RNY5 S W A G A L S E D D Y R R Y V A P H S A R V A A F A G E V P R I H F G V N T
UniRef90_UPI00046425EC S W G G A L L E R D K F F E F S W N Y M K T I S K E I K E K Y P N V P V I L F S K
UniRef90_R9N5G1 P M A R N L S K K F N E F L P Y L R Q T I E R E F Q G I H I C G N T
UniRef90_UPI00028805AB P V S T S L I S V K Q F R E F S M P Y E K M C V D K M R K G T S I H I C G K S
UniRef90_UPI000418B613 S W A G V L P E F E Q W C V A P I K A V S G L K Q K H K T A R I I G F P R G A
UniRef90_L7LJP1 S W A G T L S K A A Y E F V A P H S S R V M A E V A E Y G V P R I H F G V G T
UniRef90_D5UCS4 S W A G A L S L A D Y T T H C A P A S A R V L A Q A R A L G V P T V H F G V A T
UniRef90_U7FP69 T W A G D E A G F K R W S I E P T R R I V D G V R A V R P D A K I I G F P K A S
UniRef90_A6GDP1 S W A G A L G P R D Y I E H V L P H T R T L V E R V Q A H P V I L F A R G N
UniRef90_C0WI72 S W A G Y L N E R D Y R E F V L P Y S Q E L L A S V D I P R I H F G V G T
UniRef90_A8CBH0 T N A S Q F A A E A Y D E I G A P Y M A S I A K R V K A R R P H V T M I A F P K
UniRef90_UPI0003B55A93 P T A G P A L M S P K L F K F V V P V L S E I V D K T N G P L V L H I C G N T
UniRef90_C8XF57 S W A G A L S R P D Y E R F V A P H S A A V F A A V A D L P V P R V H F G V G T
UniRef90_M1UD34 S W A G F L T E R D Y T E F V L P Y S T E L L Q E I E Q Y A I H F G V G T
UniRef90_Q0BWA2 S W A G L L S P L S F A R W T A P A R Q I T A A L K A R S V P V I G F P R
UniRef90_Q8UBL6 S W A G V E K E F E E Y A I K P V A R I I A S V R A R R P S A K I I A F A K G A
UniRef90_K6AYY1 A F A G P N L I S P D M Y R E F A L P E R K L A K D V Q E Y G I P F S I H I C
UniRef90_H6MZU6 S W A G A L S E A D Y R T F A P H V D R V F A E L A E Y G V P R I H G V G
UniRef90_G0HED6 S W A G F L S L K D Y R E F V A P Y S Q R I F D A V R P Y P M I H F G V N T
UniRef90_C6XIK9 S W A E G E D S M D R L Y V T K P T Q K L I Q R V R D L G V T Q P I I G F P R G S
UniRef90_F6ELH9 S W A G A L S L A E Y R E F V L P H S T R I F D E L E A G V I H F G L G T
UniRef90_UPI0003B742CF S W A G V E K E F E A F A V K P V A R M I A A I K A R R P N A R V I S F A G A G
UniRef90_U2UY08 P M A S R D L L N R R Q F Q E F Y K P Y L D Q V V R R M N E F Q T I H I C G H T
UniRef90_G4W924 S W A H H L G A D D W E T W A K P Y A E R V A S V Y D C E S V P I I Y F A N G G
UniRef90_U1HHB5 T W A G V L P P R E F L R W S V E P T R R T V E K V P G A R I I G F P R G A
UniRef90_Q8DKW0 S W A G Q L S R Q D Y D T F A Y Q K Q V I S Q Q V K A V Y P D V P L I L Y I N G S
UniRef90_A0LUP4 S W A G A L H P D D Y R R Y V A P H S G K L A G L P V P R I H F G V G T
UniRef90_T0I8A2 P S G T G E I L L G P K P F E E F A V K Y I N K I I D S I N K Q T I V H I C G Q M
UniRef90_F5LB16 S W V G A L S P A D F S A F V L P A I Q G I E E R L N A P K I Y F G F V A S
UniRef90_A5G1D5 S W A G L L P D L F R A H V I H P T A R I V E Q L R K V I G F P R L G
UniRef90_C1FD66 A M C E H K D C F L S F A M P S L T K I A K E L K A R H P E I P L L V F A R D A
UniRef90_H5Y2U7 P A S G T L L K K S Q Y I E F V K P Y A M E H I H E L G G M C C Y H I C G N T
UniRef90_UPI00034BB739 T W G V L G H R E Y L E F S L F V C L F V C
UniRef90_C0ZYX0 S W A G A L S L A D Y R E F V L P H S E R V F A E V A A A G V I H F G V G T

UniRef90_S2XYM8 R S V Y E Q I D K V H S D A L S F D A I V P L K E A R K N L Q D R V L M G
UniRef90_K9RMJ8 A G L L E R M S Q S G A D I N V D W T V D M A D A R R R L L G K E M K V Q G
UniRef90_D5E8N7 T S I L L S E S L A N C G F E F I S I E E S V S V A E A K S Q I L G S R T I L T G N
UniRef90_V8CLD1 G R Y E V D M C G A G F E F E V S I D W G V G M G R A K Q L L G D K F V L Q G N L
UniRef90_UPI00042B3649 G G L L E R L A L T G V D V V S L D W T V D M A E G R K R L G H D I A V Q G N V
UniRef90_HOQZQ3 G E L L A P M A H V I G A D V I G V D W R V P L D E A A R R V P G K A V Q G N
UniRef90_H7F2N7 A H L I D E F S D L K L D V V G I D W R M T I Q E A R E R R L P H M A L Q G N L
UniRef90_F7Z7A4 G H L A L E W N S L P I D V V G L D W R L P I Q K A R A L G V T K A I Q G N L D
UniRef90_UPI0004754426 G S R L S G F V D A V R P D A V S L D W S V D G D A A R A L I Q Q K R L C I Q G N L
UniRef90_UPI00046352A8 G F N Y A S Y R S L T G I T G L G L D W T V P L T A A K A L Q Q K G G A V Q G N L
UniRef90_G8AG66 G A Y E A Y V S D S G V D A V G L D T T V P V A W A A G N L Q S R V P V Q G N L
UniRef90_UPI000373DE25 S H M T L D L V E S G C N M L S I D N R V S L V D T K K L V G D R L P I V I G N
UniRef90_UPI000464BD4B G A L Y Q D Y R Q K T G V T A L G L D W S V P W S Q A R A L Q R E G A V Q G N L
UniRef90_UPI000421D13F A E L L V D F T R T G A T V I G V D W K I P L A E A C R R V G R N F A V Q G N
UniRef90_G8M2C7 N T V K N L I P Q K S D A I S T D A V V N L K L K K E F P F L T T M G
UniRef90_U3GY38 G E L L G A M A E A G P D V V G V D W R I P L D V A A S R I T A A S Q P K V L Q
UniRef90_UPI0004263DC5 G L F L K D Y R R T G A D A I G L D W S V P L S F A A E L Q K D G P I Q G N L
UniRef90_Q5FS38 V R E Y A Q K T G V N T L A L D T V A D P A Q I S E L V S E V R P G L T L Q G N
UniRef90_C6HUN0 A A L L D L M D Q A G T D V L S I D W R L P L D K A I P R I S P E K A V Q G
UniRef90_B6QNT2 W Y A L E D L C E S G Y N V V S L D W L H D P A E A Y R I A R G R V T L Q
UniRef90_C5DDZ3 W Y A L D K L C D S G Y N A V S L D W L W D P K D A V K V N A G R V T L Q G
UniRef90_K7SBJ7 G V M V R E Y A E K T G V N T L A L D T V A D P A Q I G A L V P D G V T L Q G N L
UniRef90_UPI00041F091C R H L A Q D W A D L P L D V V G L D W R Y P I A D A R A D G I K K S L Q
UniRef90_D5E737 N P M L D S L A E C G F Q G I S I E E K V K D F Q A I K K M V G N K S C
UniRef90_D6TGL8 S A L L E S M A E A G G D I I G L D S H V E L D E W E R V G F E H G V Q G N L D
UniRef90_W1PCN8 G L L E R L A L T G V D V V S L D W T V D M A E G R S R L G H G V A V Q G N
UniRef90_A8I9S9 T S G K L E L M R E S A A D V I G L D W A V D M K S Q A R T L L G P D V S G V Q
UniRef90_B7G0Z0 S S Y L E L Q R D M G A D M I A V D W A V N L S Q A R T L L G P D V S G
UniRef90_UPI000380C4B6 G E L L G A M G E A G A D V V G V D W R V P L D A A A R R A P G K V L Q
UniRef90_UPI00037F134C G E I L G A M S T A G S E V M G V D W R V P L D V A A E R I D A A S G P T V L Q
UniRef90_D7CY02 G A L H L Y G E I K D L P C E V V S V D W R V P L S H V R P L L P G K T V L Q G N
UniRef90_D8G245 A G L L E R M P K S G V D L V S V D W T V D M A E A R A R L L G S K V G V Q
UniRef90_UPI0003F9C657 G E L L G A M A E A G P D V I G V D W R V P L D V A A E R V A G V V G P L V L Q
UniRef90_D5UN08 G E L L G A M G E A G A D V V G V D W R V P L D E A A R R V P G K A L Q G
UniRef90_M7NM99 S E L L G A M R N V I G V D V M G V D Y R L P L D E A N R R L G G D I P L Q G N
UniRef90_G2IS33 G A K L P D Y T E T G V D A L G L D E T I D P V W A H K A L P A G L P V Q G N L
UniRef90_UPI00047670C9 G L L K T Y R Q T K A D A I G L D W S V P L D F A A E L Q K D G P V Q G N L
UniRef90_MOQN95 A E L L P A M T A A G A D V I G V D W R L P L D E A V R R V G P G T A V Q G N
UniRef90_G7WD14 H K V Y D Q L K L R A D A H S F D S L V S L K E A K T M L P G K V T V G
UniRef90_Q93ZB6 G L L E R M K G T G A D V I G L D W T V D M A E G R R R L G S E V S V Q G N V
UniRef90_A6BKM5 R N V Y A Q V E M I H S D V L S F D S C V A M S D A K K H L K K H V L M G
UniRef90_K8E9M9 G G H G K L H E I K R S T A D V I G L D W E T D M A E A R S I M P D R L V Q G N
UniRef90_A0A022LJC1 G E L L G A M G E A G P E V V G V D W R I P L D D A A G R V P G K V L Q
UniRef90_U2PT63 A A L L R A M R D A G A D V M G V A R D L T L S R A D E L L G G A T P L Q G
UniRef90_UPI0002EBD0EB A G V I E R M A R T G V D I S L D W T V D I K E A S E R I P N N T I G I Q G N V
UniRef90_H2AYZ0 W Y A L D L C G K N F D A V S L D W S W D P T Y A T K I N N G R V T L Q G N L
UniRef90_M9SFY3 Y P I V D K M A C G P S V K G V S I E E K V D P Y K A V E K V G K D T V L V G
UniRef90_UPI0003B4A83D G E L L R A M H D I G T D V I G V D Y R V P L D E A S R R L G N I V L Q G
UniRef90_D3UHW4 A G Y L K H I D G D F V F G V D W S T P L E L A K T L G K K Y V L Q G N L
UniRef90_A0A021VPD9 G E L L V A M R D V I G A D V V G V D H R I P L D E A N R R L G G R T P L Q G
UniRef90_Q2NHV3 A G I L K A M L S C G Y N G I S I E E A V D M R Y A Q K H E L G D K T Q V C G N
UniRef90_F6FVP3 G H L L A A M R D V L R D A G L T H R Y R T P L D E A A T V L G P D V P V Q G N
UniRef90_UPI0003B3BCC2 G E L L G A M A E A G P E V V G V D Y R M T M D T A A A R I H A A A G P H A L Q
UniRef90_Q2GC56 G A G E K Y A R E T G V N A V G V D E T I D P L W A A R E L P A N M P V Q G N L
UniRef90_T0IMN4 N K I W Q D V V D L G I G G I S I D N V A S L K E C K L A V G S Q I K I M G N
UniRef90_UPI00029B1063 G Q W I E A I A A T G C D A V G L D W
UniRef90_U2YF64 A G R L D A L A D A D P D A V S L D W T V D I A D A R D E L G D V A V Q G N
UniRef90_UPI00035F36B2 G Q M R S V Y K E V N M I Q S N A L S F D S V V S M K N A R A N L P N R I L M G
UniRef90_Q0RNY5 G E L L A A M G Q V G A D V V G V D W R V P L D E A A R R I G P G R A V Q G
UniRef90_UPI00046425EC G V G L Y M S D M D G D F D V L G V D N W T P M D Y A L J E I F Q D N Y T L Q G N
UniRef90_R9N5G1 K D R W G E V V D A G V S F W V D N C E S L K E L K E A Y G N R V A I S G N
UniRef90_UPI00028805AB K E I W E S I L L E T G V S S F S I D N A E D I E E A K K I L G P K V C I S G N
UniRef90_UPI000418B613 G P R L R Q F A Q D T A V S A L G L D S S I D P V W A A A E F D Q N L V L Q G N
UniRef90_L7LJP1 G E I L G S M T D V G A D V I G V D W R I P L D E A H R V A V Q G N L D P T V L
UniRef90_D5UCS4 G E L L V A M R D A G A D V M G V D Y R V P L D E A S R R L G G G T P L Q G N
UniRef90_U7FP69 S A R M M A F V I G P T G V D A V G F D W T A P D Q V A L D I Q K K V P I Q G N L
UniRef90_A6GDPI M N I L G A T A Q V G P A D V V G V D W S I G M D Q A I E L V G S D R V V Q G
UniRef90_C0WI72 G E L L Q A M S E A G S E V M G V D Y R V A M D A A Q R V N S R D P A L L F A
UniRef90_A8CBH0 D R P S A G F A D S A F D V I S L G S S A E I E S M Q R F S G Q C E E K I D Q
UniRef90_UPI0003B55A93 D L I I P L M C E T G V K G L S I E E G A N M K E A A N V A Q N G V R V F G N
UniRef90_C8XF57 G E L L T A M R D V I G A D V V G I D H R I P L D E A S D R L G G A T P V Q G
UniRef90_M1UD34 G E I L G A M S R A G S E V M G V D W R V P L D K A A E R I A A V S G P K V L Q
UniRef90_Q0BWA2 T L L Q N Y A S E T G V N A V G M D T S V D P A M A R K M V P A E I A L Q G N L
UniRef90_Q8UBL6 G Y L L R D Y R R K T G A N A I G L D W S V P L S F A R D L Q K E G P V Q G N L
UniRef90_K6AYY1 G N T N G I Q D M G T T G A R I V D W M L D I K E A R R L V P E N I V L M G N
UniRef90_H6MZU6 T G E L L A A M A E P A D V I G V D W R V P L E E A V H R R V G P G K A V Q G
UniRef90_G0HED6 A E L L G E M A A V I G P D I I G V D W K T P L D V A A A R V T A D R V P R A I Q
UniRef90_C6XIK9 G A M L E P Y A K H T G D T G V G L D T A L P V K W V H E A L P K S M P V Q G N
UniRef90_F6ELH9 G E L L G A M G E A G A D V V G V D F R I P L H E A A R R V G K K A L Q G
UniRef90_UPI0003B742CF Y L L K T Y R H K T G A D A I G L D W S V P L E F A A E L Q K E G A V Q G N L D
UniRef90_U2UY08 R D R W D Q V T G S G V S G F W G D N M E D L A E F K E A Y G D R V A I T G N
UniRef90_G4W924 S G Y L E R Q R G L K G Y N M V C V D W G C G L E A V D R L G C N Q V G I S G
UniRef90_U1HHB5 A A L L P G Y V D A T G V D A V S I D W T A E P S L I R E R I Q T R V A V Q G N
UniRef90_Q8DKW0 A A I V D R M A A T G V D I V S L D W T V D L G T I R Q Q F P P S V G L Q G N
UniRef90_A0LUP4 G E L L P Q F R A V G A D V V G V D W R V P L D V A A R R I G A D A V V Q G N
UniRef90_T0I8A2 R K V Y A G V A K I K S D V L S F D S I V S M K E A R E N L G D R I L M G
UniRef90_F5LB16 G E L L P Y L R H L K A D V I S V D W R V E I S E A R K R L G P A F A V Q
UniRef90_A5G1D5 G L M T P Y I A D T G V D A V G M D T S V D P V A L A R L A P R R V I A F Q G N L
UniRef90_C1FD66 P Y A L P L L Q A A G Y D V M T V D T V K P G D V A R R E L A P K Q L Q G N F D
UniRef90_H5Y2U7 R S I V T E M V D T G P D M L S I D N L V D L E Y V K G Q V G E R L P I L G N
UniRef90_UPI00034BB739 G E L L G A M G E A G A D V V G V D W R I P L D V A A G R V G P G K A L Q G
UniRef90_C0ZYX0

UniRef90_S2XYM8 N V S T F A L E F G D E E R V Q K L T K F C V Q S G S D I I S P A C G L V L G T K S
UniRef90_K9RMJ8 N L D P G V L F G S K E F I R D R I H D T V S K A G H I L N L G S H G V L P T T
UniRef90_D5E8N7 E S T T N T L D R Y A S T P E E V D E E A F K C L E E G G V D I L A P G S G L A P D E T
UniRef90_V8CLD1 P A L L Y D R A M E Q G V D E I V R I M G K G A G G H I F N L G H G V L P D L
UniRef90_UPI00042B3649 D P G V L F G S K E F I T N R I N D T V R K A G K D G K H I V L N L G H G V L K V G T
UniRef90_HOQZQ3 N L D P T L R F A G P D V V E A E V R R I R K D D G G H I F N L G H G V L P P T
UniRef90_H7F2N7 D P S M L L A R E K C L E Q A N E I L L Q G T K K P G G F I F N L G H G V L P P T
UniRef90_F7Z7A4 P A V L L A P W E V I Q E K A A A L L D E G M A Q G P G Y I F N L G H G V L P D V
UniRef90_UPI0004754426 D P M R L V A G G A A L D E G V D A I L S D G F G G D G P F V F N L G H G V L P P T
UniRef90_UPI00046352A8 D P L R L V A G G R A L E E G V A A I L D T L G D G P L I F N L G H G V L P P T
UniRef90_G8AG66 D P I M L A A G G D A L R T A A S E I L E T L A G K P F V F N L G H G V L Q T T
UniRef90_UPI000373DE25 V D P V E V M M L G S V E D V Y A G V K K C I E E G G Y L L S T G C G I P L P T
UniRef90_UPI000464BD4B D P M R L V A G G K A L D E G V T A L L R E L G Q G P L I F N L G H G V L P N Q S
UniRef90_UPI000421D13F L D P V L L F A P W D V I E R R A R A T V E A G G F V F N L G H G V L T H H N
UniRef90_G8M2C7 N L S T Y L L Q F G T P E A K V H D Q T I R R L N D G T L D I I S P A C G L S T S S
UniRef90_U3GY38 G N L D P A L L F A S E D A L R T Q T I N R I K L D D E T G H I F N L G H G V L P T T
UniRef90_UPI0004263DC5 D P M R V V A G G A A M E S A I D R I L D V L G Q G P L I F N L G H G V L P D A
UniRef90_Q5FS38 M D P M I L F S G G E T M L R E Q A I R D A M R G K P G Y I F N L G H G V L M Q P T
UniRef90_C6HUN0 N L D P V V L L T T E A L A G E V R R V L A G P G H I F N L G H G V L P P T
UniRef90_B6QNT2 G N A D P G I L Y G D R S A I T K T V E D M V G K K G W I A N L G H G V L P L V
UniRef90_C5DDZ3 N L D P G V I Y G T D E V I S K A R V E E M I T G F G Y I V N F G H G T H P F M
UniRef90_K7SBJ7 D P M V L F S G G E T M V R E I S Q A L R D A L K G R P H V F N L G H G V L M Q H T
UniRef90_UPI00041F091C G N L D P S V L L A P W P V I E K K A K S I L D Q G G F V F N L G H G V L P E L
UniRef90_D5E737 P I L L L T E W P V I E S A M R D V L K R A A N R A P G H I F N L G H G V L P P T
UniRef90_D6TGL8 V D P A A L F G S K D F I T K R I Y D T V K K A G H I V L N L G H G V L K V G T
UniRef90_W1PCN8 G N V D P M S L F G P S K E E V I R A Q A V E R D C I L R A Q G R H I L N L V G H G V V Q G T
UniRef90_A8I9S9 N L D P T V L F G S K E Q I E A V E R D C I L R A Q G R H I L N L V G H G V M Q G T
UniRef90_B7G0Z0 G N L D P A V L F A G P A V V E A E V R R I V A E E G H H I F N L G H G V L P P T
UniRef90_UPI000380C4B6 G N L D P A L L E A G T D V V R S E V R R I K E E G T G H I F N L G H G V L P P T
UniRef90_UPI00037F134C L D P A V L L A P E G V L R A E A E R V L R G G P H I F N L G H G V L M R Q T
UniRef90_D7CY02 G N I D P C V L F G S K D F I R E R I L E T I R K A G H I L N L G H G V L Q N T
UniRef90_D8G245 G N L D P A L L F T N R G V I A R E V Q R R L G E A G H I F N L G H G V L P N T
UniRef90_UPI0003F9C657 N L D P A A L L A S S W E M V E A Q V R R V C A D A G H V F N L G H G V L P S T
UniRef90_D5UN08 I D P A L L S A P W E V L E A H V R E V L A A A G S H V V N L G H G V L P P T
UniRef90_M7NM99 D P L A L I A G G E T L D R A V D T I L E A L Q H R P H I F N L G H G V L P D T
UniRef90_G2IS33 D P M R M V A G G A L E E G I D D I L Q R L G N G P L I F N L G H G V L P Q A
UniRef90_UPI00047670C9 L D P T L F F A G T E V I L D R E V R R V A D G G H I F N L G H G V L P G T
UniRef90_MOQN95 N V S T Y A L E F A D E D R I E V M T Q K V M A D G S D I I A P A C G L G T K S
UniRef90_G7WD14 D P A Y L F S P L P A L T E I E I R V V K C A G P K G H I L N L G H G V L V G T
UniRef90_Q93ZB6 N V S T W T L E F G N P E K V E Q L A V K C W R D G S G I I S P A C G L G T K S
UniRef90_A6BKM5 M D P M Y L F A S E E R I R K E V A N N V R D A G H I V N L V G H G V V Q G T
UniRef90_K8E9M9 G N L D P A M L F A D R S A L D S E V R R L D E G H I F N L G H G V L P A T
UniRef90_A0A022LJC1 N L D P A L L S G P L A D L D A A L A R L L E E G R H I V N L G H G V L P K D A
UniRef90_U2PT63 D P G I L F G N E E S I K N R I D E T F S K T Q G G R K Y I L N L G H G V L P G T
UniRef90_UPI0002EBD0EB D P G I Y F G S E E I S K K V E H M I T S F G G K Y I V N F G H G T H P F M
UniRef90_H2AYZ0 N V G S V K P L F Q T P E E V K E G V F R S C D A G F G I I S S G C G I A P A T
UniRef90_M9SFY3 N I D P A F L G A P V E A H V R E V V E R G R H I V N L G H G V L P P T
UniRef90_UPI0003B4A83D E P C C L Y H E D A M E M G V D E L A V M G K K P G H I F N L G H G V L P D L
UniRef90_D3UHW4 N I D P A Y L D A P W P V L E A H V R D V I R R G G H I V L N L G H G V L P A T
UniRef90_A0A021VPD9 I S T S K T L F R G T P E E V R G E V L E A L E K G G V D V V A P S C G I A A S S
UniRef90_Q2NHV3 V D P A L L A P W E V L E A H V R D V V A R G G H I V N L G H G V L P P T
UniRef90_F6FVP3 G N L D P A L L F A G E D A V R R R V R A I R D E T G H I W N L G H G V L P T T
UniRef90_UPI0003B3BCC2 D P L L L L S G G P E L E R Q T I R V L E A F A D R P H V F N L G H G V L G Q H T
UniRef90_Q2GC56 V D P G G I M Y S G T P Q E V R L K T L E I L D A K G Y V V M S G C S L P V E T
UniRef90_T0IMN4 L D P Q Y L F G D E S F V R R E T E K V I E P R G H I V L N L G H G V L H A E T S
UniRef90_U2YF64 N V S T Y T L E F G S P D K I S L L E T N K C V K A R D G S N I I S P A C G L G T K S
UniRef90_UPI00035F36B2 N L D P A A V F A P E P V L A A K V G D V L K A R G S H I V F N L G H G V L P E T
UniRef90_Q0RNY5 M E P T R L Y S K S A T K E A V E K I A N T M Q G Q A G Y N L C P G C T T P D V
UniRef90_UPI00046425EC V P V E V L R D G T P E E I A E N V R F C I K K G G Y V L S T G C Q I P M G T
UniRef90_R9N5G1 V K P V D T M R N G T I E E I M N E A K L C I K K G G Y V L S T G C Q I P M G T
UniRef90_UPI00028805AB L D P L A L V A G G E A D R S A R R L S A L R G R P H I F N L G H G V L P E T
UniRef90_UPI000418B613 L A G D D A V L E R E I D R V V J A G R R A V D A G G H I F N L G H G V L P N T
UniRef90_L7LJP1 V D P A L L A A P W D V A H V R D V V R R G A A A P A H V V N L G H G V L P P T
UniRef90_D5UCS4 D P M R L V A G G K A L E E G V A H I L N T F D K G P L V F N L G H G V L P D A
UniRef90_U7FP69 N L D P V G V L L G S P E L I R D R V R D V L R E A A H I F N L G H G V I S R V T
UniRef90_A6GDP1 G D D A V R Q A V R T I R G E V I R A Q Q C G D I D T H I W N L G H G V L P T T
UniRef90_C0WI72 V N L D P Q V L Y T D T A T I K R E T A K M I R R G R H I L A N L G H G M E P E M
UniRef90_A8CBH0 V A T A T T L F M G T P E D A Y K E A W A L E N G T D F L C P G C G I A P G S
UniRef90_UPI0003B55A93 N I D P A L L F A G R Q A L H A H A E D V I R R G G H I V N L G H G V L P D T
UniRef90_C8XF57 G N L D P A L L F A G T D P L T R E S I V A R L G N A T G H I F N L G H G V L P N T
UniRef90_M1UD34 D P L A L R A G G E A M R E V S I R Q A M A G H P H I F N L G H G V L P Q T
UniRef90_Q0BWA2 D P M L M V A G G K A L Q D G I D A V L Q S L G Q G P L I F N L G H G V L P Q A
UniRef90_Q8UBL6 V D P S F P L V I A G P I D V D A A V R D L I E D G R S H I V S S G C A M G R N T
UniRef90_K6AYY1 N L D P T V L F A G P A V V E R A E I R R V L D D G G H I V N L G H G V L P D T
UniRef90_H6MZU6 G N L D P A V L L A G P E V I A G H V R R I C A E G G H I F N L G H G V L P E T
UniRef90_G0HED6 L D P L R L I S G G D A M D A R R E I K S A F K D R P H I F N L G H G V L P Q T
UniRef90_C6XIK9 N L D P A L L F A G W D A I E R E V R R V R A R G H I F N L G H G V L P P T
UniRef90_F6ELH9 P M R V V A G S P A L E E G I D E I L A H L G G G P L I F N L G H G V L P Q A
UniRef90_UPI0003B742CF V P P V D V L L N G T V D D I D A S V R S C I A K T G F T L C P G C T T P V G T
UniRef90_U2UY08 N V D P A V L R V G S E D D I R Q A V R K C I A A G G F V L N L G H G V L K Q G T
UniRef90_G4W924 L D P L V L I T G G D A N R G V D D V L A N F A G G R L I F N L G H G V L Q P E T
UniRef90_U1HHB5 L D P V I L F A P Q P V L K E R S A I E A G R K G Y I F N L G H G V L Q G T
UniRef90_Q8DKW0 L D P A V V F A P W P V L E A A V R D V L A A R G H I F N L G H G V L P S T
UniRef90_A0LUP4 N I S T Y A I E F G E P G K I A L L T E R C V G D G V N I I S P A C G L G M K S
UniRef90_T0I8A2 G N L D P M V L T A P W P V I K R Y A K A L M D Q G G Y I F N L G H G V L P E A
UniRef90_F5LB16 D P L L R A G G I S L G Q A V E R I A R G L E G H P H I F N L G H G V L P D T
UniRef90_A5G1D5 P A L L H A K T G S D E A A I E K A V R N M L I S F G Y I A N L G S G L T G L E
UniRef90_C1FD66 V P P V D V L M L G S R E D V F E S V K T C I R K G G Y I A S G C D V T Q N V
UniRef90_H5Y2U7
UniRef90_UPI00034BB739
UniRef90_C0ZYX0 N L D P A V L L F A G P E V I D R E V R R I A A E G G H I F N L G H G V L P D T

UniRef90_S2XYM8 P L A N I Q A L K T L K
UniRef90_K9RMJ8 P E E N V A F F F E T A K Q
UniRef90_D5E8N7 P V V N I R A M E Q A R D K Y
UniRef90_V8CLD1 P R E N A I A L V Q M V R E
UniRef90_UPI00042B3649 P E E N V A H F F E V A K
UniRef90_HOQZQ3 D P D V L T R T V E L V H Q
UniRef90_H7F2N7 E P E M L R E L T S F I H K Q S
UniRef90_F7Z7A4 R P E T L K R L T T F I H E Y S
UniRef90_UPI0004754426 P I A H V E R M V A R V R
UniRef90_UPI00046352A8 P I A H V E A M V K Q V R
UniRef90_G8AG66 P P D H V A E L A R L I K D W
UniRef90_UPI000373DE25 P I E N I D A F M A A A R K Y
UniRef90_UPI000464BD4B P I V H V E R M I E L V R K
UniRef90_UPI000421D13F P P A T L Q R L T A F V H E Y S A
UniRef90_G8M2C7 S L E N I Q A L T N T V K E
UniRef90_U3GY38 D A D A I T R A V E L I H E
UniRef90_UPI0004263DC5 D P E N V A A L V A R V R
UniRef90_Q5FS38 P P E N V A A L V E A V R
UniRef90_C6HUN0 P M A M A R S L V R M V Q
UniRef90_B6QNT2 N P E D L K F F F E E L H R H
UniRef90_C5DDZ3 D P E K I K F F L Q E C H R
UniRef90_K7SBJ7 P P E N V G A L V E A V R
UniRef90_UPI00041F091C E P A K L K Q L T A F V H E Y S A
UniRef90_D5E737
UniRef90_D6TGL8 N P D L L R Q L V E A V H
UniRef90_W1PCN8 P E E N V A H F F E V A K
UniRef90_A8I9S9 P E S S V A L F C Q L A R E S G A
UniRef90_B7G0Z0 P E E A V K W L V D E V K R Y
UniRef90_UPI000380C4B6 D P D A L L R V V E T V H
UniRef90_UPI00037F134C D A D A I T E A V S I I H E S
UniRef90_D7CY02 D P E R L A Q L V A V V R E F F
UniRef90_D8G245 P E E N V A F F F K T A K Q
UniRef90_UPI0003F9C657 D P Q A I T D A V S I I H
UniRef90_D5UN08 D P E V L T R V V E L V H
UniRef90_M7NM99 D P E V L T R V V E L I H
UniRef90_G2IS33 P I E H V E R L V R R V R
UniRef90_UPI00047670C9 D P E N V R L L V E R V R
UniRef90_M0QN95 D P D A I T R A V E L V H
UniRef90_G7WD14 S L K N I Q A M L Q T V Q E
UniRef90_Q93ZB6 P E E A V A H F F E T A R
UniRef90_A6BKM5 P L T N I Q A I R L G I R K
UniRef90_K8E9M9 P E G N V G A F C D A A R
UniRef90_A0A022LJC1 D P G A V T H V V E L V H E
UniRef90_U2PT63 D P Q V L A R I V D A V H
UniRef90_UPI0002EBD0EB P E E N A K T F F E Y G K
UniRef90_H2AYZ0 D P E K I R F F L Q E C H R
UniRef90_M9SFY3 S D E N M K A F V E A V K A F
UniRef90_UPI0003B4A83D D P S V L T R T V E L V H
UniRef90_D3UHW4 P R E N A I K L V E L I H Q
UniRef90_A0A021VPD9 D P E V L T R L V R V A H
UniRef90_Q2NHV3 P L E N I Q A M V N A R N E F F G
UniRef90_F6FVP3 D P T V L T R V T E L V H
UniRef90_UPI0003B3BCC2 Q A E D V T R A V H I I H E
UniRef90_Q2GC56 P I E N V E A L L K I V R G W S
UniRef90_T0IMN4 P F E N I Q M M M D T V R E
UniRef90_UPI00029B1063
UniRef90_U2YF64 P V E N V R T F V E T A K N W
UniRef90_UPI00035F36B2 P L K N I Q S I L S T
UniRef90_Q0RNY5 D P G V L A H I V D L V H
UniRef90_UPI00046425EC P V D N A K Y F V D L C K E
UniRef90_R9N5G1 S K E N M T A F M N A A A I Y
UniRef90_UPI00028805AB P I E N I E A F M N A A R I Y
UniRef90_UPI000418B613 P L D H V S R L V A L L R E
UniRef90_L7LJP1 D A G V V T R A V E L I H
UniRef90_D5UCS4 D P T V L T R L V Q L V H
UniRef90_U7FP69 D P E N V A R M V E L V R K
UniRef90_A6GDP1 N P D H A K A M V D A V H E
UniRef90_C0WI72 D A E A I T R A V S I I H E
UniRef90_A8CBH0 K P E H A K A F I D G V K E A S A
UniRef90_UPI0003B55A93 P L E N V L Q L K K A R D D F
UniRef90_C8XF57 D P D V L T E L V E F V H
UniRef90_M1UD34 V A E D I T E A I S I I H
UniRef90_Q0BWA2 P P E H V A E L L N L I R
UniRef90_Q8UBL6 D P E N V T R L V Q R V R
UniRef90_K6AYY1 P P E N E K A F I A A A R K Y G S
UniRef90_H6MZU6 D P D V L T R A V E L I H
UniRef90_G0HED6 D P D A I T R A F A E V H
UniRef90_C6XIK9 P I S N V E R A V K V I R E
UniRef90_F6ELH9 D P T V L T R V V E L V H
UniRef90_UPI0003B742CF D P E N V R L L V E R V R R
UniRef90_U2UY08 S R E H L V A F M N A A A T Y
UniRef90_G4W924 P E E A V G W M V D E A K R
UniRef90_U1HHB5 P I A H V E Q M I K R V R A Y K A
UniRef90_Q8DKW0 P E E N V A F L E D W V K
UniRef90_A0LUP4 D P G V L A A I V D F V H A W S A
UniRef90_T0I8A2 P L K N V K S I L E T
UniRef90_F5LB16 S L D K L Q Q L T A F V H E Y S A
UniRef90_A5G1D5 P P E H V A A V I E R L R
UniRef90_C1FD66 D P S K V A F F V D C V H K V S
UniRef90_H5Y2U7 P I E N I D Y M M E A V R K Y
UniRef90_UPI00034BB739
UniRef90_COZYX0 D P T A I T S A V E L V H

UniRef90_Q1NDA1 1 10 20 30 40
UniRef90_D9SGK1 T S M D R L L L G V L R G E R P A V P P V W L M R Q A G R Y E Y R E L R K G G
UniRef90_E8X2R1 R F V R A A N G K I L D H I P V F C N L L D Q G A R E L G L S
UniRef90_K6VDZ9 K N D L V L R V I E R K E L E R P V W F M R Q A G R Y E Y R Q L R K H H
UniRef90_A0A023D613 M L R A L A G E A L W P P P V W L M R Q A G R Y E F R A M R K A D
UniRef90_F8JDV3 R F L Q T F A S K A V L P P P V W L M R Q A G R Y E Y R A L R A G S
UniRef90_UPI000255F097 L I T A Y R S G V T P S R K P V W F M R Q A G R P E Y R A L R G T D
UniRef90_U1Y1R9 N D N F L K A C R G E A H D H V P A W Y M R Q A G R Y E Y R K I R K Y S
UniRef90_A3UIC4 M T Q N Q P F L R A L A G E T V S P P P I W L M R Q A G R Y E Y R E V R A P D
UniRef90_D1C0P6 L V R A L R G D R P E R L P V W F M R Q A G R P E Y R A L R G H A
UniRef90_UPI000474EED0 D L S P R E R L L R V L D G K T V D R A P V I C M M N S A T V D V T E G C G F T
UniRef90_I0GUN5 F L D A V R G R R P S R L P V W F M R Q A G R P E Y R A L R Q H N
UniRef90_UPI0001FFF030 K A A K G E P V S R P P A W M M R Q A G R Y E Y R A L R K Q H N
UniRef90_U5FZJ6 M N T T L V S A A Q S E T V S R T P V W F M R Q A G R P E Y R E L R G T T
UniRef90_UPI0004749E59 D M T L K E R F E R S V K R E E V D R A P V C S V T Q T G T V D L M E L S G S
UniRef90_Q6AHF5 L T H A S R L V R S Y Q G E R Q E V T P V W F M R Q A G R P E Y R D L R G T R
UniRef90_F0YVQ2 M N G R E R T L N F M N G E K V D Y I P F H P L V M Q Y A A E Y A D I P
UniRef90_D2Z704 M T E L K R L V G A L K R E S L D R P P C I C M M N M I V E D V M D L T D S T
UniRef90_Q2ISV3 M T Q K K P F I E V L S G N R Q A S P P M W M M R Q A G R Y R A T R A E A G S
UniRef90_S6B5B4 M N S L E R L K A A I A F A P V D R T P V V P Q L F E G H A A T L A G G V A
UniRef90_UPI00036FC3F1 M N S R E R F L S A L D L D T P D R V P V F Y Q H L G G A R H V L D A S G L T
UniRef90_W7CUY6 N D L F L R A A R K E A V D Q I P V W Y M R Q A G R P E Y C K L K K Y S
UniRef90_UPI00047D469F T A N S P L I T A Y R G G K P S R R P V W F M R Q A G R P E Y R E L R G I A
UniRef90_F0YU91 K M L S R E R M E K V L E G K P D Y I P I F P K I S H A T C R A V E G M T
UniRef90_F8I6C3 M T S N S R F I R A C W R Q P V D R I P V W F M R Q A G R Y Q P S Y R R Q Y S
UniRef90_B8GHN4 M N S I E R I V S T L A N F E K P D R V P I A Q V F G H A A T V A G M N
UniRef90_Q5B9P7 K N D L L R A A W G D K P V H R P P I W V M R Q A G R Y E Y H E A K G R D
UniRef90_I4BI56 T R R E L Y L A A V A G R E P P R V P V W M M R Q A G R P E Y R A L R A K T A
UniRef90_UPI00034AFE11 T S G S P L V R A L R G D R P E T L P V W F M R Q A G R P E Y R D L R G T A
UniRef90_G7IH45 L L V K A A R G D P V S R P P A W M M R Q A G R Y M A I Y E K H P S
UniRef90_F5Y827 M T P M E R V M A A I N G R D F D V F P A I N P T S V A I A K S M E V S G V Y
UniRef90_UPI00037B2B84 T A D S R L V R A A R G L P Q V D R T P V W F M R Q A G R Y E Y R A L R A V T
UniRef90_H0TTJ0 N K P F I A V L S G Q R Q A D P P I W M M R Q A G R Y E Y R E V R A G G
UniRef90_A4FAS3 R G E T P R H T P V W F M R Q A G R P E Y R K V R G I P
UniRef90_R9N8H4 E L T A I E R D K L L S E G K E A D R I M C C L D T G E T L A P M I G C T
UniRef90_F0Z1Q9 M N S Y E R V F A R L N G D P V D R I P N L C L V M T F A A R E I G V P
UniRef90_E4UCE6 M N K K Q K I L Q V L K G N I T P P P I W L M R Q A G R Y E Y R E I R K K N
UniRef90_X6KZ06 M T K T L L R A L A G E T L P V P P I W M M R Q A G R Y E Y R A E A G D
UniRef90_I4BBV6 R F D A A L R G E K T D R T P I W F M R Q A G R Y K A T R A E V R K S
UniRef90_G6F1T6 N K K L L T V L N G Q F V W P P P V W L M R Q A G R Y E F R L R Q A D
UniRef90_W2BPD5 L T S E S A L I R N Y R G N R T A R P A V W F M R Q A G R P E Y R A L R G T D
UniRef90_E0MN28 K H E R V M R V M A G E T L E R P P I W M M R Q A G R Y K A T R K Q A G G
UniRef90_M9SHR7 M N R K D A V L D A L N G D G E D I P P A A V F T Q T A T V S Q M E R C G S R
UniRef90_C7N1G5 E L T A L E R D R L Y S Q G K P V D R I P C V L D T G E T M A P L M G M S
UniRef90_K0B017 E M T S K E R M T A Y F N E P D V D R P P F S L S L G E P A A K F I N I S S Y
UniRef90_UPI00037F910B L L Q A L D G Q V P S R T P I W M M R Q A G R Y E Y R A V R A G D
UniRef90_K6J4Q5 S N E R Y S N A L S G V A Q K I P P V W M M R Q A G R Y H K H Y Q T K Y T
UniRef90_UPI00036DCAE7 G R K P V H R P V W F M R Q A G R P E Y R E I R G V G
UniRef90_UPI00035041D5 Y L A A V N G R K P H R V I P V W F M R Q A G R P E Y R A L R A H D
UniRef90_A0QIL2 E L T A I E R N K L L N E G K D V D R I M C C I D S G E T L A P L I G C T
UniRef90_R6SEN1 S P K E R L I R T L E K K E T E R P P V I C M M N S A I V E L M N V I T G H T
UniRef90_F5YJD6 M K T V L G E R Q N R P P V W I M R Q A G R Y R E T R A K A S T
UniRef90_A0A024KD57 F L R A L A G E A V W P P P L W L M R Q A G R Y E Y R E V R A G D
UniRef90_UPI000379E92F Y L A A A A G R Q P A R V P V W F M R Q A G R P E Y R V L R A H R
UniRef90_F5YVK3 R F I D T L N G I R H D P P P I W L M R Q A G R Y E Y R E V R C D
UniRef90_G6A113 Q M T P I E R S I A L N K K Q E A D R L P C N P N I A N G V A R I Y G C K
UniRef90_U5RNY7 P I E R S I A L N K K Q E A D R L P C N P N I A N G V A R I Y G C K
UniRef90_UPI00047548B2 N D L L L R S A A N E N P D H P P I W V M R Q A G R P E Y L R V R G V P
UniRef90_U5H058 M T P K E R V I G A F L G N K P L D R I V T M P I V T S N T A Q L I G K S
UniRef90_Q6LY43 E I P P S K R L L R T L N G E A M W P P P L W M M R Q A G R F E F R A M R A A D
UniRef90_F7VBQ0 P I W F M R Q A G R Y E Y Q K I A K P S
UniRef90_Q5FF08 D L L V R A A R G E D V E R T P V W L M R Q A G R Y E Y M A D F R K K I P
UniRef90_F0Y441 L L K V L G G E R L E R P P V W M M R Q A G R H E Y L E L R A K N
UniRef90_A0A059FDJ6 F M Q A V S G R R P A T T P V W F M R Q A G R P E Y R E L R A A S
UniRef90_K0YX95 Y L A A V A G R K P S R V P V W F M R Q A G R P E Y R A L R R H S
UniRef90_B2HM23 M R Q A G R Y N A T R A R A G S
UniRef90_B1XSD6 M T A P L L D A Y A G R P V S R R P V W F M R Q A G R P E Y R A L R G T S
UniRef90_UPI000378E835 M T D N K P L L A T L K G A K P A V P P M W L M R Q A G R Y E Y R A L R K G G
UniRef90_UPI000462A380 M R Q A G R P E Y R A L R G V P
UniRef90_UPI0002626107 L L R A L S G E A L W P P P F W L M R Q A G R Y E Y R A G D
UniRef90_D5RKI2 Q M T P K E R A F A L F A G K P V D R M P I K L F S P Y I G M N F G A S
UniRef90_A6BK M2 M R Q A G R P E Y R K I K E H S
UniRef90_B9E7T9 M R Q A G R P E Y R K I K E H S
UniRef90_C1N7L8 L T Q N K P L L V R A A K S L P V E R P P A W M M R Q A Y M K E Y R D L R K Y P S
UniRef90_UPI00026CD050 L L A T L K G E R A P T P I W L M R Q A G R Y E Y R A L R K G G
UniRef90_UPI00036CFA42 L L N V L N G E R Q D P V P I W M M R Q A G R H E Y M E L R G K N
UniRef90_UPI000470E9F4 L L R T L K G E S T E R P P V W F M R Q A G R V Y L E I K K Q Y T
UniRef90_E5Y4Q9 M T S K E R V K A A F A H N P V D R V P M M I L L I G E T W M I E R E K I S
UniRef90_Q12YN8 M Q A S G T Q
UniRef90_T1BKT9 M T P N K P F L D V L A G T R R T V P P L W M M R Q A G R Y R A T R T R A G D
UniRef90_UPI000417E93E M T P N K P F L D V L A G T R R T V P P L W M M R Q A G R Y E Y R E V R A G G
UniRef90_V7PW20 K H L I R A A R G E R V E R A P V W A M R Q A G R Y E Y R E L K K Y N
UniRef90_UPI00016C4421 R F L I R A A S G E T Q T V P P V W L M R Q A G R Y E Y R A L R A G S
UniRef90_UPI0004657F65 L L D T A L G L K Q N R P P V W L M R Q A G R Y E Y R A L R A G G
UniRef90_G4R7Q8 F J L D V L S G R Q R Q V P P L W M M R Q A G R Y E Y R A V R A G G
UniRef90_B6JII7 M N A E K P L L S V L R G T V T S T P P V W F M R Q A G R Y E Y R A L R K G G
UniRef90_M2U7R1 T R R E L Y L A A A S G R S P H R V P V W F M R Q A G R P E Y R E L R A H R
UniRef90_A0QW23 P N D S M L R A A K G E K V D R T P V W L F R Q A G R H E Y K K V K N K N
UniRef90_C1MKI0 M T S M E R M K A Y A M G E V D H I P F S T G G P D S F H L Y G Y T
UniRef90_R6BMM7 M P G S K P L L A V L N G A M P R P P V W L M R Q A G R Y E Y R A L R K G G
UniRef90_UPI00047608C0

UniRef90_Q1NDA1 F L I E L V Y D S A A A A E V T L Q P L R R F G F D G A I L L F S D I L I V P Y A M
UniRef90_D9SGK1 I E E Y F S K G E H V A E A Q L K T M L E R K F G H D N V W S L F Y V G R E A E L F
UniRef90_E8X2R1 L L E L C Q R T P E I A S E E V T I T M A A E R F L G V D A A I I F A D L L L I P F T P M
UniRef90_K6VDZ9 F F E M C Q N P E I A S E E V T I T M P L I K R F P C D L L V I F A D L L I L I F V A M
UniRef90_A0A023D613 F M T R C C L T P D M A V I E L T L L Q P L I R R R F A M D G A I L F S D I L I L I P W A L
UniRef90_F8JDV3 F L D L C C Y T P K L A A E E V T L L Q P V I R R R F G F D A A I I F S D I L L V V P D A L
UniRef90_UPI000255F097 M L E S C C L T P A M A S E I T L L Q P V I R R R H D V D A A I I F S D I V I P L K L A
UniRef90_U1Y1R9 L F E I T H R S P E V C A E V T M L Q P V I Q Q Q L D V D A A I I F A D I M T P M P A M
UniRef90_A3UIC4 F I N D S C L N S P D A A A E V T L L Q P V I R R R F G F D A S I V F A D I L L I P Y G L
UniRef90_D1C0P6 M L D S C C L N S P D L A T E I T L L Q P V I R R R H G V D A A I I F S D I V V P L R L A
UniRef90_UPI000474EED0 F F E L C Y N P T K V A E V T L L Q P I R R R F N L D A A I I F S D I L V L P E C L
UniRef90_I0GUN5 F P E V H P D A A A M T M L S A A V E E R K T G F E N F G I P Y C M T V E A E V L
UniRef90_UPI0001FFF030 M L E A C C L T P D L T C E I T L L Q P V E R R H G V D A A I I F S D I V V P L Y L A
UniRef90_U5FZJ6 F R E R S E T T D L I V E I T L L Q P W E A F H P D G V I I F S D I L I T P L P A F
UniRef90_UPI0004749E59 M L G A C C R T P D L Q M S E I T L L Q P V I R R R H G V D A A I I F S D I L V V P L E A A
UniRef90_K4MAJ2 W P Q A N Y D P G Q V A T L A I A G H E I A G F F E S V R Y P F C T T V I A E T L
UniRef90_Q6AHF5 M L D V C L D P A M A S E I T L L Q P V I R R R H G V D A G I F F S D I V V P L K L A
UniRef90_F0YVQ2 F R D Y C L D Y R K Q C N A M L T F A E E F G F D A A I I F S G F A Y C E A G A Y
UniRef90_D2Z704 W P E A H L D G E A M A E L A A G Q P E N G G F V D A A I I F S C M T V E A E A M
UniRef90_Q2ISV3 F L D L C F N A K L A A E V T L L Q P I R R R F G F D A A I I F S D I L V V P Y A L
UniRef90_S6B5B4 L G D Y L R D G C V L A R C C Q I E A L E H Y G H D L V F A F M D L C V E T E A V
UniRef90_UPI00036FC3F1 I R E G F Q D P A V F A K I C L Q L A R R L F G Y D N V M A G W D L L T E A Q A H
UniRef90_W7CUY6 L F E I T H Q P E L C A Y V T R L Q P V E Q Y G V D A A I I Y K D I M T P L P G M
UniRef90_UPI00047D469F M L D S C L K P L J A A E I T L L Q P V I R R R H D V D A G I F F S D I V I P L K L A
UniRef90_F0YU91 M R D Y M T D P G N M A K A L I A A E K Y Q W D A A I I G I T T D I A N E G M A I
UniRef90_F8I6C3 L L E I A H R P E L I Q Q V T V T A V E D L Q V D A A I I F S D I M V P L E P M
UniRef90_B8GHN4 L G E Y I R D G P E L L A R G Q I R A L D D R Y E Y D A V F A L M D T S V E T E A A
UniRef90_Q5B9P7 F F E C C R D P E I A S T I T I Q P V I R R R H G V D A A I I F S D I L V I P Q A M
UniRef90_I4BI56 M M Q A C C F D A D L I T E I T L L Q P V I R R R H G V D A A I I F S D I V V P L R A A
UniRef90_UPI00034AFE11 M L D A C C L D P A M A S E I T L L Q P V I R R R H G V D A G I F F S D I L V V P I K L A
UniRef90_G7IH45 F R E R S E T T D L I V E I S L Q P W K A F R P D A G I I F S D I L T P L P A F
UniRef90_F5Y827 F P S A H L N V I E M A E L A A V G H D Y F G F D S A A P Y F S V H L E A A A L
UniRef90_UPI00037B2B84 M L E A C C R T P D L V T E I T L L Q P V I R R R H G F D A A I I F S D I V V P L Q A V
UniRef90_H0TTJ0 F L D L C C F S P E L A T E E V T L L Q P I R R R F G F D A A I I F S D I L V I P Y A L
UniRef90_A4FAS3 M L Q S C C L T P D L V C E I T A Q P V I R R R H G V D A A I I F S D I L V L P L H A A
UniRef90_R9N8H4 L N E Y Y H S S E K M C D L E E Y L Y H N F H S D G A G V S C T L R G M A E A M
UniRef90_F0Z1Q9 Y G Q F I T D Y R L L S E G M L R C Y E K Y H L D L S V C S D P M R E A E G G F
UniRef90_E4UCE6 F L N M C Y T P E Y V V I E I T M Q P I R R R H R Y K F D A A I L F S D I L V I P D A L
UniRef90_X6KZ06 F L S L C Y N P L A T E E V T L L Q P I R R R F G F D A A I I F A D I L L L P Q A L
UniRef90_I4BBV6 F D E M L A D A D V A T E I T L L Q P I R R R F D A A A V I F A D I M T I L N G L
UniRef90_G6F1T6 F L T R C L T P D I A V I E I T L L Q P I R R R F A F D G A I L F S D I L I L P W A L
UniRef90_W2BPD5 M L E S C L D P E L A T E E V T L L Q P V I R R R H G L D A A I I F S D I L V V P A R L A
UniRef90_E0MN28 F L D L C C Y N P E L A I E V T L L Q P I R R R F G F D A A I L F S D I L V I P D A L
UniRef90_M9SHR7 W P E A N Y D P D M M C K L A L E C S E S F G F S T V R V P F C V S I E A E R L
UniRef90_C7N1G5 I A D Y Y H S A E K M C D L E E Y L Q N R H F H S D G A G L S T T L R G M A E A M
UniRef90_K0B0I7 D H Y H N A D R M V D I E E Y C Y G Q D G I S I R A G L H G F A E A M
UniRef90_UPI00037F910B F L T L C Y T P D L A V I E V T L Q P I R R R F G F D A A I I F S D I L V V P H A L
UniRef90_K6J4Q5 F E E L C K N P E L A A E V A F G P V N D F D V A I I F S D I L F P L E A L
UniRef90_UPI00036DCAE7 M L E S C F N A E L V C E I T M Q P V I R R R H G V D A A I I F S D I V V P L K A A
UniRef90_UPI00035041D5 M L S A C F S D A E L V C E I T L E Y I P V I R R R F L D A A I I F S D I L V V P Q A L
UniRef90_A0QIL2 L P E Y Y F S A E K M C E L E E Y I Y N K F H S D G A G L S T T L R G M A E A M
UniRef90_R6SEN1 L P A A H H D W N L M S A L A E D V H R L T G F E N I G A P F C L T V E A E A L
UniRef90_F5YJD6 F L D L C Y N P K L A T E E V T L L Q P I R R R F D D A A I I F S D I L V I P D A L
UniRef90_A0A024KD57 F V S L C T N P E L A T E V T L L Q P L R R Y G F D A A I I F S D I L M V P W A L
UniRef90_UPI000379E92F M L E A C C F D P E L V C E I T L L Q P V I R R R H G V D A A I I F S D I V V P L R G A
UniRef90_F5YVK3 F L S D C L N P D K A T E V T L L Q P I R R R H N F D A S I I F S D I L L Y P W A M
UniRef90_G6A113 I S D F N T S G Q A I A E A Q I A A Y K K F H M D G L R V F T D L Y A W E A M
UniRef90_U5RNY7 M L E A C R R P D L I T E I T L L Q P V I R R Y G V D A A I I F S D I V V P L K A V
UniRef90_UPI00047548B2 F F T V C R T P E V L A C E I T M Q P I R R R Y D L D A S I I F S D I L L V V P Q A M
UniRef90_U5H058 Q K E F Q L N A E V M A K S H T I A G F E K F G Y D L I Y L F T N C S Y L A E A M
UniRef90_Q6LY43 F L T R C M T P D I A T E L T L L Q P I R R R F G M D G A I L F S D I L I L P W A L
UniRef90_F7VBQ0 F L E M C Y N P E I V K E I T L L Q P I R R F N L D A A I I F S D I L V I P D A L
UniRef90_Q5FF08 F R E R S E S P E D I A T E L S L Q C W A F G V D G V I M F S D I L T P L P A L
UniRef90_F0Y441 F L D F C Y T P S M A A E A T L L Q P V I R R R Y G M D G A I L F A D I L L V L D A M
UniRef90_A0A059FDJ6 M L D A C C L T P E L A S E A T L L Q P V I R R R H G V D A A V I E Y S D I M V P L R L A
UniRef90_K0YX95 M L A A C C F E P E V A C E V T M Q P I R R R Y H V D A A I I F S D I V V P L R A A
UniRef90_B2HM23 F L G L A K N P A Y A T E V T L L Q P L D R Y P L D A A I I F S D I L T I P D A M
UniRef90_B1XSD6 M L E A C C L T P E L A A E I T C Q P V I R R R H D V D A G I F F S D I V V P L R L A
UniRef90_UPI000378E835 F L A L A T D P V A A E E V T L L Q P I R R R F G F D G A I I F S D I L M V P W A L
UniRef90_UPI000462A380 M L K A C F D P E M I A E I T L L Q P V I R R R L G V D A A I I F S D I V V P L V I A A
UniRef90_UPI000262107 F L S L C T N P L A A E A E V T L L Q P I R R R Y G M D G A I I F S D I L M L P W A M
UniRef90_D5RKI2 Y Q D A F V I E A K S R A H W L I E S Y K R F G M D G L S V N Y R I D G I P V I A F
UniRef90_A6BK M2 L F E I T H D P E L C A Y V T K L P V D Q Y N T D A A I L Y K D I M S P L G A I
UniRef90_B9E7T9 F R E R S E N T D L I V E I T L L Q P I R R R F A F G P D G V I I F S D I L T P L P A I
UniRef90_C1N7L8 F L A L V N D S E A A A E V T I L Q P I R R R F G F D G A I I F S D I L M V P S A L
UniRef90_UPI00026CD050 F L D F C Y T P S L A V I E A T L L Q P V E R Y G M D G A I L F A D I L L I L D A L
UniRef90_UPI00036CFA42 F W Q M M Q N P E V A A Q V T L L Q P V E D L G V E D M Q S D A A I I F S D I L V V P Y A M
UniRef90_UPI000470E9F4 F K D L R E M D D L G A E I L V R T Y D E M Q S D S V T T G G C W I G L L E A L
UniRef90_E5Y4Q9 W P E A H F N S E K M A T L A I A G H E I A G L E G I R Y P F D G T A I A Q T L
UniRef90_Q12YN8 F L T L L K T P E L A V I E V T L L Q P I R R R F D L D A A I I F S D I L T I P D A M
UniRef90_T1BKT9 F L N M C F T P E L A A E V T L L Q P I R R R F E F D A A I I F S D I L V I P Y A L
UniRef90_UPI000417E93E F F D M C Y N P E L S S N I T I M P Y K R F L C D M V V I F S D I L I I F I A M
UniRef90_V7PW20 F F E F S E N V I E A S T R A S L C P R R F G V D A I I L F Y D I T T L P V I A M
UniRef90_UPI00016C4421 F L D L C Y T P D L A T E V T L L Q P I R R R F D L D A A I I F S D I L V V P H A L
UniRef90_UPI0004657F65 F L D L C Y T P A L A T E V T L L Q P I R R R F D L D A A I I F S D I L V I P H A L
UniRef90_G4R7Q8 F L D L V Y N P D F A A E V T L L Q P I R R R F G F D A A I I F S D I L V V P H A L
UniRef90_B6JII7 F L D L V Y E A S A A E V T L L Q P I R R R F G F D A A I I F S D I L I V P H A M
UniRef90_M2U7R1 M L Q A C F D A E L V C E I T M Q P V I R R R H K V D A A I I F S D I V V P L K A A
UniRef90_A0QW23 F L E L L K D P K D V A E C T L Q P V I R R R Y N V D A G L S T D I L V V I A E A M
UniRef90_C1MKI0 L G E Y R S M D V Q F D V A E Q A K R E Y G G S G M Y A N T N L S L R G V E G
UniRef90_R6BMM7 F L A L A T D P Q A A V I E V T M Q P I R R R F G F D G A I I F S D I L M V P W A L
UniRef90_UPI00047608C0

UniRef90_Q1NDA1
UniRef90_D9SGK1
UniRef90_E8X2R1
UniRef90_Q6VDZ9
UniRef90_A0A023D613
UniRef90_F8JDV3
UniRef90_UPI000255F097
UniRef90_U1Y1R9
UniRef90_A3UIC4
UniRef90_D1C0P6
UniRef90_UPI000474EED0
UniRef90_I0GUN5
UniRef90_UPI0001FFF030
UniRef90_U5FZJ6
UniRef90_UPI0004749E59
UniRef90_K4MAJ2
UniRef90_Q6AHF5
UniRef90_F0YVQ2
UniRef90_D2Z704
UniRef90_Q2ISV3
UniRef90_S6B5B4
UniRef90_UPI00036FC3F1
UniRef90_W7CUY6
UniRef90_UPI00047D469F
UniRef90_F0YU91
UniRef90_F8I6C3
UniRef90_B8GHN4
UniRef90_Q5B9P7
UniRef90_I4BI56
UniRef90_UPI00034AFE11
UniRef90_G7IH45
UniRef90_F5Y827
UniRef90_UPI00037B2B84
UniRef90_H0TTJ0
UniRef90_A4FAS3
UniRef90_R9N8H4
UniRef90_F0Z1Q9
UniRef90_E4UCE6
UniRef90_X6KZ06
UniRef90_I4BBV6
UniRef90_G6F1T6
UniRef90_W2BPD5
UniRef90_E0MN28
UniRef90_M9SHR7
UniRef90_C7N1G5
UniRef90_K0B0I7
UniRef90_UPI00037F910B
UniRef90_K6J4Q5
UniRef90_UPI00036DCAE7
UniRef90_UPI00035041D5
UniRef90_A0QIL2
UniRef90_R6SEN1
UniRef90_F5YJD6
UniRef90_A0A024KD57
UniRef90_UPI000379E92F
UniRef90_F5YVK3
UniRef90_G6A113
UniRef90_U5RNY7
UniRef90_UPI00047548B2
UniRef90_U5H058
UniRef90_Q6LY43
UniRef90_F7VBQ0
UniRef90_Q5FF08
UniRef90_F0Y441
UniRef90_A0A059FDJ6
UniRef90_K0YX95
UniRef90_B2HM23
UniRef90_B1XSD6
UniRef90_UPI000378E835
UniRef90_UPI000462A380
UniRef90_UPI0002626107
UniRef90_D5RKI2
UniRef90_A6BKM2
UniRef90_B9E7T9
UniRef90_C1N7L8
UniRef90_UPI00026CD050
UniRef90_UPI00036CFA42
UniRef90_UPI000470E9F4
UniRef90_E5Y4Q9
UniRef90_Q12YN8
UniRef90_T1BKT9
UniRef90_UPI000417E93E
UniRef90_V7PW20
UniRef90_UPI00016C4421
UniRef90_UPI0004657F65
UniRef90_G4R7Q8
UniRef90_B6JII7
UniRef90_M2U7R1
UniRef90_A0QW23
UniRef90_C1MKI0
UniRef90_R6BMM7
UniRef90_UPI00047608C0

90 100 110 120
G Q D L W F E A G E G P R L A P I L A E T D L S A L L T P E W S R F D
G C K K I R Y A T D G P P N V E D Y I I Q S Y E D I A N L V P D D I S T H P A F A
G L D F E F V A G E G P V V N T P L R T E E F Q Q K L T V S L D Q R V I K N L H
G L N I K F I A G E V G P T F D Q S I T S F E E F Q Q K L T V S L D Q R V I K N L H
G Q S L A F E E G R G P R L V L D P L R S A A D L A R L D P A R V A E A T E
G Q S V D I V P G E G P R L V L G A A V R T A E D V A A L P E L L N T N D K E F A
G L H V E I K S N I G P V I D N P I T C K E D V I E K L Q P L H P S E D V P
G Q K V W F E K G E G P K L V M D Q P Y R T P S D V D R L V S T A L D D E A L L A
G V A V D I V P G V G P V M D Q P Y R T P S D V D R L V S T A L D D E A L L A
G L N I E F K E N F G P I I K Q I T E Q N P I P E R E K L D N K I N E
G S E I D F G N A T C E P K I A K E R Y A S T A D V V R D I K E L L Q E G R I E
G I G V D I V P G T G P V V D H P V R T A A A V E A L P E L A P E Q A D
G V P F D I E E V R G P V I H S P I R S E E G L K A L H P I E L I E K L Q
G V S V I E V S P G T G P V I E H P V R T A D L D R L E D L T P D A L T D I A
G C T I A E G S F D T Q P Y Q L D F P C K N K G D V D R L K K V N I P E D G M R R I L R
G V E V E I Q P G K G P V F E R A V R T S A D V D R L S A V D P A A L A A D T F
G M E I E S M P E N D C P Y P K K H L I L D F E R D Y K K I R K L D I K N D A M M
G A P V I S M G D R H E P R V I G Y V M S N S G D M N S L K E M L D I S S E R T A
G R A V R F E V I G E G P R L V L N S P D L V G T L N G A I D L S K L E P
G S I L R Y H D N Q Y P D V A S Y V L A P S S S V S A L A V P D P A A A G R M P
G S V W R F P E R D F Y P Q M E R H V V Q D L A D V D K L P V D P L A S E D R F W S
G V D V E I K S G I G P V I A N P I R T G Q D V E R L S F F Q A D E H V P
G V G V D I V P G V E G P V L E K P I R T A A A V E A L P T L T E E A L E
G S K Y I R P E E T S K L T E Y L E E L D E Y E R V K T N P W E T E P T K
G I G F D I Q E A V I G P V V H E P I R T I G Q V I E R L K P V N P S R D L D
G S V L T Y F K N K Y P I V K S Y A L S Q D T D Q P D N L S V P D P H Q A G R M P
G M T V E M V D K K G P H F P E P L R S P T D G Q Y E K V M A R D V D K A E L D
G I G L D I V P D V I G P V I E H P I R S L E D V R A I A P L D P Q Q V A
G V D V E I V P G R G P V L A S P I R T A A D V D A L G T L D E A A L L A
G L D F D I E D V R G P V I Q S P I R S E E G L K V L H P I L D F D K L R
G A Q V D W N D A A N T P V V T K K P M R R V D D F S L P P S F L H R S E F Q
G L D I E I R P G V I G P V L T D P I R T R A D L D R L P E L T A E H V L E
G R S V R F E V I G E G P R L E P L D T P E K I S A L A T E A D F S K L E
G V G L D I V A G T G P V V A E P V R T A A D V A A L P S L A P E Q V L S
G A K V K Y A V N I A Q L E E P A L P L K E A H N A K L V D V D K D G R L P
G A E V V F P E N D Y P Y S P V P L I T G C Q D I G R L K I T E P A S S R R M N
G R N V R F I E N E G P K M D P I T V K E I Y G L N P N I D F I L N Y L S
G A D L W F V T G E G P R L S T V T Q A D F D K L G R G E M L H D T L S
E I P F N F A S G G P A L E F H S S D E P D R S K L D A K R L L A N R N K P
G Q D L Q F I E G R G P V L P P I Q S E Q D L Q K L N P E Q V I E K T E P R L N
G L P V H I E P G V I G P V C D T P I R S A E D V A A L K E L T P E Q V A
G M D V R F E E G R G P I L L K P V D L A H I D R L T P E G T L E H L A
G C A V D R G S I G S Q P S V I S S P Y R M E E G F S D V P E D L M S P G R C T
G S E I A Y F D N N V A Q L K T P A L K S L D E V D G K A K L V D V D K D G R L P
G S K I Y F P Q Y G L T L V E E P F L A S N E N H D K L S A D P P H K D G R L P
G C P L T F E A G E G P R L V P V T N G A E L A A L R E T L D P D K I D
G M G L K Y T D E G P V L S F S I R S E K D L R R L K S V I E D S L S F M Q
G I D L D I V G G V G P V V A S P I R S A A D V A R L P R L E P A Q V E
G M E V V M V P G K G P T F P E P L K E V E D L K L R Q K V D V T A E L G
G I D L D I V A G V I G P V I A S P V R T A A D V A A M K P L I E R Q R V
G S K I K Y S D Y N I A Q L E T P A I S S L D E V D K L K L I N V D E D G R L P
G S E I N Y G T L G C E P K I A K E A F P S V E A V Q F L P P T M E K N K R V G
G Q K V R F E T G E G P R L D P L G V I E G I S A L K P E G V V A A L A
G Q P L R F A E G E G P L L E P L R D A E A I A G L R P E G F L E R A P I F
G V D L D I V P D V I G P V I A E P L R S A A D V A A L R P L I E P Q R V T
N R N V H F I P G K G P V L D K L N T V K D I E I F A Q T D L S D K Y K
G C E L T F P E D N T A D L L K P A I K N I D D I D K I K I A N P Y K D G R L P
G V D L D I K P G V I G P V I A E P V R D E A A V R A I R A L T P D D V P
G M V V E M K G E V G P H F P E P L R N P D D A Q K R L K N R A T N V F A E L S
G Q E L V Y F P A S C R N P V V K N P E D I S K I K V A E G Y E A N L P
G Q S L E F V E G K G P V L G A I R S E Q D F A R L D R N L E T L S R L R
G C K V T F T K D K G P E L K E I S S Y E I N N I S N S E I L S H L S
G V D F D V V K G K G P L I T D T G D A K R I A A F V E A C G G F D P G A Q L P
G L D V K F E K G V G P L V E Q V I S G P A D L D R V P A V K A A D R L S
G V D V E I V G G I G P V I A S P R C A D D V N R L T E R G A S L S I A P G I
G V D L D I V A D V I G P V I A A P V R T V A D V A D A I K P I D P Q S I A
G L G L K F T A G E G P S F E C P L R T E E A I K K L R L A D M D Q L K Y V F D
G V G V E I V A G V I G P V L A E P V R T A A D V D R L P R L D P A A L D E
G Q E L T F G P G E G P R L T P P L V D H A L G A L E R V P Q R L E
G I D V D I V P G T G P V V A E P V R D A A A V R S L P A L E P E R L E
G Q G L R Y A E G E G P L L D P I R D A E G L A A L R P Q E M R A R I A
G A A S T Y D A F G I I K E S E N I G N V D Q L D L E K L R F E N D H N A Q
G V D V E I K S G I G P V I D N P I R S K A D V E K L G E I H P E Q D V P
G I P F E I D D Y K G P I L D Q P I R D A E G L K S L H E L D L D M L
G Q G L S F G V I G E G P A L T P P L V D H A L S G L H G P E R L D
G R G V R F E K G I G P I V E P V I E T G G R L N E V P V Q T V V E R L S
G M G L D F T D A G P T F D E P L A F R E N P I N G L E D D P T K L D
G C P T E I S I G A P I E V K P C H I S S L D R S K I R E R L E N S E I L I Q
G C T M G E G T Y D T Q P S I H D F P F E T I E D V K D V P E N F L J S E R I K
G L E L C F K T A G E G P Y F K Q P V I Q H P H D L E R L E A S T P I E R L E
G R N V A F E A G E G P R L D P L D T P E G I A E L K Q D A D F R Q L E
G I D I Q I E N V I G P I F N K K I N N L D D F K T I A L N L K E I I N N L H
G L P F E L K P G A G P V P D R P V R T L G D L D R L A P N P A P E T Y A
G Q D V R F I V E G E G P R L D P L A N R A E F A A L K P E I D L G M L A
G Q P V R F A Q G E G P V L D P I D E T T L S T L K P E K A L D N L D
G R D V R F E V I G E G P R L T P L D T P M E K V A A E P F S A N L A T F E
G Q T L T F T A G E G P R L S P R M D E E P L S G L T P V P E R L Q
G I G L D I V P D V I G P V I D N P I R T L G D V I Q A M P A L I E S P Q V A
N I N V E M P G G R G P V V V N P L N K P E D L J E R L P S S V D V H K K L G
A V G S K V I P E N S T D Y I S E H V L K N Y D Q L D L V F D P E T N P R L Q
G Q E L T F G V I G E G P R L A P A L V E A D P D T I T P D L T R L D

UniRef90_Q1NDA1 A V Y D T V R R V R K A A L V N P N V T F L G F A G S P W T I A T Y M V A G Q G S K
UniRef90_D9SGK1 E T A K S C L E L K R E F V N G S K V P I L C A F Y L T A S M S L P A Y L M S M E G K S W M K
UniRef90_E8X2R1 Y V V S Q S D I N E K V A K H F A N S P R V P I L L G F F A G S P F F T L L A S Y M L E T G Y E G D S A T R S K
UniRef90_K6VDZ9 Y V V S Q S D I N E K V A K H F A N S P R V P I L L G F F A G S P F F T L L A S Y M L E T G Y E G D S A T R S K
UniRef90_A0A023D613 P V R E T L R R L S R E L P A A T T L L G F F A G S P F F T V A T Y M V E G G A T G R S R
UniRef90_F8JDV3 L V C R E A V R R L S E A L P R E T A L L I G F F A G A P F T V A T Y M A E G G K R P S S R
UniRef90_UPI000255F097 P I R E A V R L T V J A E L G S T P L L I G F F A G A P F T V A T Y M V E G G P S K T K
UniRef90_U1Y1R9 Y I L D T I K L L R E Q L S V P L I G F A G A P F T L A S Y L I E G G P S K T K
UniRef90_A3UIC4 P V S D T I A K V R A G L P E T C S L I G F F A G S P F T V A T Y M I E G G R P S K
UniRef90_U1C0P6 P I R E A V R L T V J A E L G S T P L I G F F A G A P F T V A T Y M V E G G R P S K
UniRef90_UPI000474EED0 K V Y K A L K L V R S K L S K E K S P L I G F F A G S P F T V L T Y L I V E G K M P S S K
UniRef90_I0GUN5 A I A R A G Q N M A E K N P D V P L I G F F A G S P F T V S T A A S Y L I V D P M P F L
UniRef90_UPI0001FFF030 F V G D S L R L L C R E L V E G H A A V L G F F A G A P F T L A S Y L I V E G G R T T K
UniRef90_U5FZJ6 F V G D S L R L L C R E L V E G H A A V L G F F A G A P F T V A T Y L I V E G G R T T K
UniRef90_UPI0004749E59 E S I R R V R A E L D A K H P D D V P L I G F F A G A P F T V A T Y L I V E G G R T T K
UniRef90_K4MAJ2 T M L E A T D I K Q R I G D D V P L I G F F A G M I G P A A T A F Y L A G A N N Y L
UniRef90_Q6AHF5 A A V Q E A V R L T T A E L N D E T P L I G F F A G A P F T L A A Y L V E G G S P S K
UniRef90_F0YVQ2 N R V R G V I S L K Y K D T R V G D E D Y F I A G H L E G P L A E Y T D L R G P S E G L
UniRef90_D2Z704 Q V C R A G S L I K R A K R A N L L T G P L I S L A T S L V D P S L F Y
UniRef90_Q2ISV3 P V F E A L R I V R S E L A P E T V L I G F F A G A P F T V A T Y M V A G G Q T R
UniRef90_S6B5B4 E L L R T A G I L R H E L K D D T V L V A G C V A G P M T L A T S L L L G E T E T A L L
UniRef90_UPI00036FC3F1 P L K A G G I L K G S V G K E T V A V I G S I V S P F F L A S E L L R G Y E N L L
UniRef90_W7CUY6 Y V L D T T R L L T E E Q L S V P L I G F A G A P F T L A S Y M I E G G H Q T K
UniRef90_UPI00047D469F P I R E A V R L T V J A E L G S K P L I G F A G A P F T L A A S Y M V I E G G K S R
UniRef90_F0YU91 T I L R A S E I L V K K E I G D R I Y V T A W C N A P L N V A S Q L I V P M E E L L
UniRef90_F8I6C3 F V L E G T I E R T V A A L I G Q V L V I G F S G G P F T L A S Y L I E G G P S R
UniRef90_B8GHN4 A L L N A A G I L R R E I G Q D E V L V I G C V L G P L T L A T Q L L G L E G Q A L
UniRef90_Q5B9P7 Y V Y K A A G T L T R E K L N G R V P L I G F F A G A P W T L L C Y M V I E G G S K
UniRef90_I4BI56 P V A T A V A Q L V G E L G D V P L I G F F A G A P F T L A S Y L V E G G H T K
UniRef90_UPI00034AFE11 P I T E A V A R T V E I G D D T P L I G F F A G A P F T L A A Y L V E G G P S K
UniRef90_G7IH45 F V G E S K I L Q Q E V G D D A A V L G F F A G A P W T L A T Y I V E G G N I K
UniRef90_F5Y827 K L L K A I G I L K N K Y K G K V P V I G K V V I G P W T L A Y N L Y G V E N L V
UniRef90_UPI00037B2B84 D I T E A V R R L V J A A L G S G T P L I G F A G A P F T L A S Y L I E G G Q T K
UniRef90_H0TTJ0 P V F E A L R R V R S A L A P S T A L I G F F A G A P W T V A T Y M V I A G H G T R
UniRef90_A4FAS3 K V G D A V G L L D E L G S T P L I G F F A G A P F T L A S Y L V E G G P S R
UniRef90_R9N8H4 I L L K G V R R L K E K L G S K V P V S A T V T G P F T L A S A M A V I E S N L L
UniRef90_F0Z1Q9 D R L E A V R R L L K S R T G N E V P V I G W V E G A V A E S C D L M D V S C L
UniRef90_E4UCE6 S I F K S I S L L R K K L P N N I T L I G F C G A P W T V A S Y M I S G T E T R
UniRef90_X6KZ06 P I L Q T V R R L S K R L P E N V T L I G F A G A P W T V A T Y M I A G G T T K
UniRef90_I4BBV6 P F L K A L R R Q V R S A L P Q E K S V I G F A A S P F T L L S Y L I E G G T S K
UniRef90_G6F1T6 K V V N G S D T I G T A V A Q S V T L I G F T G S P F T V A C Y M V I E G G S K
UniRef90_W2BPD5 P V S R A A Q L A V S E L N T T P L I G F F A G A P F T V A S Y L I E G K P S R
UniRef90_E0MN28 P V L E T V K G L R S Q L P S E T T L L G F C G A P W T V A T Y M I A G H G T R
UniRef90_M9SHR7 V V S E S V H S L A E K H G D D L V V V A G I T G P L T T L T H V L G A E N L L
UniRef90_C7N1G5 I L L K A L A M V K E K L G A T V P V G S T V T G P F T L A A M V V V G S E N L L
UniRef90_K0B017 I F L E A L E K L Q E R C G E M V G V S I P G P F T L S S L R G T E N L M
UniRef90_UPI00037F910B R V L E A V T R I R A E L P S E T A L L G F C G A P W T V A T Y M I A G G R G T P
UniRef90_K6J4Q5 F Q K S A V Q L L T R E R I S R E D K S V I G F V G G P W T L F T Y A V I G G E G N L
UniRef90_UPI00036DCAE7 A V S S A R R L L T A E L G E T A L I G F F A G A P F T L A S Y L V E G G P S R
UniRef90_UPI00035041D5 Y V F Q A I T L T R H S L E G K V P L I G F S G A P W T L M S Y M V E G G S K
UniRef90_A0QIL2 P I A D A V R L L V S A L L G E V P L I G F F A G A P F T L A S Y L I E G G P S R
UniRef90_R6SEN1 L I L K G L K M V K E R L G D K V P V S G T V T G P F T V A S M L V I G T E N L L
UniRef90_F5YJD6 T V V Q S I A E L S K K N P D I P V I T G S L T G P L S A A S L V D P M T F L
UniRef90_A0A024KD57 P V L E T V S R V K A E L A P E K T L I G F C G S P W T V A T Y M I A G G R G T R
UniRef90_UPI000379E92F E T V A L L S A T L V A Q H Q R K T A L I G F F A G A P W T V A C Y M V I E G G R G R
UniRef90_F5YVK3 A V A E A V S L L V D A L G D V P L I G F F A G A P F T L A S Y L V E G G P S K
UniRef90_G6A113 A V G E A V H K T R L N L P D D T A L I G F S G A P W T L M T Y L F E G S S R
UniRef90_U5RNY7 V Y I E A M K Y L V D K V G K E V A C S G G L V G P F S N A F Y L V G I E N M T
UniRef90_UPI00047548B2 Y V A E A V R N L A G E L G A T P L I G F A G A P F T L A S Y L I E G G P S K
UniRef90_U5H058 Y V F A A I T L T R K T L G G K A N V S V C F A G P W T L F G Y M V I E G G S K
UniRef90_Q6LY43 V Y Y E A I E L I K K E I G D R A N V S V C S G A F S T A S T L R G H E Q F
UniRef90_F7VBQ0 K V L D G P D D I G V A K G G A T T L M G F T G A P F T V A C Y M V I E G G S R
UniRef90_Q5FF08 N V F Q S T L K E V R K C L H K D K A L T G F A G G P W T V A T Y M L N F S K I K
UniRef90_F0Y441 F V G E T L R N R R K E T E G K T S L V G F V G A P W T L C A Y A T E G G A K
UniRef90_A0A059FDJ6 P V Y E T V S R V R E G L P A E T T L I G F A G S P W T V S L Y A I E G R G A W
UniRef90_K0YX95 E Q I R Q A V E H M T V A Q L L G S T P L I G F F A G A P F T L A C Y L V A G Q P S R
UniRef90_B2HM23 P V L D A V E L L V A E L G D T P L I G F F A G A P F T L A S Y L V E G G P S R
UniRef90_B1XSD6 A V S E I R K A L I Q D G K Q R V P L I G F S G S P W T L A C Y M I D G R H A K
UniRef90_UPI000378E835 P V R N G V A L S V D E L G E V P L I G F F A G A P F T L A S Y L V E G R P T R
UniRef90_UPI000462A380 P V Y A T C A R V A A A L P P E T T F L I G F A G S P W T V A T Y M V A G G Q S K
UniRef90_UPI0002626107 P V L D G T R L L V I E R L G Q T P L I G F A G A P F T L A S Y L I E G G P S K
UniRef90_D5RKI2 P L L E T V A R V R E G L A Q E A P L I G F F A G A P F T V A C Y M V I E G R G A R
UniRef90_A6BKM2 V A F D A V R Y I Q D E L N D E I F T G V G L M G P F T T A A N L A G T E K I L
UniRef90_B9E7T9 Y I L D T I K L L T T E Q L N V P L I G F F T G A P F T L A S Y M I E G G P S K
UniRef90_C1N7L8 F V G E A L T E L R K E V G D S A A V L G F V G A P W T L A T Y L V I E G G S S K
UniRef90_UPI00026CD050 P V Y A T V R L V A A Q L P G Q T T F L I G F A G S P W T V A T Y M V A G H G S K
UniRef90_UPI00036CFA42 P V Y E T V S R V K A R L P K E T T L I G F A G A P W T V A L Y A I E G R G A R
UniRef90_UPI000470E9F4 Y L R A Q L D E I N R T K P A H I P L I G F C G A P L T V L L F M L Q G L G R K
UniRef90_E5Y4Q9 K M M R Q S R E I J K L V G D R K S V A G Q M V I G P F S G A S M M V G I V K E F M
UniRef90_Q12YN8 T I L D A T E I I K K R A D E D D I P I I A G H L G P A A I T L S L V G R N Y L
UniRef90_T1BKT9 Y V W S T R R G V K S E I M G Q K P L I G F S A S P W T L A C Y M I D F E D A L
UniRef90_UPI000417E93E P V F E A L R R V R A A L A P E I L I G F C G A P W T V A T Y M V I A G H G T P
UniRef90_V7PW20 F V Y D S I N L T K K K I N N S V P L L L G F C G S P F T L F T Y L T P Y E N S L
UniRef90_UPI00016C4421 H I R Q L L K R V K D E L H P G D L P V L V F A G A P F T V A T Y C I D V I E A T R
UniRef90_UPI0004657F65 P V Y E T V A R V R A E L D P S K A L I G F C G A P Y T V A T Y M V I G G R G S R
UniRef90_G4R7Q8 M V L E A I E R I K L A L S E N K T L I G F C G A P W T V A T Y M V I G G R G S R
UniRef90_B6JII7 P V Y E A L R R V R R E L A P E T A L I G F C G A P W T V A T Y M V A G E Q G T P
UniRef90_M2U7R1 A I Y R T V A T V K A D L S P A A T L I G F A G S P W T V A T Y M V A G E Q G S K
UniRef90_A0QW23 P V A E A V R L L T A E L G D V P L I G F A G A P F T L A S Y L V E G G P S R
UniRef90_C1MKI0 H V L E A L K E I N R Q I D K E S A A P W T L L Y M V I G G S S K N T G N G M
UniRef90_R6BMM7 E K I A W A K E V Q K R M D G R C M V V T G G S P M T T A L S I R S P E M L M
UniRef90_UPI00047608C0 P V Y E T V R R V A A M L P A E T T F L G F A G S P W T V A T Y M V I A G A G S K

UniRef90_Q1NDA1 D H A Y C E P D R F A A L L I D A L T D A T V T Y L S G Q L 190 G V E A V Q L F D 200
UniRef90_D9SGK1 E L L M I G D P A V D M L L E K C S D F F R K E L S E A Q Y R R A G A D V L V Y A D D
UniRef90_E8X2R1 K M M Y T G S E A A W P L L M S K L S E T V L T A F A A Q Q V E A S G A D N V L Q Q L V F D D
UniRef90_K6VDZ9 R M V Y E R S E S E D V H L L I L M S K L S E T V L T A F A A Q Q V E A S G A D N V L Q Q L V F D D
UniRef90_A0A023D613 E M A L I T D P E L F G R L I A L L T S T A E M L L I G Q I I D A G A N A V M L F F D D
UniRef90_F8JDV3 D W A Y R D P A G F G Q L L D L A L T E T S T V Y L L T R Q I I E A G A N A V M L F F D D
UniRef90_UPI000255F097 D H M H A D P E T W N A L A E W A D A S G R F L L R A Q I I E A G A S A G Q L F F D D
UniRef90_U1Y1R9 A F M H S N P E A W H L L M D R L G E M T V T Y L Q A Q I I H A G A Q A V Q L F F D D
UniRef90_A3UIC4 D R L W S Q P D A F D T L L D L L A S A S A Q Q L L K A Q A D A G A S A V L Q L F F D D
UniRef90_D1C0P6 D H M H A D P E T W F R L L V T W T A S L T G D F L L R T Q Q A D A G A S A V L Q L F F D D
UniRef90_UPI000474EED0 L N A F N N H K F V N K S I K T L T K H T T E H L S Q Q I L A G A D I I T I Q I F F D D
UniRef90_I0GUN5 K E L R K D K A N A H R V L D Y V T D F L L G Y A E V L I E S G F P V I T I F A D D
UniRef90_UPI0001FFF030 N H M R S E P E V H H A L M A K L A R L T G A F L Q R Q V A A G A G V D A V I Q L F F D D
UniRef90_U5FZJ6 S M C H T A P Q V L R A L F S H L T K A I S D Y I V F Q V E S G A H C L Q L F F D D
UniRef90_UPI0004749E59 A M M L G D P Q L F S D L L A K L G R M S A T F L I D V Q V S A G A Q A F L F F D D
UniRef90_K4MAJ2 R W C L T D P D A L L Q L M L M L G E K V C A E Y A N A L Y D H G A G A D A V I V I D D
UniRef90_Q6AHF5 D H M H A A P G A W A R L M D W T A D L S G A F L R A Q V L A G A S A A Q L F F D D
UniRef90_F0YVQ2 I D L L D Y E E E L S E V F Q I V D N S K R W L D L Q A D A G A G A C L T S I S G D D
UniRef90_D2Z704 K D M R K P E K V Q I L M D F V V E Q L V R F G K A Q V E A G A D V L T Q L F F D D
UniRef90_Q2ISV3 L M A Y Q H P G A F A R I I D V L V E S S I Q Y L L K Q L E A G A D V L Q I F F D D
UniRef90_S6B5B4 Y L A A D D P V R F E K L L D F S A A V A L R Y G T A Q I I E A G V H L P I V F F D D
UniRef90_UPI00036FC3F1 M D T F A A P E A V E K M T E V A T A S L K T Y G E R A A A L G L D A V I V I D D
UniRef90_W7CUY6 A F M Y T H E A E W H M L M Q K L A V M T A D Y L T A Q I I K A G A S A V Q L F F D D
UniRef90_UPI00047D469F D H M H A D P E A W Q A L A A W A D A S G M F L R A Q I I E A G A S A G Q L F F D D
UniRef90_F0YU91 V G M L T D P E T L H E L L E R C L A Y T V N Y V K Y L A E T G V D A I S F G H
UniRef90_F8I6C3 T Y M W N A P N V W S G L M E R L A A M V V T Y L T A Q V A A G A S A V Q V F F D D
UniRef90_B8GHN4 Y L A I D D P E Q F G R V L Q F A T D V V I R Y G T A Q I I E A G V H L P V V F F D D
UniRef90_Q5B9P7 M W I Y K Y P K E S Q A L L Q K I A E I C V E Y L A L Q V A A G A G A V Q V F F D D
UniRef90_I4BI56 A M M L G E T D T W H A L M T A L T D V T L G F L R T Q L E A G V D A I Q V F F D D
UniRef90_UPI00034AFE11 D H M H A E P E T W A R L L D W A G A V S G A F L R A Q V L A G A S A A Q L F F D D
UniRef90_G7IH45 S M C H T A P H I L R T L L S H L S K A I A D Y L V F Q V E S G A H C I Q L F F D D
UniRef90_F5Y827 L D T I L E P E K T K E L L R E L S L V P L I E F A K A Q F D A G A D M I T W A D D
UniRef90_UPI00037B2B84 A L M H G D P E L W N D L C A R L A Q L S G T F L K V Q V D A G A S A V L Q L F F D D
UniRef90_H0TTJ0 D Q A Y R H P E A F G K I I D A L V G T S I A Y L L K Q L D A G A D A L Q L F F D D
UniRef90_A4FAS3 N H M H S E P A T W H A L L E K L A D T T L T F L R T Q L A G A G V D A I Q L F F D D
UniRef90_R9N8H4 I G T V L K M P D K V R A L M D T I V E N N N R Y I L D R L L D I G V D I G F A D D
UniRef90_F0Z1Q9 C E M L D E P E A M H E L L T I C L E Q A E L F A R A Q L E A G A D I I G I G I A D D
UniRef90_E4UCE6 I F A Y Q N N H A F N W L L D F L S D I S A E Y L T A Q I R S G V D V I I Q I F F D D
UniRef90_X6KZ06 D Q K A E N R P L F E S A L L E R L T E G T I D Y L S E Q V K A G A S A V V Q L F F D D
UniRef90_I4BBV6 T H M L T H A A E F H S M M S A V A D C T I E Y L K L Q V D S G A S A V V Q L F F D D
UniRef90_G6F1T6 K M M Y E N P S L F G K I T D L L V I Q T T A D Y L C R Q I I E A G A E A V K L F F D D
UniRef90_W2BPD5 K M M S E D P E T W H R L L D W V A R C T V T F L R E Q A K A G A S A L Q L F F D D
UniRef90_E0MN28 Q F S L N H P E A F A K M M D V L V E A S A A Y L L V A Q L K A G A D A V Q I F F D D
UniRef90_M9SHR7 M G M V L C P E R V Y G W L D A V T P M I K T Y A E T L A H C G A D D I Q V T E
UniRef90_C7N1G5 K G L R K H P D Q V K E L M E V I V E N N N R Y I E R L L D I G V G I G F A D D
UniRef90_K0B0I K D L Y S R P D M V N K W L D I M E T F N L Y I I E A S K L I N V G L F F A D D
UniRef90_UPI00037F910B D Q A L R D P D F F T A L I D R L V E T S A R Y L I G Q L K A G A D A V Q I F F D D
UniRef90_K6J4Q5 S L P K I L T D V R N G F L E K T I R F L K E N I A L Q L I E G G A E L I M L F F D D
UniRef90_UPI00036DCAE7 H H M H S D P T T W H A L L G A L T I T I S F L Q V Q I E A G A G V D A V I Q L F F D D
UniRef90_UPI00035041D5 S W L Y R H P E A S H R L L R L L T D V V T D Y L V G Q V A A G A Q A L Q L F F D D
UniRef90_A0QIL2 H H M L A D P E S W H T L M E K L T D L T V G F L R V Q L D A G A G V D A V I Q L F F D D
UniRef90_R6SEN1 K G M V K P D S V L Q M M D I T E N N N R Y I L Q R L L D M G V G I G F A D D
UniRef90_F5YJD6 K Q L R K N P A D A H R L V A Y V C A H L T E Y A G L M V E N G V S I T T I A D D
UniRef90_A0A024KD57 I F A L R H P E A F K A L M D V L V E A S L D Y L V A Q F R A G A D V V Q L F F D D
UniRef90_UPI000379E92F R M A F G D P L L F G R L I R T L T E A T A E Y L L A Q V R A G A G A D V I M L F F D D
UniRef90_F5YVK3 T M M L A E P D T W H Q L M T R L T D L T J A F L L T V Q L D H G V D A I M L F F D D
UniRef90_G6A113 D Y L W S N P D A A V A C L D E L L V E K V I E F L L T L Q A N S G A N A L M L F F D D
UniRef90_U5RNY7 R L F F K N P E A V H K L C E L S L Q T C E Y A K V V N S L G L S I T I S E D D
UniRef90_UPI00047548B2 A M M Y G R P D L W A A L M E T L T D L T L A F L R V Q V E A G A S A L Q L F F D D
UniRef90_U5H058 T W C Y R D P E N A K A V L H Q I A T V S G E Y L V G Q V R A
UniRef90_Q6LY43 K D T Y N N P E L C H E L M K M A T E S A K N F I T E V V K A I P I L L E P L S
UniRef90_F7VBQ0 E M A F A E P A L F D R I V A L L T E T A D Y L C A Q I I E A G A E A V M L F F D D
UniRef90_Q5FF08 E M C Y I K N R N L E K A L D K L T E A T S Y L I K Q I E S G V N Q L Q I F F D D
UniRef90_F0Y441 H A M H D E P A L A H A A L D A M A D A V A Y A I H Q I I E S G A N V M V Q V F F D D
UniRef90_A0A059FDJ6 R W A H G R P E D L J A A V M D K V S E A T V E Y L A R Q V E A G A E A L M L F F D D
UniRef90_K0YX95 D H M Y S D P E S W D R L M T W C A D V T G A F I A E Q V S A G A S A T Q L F F D D
UniRef90_B2HM23 H H M L A E P A T W H A L M T K L T D L T I E F L L G Q I R A G V S A T Q V F F D D
UniRef90_B1XSD6 T M M F S R P D L M Q H I L D I N A Q S V A A Y L L E Q V K A G A Q A L M I F F D D
UniRef90_UPI000378E835 A L M R D D P Q V W N R L L A W A G A L T T S F L R A Q A E A G A S A L Q L F F D D
UniRef90_UPI000462A380 D H A Y A D P T A V F G A I I D A I V A M T I D Y L L A R Q I E A S G V E A V Q L F F D D
UniRef90_UPI0002626107 A L M R S E P E V W H D L A G Q L A D I A V T F L L R G Q I I E A G A D A V Q L F F D D
UniRef90_D5RKI2 R M A H A D P A L F G K L T R L L D V D G T V D Y L L A Q A E A G A E A L M L F F D D
UniRef90_A6BKM2 R A M R K D K E N L H K L L D F A D A T I E V G R K F V E N K I G L
UniRef90_B9E7T9 N M M Y E A P E A W H L L M D K L A D M C I T Y T H A Q I I D A G C K M I Q V F F D D
UniRef90_C1N7L8 S M A M T E P D T L H A I S A V A D A V G T Y V G Y Q I D A G A Q C A V Q L F F D D
UniRef90_UPI00026CD050 D F A Y G D P A A F G E I I T A I A D C T V E Y L S R Q I E A G V E A V Q L F F D D
UniRef90_UPI00036CFA42 L W A H Q H P A E L D L L L D D L V I E A T A H Y M A Q A A A G A D A L M M F F D D
UniRef90_UPI000470E9F4 R F I Y E N R E T T K L I D A L D T D M S T E Y I K G Q I K H G I D V F Q L F F D D
UniRef90_E5Y4Q9 I L L G K K S P Y I K P L L E Y A T D C C A E I A N M Y C E N G C D L I Q T C
UniRef90_Q12YN8 M W F I S H P D T I K E L I T F S T D T C I E Y S N A L L E R G A D V V C I P D D
UniRef90_T1BKT9 R W L Y R Y P A E L S R L L S L L A R H I G D Y L V R Q I D A G V D V I M L F F D D
UniRef90_UPI000417E93E D Q A Y R H P Q T F A K I I D T L V E N S V R Y L I G Q L D A G A D A L Q L F F D D
UniRef90_V7PW20 K L T I Y E N S E D T H Q I L N T L C N I C I S H V L N Q I D S G A N L I Q I F F D D
UniRef90_UPI00016C4421 A F I V A D A P A V W N G L L E R L T D G A T V G F L R T L I G D G A D A Y Q L F F D D
UniRef90_UPI0004657F65 K L J A Y S D P A A F Q A L I D L L V D A S A H L L A Q L E A G A D A V Q I F F D D
UniRef90_G4R7Q8 L F A L N H P K A F A A L I D L L V E V S A R Y L I A Q F R A G A D M V Q L F F D D
UniRef90_B6JII7 D Q A Y S A P E A F A K I I D A L V E T S P Y L V G Q V R A G A E A V L Q L F F D D
UniRef90_M2U7R1 E M A Y G N R F Q E L I D E I V R T A D Y L A G Q V A A G A E A V Q L F F D D
UniRef90_A0QW23 H H M L G E S S T W H A L M T A L T D L T I A F L Q A Q V D A G V D A L Q V F F D D
UniRef90_C1MKI0 L W L R D H P K E S R L L D S L T T V V I D Y L D A Q I H A G V H M V V G F F D D
UniRef90_R6BMM7 R D M I R D K E N A H R L L D F S V Q C T L K W I K Y N R E I F P N A V V G A D D
UniRef90_UPI00047608C0 D Q A Y R D P A R F A G I I D R V V D L T V E Y L S R Q I E A G V E A V Q L F F D

UniRef90_Q1NDA1 S W S G S L L A 210 P I Q F E R W V I D P N R R L V A A L K E R H V I G F P G A G
UniRef90_D9SGK1 P Y G S T D I I T P M K L F K E L S L K W I K R D L E P G G L D G V V Y Y G G A R
UniRef90_E8X2R1 S W A G A L S V E D Y R Q F F L A Y T K Q L V E N I R N M G V I Y F G V D T
UniRef90_K6VDZ9 S N A D V I D T C L F S R F S L S A Y T K R V I E T V P H V F V I L F L K E N
UniRef90_A0A023D613 S W A G L L L P P S Q F R R H V I A P T R R I V E R L P G T R I I G F P R L A
UniRef90_F8JDV3 S W A G S L A E N E F A R W V T A P T A R L V S A I R E R F P A V P V I G F P R
UniRef90_UPI000255F097 S W A G S L S L A A D Y L E Y V I Q P H S A R A L S H V I Q D V P L V H F G T G T
UniRef90_U1Y1R9 S W V G T L N A Q D Y K T F V A P V M N H I F S A L I E K E N A P K I M F G V I G A
UniRef90_A3UIC4 S W A E P D P L F D R V I T R P T K R L I D R L R Q M G V T L P V I G F P R G A
UniRef90_D1C0P6 S W A G S L S L A D Y T A R V A P S S A R A L A A V A D L G V P G I H F G T G T
UniRef90_UPI000474EED0 S W A G I L L Q R E F H K Y V I T P T A T I V K A L K E K F P V K I I G F P
UniRef90_I0GUN5 P T A T G E I L L G P K M F G D Y A V P Y L N R L V D A L H E R D I V H L C G K L
UniRef90_UPI0001FFF030 S W A G A L S E R D Y R E F V L P H S S A V L S A L A G S G L P R I H F G V I G T
UniRef90_U5FZJ6 S W G G Q L P P D M W D S F K L I Q I V S T V R S K C P K A P L V L Y I N G N
UniRef90_UPI0004749E59 S W A G Y L S A A D Y R R F V L P H S A A V F S S L S H H A G V P A F H F G V I G T
UniRef90_K4MAJ2 S E A G P D L F A P P L F E S L V L P V Y R S L T S K M K G M K L L H M C G D A
UniRef90_Q6AHF5 S W A G S L S L R D Y A E H A A P A S A R A F S H V R V R A V P I V H F G V I G T
UniRef90_F0YVQ2 A L C S Q I S E S M Y L E R I F P F H V I Q L I E H A K K A G V F H I C G D S
UniRef90_D2Z704 P S G T G E I L L G P K A F E R W A I P A L N G I L D R L G L S T I H I C G R L
UniRef90_Q2ISV3 T W G I L L P P P R E F E K W C I E P T R R I V E G V R K V K I I G F P R G A
UniRef90_S6B5B4 P S A S P A V V P P Q M S F R E L L P R L Q R V E A S F R Q A N W L N T I A G S P
UniRef90_UPI00036FC3F1 S S A S E S M L P P E M S F R E L D V R H L K E L V D R Y K E L G L R T I L H N D
UniRef90_W7CUY6 S W V G A L S A A D Y R T Y I K P A I T Q I V T T V K Q T P V I M Q A V I G A
UniRef90_UPI00047D469F S W A G S L G L A D Y T R H V A P S S A R A L D H V R G L G A P L V H F G T G T
UniRef90_F0YU91 A M A S N T V I S A Q N Y E E F A L P Y E T R L V S A I H D N G I T H I C G D I
UniRef90_F8I6C3 S W I G A L S R P D Y E R F V E P Y M T T I F A Q L K A L Q V P L I Y F G V I G T
UniRef90_B8GHN4 P S A S P A V I P P M F R Y E F E V P R L T R L F S S L K E H N W L H I C G S V
UniRef90_Q5B9P7 S W S F Q D F S L P Y L R H I S A N L P R R L K E M G L E P V M T V F A K G A
UniRef90_I4BI56 S W A G T L S L A D Y R A Y V L P H S T R V F A A L S Q F G V P M T H F G V I G S
UniRef90_UPI00034AFE11 S W V G S L S R A D Y V A R V A P H S A D A L A H V A D L G V P R I H F G V I G S
UniRef90_G7IH45 S W G G Q L P P H M W E L W S K P Y I K E I V N L V K K C L V L Y I N G N
UniRef90_F5Y827 H V T S D L V I S A S T Y E E F L L P I H I K A A Q T L R G P V I L H I C G N V
UniRef90_UPI00037B2B84 S W A G C L S H A D Y L T Y V R N H S A K A L A A V K G S G V P R I H F G V I G T
UniRef90_H0TTJ0 T W A G V L S P R E F A R W S M E P T R R I V E G V P D A K L I G F P R G A
UniRef90_A4FAS3 S W A G A L S L R D Y R E F V L P H S R R I F E G V A E T P G I H F G V I G T
UniRef90_R9N8H4 P V S A T S L I S V E Q Y K F S L P Y F Q K N V D H I K K N C G L H I C G T S
UniRef90_F0Z1Q9 A A C S L I G P E D L Y E F A L P Y Q K L I S R I H D K V K L H I C G N L
UniRef90_E4UCE6 T H A G F E C E F E N Y A A K P V G R I I S A V R K K C P N A Q I I T F A K G A
UniRef90_X6KZ06 S W A G S L K G E D F R R Y A L E P A R I T K E L K A R F V I A F P R E A
UniRef90_I4BBV6 S W G D V L S P E T Y E M K L L P H V E R I V N A I S H A P V I L Y D K G
UniRef90_G6F1T6 S W G L L L P V M L F E K Y V I Q P T R Q T V D I V K N K Y P H I P I I G F P R
UniRef90_W2BPD5 S W A G R L A F H E Y R E F S K P H S A Q V L K G V A D L G L P R V H F G T Q T
UniRef90_E0MN28 S W A S D E A Q F Q L W C V E P V K A V I A K V R A E V P D A K L I G F P K G V
UniRef90_M9SHR7 G S A S P D L T P P L D F E R F A G G R L R S I F S G I G C K K S L H I C G E A
UniRef90_C7N1G5 P V S S S S I T R A E M Q Y R E F S L P Y L K K N V D F I K S R C G L H I C G K S
UniRef90_K0B01 P M G S C S L I S P K M F K F V Q P Y L S K C S D R I G K R P C S L H I C G Q T
UniRef90_UPI00037F910B S W S G V L D P F R R W S I E P I A R I V A L V R A E V P G A R I I A F P G A T
UniRef90_K6J4Q5 T A G G D L S P E F F H E L V V P G I K T L E A D Q Y P G K V G Y Y G K G T A
UniRef90_UPI00036DCAE7 S W A G A L S L A D Y R T F V M P H S K R V F E A V K S A G L P R I H F G V I G T
UniRef90_UPI00035041D5 S H A G H L S G P E Q F Q E F A L P Y I R D I A R D V K S K P M L V F A K D A
UniRef90_A0QIL2 S W A G A L S L A N Y R S Y V Q P H S A R V F A A L A D Y G V P M T H F G V I G T
UniRef90_R6SEN1 P V I S T S L L R V K Q Y E K F S L P F F Q K N V D F I K S Q C G L H I C G T S
UniRef90_F5YJD6 P T A T G E I L L G P R F F K E Y A L F Y L N D A I R A L G V P V I I H I C G D L
UniRef90_A0A024KD57 S W N L D E A A F R S Q V I E P N V R V A G V R A Q V P D A P I I G F P G A A
UniRef90_UPI000379E92F S W A G L L L P P S Q F R R W V I E P T G E L V R R L P G F P I I G F P R M A
UniRef90_F5YVK3 S W A G T L S L A D Y R K Y V L P H S A R V F A A L A D A G V P M T H F G V I Q T
UniRef90_G6A113 S W A V P A S W R D K L I T N P H E K I T Q Q L R K R G I N L P V I C F P G L G
UniRef90_U5RNY7 P L S S C T V V S P K H F E K F C M P L I E K L V R F I G K T C V L H V C G K T
UniRef90_UPI00047548B2 S W V G A V I S P I D Y R T S V L P Y S R R I L D E I G E L G V I H F G V I G A
UniRef90_U5H058 Q V G F E T F L L P Y L A L L P K Y I V K A Q L K E L N I S C P P M T V F A G T N
UniRef90_Q6LY43 S G S L I S P R S F K Q F S K P Y I T E L V D H A H E L G T I I P L H I C G K T
UniRef90_F7VBQ0 S W A G L L L P P S E F R K H V I A P T R Q T V Q A V K A K H I I G F P R L G
UniRef90_Q5FF08 S N A G V L S C E E F E R W I L N P T K E I L S S V R K T Y P F P F I G F P
UniRef90_F0Y441 S W A H Q L N P A D F A A F S K P Y A L R V A A S V R E A H V L F F A N G G
UniRef90_A0A059FDJ6 S W A E G L P D N I F R E V I T A P T Q K L V A G L R A R G V T V P V I G F
UniRef90_K0YX95 S W V G V L S G E D D Y R R H V S P Y S A R A I E V A G R A P M L H F G T G T
UniRef90_B2HM23 S W A G M L S L A D Y R Q Y A L P H S A R V F A T L A E H G V P M T H F G V I G T
UniRef90_B1XSD6 T W G G M L P D G W Y Q K M S L A S M Q K V I A M L P R E H V I L F T K G G
UniRef90_UPI000378E835 S W V G R L S R D E Y R R F V Q P H S A A V L A G V A D L G V P R V H F G T G S
UniRef90_UPI000462A380 S W A G S L S P D Q F E R W V I A P N A A I V A G A L R A R C L I I G F P G A G
UniRef90_UPI0002626107 S W A G A L T L R E Y R E F V L P H S A R V L G A V A D L D V P R I H F G V I G T
UniRef90_D5RKI2 S W S G L L S P S Q F R R W S I E P T N A I V R A L P D I P L I G F P R L A
UniRef90_A6BKM2 A E P T A S L L S P K Q F R E F V I P Y Y V K V M D K W E W S G F H I C G D T
UniRef90_B9E7T9 S W V G A L N R A D Y H T F I A P H M E R I F K E I K A K G V P V T T F G V I G A
UniRef90_C1N7L8 S W G G Q L P P H M W E V W S K P Y L Q R V V D K V R A S H I L T L Y A N G S
UniRef90_UPI00026CD050 S W S G S L S P A Q F E R W V I A P N A A I V A A L R A R H I I G F P G A G
UniRef90_UPI00036CFA42 S W A E G L P N D I F E K T I I G P N R K L V K R L R E L G V I I G F P R G A
UniRef90_UPI000470E9F4 T H A G L L P F D V Y N E L F L P P V R K I A Q V V R D A G L P F I F F P K
UniRef90_E5Y4Q9 P C S S G D M I S P K M Y E Q H V V P T L E G L T S Q L K N C H I C G K A G M R
UniRef90_Q12YN8 S E A G P E L I P P E F F E T M I F P E Y K R L N R E I K G K T I A H I C G D S
UniRef90_T1BKT9 S W G L L L P Q Y H A C G V D P V R Q V L N R I Q L T H P D T P I L F A R G I
UniRef90_UPI000417E93E T W A G V L P Q R F Q R W E P T R R L V E G V R K Q R P G A K I I G F P R G A
UniRef90_V7PW20 S N A E I V D K N I F K K F S L N Y I N K I I Q A I K K Y Y V I L F I K D N
UniRef90_UPI00016C4421 S W A G A L S P A E Y D A W A Q P H S E I L A G A T G V P R I L F V K E
UniRef90_UPI0004657F65 S W S G D L P P A E F M T W A S P I A A I C A R V R A R R I L A I F P R G A
UniRef90_G4R7Q8 S W N L D E E A F R S H V I E P N R R I E K V R S F I P D A P I I T G F P G A A
UniRef90_B6JII7 T W A G V L P P A E F A R W S I A P T R R I V E Q V P D A K I I G F P R G A
UniRef90_M2U7R1 S W A G S L A P A E F E R W V I A P T R T L V E A L R E R C V I I G F P G A G
UniRef90_A0QW23 S W A G T L S L T D Y R E Y V L P H S S R V F A T M A A A G V P M T H F G V I G T
UniRef90_C1MKI0 A M C H E N F I N F A Y P C L E R A L E I R S R H P D T P I L G F T R D A
UniRef90_R6BMM7 P A T S G N L I S N K M F H F S K P H F M D L L A G I K E I P G I H I C G K T
UniRef90_UPI00047608C0 S W A G S L S P A Q F E A H V I Q P N R A I V D R L R A R H I I G F P G A G

UniRef90_Q1NDA1 A K L A D Y A V Q T G V D A V G V D E T L D P H W A H G A L P A G M P V Q G N L
UniRef90_D9SGK1 L N S V V D E V I R E V G I T T Y Y P G P L D N I T D S M R L T G D R A L C A G
UniRef90_E8X2R1 A S L L P T M T E T G A D V L G L D K W R I P L D S S G W K S V G T A H A I Q G
UniRef90_K6VDZ9 F H P D L K E L N I D S I T H K Q L A V N S S F Y Y D L F E G R I L L Q G
UniRef90_A0A023D613 G V M A P A Y R E T G V D A L A C D T S A D M A Q T A R M V P D T L V L Q G N L
UniRef90_F8JDV3 G A A A S L Q T Y L D G T N V E G V S C D T S C P L S V M Q T A K T G K A V Q G
UniRef90_UPI000255F097 G E I L P A M R D A G A S V V G V D Y R L P L D E A H R R L Q A S P G A D A V R G
UniRef90_U1Y1R9 G H L L Q E W N K L P L D V I G L D W R T S I T D E A R Q Q G V S K T V Q G N L D
UniRef90_A3UIC4 G P Q A V R Y A K E T G I Q C L A L D H G L D T D W A R G A F P K D L P L Q G Q N
UniRef90_D1C0P6 A H L L P A M R D V I A D R T V G V D Y R T P L D E A L G M I G A G V N L Q G N
UniRef90_UPI000474EED0 R N S G K L Y H E Y V K E T K V D G V S C D Y N L P L E E M L K L Q K K V L V Q
UniRef90_I0GUN5 D A V K K H I P A L H G D A V S T D A M V N L Q A L K A E C G V T V M G
UniRef90_UPI0001FFF030 A E L Y G A M T E A G A D V I G V D W R T P L D V A A A R A G G A V P V Q G
UniRef90_U5FZJ6 G G L L E R M K R T G V D V T G L D W T V D M A D G R K R L G S G L S V Q G N V
UniRef90_UPI0004749E59 G E L L T D M A S A G C F D V V G V D R F V D L A D A S R R V R P G Q A L Q G N
UniRef90_K4MAJ2 T A I L E P L A D S G F Q G L S I E E K V D V A Y A S Q I V G D E V C L I G N
UniRef90_Q6AHF5 G E L L P A M H E A G A D A I G V D H R T L L D E A S R R L G H I V P L Q G
UniRef90_F0YVQ2 S R I L P H L T E A G A N L D I L D S L V K D V P S L V R R L G K N Q V L C G N
UniRef90_D2Z704 G G V A H L L D D R S D C L S F D S I T S A K E L A L R L G A G V N L Q G N
UniRef90_Q2ISV3 G A M L P D F T A R T G V D A V S I D W T A E P N M I R E R V Q S K V A V Q G N
UniRef90_S6B5B4 E T T L P Y Y P E A G A D I A N F D Y Y V E P Q R A Q Q L L P H T C L D G G
UniRef90_UPI00036FC3F1 A Q Q P F V D M Q I G A A C S H F N D Y D C V D L A G M F E K H R G K V C L M A G
UniRef90_W7CUY6 S H L L P E W R D M D I D V V G V D W R T S I T D A R A R A G G K A L Q G N L
UniRef90_UPI00047D469F S E L L G A M Y G V G V D V M G V D Y R L P L D E A N R R L G G V T V P L Q G
UniRef90_F0YU91 H G I A D R I A R N G S D I I D F D H L C D V T E L K K Q T G K G V L R G N I D P
UniRef90_F8I6C3 A H L L P A M A R T G A T V L G V D W R T P L R H V R R L L G D E W A L Q G N
UniRef90_B8GHN4 G S L L P F Y P E A G V D I A N F D Y S V N P L D A Q E A L P R T V L D G G
UniRef90_Q5B9P7 W Y A L E D L C E S G Y N V G L D W L H D P A E A F K I A N G R V T L I Q
UniRef90_I4BI56 E A V H G D G G G H G V P A V V G V D W R T S L I T D A S R V R R G T A L Q G N
UniRef90_UPI00034AFE11 G E L L R D M T T F G V D A V G V D W R L P L D E A V R R R V G S G V T V Q G
UniRef90_G7IH45 G G L L E R M V D T G V D V I G L D W T V D M A D G R R R L G S G I G V Q
UniRef90_F5Y827 M D R L D C I A R T G F S L F H M D S R N N I S A A V K Q L S A S I T L T G C
UniRef90_UPI00037B2B84 G E L L G A M A G A G C E V I G I D F R L P L Q E G A R R A G G G H T V Q G
UniRef90_H0TTJ0 G A L L P S Y V A A T G V D A V S I D W T A E P K L I R E Q V Q S K V A V Q G N
UniRef90_A4FAS3 G E L L G A M R S A G A D V V G V D W R V P L D T A A R E A G P D Q G A P V V Q
UniRef90_R9N8H4 R K L W D Y I K E T G I G A F S L D N V E D V E E A K Y I L G G R M C I Q G N
UniRef90_F0Z1Q9 N P V L H L V A K E T G A D I V D L D Y M V D L R K A C D I F P E T S C L N G N
UniRef90_E4UCE6 G Y M L K N Y R Q L T D S N A I S L D W S V P L S F A F D L Q K E G P V Q G N L
UniRef90_X6KZ06 G E G Y I G F H E T G A D C V A I D N S V T P E W A A E H V Q V S G C V Q G N L
UniRef90_I4BBV6 A S L H I D V L R P F A R R T N A M L S V D W R I N I A S L S D I R V Q
UniRef90_G6F1T6 L A G T K L Q S Y I D G T G L Q T V I G I D Q T A D I S M L N Q I V N S K I G F Q
UniRef90_W2BPD5 R D L V D M Y E A G A D V V G V S H D I G L D E A S K L F D N S V P L Q G G
UniRef90_E0MN28 G A F Y A D Y A A Q T G I D M L G L D W T I P F S F A K E L Q K K T P V Q G N L
UniRef90_M9SHR7 Y E I L D G M V S T G A D A L S I E K R A G M G H A V E R V G G R A V L T G C
UniRef90_C7N1G5 R A L W D D I T S G I G T F G P D N V E D M A E A K E V L G P H M C I Q G N
UniRef90_K0B017 E K L L K D L A E I K V S S L D N V D M E K A K E E I G K E V C L V G N
UniRef90_UPI00037F910B L S G L T A M V I Q A S G V N A V G L D W T A D R P A T R Y A L G G K C A L Q G N
UniRef90_K6J4Q5 S P H F Q A I R E P T L A G F G F D H R W D L K E I F K H E K R M I Q
UniRef90_UPI00036DCAE7 G E L L G A M G E A G A D V V G V D W R V P L A E A R R V G P G K A L Q G
UniRef90_UPI00035041D5 H Y A L R D L A Q A G Y E V V G L D W T I Q P Q E A R A Q V G K G V T L Q
UniRef90_A0QIL2 G A M S A A L K P A P A T V V G V D W R T A L A D A A T R V M P G T A L Q G N
UniRef90_R6SEN1 R K L W E L L P T G I G T F G P D N V E D M A E A K E L L G P Y M C I Q G N
UniRef90_F5YJD6 G A V K P Y L L G E L R G D A L S V D A M V N L S A L K Q E N S G L I A M G
UniRef90_A0A024KD57 G M V A A Y A E A T Q V N A I G L D Y S M P T G F A D S V L P R T L G V Q G N L
UniRef90_UPI000379E92F G P M V E Y A A R A G V Q A V G M D T A M D P R W A A N L P P G L A L Q G N L
UniRef90_F5YVK3 A E L L G A M A E A G A T V V G V D W R T R L T D A A A R V G T G V A L Q G N
UniRef90_G6A113 E G L I A Y S E Q V N A S C I A L D Q H T D P I W A H K T L R A D L P L Q G N L
UniRef90_U5RNY7 K K I W P Y V G K L S K I G V S G F S M D N V E K E C K E E L G D K V K I M G N
UniRef90_UPI00047548B2 G E L L G Q M S E A G A D V V G V D W R V P L D V A A K R V G P G K A L Q G
UniRef90_U5H058 A A P Q L Q A L S I G Y S T V G L D W G I T P R A A R E A T G G K V A L Q G N
UniRef90_Q6LY43 T K I I E Q M S E T G A D V L S I D L C D L P R A A K E K V S G K S V I L G N
UniRef90_F7VBQ0 G M M V P E Y A R E T G V D V V A L D T S A D L A L M R T Q V P E S I G L Q G N
UniRef90_Q5FF08 K G A G V L Y K R F T Q E T N V S V T S I D Y S V P M S W A K E N I P S I T Q G
UniRef90_F0Y441 S S Y L G L Q R D M A G D A H Y S A L S L D W A V D M A D A R A Q L P S V P V
UniRef90_A0A059FDJ6 P R G A G V M L I E P Y A K E T G V T A V G L D T A A V P S F V N S V L P P D M P
UniRef90_K0YX95 P Q L L T A M H D A G G D I I G V D Q R I S L D S A S A L F D N T V P L Q G N
UniRef90_B2HM23 A E L L G A M S E P G T A K V V G V D W R T A L A D A A A R V Q P G T A L Q G N
UniRef90_B1XSD6 A I W L N D M A Q A G A D V I A L D W T M S L S R A R K Q L L A I D K P L A L Q
UniRef90_UPI000378E835 G D L V D M H A A G A D V M G V A S D V S L A V A N A R L G G G V P L Q G G
UniRef90_UPI000462A380 G K L P A Y A R E T G V D A I G L D E T V D P A W A D A V L P Q G L P V Q G N L
UniRef90_UPI0002626107 G E L L T A M R E A G A D V V G V D W R V P L D E A V R R L T A H G P V P V V Q
UniRef90_D5RKI2 G P L L A E Y A Q R T G V G T V A M D T G M D P R W A A A N V P E G I T L Q G N
UniRef90_A6BKM2 T K L L E T F P E M G I R G I S I D S V D I A Y A K E T V G D K L S I M G
UniRef90_B9E7T9 S H L I E E W N A L P V D V L G L D W R L Q I E E A R Q L G I T K T L Q
UniRef90_C1N7L8 G G L L E R M A T T G V D C I G L D W T I D M E D G R R V G D K A V Q G N V
UniRef90_UPI00026CD050 E K L P A Y A R E T G V D A L G L D E T I D P E W A A T L P A D L P V Q G N L
UniRef90_UPI00036CFA42 G V Q L P E F A E Q T G V N A V G L D T A A L P S F V N R E L P P T M P V Q G H
UniRef90_UPI000470E9F4 G I G T G L A K L T P E E A D F L S V D W Q T S L T N A R K L V H P E I G L Q G G
UniRef90_E5Y4Q9 L P H V K A L G I D G F S V D S P V D L K E S L E A A G K E L T M V I G N F N P N
UniRef90_Q12YN8 A D I L E K V A I S G F D G I S I E E K V D V Q Y A K S A I G D K A C L I G N
UniRef90_T1BKT9 G C R L E M V R D L P R C L A L D S M V D L R Q A R Q R L G N A L A L Q
UniRef90_UPI000417E93E G A L L P A Y V A T G V D A V S I D W A E P E L I R R D V Q S G V A V Q G N
UniRef90_V7PW20 F H E D I K N L D I D V L S I T H K Q L I N N G S N Y Y N L F Q N K I I L Q G
UniRef90_UPI00016C4421 G P Y L E R M C A T G A D V I S L G S V H D L A A A R R D H P H L V F Q G N V D
UniRef90_UPI0004657F65 G A K L K A F A E A V P A D A I G L A T A E D R R A A R E A V P A H V A L Q G N
UniRef90_G4R7Q8 G M L A E Y A E K T G V S V L G L D F A T P L D F A S S N L P K T L P V Q G N L
UniRef90_B6JII7 G A L L P A Y T A E T G V D A V S I D W T A E P S L M R E R V Q S R V A L Q G N
UniRef90_M2U7R1 A K L P D Y A R L T G V D A V G L D E T V D P A W A H R A L P E G L P V Q G N L
UniRef90_A0QW23 A E L L G A M S E P G A A R V V G V D W R T S L A D A A A R V L P G A A L Q G N
UniRef90_C1MKI0 P Y G L H Y L Q H A G Y D V M T V D T M R G H D A R A I L Q E E A S A R N F D
UniRef90_R6BMM7 K H F W K D L P E M G F P S F S V D N C E D L A E R K E A I G D K M K I S G N
UniRef90_UPI00047608C0 A K I L V D Y A A G V A P D A I G L D E T V D P A W A N A V L P A G M P V Q G N L

UniRef90_Q1NDA1 D P L A L T I A G G R A V E E A V D A I V R A A F A D R P H I L F N L G H G I L P D T
UniRef90_D9SGK1 V I N D I K L L D W T P D E V R S E V K R T V Q G G G K K L F F G G T V L M P G G I
UniRef90_E8X2R1 N L D P H I A L E A P Q E K L V L H A R Y V K T L L Q Q G G G H Y I F N L G H G I V P P G T
UniRef90_K6VDZ9 A L D P H I M L L N D E K L V S R Y T S E M I S Q N K Y I A N T L G G H G M L P P G S
UniRef90_A0A023D613 D P F I L K T G G E T L R R E A R A I R D G L S R G R P H V F N L G H G I V M Q D T T
UniRef90_F8JDV3 G N I D P L L L V A G G D V L E A Q R V D R T M A G L P G F V F N L G H G I V P P E T T
UniRef90_UPI000255F097 G N I D P A L L S A P W E V L A H V R E V V E T G G F V V V N L G H G I V P P T T T
UniRef90_U1Y1R9 P G L L L A D W P E L E K K A K E L L D E G M E T P G F I F N L G H G I V Y P Q V
UniRef90_A3UIC4 L D P A V L R A G G D V L D S E D R L L S A W A G R P Y V F N L G H G I H L D T T
UniRef90_UPI000474EED0 L D P A L L A A P W E V A H V R D V V A R G A E A P G H V V V N L G H G I V P P E T T
UniRef90_I0GUN5 G N L D P V I L L C N P E T I K S K V N R T M S K G R F I F N L G H G I L P T T T T
UniRef90_UPI0001FFF030 N V S T F A L Q L Q T P D V V Q R V T E N I V S K G L D I L A P A C G L S T T T T
UniRef90_U5FZJ6 N L D P A V L F A G Q D A I D A D V A R I A A E G G H V F N L G H G I V L P Q T T
UniRef90_UPI0004749E59 D P A Y L F S P L L J E L T D E I Q R V V R C A G P R G H I L N L G H G I V L V G T T
UniRef90_K4MAJ2 L D P A L L E A P W D V P R I E E L V R A G L E H Y G G H V F N L G H G I V L P T T T
UniRef90_Q6AHF5 V S P A E T L L Y K S R D V I K K E A K Q C I E Y A G L G I L A P G C G G I A P P T T
UniRef90_F0YVQ2 N A D P A M L A A P W E V L S G H A L D V L D R G R H V F N L G H G I V P P E T T
UniRef90_D2Z704 L D P V I S V L R F G T P Q M I E D E V K K L I D D G G K C M I G G G C C E I G A K G T
UniRef90_Q2ISV3 N V S T L A I E T A S P E H L K R M A K V C M D G G L D I L A P A C G I G A G T
UniRef90_S6B5B4 L D P L L L I A G G S A D Q G V D D V L K N F S A G R H I F N L G H G I T P P D A
UniRef90_UPI00036FC3F1 N L K S L L F V E A S P D E V T A A A S R L V E R G G F L L S P G C C E I P P E A S
UniRef90_W7CUY6 I N H Q E L M F K K S P Q E V E A A V R S T L D E P G L I L A P G C G E V P P F K S
UniRef90_UPI00047D469F D P S L L L A R D K C L T Q A E L L E E G T Q A P G F I F N L G H G I V F P E V
UniRef90_F0YU91 N I D P A L L E A P W A V L E A H V R E V I A A G G H V L N L G H G I V L P P D T T
UniRef90_F8I6C3 S L L A N G T A Q E V Y D Q T A K V L Q E G K K A G N F I L G S G G C H G V L P T A T T
UniRef90_B8GHN4 L D P V R L L A G W P K D G A E D I V Q R D M G N Q P G F I F N L G H G I V P K E T S
UniRef90_Q5B9P7 N I R P W S F V E A P P E E I T R E S S R L M D R G G G F I F N L G S G G C E I P L E S
UniRef90_I4BI56 G N A D P G V L Y G G R E A I L Q A V E T M V A N D G F G W I A N L G H G I V T P F V
UniRef90_UPI00034AFE11 L D P V V L L A G W P V V Q R A E D G R R A I D A G G H V F N L G H G I V L P A T T
UniRef90_G7IH45 G N I D P A M L A A P W E V L E A H V I R D V V S S A G H I V N L G H G I V P P E T
UniRef90_F5Y827 G N V D P A S L F S P L T S L T E E I Q R V V R S S A G H I V N L G H G I V L V G T
UniRef90_UPI00037B2B84 I N N P V T L A Q G T P A T V R E E V E A N L K S G I R L L S P E C A L P S S V
UniRef90_H0TTJ0 L D P L A L I T G A A D Q A V D D V L A S Y A S G G C H I F N L G H G I V L P T T
UniRef90_A4FAS3 G N L D P A V L F A G W E A V E R E V R R I L A A G G H I F N L G H G I V L P S T T
UniRef90_R9N8H4 V P P V E V M R F G T P Y D V L R S A K E C I R K G G Y V L S G C C Q M P L K T
UniRef90_F0Z1Q9 F D P V Q I L L Q G D I K T I D R A V K E C L A C A G L H I S A G C C E V P T F T
UniRef90_E4UCE6 D P M R L V V G N K V M K D G V K A I L D T L G S G P L I F N L G H G I T P Q V
UniRef90_X6KZ06 A S S H M V T G G E D L V R E T R L V E A F R N G R H I F N L G H G I T P P D A
UniRef90_I4BBV6 G N L D P A A L G E S A E S R L E T S R I L H A R G H V F N L G H G I T P Q A
UniRef90_G6F1T6 G N I D P L C L L H N P S M M K Q E I H N L L K N R P H I L N L G H G I V L P T T
UniRef90_W2BPD5 N I N P V L L G A S W P Q L S A E A D V I E R D G G H V V F N L G H G I V D K D T
UniRef90_E0MN28 D P N R L I A G G S A D E G V D A L L E N L S D G P L V V F N L G H G I V L P L T
UniRef90_M9SHR7 V D P V G T L L S G T P A D V V T E A R A C A D C G F G I L A P G C G G V P P M T
UniRef90_C7N1G5 V P P V E V M L Y G T P Y D V L R S A R E S I R K R G F V L T S G C C Q M P V G T
UniRef90_K0B017 V K P V E T I A D G T K E D I F N E S V G Y L L A K K G Y I L A P G C C Q L P M T I
UniRef90_UPI00037F910B L D P L T L I A G R A L D A I D A I L A D F R G A S H V F N L G H G I R P E T T
UniRef90_K6J4Q5 G N F D Q N L L F L E R G E F K D L K R Y L E R L G W V C L G H G I V M P K T
UniRef90_UPI00036DCAE7 N L D P A L L L G D W S A V E R E V R R V L A D A G G H I F N L G H G I V P P E T T
UniRef90_UPI00035041D5 G N L D P C A L Y A P K E K I G E L V K K M L E N F G Y I A N L G H G I V L P D M
UniRef90_A0QIL2 L D P V V L L A G W P V V E T A A R A R R A V D A G G H V F N L G H G I V P P E T T
UniRef90_R6SEN1 V P P V E V M R L G T P Y D V L R A S R E S I R K A G F V L T S G C C Q T P M F T
UniRef90_F5YJD6 N I S T Y L L E S G A E E V I A K S T R Y L V E Q G I D I L A P A C G L S T S T
UniRef90_A0A024KD57 D P L R L V A G G E Q M E T R T E I T A G F A G R P H I F N L G H G I V P P E T T
UniRef90_UPI000379E92F D P Q A L V A G G A L E A E A R S L M A M R N R P F V F N L G H G I V P Q T
UniRef90_F5YVK3 L D P A V V L A G W P V A E R A A R A A V A A G G H V F N L G H G I V P E S
UniRef90_G6A113 D P L C L V A G G Q L K D E I N R L L D C F A D R P H I F N L G H G I V P Q T
UniRef90_U5RNY7 V D P S N I M Y G G T K K E I V N T V A K C V L D R G G Y V V M S G C S L P V I E T
UniRef90_UPI00047548B2 N L D P A T L F T P W S V I E S R T R L V L D N A G H I F N L G H G I V Q P R T
UniRef90_U5H058 M D P P L L H S G L K R I K R E V R Q L V W G G W I V N L G H G I L T P G V
UniRef90_Q6LY43 V S P S D D L F G P V E R I H E S C K N L I E E P G F I L S T G C E T S D K V
UniRef90_F7VBQ0 L D P T J A V L S G G E A M R R E A A V R N A G K G R A H V F N L G H G I V L P Q T
UniRef90_Q5FF08 N I D P Y L L A Y D K E G A I A K K I N T M K K E P L I F N L G H G I V P S T
UniRef90_F0Y441 Q N V D P S L L L G S V A I D D A V K K C I D G A G H I L N L G H G I V L Q P T
UniRef90_A0A059FDJ6 V Q G H L D P L L L I E P R M E A R V R E L M A G R P H I F N L G H G I R P E T T
UniRef90_K0YX95 N L D P A Y L T V P F D L E A K V R Q L I R Q G K H I F N L A H G V L P K D T
UniRef90_B2HM23 L D P V V L L A G W P A V E R A A R R A V D A G G Y V F N L G H G I V L Q T
UniRef90_B1XSD6 G N L D P L I L F A E P K R I T E Q A N L L E D D G H V F N L G H G I T S Q F T
UniRef90_UPI000378E835 N L D P D L L R A E P A V L A A A A R V C A D G P G H V F N L G H G I V P P D T
UniRef90_UPI000462A380 D P L A L L A G G A A L D A G A I D R A L S A F R D R P H V F N L G H G I V Q F T
UniRef90_UPI000262107 G N L D P A L L I Q A S W P V I E A E V R R I A A E G G H I F N L G H G I V P P T
UniRef90_D5RKI2 L D P Q A V V A G G P S L E A E A R I L A A M R G R P F V F N L G H G I V P P T
UniRef90_A6BKM2 N V S P M E I L N G T P E S I E Q A V I D C F R K R G F T I A P G C D I P V I T
UniRef90_B9E7T9 G N L D P A L L M A P W E V I E S H L K R I L D Q G S Y I F N L G H G I V F P E V
UniRef90_C1N7L8 D P A V L F A P P E A R S S I E K A V Q D V C A K A G H I L N L G H G I V L V G T
UniRef90_UPI00026CD050 D P L V L I A G G A A M E Q A T R I L R A F A D R P H I F N L G H G I L Q D T
UniRef90_UPI00036CFA42 L D P L L L M T G G D A M V R R N E L L D A Y R G R P H I F N L G H G I V L P T T
UniRef90_UPI000470E9F4 N V D P R L L F A P Y E E I E K E L K K Y L R D G N W I F N L G H G F M P G I
UniRef90_E5Y4Q9 E L L C M G T S E A V Q A E A Y A N A E I A G L D G G Y V M M P G C D L A A R T
UniRef90_Q12YN8 V S P V H T L L I G M K P E K V K E E A K Q C I E D G V D I L A P G C C L A H T
UniRef90_T1BKT9 G N L D P H V L Y G T Y E E I L K Q V L R A T I D R T G F I F N L G H G I R P E T
UniRef90_UPI000417E93E L D P L A L I A G S A D A A I D Q V L A N Y A S G R L I F N L G H G I Q P E T
UniRef90_V7PW20 A L D P H I L L L D N K K N V Q K Y T S E M I Q Q N K Y I A S L G H G I L P N S
UniRef90_UPI00016C4421 E E I L R G G T P E Q V A D A V A R A G G G A R H I L N L G H G I D K E T
UniRef90_UPI0004657F65 V D P I A L T V G G A A D A A V D G V L A D L G D R P I V N L G H G I V R Q E T
UniRef90_G4R7Q8 D P L R L V A G G A Q M E K R A N A I I E A F A D R P H I F N L G H G I V P Q T
UniRef90_B6JII7 L D P L A L I A G G D T D R A V D D V L A N Y A G G R L I F N L G H G I V L Q D T
UniRef90_M2U7R1 D P M A L L A G G A P T D A I R I V I K S E L A D R P H I F N L G H G I S K D T
UniRef90_A0QW23 L D P V V L L A G W P V V E K A V R R V V E D A G H I F N L G H G I V L P A T
UniRef90_C1MKI0 P A L L H I D T G G D L K A I E S G V K R M L T E F G L I A N L G A G L T G K E
UniRef90_R6BMM7 V P P T T V L Q N G T I K D A I V I A S V I E C L T K G G Y S L A M G C A L P L G T
UniRef90_UPI00047608C0 D P L L L E A G G D A L D T G V R R I I D A L S G R P H V F N L G H G I G Q H T

UniRef90_Q1NDA1 P I A H V E A L L S Y V R Q
UniRef90_D9SGK1 P E E N I K A M I A A A K E Y
UniRef90_E8X2R1 P V E N V I Q V A R W V H E L S A
UniRef90_K6VDZ9 R V E N V R A F I D A V G A Y
UniRef90_A0A023D613 P P E H V A A L V E A V R D
UniRef90_F8JDV3 P P D N V A R L V A R V R K A S
UniRef90_UPI000255F097 D P E V L T R V V G L I H
UniRef90_U1Y1R9 K V E T L Q R L T A F I H D Y S A
UniRef90_A3UIC4 P P E N V T R L I E R V R G F
UniRef90_D1C0P6 D P T V L T R V V E L V H
UniRef90_UPI000474EED0 P V A N I E L L I K L V K N Y H
UniRef90_I0GUN5 P V E N I A A M T G T V K N H Y
UniRef90_UPI0001FFF030 D P D V V T R T V E T I H
UniRef90_U5FZJ6 P E E A V A H F F E V A R E F S
UniRef90_UPI0004749E59 D P A L P G L I V E E V H R V S
UniRef90_K4MAJ2 P L E H L K A F V A A R D E Y Y
UniRef90_Q6AHF5 D P A V L T R V V E L V H G W R A
UniRef90_F0YVQ2 P S E N M Y T F L E A V K K Y S
UniRef90_D2Z704 A L S Q V R T L V D S A K E
UniRef90_Q2ISV3 P V A H V E Q M V K R V R A Y
UniRef90_S6B5B4 K P E N I A A M V A A C R
UniRef90_UPI00036FC3F1 P L E N I V M L R Q A C E K H
UniRef90_W7CUY6 S P A M L K E L T A F V H A K S A
UniRef90_UPI00047D469F D P T V L T R V V E L I H
UniRef90_F0YU91 P P E N L K A F V Q A G R D F
UniRef90_F8I6C3 D P V T L R Q L V D W I H H W
UniRef90_B8GHN4 R Q E N V M A L V M A A R
UniRef90_Q5B9P7 N P D D L K F Y F E E I H R L T A
UniRef90_I4BI56 D P E T I T D M V A L V H E
UniRef90_UPI00034AFE11 D P T V L T R L V S L V H E
UniRef90_G7IH45 P E E A V A H F F D V A R
UniRef90_F5Y827 P G E N L K Q L V E T V H R F S
UniRef90_UPI00037B2B84 D P G V L T R V V E L V H
UniRef90_H0TTJ0 P I T H V E Q M V A R V R A Y
UniRef90_A4FAS3 D P G V L T R V V E L V H A E S A
UniRef90_R9N8H4 P K E N M Q A L M D A A R I F
UniRef90_F0Z1Q9 P P E N L E
UniRef90_E4UCE6 D P K N V L D L V E T V R
UniRef90_X6KZ06 D P E N V Q L M I D T V R
UniRef90_I4BBV6 N L A C H V E A M V E T V Q N F
UniRef90_G6F1T6 P V E H V Y E L V N T V R
UniRef90_W2BPD5 D P R V L T R L V E F I H
UniRef90_E0MN28 E I A H V E Q M I A R V R
UniRef90_M9SHR7 P D D N L N A L
UniRef90_C7N1G5 P R E N M T A L M D A A R I F
UniRef90_K0B0I7 D I E K I D M F V E A V H K F N
UniRef90_UPI00037F910B P I A H V E Q M I A R I R
UniRef90_K6J4Q5 P E E N V K R E V E I V R E
UniRef90_UPI00036DCAE7 D P S V L T R V V E L V H
UniRef90_UPI00035041D5 N P E H V G A F V E A V H A H S
UniRef90_A0QIL2 D P G V L T E L V S L V H
UniRef90_R6SEN1 P E E N M T A L M D A A R I F
UniRef90_F5YJD6 P L G N I Q A L T R A V T E
UniRef90_A0A024KD57 P L D H V A R L I D L V K
UniRef90_UPI000379E92F P P E N V A A L V R M V R
UniRef90_F5YVK3 D P G V L T D L V A L V H
UniRef90_G6A113 P P E H V Q Q V V E L V R K
UniRef90_U5RNY7 P S E N I Q L M M D T V R K
UniRef90_UPI00047548B2 D P D V L T R L T E F V H E Q T A
UniRef90_U5H058 D P D H M K Y F L Q R V R
UniRef90_Q6LY43 P M E N I Q A L M D S A R S Y
UniRef90_F7VBQ0 P V E H V A D L V K T V R E
UniRef90_Q5FF08 P V E N V Q A L V E F V K
UniRef90_F0Y441 P E A N V A A F V D A A R K H
UniRef90_A0A059FDJ6 P I V N V E R V L K I L R E
UniRef90_K0YX95 D P R V L T R L V E L V H
UniRef90_B2HM23 D P G V L T D L V S L V H
UniRef90_B1XSD6 P P E S V T A L A E A V
UniRef90_UPI000378E835 D P D V L T R L V E L V H
UniRef90_UPI000462A380 P I A H V E H L I Q R V R
UniRef90_UPI0002626107 D P D V L A R V V E L V H
UniRef90_D5RKI2 P P E H V A A L A R I L R
UniRef90_A6BKM2 S L E N I D A Y M R A A R K
UniRef90_B9E7T9 Q P D T L R R V S T F V H D Y S
UniRef90_C1N7L8 P E E N V K A F F D A A K K
UniRef90_UPI00026CD050 P I P H V E Q L L D F V R
UniRef90_UPI00036CFA42 P I P H V E L A V K T V R E W K A
UniRef90_UPI000470E9F4 P F E N A R F L A D W A K
UniRef90_E5Y4Q9 P L E N I L A M V R A S S D Y A A
UniRef90_Q12YN8 S L N N L K A F V A A R D E Y Y
UniRef90_T1BKT9 D F K N V E F L I D V H Q
UniRef90_UPI000417E93E P I A H V E Q M V K R V R A F
UniRef90_V7PW20 K I E N V Y A F I Q A V K
UniRef90_UPI00016C4421 P V A N F E A Y V R A A K
UniRef90_UPI0004657F65 P P E H V A R M V A R V R R
UniRef90_G4R7Q8 P I A H V S R L V D L V H
UniRef90_B6JII7 P I A H V E R M V A R V R A F
UniRef90_M2U7R1 P L A H V E A A L T E I R R
UniRef90_A0QW23 D P G I T D A V E L V H
UniRef90_C1MKI0 D P A R V D F F V N C V H N F S
UniRef90_R6BMM7 P R E N L E A Y M Y A A R R Y
UniRef90_UPI00047608C0 P I A H V E R L L A V L R

UniRef90_C7DH18
UniRef90_C0QHC8
UniRef90_U2XIO3
UniRef90_M8TI14
UniRef90_Q4S176
UniRef90_T3DD10
UniRef90_B8ZX2
UniRef90_E5XSM4
UniRef90_I4CEN3
UniRef90_N9WFC5
UniRef90_E9RVY8
UniRef90_UPI00035D3B5F
UniRef90_F6IFA3
UniRef90_W3Y3I6
UniRef90_A0A059FM56
UniRef90_UPI0002D72963
UniRef90_I0Z9U4
UniRef90_E3H4V4
UniRef90_UPI0001DD087E
UniRef90_C6KSS1
UniRef90_D3MUN2
UniRef90_E7AB94
UniRef90_UPI0003AE752E
UniRef90_UPI0003B31B2A
UniRef90_D3RNT3
UniRef90_F9UCP3
UniRef90_U6B6Z3
UniRef90_J6F7Q7
UniRef90_E7FYN9
UniRef90_K1M0E5
UniRef90_UPI00046D5DE8
UniRef90_UPI00046EC1AA
UniRef90_UPI0003754A3A
UniRef90_M9WXA5
UniRef90_UPI000381E591
UniRef90_R7CM09
UniRef90_Q5GTT1
UniRef90_W7YJP9
UniRef90_A6P2Q0
UniRef90_F5YBE4
UniRef90_UPI00047C771A
UniRef90_R7QF40
UniRef90_UPI0003B35E3D
UniRef90_UPI00040D31D3
UniRef90_UPI00046372BB
UniRef90_UPI00047C1686
UniRef90_UPI00021A6B7D
UniRef90_UPI00016C0B2A
UniRef90_UPI000360D9F1
UniRef90_G5HNR2
UniRef90_UPI000237D1D5
UniRef90_F8J7J8
UniRef90_M2ZYY2
UniRef90_B8FRW8
UniRef90_C8WDD6
UniRef90_UPI00037C711F
UniRef90_UPI00047AF801
UniRef90_V5XBA7
UniRef90_R7Q901
UniRef90_Q019R2
UniRef90_T0IRL6
UniRef90_UPI000472B4B5
UniRef90_C7M196
UniRef90_W0D114
UniRef90_K5YN28
UniRef90_UPI0002D47BDB
UniRef90_E9ELQ2
UniRef90_U1NYH8
UniRef90_U2WST9
UniRef90_F0Z1S4
UniRef90_J2LDV8
UniRef90_E8RNT4
UniRef90_I0XQJ0
UniRef90_D8DTU7
UniRef90_R7DLC4
UniRef90_D9QJS5
UniRef90_E4T7L8
UniRef90_UPI000364CAF5
UniRef90_B8CYB3
UniRef90_L0L2E6
UniRef90_UPI000464DD85
UniRef90_C7HV47
UniRef90_UPI0003B75C27
UniRef90_UPI0003B5FF2F
UniRef90_E4RMD4
UniRef90_D8K0M4
UniRef90_UPI00036446E5
UniRef90_H1LW15
UniRef90_D5EA11
UniRef90_Z9JN6
UniRef90_C2KTD3
UniRef90_UPI0003762783

1 10 20 30 40
K M T G R E R I M T V L N R K K A D S L P W V F M R Q A G R Y E Y S K I K G A N
T G S S R L V R T L L G E R V E K T P V W F M R Q A G R P E Y R A L R S G S T
E M T S K E R V F A M L N R K P V D R V P V I T G S V M V K E Y I E K S G S S
L L A V L R G E R R D P P P V W L M R Q A G R Y E Y R A L R K G G
E L T P K E R A I L Y K S G K E V D R L P C S F S L S E T A P V M Y G L N
T R R E L L A A V S G R K P C R V P V W F M R Q A G R P E Y R A L R R Y S
F L V A L A G D R P S R R P V W F M R Q A G R P E Y R A L R G R D
K M T S R E R A I V A V T M E S P D Q V P V N P L F L S R G I R E G G V R
L L A T L R G V R Q E R P A L W L M R Q A G R Y R A L R A T K G G
E M T P R E R S V L Y G V G K E V D H I P Y S L I G T E A A A E L Y G V D
M N Q D K A L L K V L R G E N S P P P I W L M R Q A G R Y E Y R K V R A P D
L L L N T L R G E N S G K R P I W L M R Q A G R Y E Y R S L R K G G
M N T A Y L D M I Q G K N P G V T P V W Y M R Q A G R S Q A E Y R K K Y T
T S T S K L I S V L S G T P A Q T P P V W M M R Q A G R H E Y L E L R A K D
L L D T L K G V R Q D V A P V W L M R Q A G R Y E Y R E L R K G G
L L V R A A R G E V V E R P P C W M M R Q A G R Y Q L A Y E R H P S
T A D S P M L Q A L T G R A S E H R P V W F M R Q A G R P E Y R K A R G I P
L L D C L R G E R A E S P P V W F M R Q A G R Y E Y R A L R K G G
K M T P I E R S Y A I S N G K L E Y D R L P M D P F L G E I K A R Y I G K N
F I D A C L G K Q T P Y T P I W M M R Q A G R Y E Y Q E I R K K N
K N D T F L R A A W G E D T D Y T P V W C M R Q A G R Y E F K E T R A A D
M L A V L R G E R R D P P V W L M R Q A G R Y E Y R A L R K G G
M T S M Q R V L T A L G R E P D R V P L F L F P V M Q G A R E L G L S
M T S L E R V L T T L G H R E P D R V P L F L L L T M H G A R E L G L S
M N Q K I L D V L Q G N V I N P P P I W L M R Q A G R H E Y L E I R K K N
F I D A C L G K Q T P Y T P I W M M R Q A G R Y E Y Q E I R K K N
E M T P V E R R R A I Q Q G K E I D R I P V D L L T V D N K A Q L V N C N
P K D R V K A A F R R T F A D R V P S Y P I L L G A Y T V N L T G A D
L L L R T A R G E P V E R T P V W M M R Q A G R Y R D L R D R Y P T
T Y D S A F L K A C R R E P V P H T P I W F M R Q A G R P E Y R K V R G I P
S K A K I A R I I S Q N E S D K V P I W L M R Q A G R S L P E Y R K A V N
M W F M R Q A G R P E Y R K V R G I G
M N R E E R V R A A L A S K D V D R V P V A I W M H
P I W L M R Q A G R P E Y R R A V K S S
E G K Q G R K I P
M K G L E I T K K A M K L E E V E R I P W V P F V I G A H A G S L L G L T
M T P K E L L F A A L R H E K T P R A P W V P F A G V H A G L L I G A D
M T P K E R L Y A R L A G K P V D K I P N L N I F M S L V A K E A G V T
M R Q A G R P E Y R A A R G T T
M M R Q A G R Y Q E L A K R H P S
M T S L E R I G T V L Q G G I P D R V P A A P L L C G A S R R V Y G I T
K D L I L K T L R H E T V N E V P W V P F S G V H A G F L K G Y T
M N H R E R I E H A I A G K E T D R L P Y S L W W H V H A G F L K G Y T
F L D A C A R R R P V T H T P V W Y M R Q A G R Y E Y R K I R S Y S
K N D L L L K A A K G E S T E R V P I W I M R Q A G R Y
M T G K E I F L G A L N F E E T P R L P V A V L D G Y T W I V K R D Q I S
M N H R E R I L T A L N H E E P D R I P V S S I A L S T Y R R L R D H L G L P
M N R E E R V R A A I E G R E P D R I P A S V W M H
N S L L I D K L K G K P T P R P P V W F M R Q A G R I L P G Y R K K Y T
K M T S R E R L F A A V T M Q T P D Q V P C V P L L M T R G I R E G G I T
D M T P K E R V M A A I Y D H D L D F F P A I C P T S V A N F E C M R L T N S F
L L K L L A G Q K L T T P P I W L M R Q A G R Y E Y R K L R K A G
M R Q A G R P E Y R A I R G T T
M N G N A L D K P P V W F M R Q A G R F E Y R A V R A K T
F L A A A T G R T P S H T P V W F M R Q A G R P E Y R A L R A H K
L L V R A A R G E P V P R P P V W L M R Q A G R Y M A D F R A H H P
N D L M I R A A R G E R V E R T P V W L F R Q A G R H E H K R A R S K N
N E K E R L L G V L N K Q Q P D R P V I C M M N A A I V D V M K S S G Q T
L L A A L A R R P G H H V P V W F M R Q A G R P E Y R A V R G V S
G E K I E R F P V W L M R Q A G R Y R E L R A K E K D
M T S R E R F L T A L S G G V D R I P I M E H L F S L K L M Q L L G Y T
P K E R M E L F S K G R D I D R I P C S P R V I G V T L S S L I N K T
W A G R Y L P E Y H E A K G R D
R F R S A I R G E P V D R P P V W I M R Q A G R Y E Y R E I R S H S
I L S V F N N E C P K S P P I W L M R Q A G R Y E Y K K V R K G S
M N A M E R V V K A L N H E A D R V P V Y P I I S G A S R R L T G V N
N D T F L R A C L R Q A T P H T P V W L M R Q A G R Y R A T R A Q A G S
M T S H T P I V S V L Q G Q T L K T P P V W F M R Q A G R H E Y R E L R A P D
S N I R F Q A A L K G E P Q A T P P V W M M R Q A G R Y H W H Y Q K H S
M N D L I L R T L Q G K K T E R P A V W F M R Q A G R P D Y L K L R D H S
N M N Q W V E G I L A D K K R A I P I M T H P G I E L I G K T
L I R V L Q G E T L E R P P V W F M R Q A G R Y E Y R A L R A P D
S N T I F T D T L K G I K R E R P P V W F M R Q A G R V L P S Y L K Q Y S
T G D S P L V R A S R G Q R S E T L P V W F M R Q A G R P E Y R A L R G V A
M N G K E K I Y N V F K N G S Q E V P W V P F A G V H A G K L R G Y T
M T P S E R M M A V M S G Q K P D R V P V P F V L G Y S S K I T G I S
M T P H E R I A M E R G E E T D R I S V I P F I G E I S G R L V Y G I S
E I T S S E R I S K Y L S G E R V D H I P F A I M S T N R I A N H L N Y T I S
M T S K E R L Q I A M D H K E P D R V P Y M V T F V P E V I L V L K E K
T P V W F M R Q A G R Y E Y R E L K K Y S
A G V H A G K L K N Y T
M N G K E L I F Q V F E S G K G D R L P W V P F
M N H R E R L Q A I I Q N Q P I D R V P V A F W R H
M Q K V E R V K A A L R G L P V D R P V S L W
K M T P D E R A R A I A E K R D Y D R I M M D P F L G E I K A R L I G K N
M T P P E R M A A V M S G Q K P D R I P V V P F I L G Y A S K I T G I S
L L A R L R G E A T T A P A V W F M R Q A G R P E Y R A V R G T T
M L S N S P F R A A L A G V R P A Q T P V W F M R Q A G R P E Y R A R G V G
H R A Q V E M A L N F E K P Y R T P V Q N F S N I T A V H S G G Y Q

UniRef90_C7DH18 UniRef90_C0QHC8 UniRef90_U2XIO3 UniRef90_Q8T104 UniRef90_M4S176 UniRef90_T3DD10 UniRef90_B8ZQX2 UniRef90_E5XSM4 UniRef90_I4CEN3 UniRef90_N9WFC5 UniRef90_E9RVY8 UniRef90_UPI00035D3B5F UniRef90_F6IFA3 UniRef90_W3Y3I6 UniRef90_A0A059FM56 UniRef90_UPI0002D72963 UniRef90_I0Z9U4 UniRef90_E3H4V4 UniRef90_UPI0001DD087E UniRef90_C6KSS1 UniRef90_D3MUN2 UniRef90_E7AB94 UniRef90_UPI0003AE752E UniRef90_UPI0003B31B2A UniRef90_D3RNT3 UniRef90_F9UCP3 UniRef90_U6B6Z3 UniRef90_J6F7Q7 UniRef90_E7FYN9 UniRef90_K1M0E5 UniRef90_UPI00046D5DE8 UniRef90_UPI00046EC1AA UniRef90_UPI0003754A3A UniRef90_M9WXA5 UniRef90_UPI000381E591 UniRef90_R7CM09 UniRef90_Q5GTT1 UniRef90_W7YJP9 UniRef90_A6P2Q0 UniRef90_F5YBE4 UniRef90_UPI00047C771A UniRef90_R7QF40 UniRef90_UPI0003B35E3D UniRef90_UPI00040D31D3 UniRef90_UPI00046372BB UniRef90_UPI00047C1686 UniRef90_UPI00021A6B7D UniRef90_UPI00016C0B2A UniRef90_UPI000360D9F1 UniRef90_G5HNR2 UniRef90_UPI000237D1D5 UniRef90_F8J7J8 UniRef90_M2ZYY2 UniRef90_B8FRW8 UniRef90_C8WDD6 UniRef90_UPI00037C711F UniRef90_UPI00047AF801 UniRef90_V5XBA7 UniRef90_R7Q901 UniRef90_Q019R2 UniRef90_T0IRL6 UniRef90_UPI000472B4B5 UniRef90_C7M196 UniRef90_W0D114 UniRef90_K5YN28 UniRef90_UPI0002D47BDB UniRef90_E9ELQ9 UniRef90_U1NYH8 UniRef90_U2WST9 UniRef90_F0Z1S4 UniRef90_J2LDV8 UniRef90_E8RNT4 UniRef90_I0XQJ0 UniRef90_D8DTU7 UniRef90_R7DLC4 UniRef90_D9QJS5 UniRef90_E4T7L8 UniRef90_UPI000364CAF5 UniRef90_B8CYB3 UniRef90_L0L2E6 UniRef90_UPI000464DD85 UniRef90_C7HV47 UniRef90_UPI0003B75C27 UniRef90_UPI0003B5FF2F UniRef90_E4RMD4 UniRef90_D8K0M4 UniRef90_UPI00036446E5 UniRef90_H1LW15 UniRef90_D5EA11 UniRef90_Z9JN6 UniRef90_C2KTD3 UniRef90_UPI0003762783

50 60 70 80

V L D V Q S D P L A S S E I T V L P V D K L G V D A A I L Y A D I M I P I R A A
A D E V Y Q D S D K C F E S L T K K V N Q L Y K P D G Q P I I F D L Q L E A E I L
M L D A C H S L N T P E L A S E I T L Q P V R R H G V D A A I F F S D I L T V P L A I L
W P D Y A C S N A E M M V N T V S L M H T D A G L D N L V M P F G M F I E S M A I L
F L E L V N D S A A A A E V T L Q P I R R F G F D G A I L F S D I L V I T P H A L
I S D Y Y Y S S E M M I E M E R N L A R R D F N V D A S M G V G L G L R G I G E A L
M L A A C F E P E V A C E I T L Q P V R R R Y D V D A A I L F S D I V V P L C A A
M L A T C L D P E L V C E I T L Q P V R R R H G V D A A I L F S D I V V P L K T A
V D Q V L F D G E A Q A R A K I K A L E K F G G D V I V A G T D I L V P V E N L
F L E L C Y D P E A A A E V T L Q P I R R F G F D G A I L F S D I L V V P H A L
I R K T Y T D I E T V I A L E K K M V D D F G G L G C M S I G P R L K G I A E A L
F I S F C L N P E A A S E V T L Q P I R R R Y G F D A S I V F A D I L L T P M A L
F L A L V Y D T D A A A E I T L Q P I R R R F G F D G A I L F S D I L L V P Y A M
L F E I T K E P E L C A R V T E L P V R R E Y G V D A A I L Y K D I M S P M V I G M
F L D F C Y T P S M A S E A T L Q P V R R R Y D M D A A I L F S D I L L V L D A M
F L E L V Y D P S A A A E I T V L Q P I R R R F G F D G A I L F S D I L L V P H A M
F R E R S E R T D L I V I E I S L Q P W H S F R P D G V I L F S D I L L T P L A A L
M L D A C L T P E L A A E I T V L Q P V R R R H K V D A G I E F S D I L V I P M K L A
F L D L V Y D P S E A A C E V T L Q P I R R R F G F D G A I L F S D I L L V P H A M
F F E I C K S P D L S S Y V S I M P Y D R F K T D M I V I F S D I L L I F V A M
T R E Y W L N E D N L V N A D I A A F N K F G Y D G M G V G P N A Y G I A E A L
F L D L C A N V K L A T E V T L Q P I E L D V D A A I L F S D I L L L P H A M
F F S T C R S P E A C C E L T L Q P I R R F F P L D A A I L F S D I L L V P Q A L
F L D L V Y D S P S A A A E V T L Q P I R R R F G F D G A I L F S D I L L I P H A L
I E E Y F A R P E Q V A E G Q W R L R A K L G H D C L Y N F F Y A S V E T E A W
L E T Y F S R P E Y V I E G Q L R L R G K Y R N D C L Y P F F Y A S V E T E A W
F L K M C Y A T K H V A S E L T L Q P I T R Y N F D A A I L F S D I L L V P N A L
F F E C C R K P E L A S K L T L Q P I D R Y P N D A S I L F C D I L L V P Q A L
F L D L C A N V D L A S T I T L Q P V E I L D V D A A I L F S D I L L L P H T M
V R D L F T D R K L M V I E A E L K A T Y E R F G V D W L S C S P N S K A L S Q S L
L R E F Y F Q A K P L A D G Q L A T D A Y E P D L L V L M R D I L L T E A E A M
F R E R S E N P D L S Y E T S M Q P F E A F H P D G V I L F S D I L L T P L P G M
M L E S C M R P E L V A E I T L Q P V R R H G V D A A I Y F S D I L V V P L K A I
F M E I C M S T D L V T E I T L Q P I T R F D M D A A I L F S D I L L I A D I L
M L I E S C T R P E L I T E I T M Q P V R R Y G V D A A I F F S D I L V V P L K A V
L S Q F D Q D P I S L A E A E V L T E K Y D F M D Y I L K M M P F G L Y S T Q D F
F M E I C Y N T D L V V E L T L Q P V A R F S M D A A I F S D I L I V A D V L
A T E Y L Q S A D K I V E G V N K A I E T Y H P D G I P V A F D L Q I E A E A L
A A Q V L T D E D M L V K S L L E V N R L Y R P D G Q P V M F D L Q L E A E A L
Y S K Y I L D Y R K L A E G N L I C A E K Y G V D Y V S T I S D P M R E A S A F
M L I E A C R T P E L V C E I T M Q P V R R Y K T D A A I F F S D I V V P L A A I
F R E R S E N P E L S L E I S M I Q P W R A F R P D G V I L F S D I L L T P L P G M
Y D E W T M G E L A A K S L I Q A H D L I G F D G I L G L V D L S V E A A D F
A R E V L T D G D K L F D S L M E V H K L Y A P D G M P V I F D L Q I E A E I L
F P N K D R M P R R L A E L A L H Y Q E A L D L D F I L K Y M P Y G M F S T I D W
L V D I C K T P E L C M Q V T K L P V D Q L G V D A A I L F S D I M I P V G A M
H K D L L N A A D F G A S H V I T K A F D E F A V D N V C A N A H I S F F L K Y M
F K E A R V M C Q Q I A W V D E D A R E R L G V D V I P V F G N D P S G P P A A
I S D K D Q M P R S L A E A M V E F N E T Y D Y D F I K M M P F G A Y T V S D W
F H E L M S R N P D L A S A T L M P V Y D L G V D A A I L F S D I L V I P V A L
V D Q A L R D N G E S A H A K I K A L K K F G G D V I I P G T D L F T P V E C V
M C R D P E V I A A E I T M L P L R R F S L D A A I L F S D I M T P L A D M
F P K A H F D A Q S M A D L A A S A I H V L G F D A T V M P Y F S V H L E A E V L
F L S L V E D S E A A A E A T L Q P I D R F H F D A A I L F S D I L V I P Y A L
M L I E S C Q R P D L V V I E T L Q P V R R Y G V D A A I F F S D I V L P L K A V
F E Q L L N D S D L A A E V T L Q P I R R R F P I D G A I L F S D I L V L L D A L
M L I E A C F D S E L V C E I T L Q P V R R R H K V D A A I L F S D I V V P L R A A
F R H R S E T P D I A F E L S M Q P Y R A F A T D A V I M F S D I L L T P L P A L
F L E L L A D P K D V A E C T M Q P I R R Y N L D A A I L F S D I L L V I A E A L
L P A G H S D A A L M A D L A Y A V H N L T G F E N F G L P F C M T V E A E V L

I L T V L E D P E L A A T I T S L L Q P V E R Y H V D A A I L Y S D I I M A P L A A A
F L S F C K N V E L A A V K I V S L L Q P V E R Y H V D A A I L Y S D I I L V P L E A P M
L Y D G K T Q A K L A A K L G I D G I W T P I N G F C G I E E T P H E P N E I Y
T Y E Y Y N N P E A A A E I E I A Q P E K K F G C D G A G V A V S I L R E V I A E A M
F F E C C R D P E I A A S T L T L Q P I V E R F A L D A A I L F S D I L V I P Q A M
F R E A I S T P D I A T E I T L Q P V W E R F A Q P D A V V M Y S D I L T V L E
F L D L C Y S P E L A C E V T L Q P I R R K Y A F D A S I L F A D I L L I P D A L
Y K E W A N D A Q L C A E A L L K A R E E F E L D C I L V T L I D L S V E C C D A W
F M G L A T N T D Y A T E V T L Q P L E R Y P L D A A I L F S D I L T V P D A M
F L S F C L N P E K A A E A T L Q P V R R Y G M D G A I L F S D I L V I P M A L
F E E L C K V P D L A A E V A F G P V R D D F D T A I L F S D I L F L P L E A F
F D E I M H T P D L C A Q V T L M P V H T I G V D A A I L F S D I L V V P T A M
V Y Q A V S D G R V H F E A I K A L N D K Y P S A A C S V I M D I T V E A E A F
F I A F C L N P E M A A E A T L Q P M R R F G F D A A I V F A D I L L I P Q A L
F R E L M L N P E L T A E V T L L Q P V N D L G V D A A I L F S D I L V I P E A L
M L D S C L R P D L A S E I T L Q P V R R H G V D G A V F F S D I V V P L K L I
A R E V L T D E N K L F E S L T L K E V N K I Y R P D G Q P V T F D L Q I E A E I L
L G D F Y A D G D K C F E A Q F A S M R L H G Y E Q T P M Y G Y A S L G A L E F
S R E Y W H D A A K M V I E A E L A F T R L G H D E L S L G P N T C G L E S L
D M E D V D K L S D I V Q Y A K Y D N Y K I V G L T E E L S L R S M G H A V
F K N E L E N I G K N I E L K Y Q G I T E L D I L F E H D M L L T Y Y V D E W
F L E M C K T P E L A A K I T L M P L K L G V D A L T I F S D I L I P L L S V
A R E V L E D E E K L F E S L L E V N K I Y Q P D G Q P I F D L Q V E A E A L
W P G D D Q A D S L A R V T L D F Q K R Y D L D F M K L P V S S V F C V E D Y
F P A A D R D P L Q L A Q A H V S F Q E K F D L D F I K L T P Y D S Y P V H D W
T R Q Y W R N E D N L V M G D V E A V N R F G L D G M G V G P N A Y G I A E A M
L G D F Y A D G D K C F D A Q F A S M R L H G Y E Q T P M Y G Y A S L G P W E F
M L I E A C V K P D L V A E I T A Q P V R R H T V D A G I F F S D I V V P A L L A
M L I A C T T P D L V A E I T L Q P V R R H D V D A A V F F S D I L V I P L Y L C
F K D A R T N A T L S A K L A L R F A K I T H S D F V K P A L D T N G Q L I D I

UniRef90_C7DH18
UniRef90_C0QHC8
UniRef90_U2XIO3
UniRef90_Q8TI4
UniRef90_M4S176
UniRef90_T3DD10
UniRef90_B8ZX2
UniRef90_E5XSM4
UniRef90_I4CEN3
UniRef90_N9WFC5
UniRef90_E9RVY8
UniRef90_UPI00035D3B5F
UniRef90_F6FA3
UniRef90_W3Y3I6
UniRef90_A0A059FM56
UniRef90_UPI0002D72963
UniRef90_I0Z9U4
UniRef90_E3H4V4
UniRef90_UPI0001DD087E
UniRef90_C6KSS1
UniRef90_D3MUN2
UniRef90_E7AB94
UniRef90_UPI0003AE752E
UniRef90_UPI0003B31B2A
UniRef90_D3RNT3
UniRef90_F9UCP3
UniRef90_U6B6Z3
UniRef90_J6F7A7
UniRef90_E7FYN9
UniRef90_K1M0E5
UniRef90_UPI00046D5DE8
UniRef90_UPI00046EC1AA
UniRef90_UPI0003754A3A
UniRef90_M9WXA5
UniRef90_UPI000381E591
UniRef90_R7CM09
UniRef90_Q5GTT1
UniRef90_W7YJP9
UniRef90_A6P2Q0
UniRef90_F5YBE4
UniRef90_UPI00047C771A
UniRef90_R7QF40
UniRef90_UPI0003B35E3D
UniRef90_UPI00040D31D3
UniRef90_UPI00046372BB
UniRef90_UPI00047C1686
UniRef90_UPI00021A6B7D
UniRef90_UPI00016C0B2A
UniRef90_UPI000360D9F1
UniRef90_G5HNR2
UniRef90_UPI000237D1D5
UniRef90_F8J7J8
UniRef90_M2ZYY2
UniRef90_B8FRW8
UniRef90_C8WDD6
UniRef90_UPI00037C711F
UniRef90_UPI00047AF801
UniRef90_V5XBA7
UniRef90_R7Q901
UniRef90_Q019R2
UniRef90_T0IRL6
UniRef90_UPI000472B4B5
UniRef90_C7M196
UniRef90_W0D114
UniRef90_K5YN28
UniRef90_UPI0002D47BDB
UniRef90_E9ELQ9
UniRef90_U1NYH8
UniRef90_U2WST9
UniRef90_F0Z1S4
UniRef90_J2LDV8
UniRef90_E8RNT4
UniRef90_I0XQJ0
UniRef90_D8DTU7
UniRef90_R7DLC4
UniRef90_D9QJS5
UniRef90_E4T7L8
UniRef90_UPI000364CAF5
UniRef90_B8CYB3
UniRef90_L0L2E6
UniRef90_UPI000464DD85
UniRef90_C7HV47
UniRef90_UPI0003B75C27
UniRef90_UPI0003B5FF2F
UniRef90_E4RMD4
UniRef90_D8K0M4
UniRef90_UPI00036446E5
UniRef90_H1LW15
UniRef90_D5EA11
UniRef90_Z9JN6
UniRef90_C2KTD3
UniRef90_UPI0003762783

90 100 110 120
G L G V R T E E N I G P V M D F A V G E P D D L A P L E R F S C D R D A
G C E L L W A K D S P P T V I T H P L A D T K E I P T K I P S P A E G R L P
G T E V K L A A G R G Q P V F A Q P L R T A A D T A R A V E L D P A L V R E R G E
G I E V E M G R I D I Q P S V Q R S F F N K P E E V K Y D N F L E D K Y V Q
G Q N L W F E A G E G P R L S A P R L V D H A L G G L A A V P E R L D
G S K L K Y P K D S V S F L V E P L L K D Y S M L D S L D I D P Y K D G R M P
G I D L D I V P D V G P V I G D P V R T A T D I H A M K P L E P Q A I Q
G V G V T I K P G V G P V L D A P V R A R A D V D A L P P S P E G L E P V A S
G A V L E Y L P Y A Q P S L V Q H P A P T K E D E A Y F S K G F N P E K G R M R
G Q R L W F E T G E G P R L A P P L V D S A L A S L E A A P E R L D
G A S M K Y P K N N M Y L I E E P L V I S D Y K M L E N M Q V I N P Y T D G K M P
G Q K V W F V K G E G P K L E A V D P T R K L S P R L V D H N H L S T T G A M D H L A S
G Q N L E F L A G E G P K L S P R L V D H N H L S T T G A M D H L A S
N T H V D I K P G V G P V F S T P I Q S M A D V E R L A P F D P A K V D
G L K V E F Q K G V G P L V Q Q I S S A A D L G K V P A R L A A D R L E
G Q G L T F A A G E G P H L A P T L L E V E L D S F T P A F E R F E
G V P F E I D D H K G P I I E N P I S T I E Q V N Q L H D L D L E R L H
G V N V D L V P G R G P V L E H P V R T L D E V R A L P E L T D A A L D
G Q T L E F L A G E G P K L S P L V E S E L A G L S A D P S R Y D
G T D L K F V E N L G P V F N L I E I Y N M N D F N K L N L N M K E I I D N L Y
G I E A N Y P E N G L I T V K K L A I D N L D D V N N M D I T K L S S G N L M
G L P L E F L P G V G P K F T R T I T N L E D I H A L H T G A H Q N L N
G M E V T M V P G K G P S F P E P L R E E R D L E R L R D P A A V A S E L G
G Q D L R F V A G E G P R L T P I L A D H A L D A L T P D F S R F E
G G S T L F R A D G P N A G A P I V R D P E D I R R L S V P R I E D S P S L Q
G G D V F Y T D D G P N A G P P I R T P E R I R T L E P P R V A D C P C L L
G R N V R F I D E S K G P R M D P I K S E K I F S L K P N I D S I T S H F S
G M E V I M E P S K G P V L P A P L R S P A D T A K N P A N Q V D V Q K E L G
G L P L E F V P G F G P K F L R G I E S L E D I Q V L H T A Y Q K E L E
G G N F I F P E N K S A Y C G D P L L K D Y S Y L E M L E P K E V S Q N D D R L K
G S E V E F P E N G Q M C Q I R R Y A L A D E P E R L A R L S P P D D G R F P
G T E F D I V E S H G P L I H D P I R S Q A Q I D A L R P L I E P A A S M G F V G
G I D L N D I K P G V G P V V I E K P I R T R A D L A R L R D L T P E D V S
G C N V N F I R G V G P I I R P I E S A K D L K S L O G I E S N T L P
G V D L D I V P G V G P V V A Q P F A D W A D L D R L P V L D P A Q V S
N Q L T I Y C D P Y E P I V K R F A I Q S P A D Y D A L R A L P A I Q G T Y G
G C D V D F I R G V G P T I K P V K N F K E L R N P Q K I E T K T L P
G C K L A W A D D N P A V I S H P L M E G T K L E D M K V P C A C K G R I P
G C E L T W K E G T L P S V S S H P L A D T M T V P C R C K L P R P D S Q G R L P
G T V V E Y P E D N N P Y A K V P L V T D D M D L S V L K L P D P A D S P R T L
G L D I E I V P G T G P V V A E P F R T E A D V D R L R N L D P C D V G
G V P F D L P D R G P V I D P P L R T K E Q I D A V H E L D C E K T A P
U N I R E F 9 0 U P I 0 0 0 3 B 3 5 E 3 D G E M V Y P I E D T A H P N Y D N H F I N S P D D Y S K V E R I D K A P R M Q
G C E L L W A E D N P S V M T H P Y A G E L T V P C K C K I P K V I T D G R I P
G T D L K V I E G F G E P P V A A N F I A T P E D W D K I T P R C G T S G E Y A
G V I E F D I Q E H V G P V I A S P I R T E A D V A R L H T F V P E E S L P
G L T V E M V P G T G P I L P K P L K D P T D L V R L H P N V E K D L K
G G E L Q Y D K V G E A F E I S K P P L K T L D E L D E L I N Q A L A D D E F V
I Q G G T F F Y D D F G A K L V K P R N S Y Y D W R E F P L T E A S L E D L E
G A K L D Y C D K Y K E V E L A A P G I E C R E D Y K R I Q P L P A V Y G T W G
G M Q M S F T G N G P V F K K P L A E T E K P S Q E L K P D A S R L E
E G C E L D Y L P Y A Q P S L V K H P T P T K E A F Y R Y K E K Y L R E G F L Q
G V I E I E F A P G P V V T R P V R T L A D V R R L R V P G P E G T A P
G C T I S W G D G T V M P V I T K R P F D R V I E Q F E P P A N F L N R P L C K
G Q D L T F V K G E G P K L T P A L V N H R L D L L T K L P D R L T
G V D L E I Q P G I G P V V A S P V R S F D D L E S V R P V T P A D V S
G C E V T I P E G G P R I G K T L D Q I D L D R P L D E K A V F E
G V A L D I V P D V G P V I E H P I R T A D V A A L L D R P L E R A Q V A
G I D F D L V S G K G P R I P D P I R T I D Q A R R F A S A S F D P A S S L P
N V I E I E M P G G K G L L V P N P L K G P E D M G R V P K S I D V N S D K L S
G S E I D L G T L E C E P K L S R E V F A S A A R V Y K D I P T M L N S G R I P
P E E D V P
G I G V R D L V P E G L G P T F D P P I R A R S D L A R L D R F H R P E A L E
G L N V R F E E G E G P H L E W D G N V K A L R K I T S K D T E
K D E W G V I T Y Q K N G W P I I A Q I D T P V K C R E D W E A Y T L P V D T P
G S K L I Y P E N D I S Y L D K P A I D S I N D V D K L L P A D P Y K D G K L
G M E V E M V D K K G P H F P N P L K T P K D G Q V D Q V L N R D V Q A K E L D
P L G F E Y H V I E S G V I G P V I E N P V I E S P A D T D R E R G D V R D Q L W
G Q K V W F V E G E G P R L E P V I S S P D T L S L D N L S H Q M Q
G Q E L I Y P E N E A A H P N Y D D C V I K D I E D Y A K I K K V D S S K R M M
G L G L S F A L G E G P R F A T P V R D E A A V A K L Q V P D L A K L R
G Q D V R F E A G E G P V L G E L P L V A Q M A D L A G S A G E A L K
G M G L F R F A G E G P K L G W H L S T V E D L N K F Y P L G Q A V F M G
G A N I S W T D K G P V F S T P L C Q Y S D A S K Q L K P D A S K L D
G A K I D F P K D E L P N V I G R L L A D Y D A V E R L E I P D M T K G R L Q
G Q D V W F E T G E G P R L G L M P S V G R M Q E L A E G A G Q Y L H
G M D L K F T E K G P I F D S P L Q D A V N Q Y S S L Q P D V I T K L E
G T D V D L V P G R G P V F A E P V R D A A V A D F A V R D A L A D D D A R A
G C E L K W S E D S P T V I S H P L V S G S E E V P D R I P A R D E G R I P
G G E I E Y P Y G K G Q P F V K K H P V K N I E D I E K L E V P D F K R E L P G
G S T V I Y P E E G M P Y F N G A Y L K E Y R M L D E M E P A S A A N A E R L L
G S K L I F P E D D I D Y I E E F V M E K D Y L D M D L I D L P D P Y T N E V L A
G I K W K I P Y G Y T E I V I E F P L A D D S N I D S Y I P P N P D D E N M G
G A E I E Y T E G V I Q P K L D L Q R N F E Y K G L D N I E F L K D A I K
G C E L M W E E D S P T V K N H P L K D T D E I P T K I P Q K D E A R I P
G L S H A Y R D H I N G D R F I S R I I Q K P G D W S G I G A L N V I T R G T Y G
G C E L R F F D T P T E V A V L R R P I T Q S S D V N K I K A V D A T Q G A W G
G I V P H Y P E Q G L I Y V E K H P I D S I N E V N K I K A D I T D S G S L R
G G K I G F P Y G K G Q P Y V I E H P V N T I D D I E N I K V P D F K E E L P G
G V G V E I M P R G V G P V E E H P V R S A A D V D A L P P V I G D A Y E A A L
G V G I D M V D G I G P V L D S P V R S V A D V E R L V G L E Y S D W S
G L N I K Q P D D N Y G R A V S S L I N E P E D V D R L E L Y D P F N P K E C P

UniRef90_C7DH18 Y V L E N I V R T K E K L A G R V P L I G F A A G P F T L L S Y L L E G R P S R
UniRef90_C0QHC8 M E L D V M R R M K A E F G E T T A L Y G L I T G P F T L A L H L L R G T N I F
UniRef90_U2XIO3 A T L A R A V I E L T T K G M L A P E E D A A V L T G F A G A P F T L A A Y L L V E G G N P S K
UniRef90_Q8TII4 T T L D A I K L T A K E K Y A P A E D A A V T A F L V A P I T T L A G D L L V G A E N P S K
UniRef90_M4S176 P V Y E T V R L V R A Q L P A A E T T F L G S F A G S P W T V A T Y M V J A G Q N G S R
UniRef90_T3DD10 A I I E A I K V L T D E F S N E R V F L I G S S L A G A P I T S N V V A I R G A E G N I L
UniRef90_B8ZQX2 P I F Q A I S L L V J A A L G D T P L I I G F A G A P F T L A S Y L V E G G P S K
UniRef90_E5XSM4 A V G S L I A E L G Q T P L I I G F A G A P F T L A S Y L V E G G P S K
UniRef90_I4CEN3 A I Q Q E I R T Y V K A G L K D T H V L L A T P V C P I T T A Q M V T G T D Q E F S
UniRef90_N9WFC5 A V Y A T V A R V A A A L P P Q T T F L L G T F A G S P W T V A T Y M V J A G Q N G S R
UniRef90_E9RVY8 I M L K M M E Q L K Q K Q F G D Y D L K S G V C G P M T V A L S L R E A G G M F L
UniRef90_UPI00035D3B5F P V G E T V L S L R R E L P S D K T L I G F A G S P W T V A T Y M V J A G Q N G S R
UniRef90_F6IFA3 P I Y D T V A K V R A S L D S D K T M L I G F A G S P W T V A T Y M V J A G Q N G S R
UniRef90_W3Y3I6 Y I A K T I R L L T T G M L D V P L I I G F A G S P F T I A S Y L I E G G P T K
UniRef90_A0A059FM56 P V Y E T V R S R V R E A L A P D K A L I G F A G S P W T V A T Y M V J A G Q N G S R
UniRef90_UPI0002D72963 P V Y E T V R L T R S M L G R E V T M L I G F A G S P W T V A T Y M V J A G Q N G S R
UniRef90_I0Z9U4 F V G E S L T L L R Q E T Q G S Q A A V L I G F A G S P W T V A T Y M V J A G Q N G S R
UniRef90_E3H4V4 P I R Y E S V A A T V E M L G S T P L I I G F A G A P F T V A A Y M V J A G Q N G S R
UniRef90_UPI0001DD087E P I Y Q T V R L C R K Q L A P D V T M L I G F A G S P W T V A T Y M V J A G Q N G S R
UniRef90_C6KSS1 Y V Y D S L N L T K K K I A N N D V P I L I G F C G S P F T L F M Y L K T Y E D S F
UniRef90_D3MUN2 T Y Y N A T S R L R E L G D G L C P V G A S L S G P L T L A G F C Y G T D R G L L
UniRef90_E7AB94 Y V Y E L I S V R A Q L D K S C A L I I G F S G A P W T L A T Y M I E G G S S K
UniRef90_UPI0003AE752E Y V F Q A I T L T R Q R L A G R V P L I I G F A G A P W T L M T Y M I E G G S S K
UniRef90_UPI0003B31B2A P I Y E T V R Q V R A A L P P Q T T M L I G F A G S P W T V S T Y M V J A G Q N G S R
UniRef90_D3RNT3 R V L T A T R L M A E Q A R G E V T P I I G V V M S P F S L P V M Q M G F F E A Y L
UniRef90_F9UCP3 K V L E T I S G L K A A V G D E A P I I G V V M S P F S L P V M Q M G F F E A Y L
UniRef90_U6B6Z3 P I L K S I S L R K K L D S H I T L I G F C G A P W T V A S Y M I T G S G S E T R
UniRef90_J6F7Q7 Y V F D A V T M T R K G L A G R V P L I I G F C G A P W T L M A Y M C E G G S K
UniRef90_E7FYN9 F V Y D T L S S V R A K L E P S K A L I I G F S G A P W T L A T Y M I E S Q G S K
UniRef90_K1M0E5 L Y Y E V A E D V A S L I Y N E V N M H I Y I G G P L T I A S Y L R G A V E N L M
UniRef90_UPI00046D5DE8 S Y W E A C Q T V A S Q V R D V P V M G S L L V G P W T I A A N L R G A E N L I
UniRef90_UPI00046EC1AA S V L T R L R E A V I G T A A A V L G F V I G A P W T L A A Y A V E G K S S K T Y K
UniRef90_UPI0003754A3A Y V T E A Y G L L T R E L G A T P S L I I G F A G A P F T L A S Y L V E G G S S R
UniRef90_M9WXA5 L N A I K E V R S Q L P E E K S L I I G F A G G P W T V G S Y I I E G G S S K
UniRef90_UPI000381E591 Y V D E A V R L L V A E L G A T P L I I G F A G A P F T L A S Y L V E G G P S K
UniRef90_R7CM09 K Q I E F A R E L J R R R T P G T P C I Q T I F S P F S T L K K M A G D R S L L
UniRef90_Q5GTT1 I L N A I R K K V R K L P E E K S L I I G F A G G P W T V A S Y I I E G R S S K
UniRef90_W7YJP9 M V M E A T R K L R E Q H A D V A L Y G L I T G P F T L A L H L L R G T D I F
UniRef90_A6P2Q0 I V L N A M R M K R E V G N D T T A L Y G L I C G P F T L A F A D L L R G N D N L L
UniRef90_F5YBE4 D R I K G C E L L R Q K V G N E Y P L I I G W I E G C I E A E A D L L R G D N L L
UniRef90_UPI00047C771A Y I T E A V G L L T A E L G P T P L I I G F A G A P F T L A S Y L I E G G S S K
UniRef90_R7QF40 F V R E T L Q A L K K E V A G D Q A A V I G F V G A P Y T L A T Y C I I E G S S K
UniRef90_UPI0003B35E3D H A L K Y M D I V C N E K A D K D A A V I M G F I Y G P L G I L N M R G A E N L F
UniRef90_UPI00040D31D3 M V V D V M K R V K A A V G D D T A L Y G L I C G P V T L A S H I I R G S E F F
UniRef90_UPI00046372BB I V L E S Q R I A L K E L H C Q V I V Q T V F S P L A T A L K M A G R G E E T L K
UniRef90_UPI00047C1686 Y V L E T I R L K A K E L S V P L I I G F A G A P F T L A S Y L V E G G P S K
UniRef90_UPI00021A6B7D Y V G D A I T L T R H K L E G K V P L I I G F T G A P W T L M S Y M I Q G G S R
UniRef90_UPI00016C0B2A A G L K L P L R L K K H Y G D E R V I V G V S W G P F T V A G M M V G V Q N F L
UniRef90_UPI000360D9F1 K I S W P R V K R L R E E T D Y A L F G M A P S H D L F N Q M L R G M E N G L
UniRef90_G5HNR2 K V L Q L S Q W L E R L V K P G T P Y I Q T I F S P A T T L K K L A G N R M L
UniRef90_UPI000237D1D5 Y I Y R N L D R I I Y Q K P Q N I P L I I G F C G A P L T T A L C Y M L G G T S E F V
UniRef90_F8J7J8 I Q K E A R T M I A Q G V K D T H A M P T P V G G P I T T A Q L M T G S E F L
UniRef90_M2ZYY2 F V A D A V R A V R E R C H D V P L I I G F A G A P L T L A T Y L D G H A G F R
UniRef90_B8FRW8 Q L L K A I R L L K K Q S G E V G L I I G K V V G P W S L A Y N L Y G A E N L L
UniRef90_C8WDD6 P I Y E T V R R V A H R L S P P E T T F L I G F A G S P W T V A T Y M V J A G Q N G S R
UniRef90_UPI00037C711F Y V T E S V Q E L T S Q Q L G A I P L I I G F A G A P F T V A S Y L E G G A K T K
UniRef90_UPI00047AF801 P V C E A I R K V K R E L P A K V T M L I G F A G A P W T L A Y G I E G K G S K
UniRef90_V5XA7 P V S N A I S L V J A A L G D V P L I I G F A G A P F T L A S Y L V E G G K T K
UniRef90_R7Q901 F V A E L L K R L R D E L A S E A A L V I G F V G A P F T A A K N I V A T K R L M
UniRef90_Q019R2 H V L A S V S R E I N A Q I E K E G L G V P L I I G F S A A P W T S R K N T D S G M
UniRef90_T0IRL6 V V C Q A V S L L J A A K Y P G I P V I I G S L T G P V S T A A S I L V D P I Q F L
UniRef90_UPI000472B4B5 Y V L D T I K L L T T E Q L N V P L I I G F A G A P F T V A S Y M I E G G P S K
UniRef90_C7M196 A M A S T V R L V T A A S P V P L I I G F A G G P F T V A S Y L I E G R P S R
UniRef90_W0D114 F I N E I R R E V K R T Q D R V P V I I G F C G A P W T L F A Y A V E G K G A K
UniRef90_K5YN28 Y R L K I F K D V K A A N T E D L A V V L G T L I G P F T M L W Y I M D F E T L A
UniRef90_UPI0002D47BDB L R L K S L E I T V N N A L S R E V N I S I G I P T P F T T A S G I L G T D K F L
UniRef90_E9ELQ9 Y V Y K A I E T L T R K K I A G R V N I I G F C G A P W T L F C Y M V E G G S K
UniRef90_U1NYH8 Y V G E L I E R L S A T L G D E A A V L I G F A G G P F T L A A Y A C E G S T S R
UniRef90_U2WST9 P V Y E T V S L L K Q R L P E E T T L I I G F A G S P W T V A T Y M I J A G R G E M P
UniRef90_F0Z1S4 M H I D T C R K L V E A S N G E F P V V A F V F G P L G T L S M L R S Q Q E M Y
UniRef90_J2LDV8 Y V F D A V T S I R K A L N G R V P L I I G F S G S P W T L A C Y M V E G A G S K
UniRef90_E8RNT4 A V G E T L K L R S E L P R E V T L L G F C G G P W T V M T Y M L N G R K A H
UniRef90_I0XQJ0 F Q K D A V I K T R K R I A K D V S L I G F I G G P W T L F C Y A T Q G K N L
UniRef90_D8DTU7 Y I Y R N I D E I K S R I S D G T P L I I G F C G G P L T T L C Y M L Q G R S T D
UniRef90_R7DLC4 E Y L K A N R L T A E A I R D K P V F G G M L I G P F S L A G R L Y D M S E F M
UniRef90_D9QJS5 Q V G Q T L S L V R S E L P E R A L I I G F A G A P W T V A T Y M L D G H H A R
UniRef90_E4T7L8 H I Y K A L D V I R E R K P A D V G L I I G F C G A P F T T F C Y M V E G S K A I
UniRef90_UPI000364CAF5 E V E A P L R E A V E R T V A E T P L I I G F A G A P F T L A A Y L V E G A P S K
UniRef90_B8CYB3 L V L N V M K K M K E E V G E K T A L Y G L L C G P F T L A S H L R G T N L F
UniRef90_L0L2E6 A Y K E A D K L A A R C H A M G M P I S V Q T G S T F T A A S V V A D T S E F L
UniRef90_UPI000464DD85 F R E A M E R M K E A A D G I V D V A P S I I G G P F T L A A A I R G V I E Q F L
UniRef90_C7HV47 P K L E R A R Q K E R F P N M A I E T E I P G P I T T A A A I R P I E K L L
UniRef90_UPI0003B75C27 Y A D E I I K R Y G N E K Y I C G I I D C S I F E A Q K Y L R G I T Q S L
UniRef90_UPI0003B5FF2F I V K D E Q S D I P L L G F A A S P F T L L C Y L F F G G A E F R
UniRef90_E4RMD4 M A M E V T R K M K E A V G D H T A L Y G L I C G P F T L A S H L R G T N L F
UniRef90_D8K0M4 W H L R A V I E Q V I A D K D K D T P F V I T I F N P L A M A S Y L A G D E L L L
UniRef90_UPI00036446E5 R Q V L T T R C A V S L A Q K D V P V V P T V S P L T V A R K L A G E R V A
UniRef90_H1LW15 M Y Y N A T A R L R E I J A D G F G V V S S G P I T L A G F V L G T D K L L
UniRef90_D5EA11 G Y K Q A D I V A S R C A E H G M P I T V Q I G S T F T A A S V V A E T S E F F
UniRef90_Z9JN6 D P I R E A V A L S V R E L G T T P L I I G F A G A P F T V A S Y M V I E G G P S R
UniRef90_C2KTD3 V I E D A A L G R R E L A F E K V L L G F A G A P F T L A S Y L I E S G Q T R
UniRef90_UPI0003762783 Y F T E N I R M V S D T M D E D F H V L G M S W G P F T T A A Y I R G A E N I M

UniRef90_C7DH18
UniRef90_C0QHC8
UniRef90_U2XIO3
UniRef90_Q8TII4
UniRef90_M4S176
UniRef90_T3DD10
UniRef90_B8ZQX2
UniRef90_E5XSM4
UniRef90_I4CEN3
UniRef90_N9WFC5
UniRef90_E9RVY8
UniRef90_UPI00035D3B5F
UniRef90_F6IFA3
UniRef90_W3Y3I6
UniRef90_A0A059FM56
UniRef90_UPI0002D72963
UniRef90_I0Z9U4
UniRef90_E3H4V4
UniRef90_UPI0001DD087E
UniRef90_C6KSS1
UniRef90_D3MUN2
UniRef90_E7AB94
UniRef90_UPI0003AE752E
UniRef90_UPI0003B31B2A
UniRef90_D3RNT3
UniRef90_F9UCP3
UniRef90_U6B6Z3
UniRef90_J6F7Q7
UniRef90_E7FYN9
UniRef90_K1M0E5
UniRef90_UPI00046D5DE8
UniRef90_UPI00046EC1AA
UniRef90_UPI0003754A3A
UniRef90_M9WXA5
UniRef90_UPI000381E591
UniRef90_R7CM09
UniRef90_Q5GTT1
UniRef90_W7YJP9
UniRef90_A6P2Q0
UniRef90_F5YBE4
UniRef90_UPI00047C771A
UniRef90_R7QF40
UniRef90_UPI0003B35E3D
UniRef90_UPI00040D31D3
UniRef90_UPI00046372BB
UniRef90_UPI00047C1686
UniRef90_UPI00021A6B7D
UniRef90_UPI00016C0B2A
UniRef90_UPI000360D9F1
UniRef90_G5HNR2
UniRef90_UPI000237D1D5
UniRef90_F8J7J8
UniRef90_M2ZYY2
UniRef90_B8FRW8
UniRef90_C8WDD6
UniRef90_UPI00037C711F
UniRef90_UPI00047AF801
UniRef90_V5XA7
UniRef90_R7Q901
UniRef90_Q019R2
UniRef90_T01RL6
UniRef90_UPI000472B4B5
UniRef90_C7M196
UniRef90_W0D114
UniRef90_K5YN28
UniRef90_UPI0002D47BDB
UniRef90_E9ELQ9
UniRef90_U1NYH8
UniRef90_U2WST9
UniRef90_F0Z1S4
UniRef90_J2LDV8
UniRef90_E8RNT4
UniRef90_I0XQJ0
UniRef90_D8DTU7
UniRef90_R7DLC4
UniRef90_D9QJS5
UniRef90_E4T7L8
UniRef90_UPI000364CAF5
UniRef90_B8CYB3
UniRef90_L0L2E6
UniRef90_UPI000464DD85
UniRef90_C7HV47
UniRef90_UPI0003B75C27
UniRef90_UPI0003B5FF2F
UniRef90_E4RMD4
UniRef90_D8K0M4
UniRef90_UPI00036446E5
UniRef90_H1LW15
UniRef90_D5EA11
UniRef90_Z9JN6
UniRef90_C2KTD3
UniRef90_UPI0003762783

170 180 190 200
T F D R C R P D L W S R F M D M A A S M T I R Y L R S Q V R T G V D A V Q I F D
M D M M T D A G Y M H R L L N Y C A E V A V T I A G Y T L D T G M D V V A L V D
D H L H E D P A A W R A L T S W L A R V T G E F L A L Q V E A G A S A A Q Y F D
M L S I K C M Q K M K D W I T S I A L E I N K I Y A E A C V E A G A D L L Y Y S F D
E Q A Y R D P A A F Q A I I D A I V A A T V D Y L S G Q I A A G V D A V Q L F D
K D T V K N K E N L H K L L K Y T V K C M L R Y T E V T Y K E C G S S A V I Q L F D
A M M L A E P A S W H T L M D K L T D L T L G F L L G Q I D A G V D A V S Q V F D
H H M T G A P D V F A A L L L D K L A D H T I S F L T A Q L I A A G A D A V Q V F D
T F L A E D P E F A K E I I E L C L D N A K S T L A A M M V E A G V D V V Q L F D
D M A L S D P A A F G A I I D A I V D L S V T Y L S G Q I E A G V E A V Q L F D
R D L K K Q P E E M H H L L Q F S L E C I K A W M K V V Y D E F G C V C S L A D
D K W A V R Q A A W K D L I E V T A D Y L T M Q A N A G A E V L K L F D S W A E D
D M A Y R D P A A F Q A I I E G I V D V T V E Y L S G Q A D A G A E A L Q L F D
N M L I G A P Q V W D A L M T K L A D M S I A Y L S M Q A D A G A E A L Q L F D
R W A H G R P E E L Q A S V I M D H V I E A T A H Y L A R G Q I V E A G A D V L Q L F D
D H A Y R D P A R M Q A I I D A I V I E V S V T Y L R G Q I D A G A E A V Q L F D
T M L Y K A P E V L D A L L S H L A D Q I A T Y I G F Q I S S G A H A V Q L F D
D H M H A D P V A W R E I A Q W A A R T A G Q Y L R A Q I E A G A S A V Q L F D
D M A Y A D P P G K V E A I I G A I V D Q T V G Y L R G Q I D A G A E A V Q L F D
K F L Y E K P N D A H Q I I N K L S D I C L N H L I N Q I D S G A N I I Q L F D
K A M L K Y P D K V D R L L E Y I V J E C V K L V I D E F S K G I G L S F S M A D
T Y L Y S Q P E L L H A L L E K L S S E L I A Y L S A Q V E A G A D A L M I F D
R W L Y Q K P Q A S H Q L L R L T A L V P Y L V G Q V A A G A Q A L Q L F D
D M A Y A E P A R F Q A L L D R L T E V T A D Y L S G Q I A A G A E A V Q L F D
I L M H E R P D L F E R L M Q L N E R F C V D W A N A Q V E A G A N A I C Y F D
N L M F E Q P D L F E H L M R L N E A F C I E W A N A Q L A A G A T A I C Y F D
F F A Y Q N P E A F S W L H D K I S D I S A E Y L T S Q I K A G A D V I Q V F D
T W L Y K W P E A K A L L L D K I A D V C A D L V G Q V L A G A S M L Q V F D
T Y L Y T D P K L L H T L L D M L S T E I I G Y L S M Q I K A G A D A I M L F D
K D M R K H P E N L H K L L K I V T E S M K K V I N A F S E I D G I V F A L A D
F D A M K R P E Y V R D L L E L T T Q V A V D A A V A Q E A G V G V S Y S E
A M A F R E P A L L H Q L L L A H L A D G I A A Y V R Y Q I D S G A Q V V Q I F D
N H M Y G D P Q L W A D R L A D T A A F L K V Q I E A G A S A V Q L F D
K V L N F C P L A L E I I K K I A T E A T I I Y L I K Q L I E F A G A D V I Q L F D
N H M L G R A D L W A A L L D R L A D T T S V F L R V Q A G A G A S A L Q L F D
K D M L E Y P E A S V H A L A I T A T T L D F V S Y N I I D A G V D G F F F A T
K V L N L H P S S L E Q I I E Q L T E V T I S Y L V K Q I E F A G A D V I Q L F D
M Q M M D P E A T H Q L M R F A T D V A K M M A G N Y I E A G A D V I A I V D
M D M Y D D E D Y V S E L D L G Y C M E C G K R M I D Y Y V D A G M D V L A V V D
M D L A A E E A Y L D E F F D V C M F E Q Q K K F A K A Q I D A G A D F I G L
D H M R S R P D L W H A I A A K L A A T C G E F L R V Q V E A G A S A V Q L F D
K M A F T E P Q L L H T A L L T K F A D N I A A Y C I F Q I D A G A Q V I Q M F D
K D C Y K H P E A V I A A E E I T E V L V D Y L K A Y A K T G A V H A I V L D T
M D I V M Y P E Y V K E L V G F C V I E V C N A M S S Y Y I D A G M D V I A L V D
K H L V E C P E K V H K G L E V I T E T T K E F A L J A A V E N G A A G V F F A T
Q W L W S R P D L W F Q L M D K L A D S T I P Y L R A Q V A A G A A L Q I F D
Q W L Y K Y S E D S H K L L Q L I T N V I I D Y L V M Q V K A G A Q L L Q V F E D
T Q A Y D D E D S A V A I I E F S T Q L I A R F A Q L L V E Y G A D V I M V G D
M D L L N R E F E A E A F L D R Y M K T L M R F Q E L F L D I I H F T A D D L
Q D M L E C P E L V H G A L L A A I T E T T I N F V K A N I E A G V S G F F F A K
K Y L Y T N K R D A R K E L E A I A E M S A H Y A Q K Q I H Q G A V D V F C Q L F D
S Y I S D D P D Y A K E V T E L A L D I V K N V C R M M F E A G I D V F C N I L D
V W L H A Q P E A A R L L L D R L A D V T I D Y L R T Q I A A G V Q A V Q L F D
L D T L R D P K R T F N F I N E L S S I P I E F A K A Q F E A G A D M I T W A D
D M A Y R D P Q A F S E I I E A I I D L T V L Y L D G Q I E A G V D A V Q L F D
A L M H G D P K L W H A L A D R L A D V A I A Y L S V Q I E A G A S A I Q L F D
S W L H Q E P V L A R K W M D K L A D A A A R L L N L H I E A G A Q V V Q L F D
A M M L G E P Q T W H A L M A S L T D L T I E F L E A Q L D A G V D A I Q L F D
Y S S T E E Q V L S T V L D K L G S V V A D Y A V F Q V R Q G A Q V I Q F F D
R W L K E H P K E A Q E L L D V I V I E A T I D Y L A S Q V E H G A E V L Q L F D
K D L R K D P K A N A H R V F D Y V T K L L I G F A A K L I E N G A V I E I G D
N Y M Y T E P K A W F A L M D K L A D M T I T Y V K A Q I D A G A K A I Q I F D
D Y M L A D A G E L F A A L I E R L T E D L A A A S I A V Q V E A G A S A V Q I F D
L F M W E R R E E Y L E F L G L L S S E N L V E Y L K G Q V K A G A D L V Q V F D
I T M Y T D P E M V H E I N E A V L E W T G A I R L A V K D G G V D C V Q I S D
K S L L K Y P E K V H E L L D K I A T E S N F R L I D V I A D M F G M S D P I S S
T W L Y K Y P E E S K R L L S K I A D E I C V D H L A R Q V A E A G A Q M V M V F D
S F M A N D P E A F E Q L L D A L T E V L I E Y C Q Y Q E D A G A D A I Q L F D
D Q K Q N D I T A F Q G L D V I V I E A T I D Y L A S Q V E H G A E V L Q L F D
M D F Y D D P E A V H E A A G E I N E T L K D Y C R A L M D T G V N G I M F D T
T M L Y Q R P D L M H K M L J A V N A D A V A A Y L N A Q I E A G A Q A V M I F D
D F V Y E K P Q L V A Q V M D V V T E A S A Q Y M Q A D C G A G A E L K I F E S W
I L P K I S T K L R E G F E Y K I L A L L K E N I D L E G G A E I V M I F D
N Y I F S N P A E T D R L I E A L T E M T I E Y A R N Q V K H G V Q L F Q I F E
M A C Y C E P D T A N L L L K K C T D F L I N Y C L E L K K Q G V Q G V I A E
S Y A Y A E P E K T D E V L A V L V I E A T A R Y L K M Q A D A G A D A L K I F E
K L F Y N N P D I S A K I L E I T D L S I H Y A V I E Q T K H G I D V F Q L F E
D H M R G A P E L W R E L A G A I A D L S A A F L E T Q I L A G A S V I A V D
M D M V L N P D Y V K K L M A Y T T E V A R A I A S Y L I E A G M D V I A A V D
S W L I M E P K A A H S L L D K V C D M F I N A I D Y F A E A E N M L P F D G G
R D L R K E P E Q V Q R L R L V T D T M K N C V D M V A P F A D G I R L A D
R D L R K N P Q G V K E L L D F C F E A N M K W A K A K F E F P T S M V V D
I D L V A N K D L S H K I M D M S V I E Y H L Q L G Y R L I E R G V D M L W I A D
V F M F S N P E E F K T L M E K T T R L T I D Y L N F Y L N S G C D A V Q L F D
M D M I T N P G Y V K D L L G Y T N K I A K M A S Y I L N S G V D I V A A V D
A H L R E Y P D K V N A A L A A L T E T T E L F I S A C F D R G I D G V F F S T
R D L R E Y P R L V H Q A L E A I T E T T L A F V K E T L R A G A G L F F A T
K A M I K S P D K V H H L R Y I T E N V K Y V V D K F S A L D V I G F S M A D
S W I L T D P D K V H Q L L E K V S D M F I N A L D Y F A D K Y G P Q P F D G G
D H M R S Q P E V W R L A A W A E L S G R F L R A Q I L A G A S A V Q L F D
E F M R C Q P Q T W K L A A W C A R L S G E F L A A Q I R G A E A V Q L F D
M D I N L D P D L I K K L V A K T A E F C E R I Q M R C I D A G A T A L W M S D

UniRef90_C7DH18 S W A G F L E P E V Y R K H V L L E H T K R L V D E L K I V P L I H F S A R S 210 220 230 240
UniRef90_C0QHC8 P M I S Q L I S P A H E E Y M A L P F K R V F D Y I R E R G A K S S F F V C G N A
UniRef90_U2XIO3 S W A G S G L L P P E F D Y R V A A V P A S A A S F E A V R H I P L V H F G V G T
UniRef90_Q8TI04 A S A S P N L V M P E F Y Y Q V A A L V P A E K D F V H H L G C P W E L H F G G D T
UniRef90_M4S176 S W A G S L A P A Q F E R W V I A P T V A I V E R H P H T P L I G F P G A G
UniRef90_T3DD10 P V A S S N L I S L V Q F K E F V K P Y L E E F V L G V K E I P S L H L C G K T
UniRef90_B8ZQX2 S W A G T L S L S D Y R Q Y V L P H S A R I J F A T V A E H G V P M T H F G G A M
UniRef90_E5XSM4 S W V G A L T L A D Y E R H V L P H T R R V F A E T A Q F G V V H F G V N T
UniRef90_I4CEN3 P F C S C D I L P P D M F R E F G L P Y Q K D L E A Y I K E I G G F P F S H C C
UniRef90_N9WFC5 S W A G S L S P A E F E R W V I A P N A E I V R R L K A L H L I G F P G A G
UniRef90_E9RVY8 P A S S M N L I G K K H F E N F S K P Y L K E L V V W A K S Y M G I H I C G K S
UniRef90_UPI00035D3B5F G L P D P L F D R V T I G P T R A I T E K V R A A G I E A P L I G F P R G A G
UniRef90_F6IFA3 S W S G S L A P A Q F E K W V V A P N A S I V E R I P Q T P I I G F P G A G
UniRef90_W3Y3I6 S W V G A V N A E Q Y K Q G I Y P H V E R I I K T V K A K Y I A M N G V G T
UniRef90_A0A059FM56 S W A E G L P D N I F R E V I T A P T T R L V S L I R E M P L I I G F P R G A
UniRef90_UPI0002D72963 S W A G S L A P D Q F E K W V I A P N A A I T A K L K Q S H V I G F P G A G
UniRef90_I0Z9U4 S W G G Q L P P H L W D R W S R P Y I E R I V Q R V K A E H I T L Y A N G S
UniRef90_E3H4V4 S W A G S L G E A D Y R R Y V Q E H S A A A L G M V E E F G V P R I H F G T G T
UniRef90_UPI0001DD087E S W A G S L A P D E F E R W V I A P N A R I V A A I K D S H V I G F P G A G
UniRef90_C6KSS1 S N A E L V D K N I F N E F S I I Y L K K V I E I I K K Y I I L F I K N N
UniRef90_D3MUN2 P L A S T T M I S A K M Y K R F V Y G P T Q E L C N Y L N S K P S Y H V C G N T
UniRef90_E7AB94 S W A G A L E L E A Y L T F G W N Y I Q K I T R A L K A K Y P K I I G F P K G
UniRef90_UPI0003AE752E S H A G H L G P Q L F N K F A L P Y V R D V A K R V K P V P M I F A K D G
UniRef90_UPI0003B31B2A S W A G S L S P A Q F E R W V I A P N R A L V E R V R D R H I L G F P G A G
UniRef90_D3RNT3 P V S S T I T T R E F F L A T G R E I A R R T L A Q I K A P A A M H F A S G R
UniRef90_F9UCP3 P V S S S T I V I S P E H F R R T G L Q V A M R T L A G I K G P V A L H F A G R C
UniRef90_U6B6Z3 T H C L C E K E F E N Y S A K S V K G R I S S V R K K L P N A K F I S F A K G A
UniRef90_J6F7Q7 S W Q F E T F A L P P L V H I S R K V N Y V L T H L G H P T V P M I L F P R N V
UniRef90_E7FYN9 S W A N A L E C K A Y L E F G W S Y I Q K I T H T L K T M H K T I P I I V F
UniRef90_K1M0E5 P V S S C D I T S P K N F N E F S Y P Y C D Y A F E K T G E K P Y I H I C G K T
UniRef90_UPI00046D5DE8 A A A S C S L I S P K I Y R E F V K P V H R R L T E E L K K R K I L H I C G Y I
UniRef90_UPI00046EC1AA S W A G Q L S P Q D Y D V F A A P Y Q R L I R Q V K R T H L I L Y I S G S
UniRef90_UPI0003754A3A S W V G A L A P A D Y R R Y V Q P A S R K V F E A V A G Y G V P R I H F G V G T
UniRef90_M9WXA5 S N A G V L K G F E R Y I I K P T K E I V S A I K S R F P N F P I G F P R S A
UniRef90_UPI000381E591 S W A G A L A P A D Y V R S V M P A S T K V F D A V A D L G V P R L H F G V G T
UniRef90_R7CM09 Q N A V R T M M S P D Q F Q E F G A F Y D L Q V I K S Y K T W F N A V H I H G E
UniRef90_Q5GTT1 S N A G V L S G F E C V I K P T K K I V S A I K G K P D F P I G F P K S A
UniRef90_W7YJP9 P M T Q I D P A S F E T F V T P Y I T E I N D F I R D A D A L S S F F V C G N A
UniRef90_A6P2Q0 P V S Q I S S D H F T Q F L S T P T A L F D Y I R Y R G A F S S F F V C G N A
UniRef90_F5YBE4 G N A A A S L I G P E L Y G K Y G L S R D K A M V E Y I H S C G G L H I C G N I
UniRef90_UPI00047C771A S W A G A L S E A D Y R R F A L P H S T A A L M G V Q S V P R I H F G V G T
UniRef90_R7QF40 S W A G Q L S L D Y D V F A A P Y Q K R V V D K V K A V H F I M Y I S Q G
UniRef90_UPI0003B35E3D L F A S Q S I M S K K M W Q K M E I R A N D M M V M V H N C G N G I Y F D A Q I
UniRef90_UPI00040D31D3 P L I S Q I S P K S E A L F M E P F Q A A F D F I R S K G A L S S F F V C G D A
UniRef90_UPI00046372BB Q M A S R D R L N E T Q L N E F M K K Y D R V I L D A T K D T S W F N V L H I H
UniRef90_UPI00047C1686 S W V G S L A P E D F R T F V L P T M R R I F S A L A D L D V I Y F G K D T
UniRef90_UPI00021A6B7D S H S D F D E L F E K Y S F K Y L K E I S D K V R Q R L K E E N I P E V P M I A
UniRef90_UPI00016C0B2A P V S S G D M I S P G M F E E Y A L P S V T G M V N K L N V K Y L H L C G N T
UniRef90_UPI000360D9F1 A A Q T G P L I P P E V Y R E Y L I K P R W A R I A L I K S K L L Y H G C G A M
UniRef90_G5HNR2 Q C A S Y D F M G D A M F A E F C K P Y D I Q I I N A Y K D V T W F N V V H I H
UniRef90_UPI000237D1D5 T H A G L I P A D L Y M E L F L P A I Q T I S E A V R N T G T P F I F P K
UniRef90_F8J7J8 P F N S S D I L P P D T Y R E F G L P Y Q K R L F A Y I K E I G G I G F H T C
UniRef90_M2ZYY2 S W A G S H E P A V Y A E F G L P Y T R R V L A A L D D P A V V H F A V I G A
UniRef90_B8FRW8 H V T S D L I S A K L Y E E F V L P H K I A A A K L R G P I L H L C G N V
UniRef90_C8WDD6 S W A G T L S P Q Q F E R W V I D P T A R L V E K L R E K H I I G F P G A A
UniRef90_UPI00037C711F S W A G G L S A R D Y A E F V Q P H S A K V F D A L J A Q Y G V P R L H F G V N T
UniRef90_UPI00047AF801 T W A G E L D A D D Y A T F A L P A V E R T L S Q V T A A P T L F F A R T G
UniRef90_V5XA7 S W A G T L S L A D Y R A Y V L P H S S R I F A T L A P R G V P M T H F G V G T
UniRef90_R7Q901 S W A H H L S P D Q Y S T Y A L P A F K A Q C P K I P L I F F A N G A G G K
UniRef90_Q019R2 A M C E H E E S F Y E Y A M P C M A K I A A E V R R R H P D I P I L G F A R D A
UniRef90_T01RL6 P T A T G E L S F Y K M F A E Y A V L Y I N K L I T A V I R L H K Q G V P V I V H I C
UniRef90_UPI000472B4B5 S W V G A L N V A D Y R Y I K P V M E R I F T S L R E K N V P L I M F G V G A
UniRef90_C7M196 S W A G A L S G P A F R D H V A R H L R R L A A V I G E L G V P S I Y F S V G T
UniRef90_W0D114 S W L M H M P Y E D L K E Y A L L K A F F E R L K R E L G V P S I Y F Y R G S
UniRef90_K5YN28 D W T N A L L I S P D D F R T F F I P Y F K R L V A S I K E P V I M H N D G R I
UniRef90_UPI0002D47BDB S S L I S P I M Y K K F S M P Y T K K C V D R M K Q K T G K S T S L H V C G K S
UniRef90_E9ELQ9 S W S F R E F S E P Y L S H I A Q K L P S K L K S L G L D R V P M T V F P K G A
UniRef90_U1NYH8 T Y
UniRef90_U2WST9 S W A G S L I G E D F D R F C I A P N K S I I D G L R A R G I T T P I G A K
UniRef90_F0Z1S4 L F A S G S I M S K E M W D E L I E G D L V E E L A E A V R E K N M I H N C G Q K
UniRef90_J2LDV8 S W
UniRef90_E8RNT4 A E G F P D P L F D Q L V L E P H Q R L V Q R V R E A L G V T P L I I G F P R G A
UniRef90_I0XQJ0 T A A G D A S P G F F Q E A L I P T I K V L V E A F P G K I G Y A K N L A
UniRef90_D8DTU7 T N A G V L P Q N E Y I A H F M P A I R R I G Q A V K E M G V P V I Y F A K G L
UniRef90_R7DLC4 P A A G M S D E G C D E F S S Q Y V K A I V S A V Q D N D F I V I L H N C G N T
UniRef90_D9QJS5 S W A E G L P D D L F E R L V L K P H Q A L V R R V R E L G V T V P L I G F
UniRef90_E4T7L8 T H A G L T P S D L Y M E R I M P H V S R I T N A V R A N N V P V I F F P K G L
UniRef90_UPI000364CAF5 S W A G S L S R E L Y R S A V A P S A V P A T P D G E R V R S L H I F G V G T
UniRef90_B8CYB3 P M V S Q I S P E H K E F L N R S Y T E L F A F I R D E G A F S S F F V C G N A
UniRef90_L0L2E6 P S E S N T M I S P D T F A E F A Y P Y M K R I H V H L K E L G V H A V L M H P
UniRef90_UPI000464DD85 P V A S P A L I S P R Y F R E L V Y P Y L V E L M K Y A G K R P S L H I C G N T
UniRef90_C7HV47 P V G C D D I L S P K Q V K E F S L P Y L K K Q L S A Y E L N G I H L C G H T
UniRef90_UPI0003B75C27 D Y E N T M I I S P D T F R E M I K P K M G Y M I N E L R K R D N F H S D G Y I
UniRef90_UPI0003B5FF2F S W A G I L P A N L Y K T L V I P Y V K E I A S N I K A P L I Y F V K N S
UniRef90_E4RMD4 P M V S Q I S P A H F N Q F L K E P Y T E L F A E I K D Q D I F F V C G D A
UniRef90_D8K0M4 R F A S Y E L M S A V E Y L D Y G K K W D L E I L K N S A K G G W F N I L H L H
UniRef90_UPI00036446E5 A C A T H D F L S Q A E Y E A F G R R Y D L Q V L A A E E G W F T H L I H G R
UniRef90_H1LW15 P L A S C T M I S P K E Y K D F A Y P Y T V E I S Y I K R V P S Y H I C G N T
UniRef90_D5EA11 P S E S N T M I S P Q M F G E F A Y P Y M Q K I H N H V K H P C A N Q N G N V P
UniRef90_Z9JN6 S W A G S L G T D M Y A A H V Q K H S A A V F A H V I A D L P V P R I H F G V G A
UniRef90_C2KTD3 S W V G V L T E S E Y R E Y A Q P Y T R M A L E A K G V N H V N F A V A A
UniRef90_UPI0003762783 P T A S E D M I S T D M Y R E F A L K G T K R V C T N V K K P I F V H M C G E S

UniRef90_C7DH18 S G L I M R D L R E L D C E V I S I V G P D V E L K L A R S A L G N G K S L Q G N L
UniRef90_C0QHC8 T Q K L D A M C R T G C D S I S V D E N V D L A K A K R I C D I H D V V L G G N
UniRef90_U2XIO3 G E I L R D M A S T G L D A L G V D E Y R V P L D E A A R R V G G D L T L Q G N
UniRef90_Q8TI04 V P I I E J R G M A S T G A D C L G S V E Q A V N M E E A T K I A G D V V P V V G
UniRef90_M4S176 G K L P A Y A R E T G V D A L G L D E T V D P H W A H R S L P E G L P V Q G N L
UniRef90_T3DD10 K D R W Q D L V G D V G L S A F S V D N C E D L E E V K K A I G N S M G I S G N
UniRef90_B8ZX2 S A A V R S G E K P G H Q A V V G V D W R T S L T D A A A R V E P C T A L Q G N
UniRef90_E5XSM4 G H L L G A M A G T G A Q A I G A D W R T P L P E A A K A V G P G L A L Q
UniRef90_I4CEN3 T Y T E P I W S D V V T S G C V N F N G D L Y P G A D K R A I G G Q M S L M G T
UniRef90_N9WFC5 G K L A A Y A R G V G A D A L G L D E T V D P A W A N D I L P G H L P V Q G N L
UniRef90_E9RVY8 R K L V W D D L K E I G F S A F S V D N C E D L F E L K L H L G G E M A I S G N
UniRef90_UPI00035D3B5F P N Y V A Y A K E T G I T G L A L D H G V S T R W A L E A L P R D L P V Q G N L
UniRef90_F6IFA3 G K L A A Y A R E T G V D A V G L D E T I D P I W A A R E L P E G M P V Q G N L
UniRef90_W3Y3I6 D H L V S I W S H L P L D V I A F D W R S C I N M A Y E R G V T Q T I Q G N L D
UniRef90_A0A059FM56 G V M L G E Y A R E T G V S A V G L D T A A V P G F V N T S L P E N L P V Q G H
UniRef90_UPI0002D72963 A K L P A Y A R E T G V D A V G L D E T L D P V W A H Q S L P E G M P V Q G N F
UniRef90_I029U4 G L L E R L G S T G V D V V G L D W T I D M A D A R R R L G P D V S V Q G
UniRef90_E3H4V4 A E L L P A M H E A G A D V I G V D Y R L P L D E A N R R L N G A V P L Q G N I
UniRef90_UPI0001DD087E E K L P R Y A E R T G V D A V G L D E T L D P E W A H A A L P K G A M P V Q G N L
UniRef90_C6KSS1 F H D D I K N L K I D V L S I T H K Q L I D N T D Q F Y F K L F Q N N I I L Q G
UniRef90_D3MUN2 K K I W T Y I K D I N F S M F S I D N E M N I H E A C E Y F S D Y L P I A G N
UniRef90_E7AB94 G V G A Y L A H L S G D F E V L G C D W G T P L K M A Q E I L G D R Y V L Q G N
UniRef90_UPI0003AE752E H F A L I E L A Q A G Y E V V G L D W T V A P E K A R R R S D G W C R R C W T
UniRef90_UPI0003B31B2A G K L A R Y A E A T G V D A I G L D E T V D P V W A N D I L P K G L P V Q G N L
UniRef90_D3RNT3 I L P R V P L D L D T G A A V I G V S H E D L G A L K H A A Q G R L S N L N G
UniRef90_F9UCP3 M P I L D D L P P T G A A V I G V S M L D D L A A L K Q A A A G K V S L L G
UniRef90_U6B6Z3 G Y M L K N Y R E L T S S D A L G L D W T V P L S F A A D L Q K E G A V Q G N L
UniRef90_J6F7Q7 H S P Q S K P R E S I G N V I G L D Q G L D P V I E A K K A L P G M N L Q
UniRef90_E7FYN9 P K G I S G Y L E H D F D V F G C D W S T P L E L A K R I L G H R Y V L Q G N L
UniRef90_K1M0E5 E K I W D Q I I K D I K L S T F S I D N E C N L R E A V L Y F G D K I G I T G N
UniRef90_UPI00046D5DE8 D P M M E D V V D T G I V A L S I D S A T S L E K M I E V N Q K R V I I G
UniRef90_UPI00046EC1AA A G V L I E R M G A S G V D I V S L D W T V D M A D G L A R L P A H L G V Q G N V
UniRef90_UPI0003754A3A G E L L R D M G E A G A D V V G V D W
UniRef90_M9WXA5 E N L Y T D Y C E Q T G V S A V S I D Y N V P I E W A K E N L K I P L Q G
UniRef90_UPI000381E591 G E L L R L M G E A G A D V V G V D W R V P L D E A A R R V G P G R A L Q G N
UniRef90_R7CM09 D I Y F N E V A S Y P V N A I N W H D R H T W P T L K E A R N L T D K C L M A G
UniRef90_Q5GTT1 G S L Y K D Y C E K T G V S A V S I D Y N V P I E W A K E N L K I P L Q G
UniRef90_W7YJP9 Q Q N I E Q M C K T K P D N I S I D E N I P L D Y V R D I A L K H K V S F G G N
UniRef90_A6P2Q0 T P N I E V M C Q T N P D S I F V D E N V D I T A A K A T T D K Y N V A I G G N
UniRef90_F5YBE4 T P L K L L T Q V A P D I I D I W M V D F A E A V K V F K D T P T A V S G N
UniRef90_UPI00047C771A G H L L E A M A E T G A E V I G V D F R I P L D E A A A R L P G K T L Q G N L D
UniRef90_R7QF40 G M L L E R M A A T G V D I V S V D W T V D M A E A R K R T P K V M V Q G
UniRef90_UPI0003B35E3D E A M E P V A I S F A Y E S D D C E T M A D L K E K W G K K T L C M G Y V S P A
UniRef90_UPI00040D31D3 T V Q M E V M C K T N P D G I S I D E N V N I Y E A K K I T D Q Y N I T I G G N
UniRef90_UPI00046372BB G S N I Y F E E D Y P I Q V L N W H D R D D G P S M E E A R A K T D R C F C G G
UniRef90_UPI00047C1686 A E L L A D F T E T G A T V I G V D W K I P L S E A C R R V G R E F A V I Q G
UniRef90_UPI00021A6B7D F P K G A T M N S L I E V L A K S K T Y W N V D P I E A R K R F G S E I T L Q G N
UniRef90_UPI00016C0B2A R A R I K P L L D S G I A A F S V D T L N L E E P L T R G N Y A I C G D M N P Y
UniRef90_UPI000360D9F1 D S L I P D L I E G V D V Q V S A A G M D S A S L K K Y G K N I S F W G G
UniRef90_G5HNR2 G S N I R F D E A Y P C N V I N W H D R Q S G P S L K E A R E K C P K A F L G G
UniRef90_UPI000237D1D5 G L G T G I Q W R D I A N N G C F N S I N M Y P G M D H A K R A I G G Q I S L M G T
UniRef90_F8J7J8 T F T Q P I H R D I A N N G C F N S I N M Y P G M D H A K R A I G G Q I S L M G T
UniRef90_M2ZYY2 H H L L G L F A D L P A E V V G V D W R T P L S A A R R A L P G R T L Q G N L D
UniRef90_B8FRW8 M D R L D L I K T G F K L F H I D S R N D I Q K A V E I C S D N I L L T G S
UniRef90_C8WDD6 S R I K A Y I A D T Q V T A I G L D E T I D P Y W A D Q Y L P A D F P V Q G N L
UniRef90_UPI00037C711F G E L L G L M S E A G A D V V G V D W R V P L D E A V R R I T A A S G T P K P V
UniRef90_UPI00047AF801 Y L P D S L N Q L P C K G L A V P W Q V P I A E A R R R F P K M V L Q G N
UniRef90_V5XA7 A E L L G A M G E A G A T M V G V D W R T S L T A A Q R V G P G K A L Q G
UniRef90_R7Q901 L E M I Q D Q L G H V V D V V G I D W S V S M S D A R R R L G K D V V L Q G
UniRef90_Q019R2 P Y G L A A L Q Q A G Y D I I T L D T A M D R T V A R D V L R H D A E A R G V E
UniRef90_T0IRL6 G N L N S V K P L I S T L E A N A V S T D A I V S L K L L K D E F D P A E T T M G
UniRef90_UPI000472B4B5 S H L A K E W H D L P L D V V G L D W R T Q L D E A R A L G L T K T L Q
UniRef90_C7M196 A H L E A D I C E L G F D A V G I D W R V D L E G F A T R H G S R L A L Q G N
UniRef90_W0D114 G E Y L K L L R H V P V D A F S V D W T V D M F S W M E K E D M A F Q
UniRef90_K5YN28 W D V L D D L R V D C G I D G L H P V I E R A A G M D K V K E R Y K G R L T P I G N
UniRef90_UPI0002D47BDB R E I W N G L L E T G L S S I S I D N V I E D M E D A K K T I G D R V C I V G N
UniRef90_E9ELQ9 W Y A L D S V C N L G Y N V V G M D W L Q D P V A A L R I R G S R N V V F Q G N
UniRef90_U1NYH8 D R Y L D F A L I E T G V Q A I S I D Q D I R L S S V I A D L P D T V V S Q G N L
UniRef90_U2WST9 I Y F D V Q I D R M Q P A A I S F L Y P P D D C K D F K E C K Y G E V T T L I G
UniRef90_J2LDV8 E A R C L D Y V E Q V D V Q G M A L G T A T P L K L G Q A I Q K R P I Q G A
UniRef90_E8RNT4 Q G S L Q S L R E V P G L T G F G M D H R T D I V G F L G N G S H F V I Q G N F D
UniRef90_UPI00010XQJ0 G L G L Q S A V T P D M C D F V N I D W Q M D F Y E A R K L V N P A I G L Q G N
UniRef90_D8DTU7 G H C T E A M V S T G A R A Y H F G N K I D M T D A L K G C P A D V L V M G N
UniRef90_R7DLC4 P R G S A L H A D R Y A D A V Q G V A L D T A C S L E R G K L V Q A I K P I Q G A
UniRef90_D9QJ55 G L G L A Q V N F D V A D F V G I D W Q Y S L P E A R A I V D K K V G V I Q G
UniRef90_UPI000364CAF5 G H L L E T E M H A T G G D V Q G V D D R T R L D E A I E I L G G D V P V Q G
UniRef90_B8CYB3 S K N I E M C L E T P D S I S V D E N V S L P E A K E I I T D K H G L V I G G N
UniRef90_L0L2E6 C S N Q N K N I E H Y V K K Y V W L F G P E T P V K D Q I K A F G D H D V I C G
UniRef90_UPI000464DD85 K K V W E Y F R E M P I R A I S V D N I M D L G E A K E A L G D R M T I V G N
UniRef90_C7HV47 K K Q W K Y F K D L D I D F F S V D N C E D L E E C K K E I E D K L I V V G N
UniRef90_UPI0003B75C27 E P I I D D L I D V G V D L L N P I Q P E S M D P A H K K R Y G D R I A L W G T
UniRef90_UPI0003B5FF2F C H I N D F L K E L E A N C F S I D S R S S L K K I Y S T N K C V Q
UniRef90_E4RMD4 T A N I E P M C Q T E P D N I S I D E N I P L E K A K E I T D K Y D I V L G G N
UniRef90_D8K0M4 Q H P M M S Q E Y P V I Q A N I N W H D R T S D T D L G R A A Q V F P G V L M G G
UniRef90_UPI00036446E5 K I F D E F L D Y P V Q A L N W H D C H E Y P L R R A R A L T D K C I L G G
UniRef90_H1LW15 R K I W K Y I K D L D I G V A L S V D N M G I D E T C E F F A D S K M I A G N V
UniRef90_D5EA11 Y Y T K M R E E N D W A G K Y V W L F G P E T P I K N Q I D A F G D Y D V I C G
UniRef90_Z9JN6 A H L L A P M H A A G A T V M G V D H R I R L D E A L A Q L P E G T P L Q G N I
UniRef90_C2KTD3 S H L L E A L G E T A D V V S V G T D I S L D T A A A R L P E T V L Q G
UniRef90_UPI0003762783 S E T M Q L L P D A G V E C F S C D S K V N L A I A R K N I G K K M A I M G N

UniRef90_C7DH18 D P S M A V R G G A E M L A R T D S I L D E M D G D G F V F N L G H G V A K D T 320
UniRef90_C0QHC8 I P L T T A M L F G T Q Q D N M K A V L D L I D K H N L I I A P G C D M P Y A T
UniRef90_U2XI03 L D P A L L F A P A E V R L D A I E A R K L D E A G R H V F N L G H G V P M E A
UniRef90_M8TI4 N V T P L L M V E G T A E A Q L D I E A E T R K G L D G G A K A S M L G C G T P L S
UniRef90_M4S176 D P L A L I T G G E A L D E A V I A I R A A L A G R P H V F N L G H G V I L P D A
UniRef90_T3DD10 V P P V E I M R N G S L N D V M E S V K E C I L K A G G F T L S P G C Q I P V I G T
UniRef90_B8ZX2 L D P V V L L A G W S P A V E R V A R T V V D D K A G G H V F N L G H G V L P E T
UniRef90_E5XSM4 G N L D P A L L L A P R A A L E A E T R R V L A D P G H V F N L G H G V L P E T
UniRef90_I4CEN3 L S P Y S T L T H G T P Q D V A N E V K K L A A N G G F I V M P G C D I D W T V
UniRef90_N9WFC5 D P L A L V A G G P A L D A A I D R I L A A F P E R F H I F N L G H G V I V P D T
UniRef90_E9RVY8 V P P V D V L K N G D I F S V I Q S V K E C I E K A G Y L L S A G C Q I P L I G T
UniRef90_UPI00035D3B5F D P A V L K V G G A L L A D E V I Q R L R A A W K D R R P Y I F N L G H G V I P Q D V
UniRef90_W3Y3I6 D P L L L L S G G A D L E K Q A H A V L D A F A G R P H V F N L G H G V I G Q H T
UniRef90_A0A059FM56 P A Y L Y S D E K T L A R E V D R I L L D G I R Y G R H I F N L G H G V F P E A
UniRef90_UPI0002D72963 L D P L L L I E G G G R M D A R R E I L V A A Y S G R P H I F N L G H G V R P D T
UniRef90_I029U4 D P L L L E A G G P A L D A A R V K T I L A A F E D R P H I F N L G H G V G Q F T
UniRef90_E3H4V4 N V D P A V L F A S E D A I E A A V K D C I A K A G H I L N L G H G V L V I G T
UniRef90_UPI0001DD087E D P A L L A A G R E T L Y A H A D E V L A A G A S A P H I V N L G H G V P P T T
UniRef90_C6KSS1 P M L L A A G G D R L D H T I R H I L S A L A D R P H V F N L G H G V I D R H T
UniRef90_D3MUN2 A L D P Y I L L L N D H E L I Q K H I I Q M M K K N K Y I A N L G H G V I L P T T
UniRef90_E7AB94 V D P V K I L S K G D K K M I E D A V I D S I M A G G F I L T P G C N L P L Y T
UniRef90_UPI0003AE752E L E P A R L Y S P E A M A E G V D R I L L E V M K A P G F I F N L G H G M I E D L
UniRef90_UPI0003B31B2A D P L L L L A G G E A L E S A V A T I R H A F A D R R P H I F N L G H G V I Q Q D T
UniRef90_D3RNT3 I A M R H W T P E Q A E S V R D A I R A A G H G G G F I L A D N H G I P Y Q V
UniRef90_F9UCP3 N L N G V E M R R W T P E Q A E A Q V K A A G H G G G F I L S D N H G I P Y Q V
UniRef90_U6B6Z3 D P M R L L V G K Q S M R D R V I S E I L D V L G S G P F I F N L G H G V P Q I
UniRef90_J6F7Q7 G N F D P A L L Y G S K E I V E S E R V C K R G G W I A N L G H G V T P N V
UniRef90_E7FYN9 E P A R L Y N Q E A M L E G V M H I L E V M G K N P G F I F N L G H G M L A D L
UniRef90_K1M0E5 I P P Y S V M A R G T H E D I K R S Y E S C L E N G N Y I L G L G C C E Y P L G S
UniRef90_UPI00046D5DE8 N V P V T T F E G T P A D I E A E V R R C V D H S A F I L S S A C E L S P A A
UniRef90_UPI00046EC1AA D P G L L Y G S P D V I C A R I E D T L R K A R G R R H I L N L G H G I L P G T
UniRef90_M9WXA5 N L N P S L L A Y N K S E A I E E R I I D C F R G L P F I F N L G H G V L P D T
UniRef90_UPI000381E591 L D P A V L F A G T E A V D V D A V L A A A A D L P G H V F N L G H G V L P D T
UniRef90_R7CM09 I Q Y D D I V L D N G T P E E I T A H V K D A I E G K G L I L G P G C V V N P K A
UniRef90_Q5GTT1 N L N P S L L A Y N K M E A I K E R L I D C F R D L P F I F N L G H G V L P N T
UniRef90_W7YJP9 I K L T V V L M G D E E A S R R D A L E C M D K K G F I L A P G C D L A M A T
UniRef90_A6P2Q0 I P L T T V M L H G T Q Q D N M K Y V V D L L A K R N F I L V A P G C C D M P A G S
UniRef90_F5YBE4 V D P V I A V M L Q G T S Q F V E T Q I R H C I L D A A N S C I A A G C E V P A Y S
UniRef90_UPI00047C771A P A L I L A D D E P L L A A T D E V L R A G R A A R G H I F N L G H G V L P D S
UniRef90_R7QF40 N I D P A V L L G S K D F I A E R T L D T I Q K A G H I C N L G H G V Y P S T
UniRef90_UPI0003B35E3D T H A F L G T P E N M K I E C K K Q I E E L G K D G G F I L A T G C E F P N G
UniRef90_UPI00040D31D3 I P L T T T L L F N G Q Q D N M K F I V D M L D Q I N H H V S P G C C D M P Y N V
UniRef90_UPI00046372BB L S H K H L P N G T E E E L R A Q V Q D T W D G K A V I F A P G C V V N P N T
UniRef90_UPI00047C1686 N L D P V L L F A P W S A I E P R V R A I L D A G G F V F N L G H G V T P V
UniRef90_UPI00021A6B7D L D P C A L Y A S E Q E I T D R A R D M F G K N R Y I A N L G H G I L P D I
UniRef90_UPI00016C0B2A D V L Q I K T A D E V F E H C L G R A K V A G R S G G F L M P G C D L A P N I
UniRef90_UPI000360D9F1 C D T Q K I L C Q G T P A E V E A E V R R R I R G S G G F V F N P V H N I Q P L V
UniRef90_G5HNR2 Y D S I M S R Q G T T P D M I K K H I R E M V D G K G L L I G P G C V A D P R S
UniRef90_UPI000237D1D5 N I D P R L L Y A P Q K E I A E T L E K L I E H P N L I N L G H G F I D W T I
UniRef90_F8J7J8 L S P F S T L M H Y G S T T D V A N E V K K L A A N G G L I V M P G C C I D W T I
UniRef90_M2ZYY2 P A V L V H R P E A L A E R A R A V L R E G L G G P H I F N L G H G I R P D T
UniRef90_B8FRW8 I N N P Y T L T N G S T S D V K K E V R R N I E Q G G I K L T S P E C A I P F K V
UniRef90_C8WDD6 D P L V L L A G G E A L D S Q S I T T I L D A F S E R P H I F N L G H G V L P Q T
UniRef90_UPI00037C711F Q N L D P A L L I A G W D A I E P E I D R I L A E G G H I F N L G H G V L P P T T
UniRef90_UPI00047AF801 L D P V I A L L A G K E T A T R K A R A D A M K G H P H I F N L G H G L T P E T
UniRef90_V5XA7 N L D P V L T L F A G W P A V E R A R A R A V V E D G R H V F N L G H G V L P A T
UniRef90_R7Q901 N V D P S I L A T G S E D A I R K A V R D T V A D G P L I L N L G H G V I K E T
UniRef90_Q019R2 M S G V I Q G N F D P S F E G I E A E V T K M L T E F G L I A N L G A G L S T S S
UniRef90_T01RL6 N V S T Y L L E L G P A E K V A V Q T K N L A Q G I N I A P A C G L S T S S
UniRef90_UPI000472B4B5 G N L D P A I L L A P W E V I E E R V T E I L D K G G Y I F N L G H G V F P Q V
UniRef90_C7M196 L D P A Y V L A P V D V V L A E A R A V L P A P G Y V F N L G H G V L P E S
UniRef90_W0D114 G N M D P S I L Y C T E D V I Q R K V L E F L K K T K Y V F N L G H G L S P D M
UniRef90_K5YN28 I N N K V T M A S N P D D V R K E V L E C I R D G G Y I I A T D H S I H D L I
UniRef90_UPI0002D47BDB V P P V E V M M N G T Y E D T V N S A K E C I R K R G F I L S T G C Q V P L G S
UniRef90_E9ELQ9 A D P G V L Y G T K E A I T L A V E Q M V K G F G W I A N L G H G I T P G V
UniRef90_U1NYH8 D P L C L I D G G Q N M F S Q I D D I I E V T K G R R H I F N L G H G I K Q Y T
UniRef90_U2WST9 C V T P A S A V I G T D E S W D Q E C R D S I D G G G F I L A T G C E Y P A N A
UniRef90_J2LDV8 L D P V V L R S G G A A D D M V L K M K S A W G G P Y I F N L G H G I E P D T
UniRef90_E8RNT4 Q A L L F M P E E F K K Y L N R W I K P F L D R A G W V C N L G H G V L P K T
UniRef90_I0XQJ0 L D P R I L F A S E E I I Q Q K L E S Y R P Y E H H N W I L N L G H G V L P P Q A
UniRef90_D8DTU7 I D P V T L F K S A T P E V L K A A T L E L L K K A N F V L S S G C D V I P H T
UniRef90_R7DLC4 L D P L L L R V G G A L D R R D Q L V E A W G S G P W I F N L G H G I L P D V
UniRef90_D9QJS5 N L D P R I L S I D D R T M L K K E L A K F K A F G K W I F N T G H G F S P D N
UniRef90_E4T7L8 N I D P A A L F A G T E S L H A H A R D V V E Q G G H I V N L G H G V I P N T
UniRef90_UPI000364CAF5 I P L T T V M L H G N G Q D N M K Y T V D L L N R D N L I S P G C C D M P Y D T
UniRef90_B8CYB3 N I N P P L F L T K S Y E E L M D I C K Q T I L E G G F I L A P G C C E F P V N A
UniRef90_L0L2E6 I P P V I E C L L E G S E E T L R E I R R D L A K G G Y I S A S G C C D V P Y N T
UniRef90_UPI000464DD85 I P P V E V M R Y G S I D D V I E S V K T C I K K A G Y I A A T G C C S P V K T
UniRef90_C7HV47 V S T Q S T F P F K G P K D V E Q E V K E R I Q N G G F L L A P T H N I Q L D T
UniRef90_UPI0003B75C27 G N L D N A V L L T D R E T I K N E T L K V L K E T P H I F N L S H G L I P N T
UniRef90_UPI0003B5FF2F I P L T T V M L L G N Q Q D N M K W I D T L D K E N L I S P G C C D M P Y D V
UniRef90_E4RMD4 I E Q Q R F L V N G S P A D V N R E S I D I M G G N R L I L A P G C C T F P L S V
UniRef90_D8K0M4 L D E E G A I S Y G S P S E V M E V A Y F L D L R G V M V L P G C C V T I P N P
UniRef90_UPI00036446E5 A V V I T I C N G S K S D I E I E V K K C I L A G G F I L A P G C C N L P V T
UniRef90_H1LW15 N I N P P L F L N S T Y E E V V E L C R E N I E G G Y I L A P G C C E F P L D A
UniRef90_D5EA11 D P A V L F T S E Q A R F E A R A V L A A G A A S G H V V N L G H G V P P D A
UniRef90_Z9JNJ6 N L D P E L L I Q S D S E K I W S E A D K V L Q A G A H I F N L G H G V K P E T
UniRef90_C2KTD3 I D P V R V L W Q G T P Q T I R D T A F K C I D D G G F I L A P G C C E S P R D C
UniRef90_UPI0003762783

UniRef90_C7DH18
UniRef90_C0QHC8
UniRef90_U2XIO3
UniRef90_Q8TII4
UniRef90_M4S176
UniRef90_T3DD10
UniRef90_B8ZQX2
UniRef90_E5XSM4
UniRef90_I4CEN3
UniRef90_N9WFC5
UniRef90_E9RVY8
UniRef90_UPI00035D3B5F
UniRef90_F6IFA3
UniRef90_W3Y3I6
UniRef90_A0A059FM56
UniRef90_UPI0002D72963
UniRef90_I0Z9U4
UniRef90_E3H4V4
UniRef90_UPI0001DD087E
UniRef90_C6KSS1
UniRef90_D3MUN2
UniRef90_E7AB94
UniRef90_UPI0003AE752E
UniRef90_UPI0003B31B2A
UniRef90_D3RNT3
UniRef90_F9UCP3
UniRef90_U6B6Z3
UniRef90_J6F7Q7
UniRef90_E7FYN9
UniRef90_K1M0E5
UniRef90_UPI00046D5DE8
UniRef90_UPI00046EC1AA
UniRef90_UPI0003754A3A
UniRef90_M9WXA5
UniRef90_UPI000381E591
UniRef90_R7CM09
UniRef90_Q5GTT1
UniRef90_W7YJP9
UniRef90_A6P2Q0
UniRef90_F5YBE4
UniRef90_UPI00047C771A
UniRef90_R7QF40
UniRef90_UPI0003B35E3D
UniRef90_UPI00040D31D3
UniRef90_UPI00046372BB
UniRef90_UPI00047C1686
UniRef90_UPI00021A6B7D
UniRef90_UPI00016C0B2A
UniRef90_UPI000360D9F1
UniRef90_G5HNR2
UniRef90_UPI000237D1D5
UniRef90_F8J7J8
UniRef90_M2ZYY2
UniRef90_B8FRW8
UniRef90_C8WDD6
UniRef90_UPI00037C711F
UniRef90_UPI00047AF801
UniRef90_V5XBA7
UniRef90_R7Q901
UniRef90_Q019R2
UniRef90_T0IRL6
UniRef90_UPI000472B4B5
UniRef90_C7M196
UniRef90_W0DI14
UniRef90_K5YN28
UniRef90_UPI0002D47BDB
UniRef90_E9ELQ9
UniRef90_U1N1YH8
UniRef90_U2WST9
UniRef90_F0Z1S4
UniRef90_J2LDV8
UniRef90_E8RNT4
UniRef90_I0XQJ0
UniRef90_D8DTU7
UniRef90_R7DLC4
UniRef90_D9QJS5
UniRef90_E4T7L8
UniRef90_UPI000364CAF5
UniRef90_B8CYB3
UniRef90_L0L2E6
UniRef90_UPI000464DD85
UniRef90_C7HV47
UniRef90_UPI0003B75C27
UniRef90_UPI0003B5FF2F
UniRef90_E4RMD4
UniRef90_D8K0M4
UniRef90_UPI00036446E5
UniRef90_H1LW15
UniRef90_D5EA11
UniRef90_Z9JN6
UniRef90_C2KTD3
UniRef90_UPI0003762783

P P E N L M K I V E R V K
P I E N V L J A A E Q A V H
D P D A I S S V V R T V H A W R S
S S D K L K T W V K A A A D W S A
P T A H V E R L L A L L R
P I E N I H A F M N A A R M Y S
D P G V L S E L V S F I H
D P G A L T A V V D L V H
P D E N L R A L I D T C
P I A H V E H L I R R V R
P K E N L J A Y I Y A A R K Y
P P E H V D Q L M A L V R
P I A H V E D L L R V V R A W
D P K K L H W L T D Y V H E R S
P I A N V E R A L N I L R E
P I S H V E E L L A A L R
P E E S V A H M F N
D P Q V L T D L V T Y L H E
P I A H V E H A L G V L R D W
K I K N V N L F I D T I R E W S
S D E N I E I F M D A G R K Y S
P R A Q A I E L V R L V R Q K S
P I A H V
P D A V L T T I S Q A V A R W
P E D T L L A I S E A V H R W
K T K N V S D L V D F V R K
K P E D M G W F L E C V H K Y S
P R T I A T E L V R L V H E
D L T N I D Y L M H L V R S Y H
K P E N V A H F A R F A K E Y
P E E N A R L F F E T G K R L G A
P V E N I A A L V D L V R N Y
D P D V L A R V V D R V H T R T A
S E E N L R A L R K A
P I E N I A A L V D L V K
P K E N L T A V S E L V R D
P V E N A I G V A Q A V L E
P K E N I L L M
D P G K L A L V V D R V H E A S A
P E D N V A H F F K T V Q D F
S L L N A I A M M E A V E Q Y
P I D N T V A T V Q A I K Q
S D E R L L L V K K L I E E
D P A L Q R L T A F V H E Y S
P I T S V A A F I K G L H
P L A N I Q A M V N A A H S F
P P E N I V A A F K T A R E Y
P E E N L R A V R E A V E R
P Y E N A R F V T N W V K Q
P D E N L K A M I E T C
P V G H V Q R L I E T V H G F
P N A N L L E L V N S I H R
P L T H V S H L L E K I R
D P D V L H Q V V Q A V H
D P A V V G A V L D E V K
D P E V V T D L V A L V H
P E D A V G V F C D A A R N M A A
D V E K V A Y L V D S I H R V S
P L A N I Q A M T H T V K
Q P E T L K R L A T F I H E Y S A
D P D V L A R V V D L V H D
E L K K V K L L V D T V K G Y
P T E N V R C L I D T I N K Y
P I E N V Q A L M D T V R S F
D P D N L K H F F E E L H R
P P H H I S E L V D Y I R
D F A R A H R M V E I A K D Y
P I A H V E R T L H L I R
P E A N I R T F V N T I R E
P L K S L Q F I T N Y V K R
P H G N I T A F Y E A L K E Y N
P I A H V E Q V L K R I
K V D N V K F V I D W V K
D P A V L T E L V E F I H
P V E N T V A V E Q A V H E
A P L K L M A M L D A A E T Y
D F K K L D I W M D E V R
P I E N L D A F I Y A I N K Y
P F E N I D A F Y S A I K K Y G S
D P D K V K F L T D L V H
P I E N S I A V E Q A V H E
P E A N L R A V R N A V
P D N N V A T A R L V V E R Y
T D E K I D M F L D A G R K Y
S P I K V M A M M D A A Q M Y G S
D P Q V L T D L V A F L H E
D P G L L T E L V A R V H A W
S D E N M I A M G M A G I D Y W

UniRef90_G2FS73 1 MDEKVRLLTAL K GDRVDRPPVTCMMMSA CVT EISDQVGGG 40
UniRef90_B1M3C5 TSEKVRRLVLEGEALIGPPAWMMRQAGRYRATR AEAAGS
UniRef90_Q8TSF1 MTSPERMAAVLISGQKPPDRIPVVPFIEGY AAQITGIS
UniRef90_F0YTU2 MNGRERILAAALNRQEPDRVPTCEWV LNP KV
UniRef90_A6L4F2 K LNMKEWINEITIQKKEVVA MPTI MTHPGIEM IIGKT
UniRef90_R7D1L0 NMKQWVGLIARKDVTAP IPI MTHPGIEM IIGKT
UniRef90_UPI000472B429 MT SKERVLCAVINHKPVDRIPLCSMVDKAYFKVKDFLIGLIE
UniRef90_M4YPK0 MSTRDQVLDAMDGKG GDCPPAAVFTQTGT V SQMDA C GSY
UniRef90_UPI00036787A2 MNSYERVLKTLRNEPVDLPLRLPIVMS FAT HYI GCS
UniRef90_H1Z0S8 MT PMQRYTLTAMEFRE PDRVPLFLL L T M HGAKE LGLS
UniRef90_R9T4I8 D MTYMERGAALANEKVDRLT IYPIA C G VGRK LIGDGLT
UniRef90_F5YDA4 MT SRERVLAAALRHEESDKLPESLGF GYARKQLAEY LIGKT
UniRef90_M4YMR5 MT SRERGLAVFHGEIPDRA PV CDFGNAA MLGY TGH
UniRef90_Q2RI2 MNHWQRIEAAL L LGDATDRT PVALWRH KGV
UniRef90_H1S776
UniRef90_UPI00034F7C71 MNSKEIQNLLELKPTPRQPATLM SAGAWALNSNGLS
UniRef90_F5YEM9 QKVERPPMWVMRQAGRYEYHEAKGKD
UniRef90_UPI0001585B04 NDLMIRAAALGQKVERTPTWLF RQAGYHEYKSKVGRN
UniRef90_K0RJ80 MNEKERLLKTKLGEKVDRH P VTC PGGMMSA CVT E V LDDV
UniRef90_K0AZM6
UniRef90_A0A009EYU3 MNNLLLDLFYKNEISEIPWF L RQSGRHEYFLIRARD
UniRef90_UPI000367879A MMRQAGRYMAVYEK HPS
UniRef90_A9RDE4
UniRef90_V8YD75
UniRef90_D5E735 MTSKERFVNALEMKD VDRMP YGYLWF GAGNG V LGRMDA C
UniRef90_K1LG70 E L TSAERWERLHTQS PLDTMP VVLF DN LVS AKLIDRT
UniRef90_UPI000371FB23 MT PLERILSAAATGS PAVRIPVFCN L PDHGARELAMT
UniRef90_C5C5B1 NSPLLAAAYHGRPVG PAVWFM RQAGRYEYRARAAGT
UniRef90_A9W2T9 T V AERVLRLVLSGEAIS PPAWMMRQAGRYRATR AEAAGS
UniRef90_UPI0004770B02 KNDL L RASRCLPVERV P VWMRQAGRS DYRQ LTRER
UniRef90_B8FZ11 MNSLQRLEAALRHAHFDEALCIPLVFGG AAF LTRDVK
UniRef90_M1ZG88 MLKNDRFLRA CRKEEV DQIPVWYMRQAGRF EYRKLK KYT
UniRef90_UPI00047EF313 MTGRERVLALITD HQAVEDHLPEM P L TMMF AADQVGAQ
UniRef90_I0I3N8 LS KRERVLAALRGEVDRPPVA AWRH
UniRef90_F7NFD3 MNKKERLRAAVTGEK P DCLPYSFWSH
UniRef90_A0A059LPB1 MKAYKD LA AKYPS
UniRef90_F8L6G3 MRQAGRYEYQKLRQHT
UniRef90_UPI0003B3867A SKND L L LRAAR CLPVERV P VWMRQAGRREE LNLPLIEQ
UniRef90_T0FF57 P NQKFTNALQCKAQSIPPIWMMRQAGRYHS HYQKKT
UniRef90_N1VY65 NERFANALNLV PQDL P WFM RQAGRYHS HYRKTYS
UniRef90_F5YJD3 MS PREVIQA AVNFR EPDRIPFFISA HGI LRRQGMVMEQ
UniRef90_D5E740 E MS HADRTLAAAMADKVDRLP VYPL A C G A L R K F A D A T
UniRef90_L1IT61 NDLMVRVARGEKAEKTPVWLF RQAGRYEYRARAAGT
UniRef90_A6P0J2 KELTFKTMRHEP TERV P WVPF A G I H S G K L K G Y T
UniRef90_UPI000255CCA5 MN HKERVLTAALNHQEPDRV P V F Y W V P E F T N K M I A Q L G F S
UniRef90_D1CA85 E MTKTERILMAAVNGE E VDRV P V C F W H H F R P E
UniRef90_Q5L510 KASR P V W F L R Q V I G R Y Q Y R E L K G S T
UniRef90_I6YXN0 MTDNE I L K K V I G G E K A E P L P V G F I L D S P W L P N W Y G I K
UniRef90_V4NGB6 MRQAGRHEYRELRAPD
UniRef90_T0M3B0 MNS FLSA L K G D S H E T I P V W Y M R Q A G R Y T E I R R G M S
UniRef90_K2ANW6 DRIPVFC N L I D Q G A R E L G M S
UniRef90_UPI00047D5CC6 MT PRERWEAVLKRQK P DRLPMDYWATAEANEKLM K
UniRef90_R5R890 Q L L G V T
UniRef90_UPI00036436B4 MT PRERWLA V L R R Q K P DRV P M F C A T P E A T A K L L K H L G V P
UniRef90_A5P9L1 MRQAGRYEYRELRKGG
UniRef90_Q64RS0 P I M T H P G I E L L N K R
UniRef90_E8TSE9 MNHWQRIEAALIGGEATDR PPIALWRH
UniRef90_E4Q6Q0 F P I M S Y P I L K S I G G F N
UniRef90_B8CAQ1 E L T S R E R I R A A L G R S T V E R T P V W L F R Q A G R H E Y K Q K T G R S
UniRef90_D9QPN5 E L T S A E R M K A L M N K E K L D R I P V N P I Y N L T T L H R D A Y I N
UniRef90_T3DD16 MT SKERVRAVMEHRK P DRIPAF L K H Y G F T E Y D Q L L E K Y
UniRef90_U2CG17 MT KAERILAAALR GDAVDRI P Y S L W S Y
UniRef90_R6BAB5 FLKALHGLDHDYI P V W F M R Q A G R Y Y K D Y R K K L G
UniRef90_Q978V0 MT PRERVLHALAFTVITDI V P V D F T I P A R E K M S A Y L T D P G
UniRef90_UPI00035E6D22 MNTLFHNALKRT P QAV PPIWFM RQAGRY HKHMRANHS
UniRef90_A0A024EZ89 MD MRKWLISGLIATERK KALP VLSF PAVQLMGLS
UniRef90_D6EBP3 MTRRELVI AALNHEET T I P Y H I D F T G Q S L E Q L V A Y T G N
UniRef90_F7K574 MT SKERLLAAV LNDQH P DRIPWAP L D G Y T S S L A E Q G I H
UniRef90_F4A216 MNKNERILKAALITGEKPTDIPYSFWA H
UniRef90_F5YLG2 L L L R A A R G E V I T E S T P V W M M R Q A G R H R D L V K D Y P T
UniRef90_R1G0H9 MNSRERVMMAANHQEPDRV P V D M V L T I D V Y R D M K R M G R
UniRef90_UPI000372D665 MT GYERFMTAALRKEPDRVPLWELIINEFVEMEDLDGLT
UniRef90_U1QFT1 ILEALAGRPARTPVWF MRQAGRPEYRALRGA P
UniRef90_K6AHM5 MEIQEWLQETLRQKERALPI MT HPGIEM L C GKT
UniRef90_X5H2T9 N F I S A L K G E P H D H I P V W F M R Q A G R Y E Y Q E L R K Y N
UniRef90_T0LZY4
UniRef90_X1KJL7 Q L N S K E R V R A A F E H K S P D R V P A T M Q A V E T A W E K M Q Q Y Q V E
UniRef90_F0Z5T8 MNMKQWVA D I L L A S D K K K S L P V L S F P S I Q K M G I T
UniRef90_R5TDU7
UniRef90_V4T672 F A D L L Q R Q A P H R P P V W F L R Q V G R Y Q Y H E L K G S P
UniRef90_UPI0003663F87 MTSRERFLKALRHEEPDRV P I S P W A E T V R R W Q R E G L P A E
UniRef90_X1D5W5 MT PKERIMGLITRKQLDRIPVFPFVITAA AAQV L H I G
UniRef90_F7KCE6 MT NRENFLSLLRHTGYEWV P V E F S L C P Y L T I E Q K E L G A E D
UniRef90_X1PWM6
UniRef90_F3ZWP7 MT PKERWLA V L N R Q K P DRLPMDYWATDE V N D K L R K Y L G C
UniRef90_U2QDN6 P V K R A M P V L S F P A I Q L M D I T
UniRef90_Q2RG09 L N Y H E I L L A T A M F R P I N P H V P V V L W A I G Q T Y A P F A K I P
UniRef90_M8BT66 M A S Y Q A L S K R H P S
UniRef90_X1HHI4
UniRef90_F0YZV9 MTSRERVRAAALIRHQNPDRV P A A L M K C Y G F S E Y S Q L I D K F

UniRef90_G2FS73 H S G S Q A M V S A A Q K I N E L T G F E N Y G V P F C L T S E V E T L 50 60 70 80
UniRef90_B1M3C5 F L D L C Y S P D F A V I E V T L Q P I R R F G F D A A T L F S D I L V V P H A L L
UniRef90_Q0TSF1 L G D F Y A D G D K C F E A Q F A S M R L H G Y E Q T P M Y G Y A S C G A W E F
UniRef90_F0YTU2 M E Q I C N T A S D L E A V G L D S K N T V J D D R F H
UniRef90_A6L4F2 V R D A V T D G Q V H Y N A I K A L S E K Y P T A A A T V T M D L T V E A E A F
UniRef90_R7D1L0 V R D A V T D G Q V H Y E A I K A L S E K Y P S A A S C V L M D L T V E A E A F
UniRef90_UPI000472B429 G E E P Y R K G S N V C Y Y D E R L L D R F D I D I R R V F A K Q S E E Y P K Y
UniRef90_M4YPK0 W P E A N F V A S K M V E L A L Q A H K R F G F G T I R I P F D I T V Q A E A F
UniRef90_UPI00036787A2 Y R Q F V T D Y N V L V N A N E A C I R D F G Y D Q W S A I S D P F R E T S G F
UniRef90_H1Z0S8 V K D Y F S E P E Y V A E G Q V R L Q K K F G G D C F F G F T Y A A L E A E A W
UniRef90_R9T4I8 Y R E W V N D P K L F A Q A F I E I Q K Y F G L D F A I G L M D L S V M A G D L
UniRef90_F5YDA4 M N E L D A M L L A A T D L R W V S P R Y I G P S Y R S P K G D A E K P D V W
UniRef90_M4YMR5 M K E C R G N T A L T D S I M K E W A K A T G A D I F F G P M E T K G I F M D L
UniRef90_Q2RII2 L K E V Y F S A S L Q A E T A C Y L A E R F Q I D F I R P V I T D L V V E A E A M
UniRef90_H1S776 F P E D D L D V D K L V R H T L E W Q R K W D F D L V K F M P P G T Y G V E D W
UniRef90_UPI00034F7C71 A V T G Y H G G E W E G A L
UniRef90_F5YEM9 L E R A L A A P E E T A D I L Y R A Y N E V G S D I V W A M S G Y N N I V T G A
UniRef90_UPI0001585B04 F F E C C R S P E I A S T L T L Q P I E R F A V D A A I I F S D I L V I P Q A M
UniRef90_K0RJ80 F L E H L S Y P D D V A E C T M Q P C R R Y E V D A A I L F S D I L V I P E A L
UniRef90_KOAZM6 E D D N L S T I D G M V K A A R N I Y K K T G F E N Y G V P F A M V A E A E L L
UniRef90_A0A009EYU3
UniRef90_UPI000367879A F I D F C S S T N L I V E A T K L P L K Y Y N L D A A I V F S D I L M I P W I M
UniRef90_A9RDE4 F R E R S E N V D L I V E I S L Q P W K A F R P D G V I I F S D I L T P L P A I
UniRef90_V8YD75
UniRef90_D5E735 M S D V Y Y S A E G I A R A Q I L A R Q M Y H H D N V M S P W C L L V E A E A L
UniRef90_K1LG70 Y L J E S E A D A T L L L E K L L K S Y Q T F K A D S V S L N Y S M S E I N Q V L
UniRef90_UPI000371FB23 A K E Y F S R G E Y V A D G Q L R L L Q R Y G Y D N I W S L H Y I V G K E A E A L
UniRef90_C5C5B1 M L I E A C L T P E L A A E I T L Q P I R R H G V D A I F F S D I V V P L A L A
UniRef90_A9W2T9 F L D L C Y N P A F A E I T L Q P I R R F G F E A S I L F S D I L V I P H A L
UniRef90_UPI0004770B02 L F R T C P A P M S Q T D V E S A V P K R I G V D A I I V Y K D I L T P L A P M
UniRef90_B8FZ11 L K R Y L Q N G E I L A Q C Q L D S Q K F D Y D A V F V Y G D N C I E A E A L
UniRef90_M1ZG88 L L I E I S R N P E L A A Q I T M M P V H K L G V D A A I L Y S D I M N P V E S
UniRef90_UPI00047EF313 Y L Q Y V T D Y R V L V E A Q L R T A E R F D L D L V S C I S D P T R E A S D V
UniRef90_I0I3N8 F L P A E R Q P S T L A Q A S L Q D F F T F D W L K V N P R A T Y A E A W
UniRef90_F7NFD3 L P D V D L D P A A L A E E T Y R F Y K T Y D I D F I K T M N N G M Y A I E D Y
UniRef90_A0A059LPB1 F R E R S E R A E L A V I E T S L Q P W H A F K P D G V I L F S D I L T P L P A L
UniRef90_F8L6G3 L E Q L F R C P E K I A E V T L Q P L K R F P L D A A I L F A D I L H L L P L
UniRef90_UPI0003B3867A L F R T C P A P M S E T D V E S A V P K R I G V D A I I V Y K D I L T P L A P M
UniRef90_T0FF57 F E E L C K I P E L A A E V A Y G P V N D F G F D T A I L F S D I L F P L E A L
UniRef90_N1VY65 F M E L C K Q P E L A A E V A L G P V R E F G F D V S I L F S D I L L F P L E A L
UniRef90_F5YJD3 F Y Q R P P E E Q A G F A V D I I R Q Y G G D I V L A G L S G T L S V K A L
UniRef90_D5E740 Y K E Y A L D D P N K F A E S A F L G C K Y M D L D M F V G L I D L S A T S A D F
UniRef90_L1IT61 F L Q L L D D P K H V A E S C T M Q P I R R Y N L D A A I L F S D I L V V A E A L
UniRef90_A6P0J2 A E E L L Q D G Q K L Y E C L M E V A R L Y G P D G M P I M F D L Q L E A E I L
UniRef90_UPI000255CCA5 L L E Y L D I D F R W V E P Q Y V G P L L T N Y Q E G I K K D I W G V E Y K L A
UniRef90_D1CA85 L K S G R R L A E A T Y N F F E A F D L D I L K I M P D I
UniRef90_Q5L510 L K D F F H N T E A I T E A T L L G P S L L K V D A A I L F A D I L S L L D G F
UniRef90_I6YXN0 I V J E Y F A S E E L W F A A N L K A I N Q F P E V M F L P G F W M C T E P S A F
UniRef90_V4NGB6 F L S F C L N P E K A A E A T L Q P V R R Y G M D G A I L F S D I L V I P M A L
UniRef90_T0M3B0 M K D M C R N D A D T T I R I T L E P V D R L G V D A A I L F S D I L P A E S M
UniRef90_K2ANW6 I R Q Y Y S R G A N V A E G Q L R L V K K Y G H D N F W S L E Y V G R E A V M L
UniRef90_UPI00047D5CC6 V L N C S S Q E I Y K K L H I L D K P V A V G P A Y I G P K L E K D T D M Y G C
UniRef90_R5R890 V E E L V K D G H L Q A S C M E S I A K K Y D M G M A V S L M D L S V E A E A F
UniRef90_UPI00036436B4 D L D A A C K H L H I D K V L N A C P R Y I G P K L A E S S D M F G C R T Q T F
UniRef90_A5P9L1 F L A M A Y D S E A A C E I T L Q P I R R F G F D G A I L F S D I L I V P H A L
UniRef90_Q64RS0 V L D A V T D G E V H F K A V E A L N M N Y P Q S A A C T V I M D L T V E A E A
UniRef90_E8TSE9 F P E D D L H A D K L V A H T L K E W S D K W F D L V K F M P S G T Y G V E D W
UniRef90_E4Q6Q0 V R D L A Q N A D I H F S V L K E I S Q H F N M V A I A T A M D L S I E S E E F
UniRef90_B8CAQ1 F L D M L S Y P E D V A E C T M Q P V R R Y D V D A A I L F S D I L V I A E A M
UniRef90_D9QDN1 L M D Y L G Y D E D E A E I A Y F N I R Q R F K S D C Y P L Y T S G P G D W
UniRef90_T3DD16 S K E Y Y M E P K A F K A Q M C S I N L H K Y D A T P G Y A I P E W Q T W D F
UniRef90_U2CG17 E I D I V T A S P R Y I G P P L K A W K N E K G E Q V E L S Y W G Y E T T L H T
UniRef90_R6BAB5 L P M L D L D P A A N A E H T Y D F Y K T Y D V D L L K T M N N G M Y S V E D F
UniRef90_Q978V0 L E G M M T D A D V I V K I T H S P V D M I G V D A A I F A D I T T P L P G L
UniRef90_UPI00035E6D22 F L J E K L G N H L A Y V K A I P P S G L R E V A P G F V Q D E W G V V W N R T I
UniRef90_A0A024EZ89 F D Q L C K R A E L A A E V A R G P V A E F D F D V S I L F S D I L Y P L E A L
UniRef90_D6EBP3 V R D L I G S S D C Q A E A M R L V A Q R Y P T A A S V S F M D L S V E A E A F
UniRef90_F7K574 R D I G E Q L G V C M N Y I Q Y W G W P S E I D G R P G Y F R D E F
UniRef90_F4A216 E M N V V E T R Y I G A D V F E R H V P K Y S V R R E G D K E I Q T F E T P V G
UniRef90_F5YLG2 M P A I D R D P L I A E K T W E F F N R Y N L D L V K T M N N G M Y S V E D F
UniRef90_R1G0H9 F R E R S E I P D V S Y A V S M Q P R D A Y G T D G V I L F S D I L T P L P A M
UniRef90_UPI00047DED8F W T E V I Q M P I E M I K K L G I D M Y V R S P R S G V S V H T K S F Q D G S F T
UniRef90_UPI000372D665 I F E D M K L E P L G T A E Q K E L V W R G R T I L A G T R Q V V R D E W
UniRef90_U1QFT1 M L J E A C L D P E L A A E A T L Q P V R R H G V D A A V F F S D I M V P L R L A
UniRef90_K6AHM5 V R D A V T S G M V H A D A I C R L N E Q Y P S A A P T V I M D L T V E A E A F
UniRef90_X5H2T9 M C D S P E I A A E I T M Q P I K R F D F A A I I F S D I L V L P A L
UniRef90_T0LZY4 I R E M C M N P E I T E K I T Y A P V K L L G V D A A I I F A D I L L P L E A M
UniRef90_X1KJL7
UniRef90_F0Z5T8 T P D E V M D I L E I D T R I M D F P P Y I G P K T P D F V N A K G E V V H T H
UniRef90_R5TDU7 V A E L I N S S D K Q A E G M K I I A D S C P T A A S V S L M D L S L E A E A F
UniRef90_V4T672 R K P W E A F H P D G V I I F S D I L T P L P A F
UniRef90_F4DJY4 L K S F F H N P E A I I E A T L G P E L L H V D A A I L F A D I L S L D G F
UniRef90_UPI0003663F87 I P V S D Y F G Y E L V G I G F D Q S P M F E V K T I L Y K D T Y I V E T T P Y G
UniRef90_X1D5W5 Y D E Y A K K P E L F I R A Q I E A Q K L F G Y D A I T S I P D L C V E A Q G F
UniRef90_F7KCE6 Y Q E Y F S F P W R M V E D I R L P G H D V E Q Y F Y Q R P L A D G A D I D T W
UniRef90_X1PWM6
UniRef90_F3ZWP7 S T Q R E M Y E R L H L D R P V S V G P R Y I G P Q V P D D A D I Y G C R Y R N
UniRef90_U2QDN6 V R D L I S S S D L Q S K G M K M V A D R V P A A A V S L M D L S V E A E C F
UniRef90_Q2RG09 D N E Y A D P A K M L E A Q V K F Y E R F P D P G I W P D L G L M A E L G A L
UniRef90_M8BT66 F R E R S E T T D L I V E I T L Q P W H A F A P D G V I L F S D I L T P L P A I
UniRef90_X1HHI4
UniRef90_F0YZV9 H I D I V S V E P C Y I G P E L K R Y I N S K G E E V K E S Y W G Y E T T M H

UniRef90_G2FS73 G A S V N I G D N F I E P R V T R Y N D D P L E T I M E N Y S Q D V T S G R M G
UniRef90_B1M3C5 G Q D V R F V E G E G P R L D P L D G R T A F A R L R E A G D P A V M S H L A
UniRef90_Q8TSF1 G G E L G F P Y G K G Q Y Y V K K H P V E T I E D I D K L E V P D F G R E L P G
UniRef90_F0YTU2 F I D E W G I T R V S Y D E Y P N P V G F P I H E L S D L D T Y V M P D P D A P
UniRef90_A6L4F2 G A E T V F P E N E V P S V V G R L L N D E E A I D K L E I P A L N K G R I P
UniRef90_R7D1L0 G A E L L F P E N E V P S V I G R L L N D E E A L E A L Q V P D L T K G R I P
UniRef90_UPI000472B429 H D D G T F S N E W Y V E T V K N P L E D A E L E D L D T Y P W P K E G M L D
UniRef90_M4YPK0 G C S V D K G R K N S Q P A V M S S P F N D S M E I P P V P E D F I P V I E E F P
UniRef90_UPI00036787A2 G A V L E Y F E D A V P R C P N P L H E N Q D F S R L P I P D P Y N A P R M Y
UniRef90_H1Z0S8 G S D V I F I D N G P P N A G R P V I H E P E D I D D L A V P E I S E S P C L L
UniRef90_R9T4I8 G A G V R M D E Q N T P F V E K H I V N D L E D Y E K F E V P D I T K G R S A
UniRef90_F5YDA4 G V S H K F N G F D S Y E I S K N Y P L K G L G E T M K L E D H V F P S P D W D
UniRef90_M4YMR5 P D L Q I K L P D D D Q G S L Q N T Y F S S P E D V I E Y D P F N P E E S P N F R
UniRef90_Q2RII2 G L K A R Y P D N G A P V L V E H P I T G P E A L A N L N L P E P G R D G R L P
UniRef90_H1S776 G A V T A Y Q S A N G A R A V J A P P V R T T E D W L R I R P L D V K L G S Y G
UniRef90_UPI00034F7C71 G M E V T M V P G K G P S F P E P V I R E E Q D L E H L R D P A G V V S E L S
UniRef90_F5YEM9 I G G K I K F R T K G T P D V I E I L V K K P S D V D T I N T D V I K D E R V Q
UniRef90_UPI0001585B04 G M T V E M V D K K G P H F P E P L E S P E D G Q Y E R V L N K V D V A A E L D
UniRef90_K0AJ80 G V K V T M P G G V G I Q V P P L V G P A D M R D R S E M T A E F V E D K L G
UniRef90_K0AZM6 G V T V D S G T K T T E E R I I E Y N N D D L D D I N N Y D I N P N D S P
UniRef90_A0A009EYU3
UniRef90_UPI000367879A K R D V K F E K S I G P I L N P L I P N D S K I I K D V N V V K K L E
UniRef90_A9RDE4 G I P F E I D E A K G P L L E T P I V S E E G L E A L H P I D L D K V N
UniRef90_V8YD75
UniRef90_D5E735 G T R L N I K D D R Y P T I A G Y Q L S S A N E Y D R I D P L D I E R S H R I E
UniRef90_K1LG70 G G E S K V T H P N T S R S I V A Y P A Q A L D D V A A L P E L A L I E T L P V T
UniRef90_UPI000371FB23 G C R E I L F A D D G P V I A D F I T K D D I A K L E I P A D I T Q Q P A W Q
UniRef90_C5C5B1 G V D R H I E A D G V P V I A P V R D A T A R A L A A R A P G D A A R I T E
UniRef90_A9W2T9 G Q D V R F V E G E G P R L D A L E G R A Q F E R L R E A G D P A I F S H L A
UniRef90_UPI0004770B02 G A H F R F N P G P I L D P P I R T Q A Q V D A L R P V D E P P T Q L T
UniRef90_B8FZ11 G S R V Y F P E N A Y P Y I E K Y R L E D P R Q L K D L P F N P S T D G R M P
UniRef90_M1ZG88 L I G I E F H I V K E I G P V I P H P I R T L E D V K R M R P F D V E G D L P
UniRef90_UPI00047EF313 G A A V R F F A D Y Q P P A F D E S Q A I E K S T L A R L K I P D P L G G G R M T
UniRef90_I013N8 G N R Y D F E R Y N G P V F L L E G P L N T P A D L E K I Q P L S G V D G V F A
UniRef90_F7NFD3 G C E I D F S E K G G V A R L L V R T P V Q S A A D W E E L S V C P V T Q G T L A
UniRef90_A0A059LPB1 G V P F D V H D K V G P I L A T P I R Q H D Q V V S M P S L D L S A L E
UniRef90_F8L6G3 G C D V T F P Q T G G P Q V S A P E R L Q E K D V V N T
UniRef90_UPI0003B3867A G A H F R F D P G P V L K P P I R T P A Q V D D L L P L D D P P A Q L A
UniRef90_T0FF57 G M G L K F G D D G P K L G W Q L A E Y S D L G R M S L E H A V I D F M S
UniRef90_N1VY65 G M G L T Y D D P G P K L S F S L T S E K D L R L K S P E E A I E G L K
UniRef90_F5YJD3 G G K V K F R A K G S T D V L E P L I T D I A E L D K I N L D R V K D D F H Y Q
UniRef90_D5E740 G C T I K Y P E E D T P S S E G H L E D Y E D I E T P E V K E G T R A Y E L I E
UniRef90_L1IT61 G I K V E M P G G K G I T V P H P L A S P S E V I S T R I P A S I D V K D K L S
UniRef90_A6P0J2 G C D L M W A K D N P S V A S H P F E G D N K G I P C R C K L P T P E G R I P
UniRef90_UPI000255CCA5 G H G D L R Y W E V D K Y P L Q F G I N D P E V L E D Y P W P T I D L F D S S L K
UniRef90_D1CA85 P Y P P R R S I T K P D D W L V E P I D Q E R S R Y F
UniRef90_Q5L510 N I S Y D F A P G P Q I S F S P K E E L I F T N D P Q D T F S Y L L K A
UniRef90_I6YXN0 G A R S S F P P N E F P H A H K L N S A D E I E S L H Q S P N P E T D G L L P
UniRef90_V4NGB6 G Q D V R F A G E G P H A H G E L P A I E R M A D L A G S A G A Y
UniRef90_T0M3B0 G F A I D F V E G V G P S I K N S Y V S D P S M R S I N E F S S A E Y G
UniRef90_K2ANW6 G C D K I N F D D G P P N V A D F I L K T P E D I K K I P D D I V S H P E F G
UniRef90_UPI00047D5CC6 R Y R N V E Y S G G V Y A E C V Y H P L A Q Y E T V E I E K N I Y W P T V D
UniRef90_R5R890 G S P V H F A E D E V P T I N E A I V R D E E E A E A L K V P S V G D A R T G
UniRef90_UPI00036436B4 D Y G N G A Y T E V V S H P L A G F G S V E E I E R N Y T W P T A D
UniRef90_A5P9L1 G Q N L E F L A G E G P K L S P R L V D A S L E S I T R A P E R Y E
UniRef90_Q64RS0 F G A Q I Q F S E N E V P N V I G R L V S N Y E E V V G L K I P T L D I A R I P
UniRef90_E8TSE9 G A V S A Y R G A A N G A R V V Q P A V L R T E D W R R I A P L D V R Q G S Y G
UniRef90_E4Q6Q0 G C A V S F S L E E V P S V I G P L I E K L D E D V S K L Q I P E S G I K R T R
UniRef90_B8CAQ1 N V K V T M P G G V G I Q V P A P I C G P A D M K E R L P A A E E L N E E R L G
UniRef90_D9QPN5 E L E I H E D E D G R K W Y K D E F G I K W D C T V E D I E N Y P W P D K P
UniRef90_T3DD16 G G E L M F T P R R R K P V K V I R R P I E D I K D V K N L K M P D V D T A P
UniRef90_U2CG17 T A M D T Y G T T Y F P L H G V E T V E E A D A V P F P D P D W F D Y S
UniRef90_R6BAB5 G V T V D Y I E R G G V A K I T S T V H T P E D W L K V K P V S L H E G A L A
UniRef90_Q978V0 G F K V R F E D N V G P L V L N N S D N G F S G I N E F D E A S F N H P V L K
UniRef90_UPI00035E6D22 D P I G N P T P V L S R P S L S G Y R F P D P T N P
UniRef90_A0A024EZ89 G M G L E Y T D H G P Q L G F K L T P E T I G T L G G V I E A V G F M H
UniRef90_D6EBP3 G A E T V V S D D E V P T V V G A L V D E D T D P S G I V V P A V G V K R T G
UniRef90_F7K574 G V V W N R N G A D K D I G V V E K P Q I E D L E G C D Y R F P V C D E A R L R
UniRef90_F4A216 S V Y Q V Y Q G G N T S F R I K H F I E N K D D V K T Y K Y V V Q S R Y Y E P
UniRef90_F5YLG2 G C E V D F S E I E N G G V A K I K T T P I N R A E D F E T I K A L G R K A L D
UniRef90_R1G0H9 G V D F A I S E G G G I T I D P I R T R E A F A K M T A V P F E P E T K I S
UniRef90_UPI00047DED8F D E W G C Y W K K F Y F E L V N P P L A N A T I E D L E T Y I W P D P E D P K R
UniRef90_UPI000372D665 G I T W G I T D F G I P Y P I D G P L I K D P S D L K T Y T P D P E A P H R L Q
UniRef90_U1QFT1 G V G V R I E E G V G P V L D A P V R S A G E V A E L V T H Q F G D E G V G
UniRef90_K6AHM5 G A K V V F P E D E V P S V T E P L V S D K E S I D N L Q I P S L D T A R V P
UniRef90_X5H2T9 G C N I E V K D I G P V I E T I D K V E S L N Y D E F A K K I S
UniRef90_T0LZY4 G Y K L D F N S L I G P K I E N G Y R Y N R N M K G L H E F D P A E L K Y R T Y D
UniRef90_X1KJL7 P R H D K R L P
UniRef90_F0Z5T8 P F G Q Q Y V E K W N G V E Y N S H T I K R P L E Y M E E L M A F R G W N P D
UniRef90_R5TDU7 G S T I R V S D D E V P T V I G S I V S T E E E A E A L K V P E I G A G R T Q
UniRef90_V4T672 G V P F D I E E V R G P V I Q S P I R S E E G L K A L H H I D L E K L Q
UniRef90_F4DJY4 C L S Y D F S P G K I E F S P T P L L F F T P E P E E T F R
UniRef90_UPI0003663F87 G I R K N F R T Y A S T P E I I E W A V K T K E D W L K I K E R L S P D F A P D
UniRef90_X1D5W5 G A K I I Y P K N N A A Y P D P Y N P I L K S A D D Y K N F D K L F N W D K A T
UniRef90_F7KCE6 G V G H E K S P N S M H M T Y M R H P L E D A E D L E D L K Q Y P F D F A H G
UniRef90_X1PWM6 I P E N L L I E K P S M R
UniRef90_F3ZWP7 V S Y S T G T Y R E C I Y H P L A Q Y E T V D E I E A N Y V V P N I D W Y D Y S
UniRef90_U2QDN6 G S Q I R F S D D E V P T V V G A L V E T S A E E V D A L K V P A V G A G R T G
UniRef90_Q2RG09 G A E L I E F P D D A P Q S I R E V I E N W E V P D P K K A D Y T S Q T L D Y L K
UniRef90_M8BT66 G V P F D I S E S K G P V I Q S P V R T E E Q V R E L V P I D L D K L Q
UniRef90_X1HHI4
UniRef90_F0YZV9 K T E T D V Y P V V S Y Y P L S G I E S K S D A E K F I V P D P D W F D

UniRef90_G2FS73 V I L E A I R 130 Q L R N D K I P V I G N V S G H I S T A S S V I D P L E M F
UniRef90_B1M3C5 P V F E T V T R L R A E L P G E T T L L G F C G A P W T V A S S Y M I G G R E G T P
UniRef90_Q8TSF1 A Y K I A D R V K A T R C V E L G E M P A T V Q I G S I F T A A S V V A D T G R E F L
UniRef90_F0YTU2 Y R F N K I V K A M E L F G Q E K C V I J A R V R D V F S Q P P R D L M G D F E D F L
UniRef90_A6L4F2 Q Y L K A N M L A A K T I T D R P V F A G C I G P Y S L A G R L L Y D M S E I M
UniRef90_R7D1L0 E Y L K A N R L A A E H L T E R P V L L A G C I G P Y S L A G R L L Y D M S E I M
UniRef90_UPI000472B429 V T G M K E R A K K L H E E N E Y A L S L R M P C N F E I A C W L R G M S E N F M
UniRef90_M4YPK0 R I R T M L E A A E L A S G H G L F S T A A M T G P L G S A N D I L G M E N V M
UniRef90_UPI00036787A2 D R I L A V E R E M R N R A K N E Y S V M G W V E G P A A E A A D L R G V T D F L
UniRef90_H1Z0S8 N T L S I L V E K L N K I S A G D I P V I S A A V S P F S L P V M Q M G F E G Y L
UniRef90_R9T4I8 V L L E G T K I F A D A L N D E I I T A G F I E G P L L A L S Q S A G A E R L F
UniRef90_F5YDA4 Y S F L K S D L E K A D H D G E H A L V M G N G N I E E S S W Y M L G F E D M F
UniRef90_M4YMR5 K Y V L D V F K S E R A A L P D V M T P A W C E G V L T T S G F L R G I D T L I
UniRef90_Q2RII2 I N L E A I R L I K Q R T D K P V I G S L T G P F T L A G A L C D P A G V A
UniRef90_H1S776 R Q N E A L R A A A R S L R G A V P I L Q T V F S P L T T A R K L S T D R L F
UniRef90_UPI00034F7C71 Y V F Q A I T L T R Q S L A G R V P L I G F A G A P W T L M T Y M I E G G S S K
UniRef90_F5YEM9 T L L K V T K L L A E K V K G E N Y V A L T R W G P F T L A G L L Y G A E N L M
UniRef90_UPI0001585B04 Y V Y K A I T L T R H K L K G R V P L F G F C G A P W T L L C Y M V E G G S K
UniRef90_K0RJ80 H V L E S V R L I R C R M R E S A P W T L L F Y M V G G S S K K N Q G I G M
UniRef90_K0AZM6 R M K T T L E S I L K I L K N D K V P V I G N L V G H V S T A T S I V D P L V I F
UniRef90_A0A009EYU3 Q V L S L I G F S G S P W T L A T Y M V E G G S S K
UniRef90_UPI000367879A P L K Q A L K I L R K D L P S Q V L S L I G F S G A P W T I A C Y M I E G R S S K
UniRef90_A9RDE4 F V G E S L S I L R E E V G D G A A V L G F V G S P W T L A T Y I V E G K T T K
UniRef90_V8YD75 R V P L I G F A G S P W T I A C Y M A E G R S S K
UniRef90_D5E735 T V A N S I G I L L K K E L K D E V F I K G A M L S P L M L A S Q V L E A S S L C
UniRef90_K1LG70 R L R Q A I E H F L N E T H G E V P V R L H F R G P F S M V J A G L I E S E K I L
UniRef90_UPI000371FB23 P V A D S L K I L R S E V G A T H P A I C A Y I T A S T T L P A L L M G M D K W M
UniRef90_C5C5B1 A V R L T V A E L G A T P L I G F A G A P F T L J A A Y L V E G R P S R D H A A R
UniRef90_A9W2T9 P V F E A V E R I R G A L P H I E T T L L G F C G A P W T V A S Y M I G G R G T V
UniRef90_UPI0004770B02 F T G N V I R R L R E T L N E E L P L I G F A G A P L T L A F L L A G E P V L
UniRef90_B8FZ11 E L L R A V A L L K T E L G D S L P I A G V V L G P M S I A S Q L M G L E R L L
UniRef90_M1ZG88 H I L D T L H I L H K E L T V P L I G F A G A P F T I A S Y L T E G K P S R T K
UniRef90_UPI00047EF313 D R V Q A A L L K Q K A A G E R L V E G W I E G P C Q A A N L R G I N R L M
UniRef90_I0I3N8 E H I E L V R L I K E G I Q G A H F V S A R P K T H T Q D A I V Q A Q Y E G L R
UniRef90_F7NFD3 R E L T S L K L L L E K V R Q E V P V L F T V F S P I T I A D K L S G K Q L F R
UniRef90_A0A059LPB1 F V S A A L R L R A E V P A S T A V L G F V G S P W T V G T Y C V I E G G S S K
UniRef90_F8L6G3 F V K S G I Q L L K E E L S V P L I G F C G G P F T V A H Y L F E K K P E K
UniRef90_UPI0003B3867A F T G N V I R R A G A P L T V A F F L I A G E S P I K R G A G I S E K A E P V F
UniRef90_T0FF57 F Q K N A V A L T R K R I P E D R S L I G F I G G P W T L F C Y A T L G K G N L
UniRef90_N1VY65 F Q K E A V L R T R E V L P K D V S L I G F V G G P F T L M T Y A S I G K G N L
UniRef90_F5YJD3 R S L E V S R R I V A L M G D E Y L V S T L F W G P F T L A G L L T G V I E Q L M
UniRef90_D5E740 A S K L A K D K L N K E L G T P F V G F H E G P L L T L T Q L M G A D R V L
UniRef90_L1IT61 H V I D A V K I K K E L D G K V P L I G F S A A P W T L M Y M V G G E N G E
UniRef90_A6P0J2 V M L E A M T K L K A S V G D D I A L Y G L I C G P F T L A S H L R G S E I F L
UniRef90_UPI000255CCA5 A Q C E K Y K D Y A I M T A P G Y S S P G L F R I T Q R L T G R D T F L E T M M
UniRef90_D1CA85 T Q R A M I R A L R D M V G F D V P I I M T V F S P L A E A M Y A A E S R D F L
UniRef90_Q5L510 I K N L V K R L S V P I I A F A A S P F T M A C Y L L E G G A S K
UniRef90_I6YXN0 L M L N R L K L L Q S R I E E N G H K I R F A R G P L N I A S Y L M G T T E F L
UniRef90_V4NGB6 N V G Q T L K L L R S Q L P K E V T L I G F C G G P W T V M T Y M L N G R K A H
UniRef90_T0M3B0 Y S T Y E S I R R I K A S R S S V P V I G F S G G P L T I A S Y L A G G R P T K
UniRef90_K2ANW6 E E I E C I R I M R K E T E G R Y P V I A Y L T S A L T L P C I L M G M E K F K
UniRef90_UPI00047D5CC6 W F D Y S V I P S Q I K G K E Y P V Q G G G S E P F L I Y K N L R G Q E Q A F
UniRef90_R5R890 E C V K G I C E V C E R I T D R P V F A G I T G P Y S L A G R L L D M T E I M
UniRef90_UPI00036436B4 W F D Y A S I A D R L K G C E H Y P L H G G G S E P F L T Y K F L R G Q E Q A F
UniRef90_A5P9L1 P I Y E T V R L C R Q R L P E G V T M L G F A G S P W T V A T Y M V J A G E G S R
UniRef90_Q64RS0 Q Y L E A N R L A A K G L D K P V F G G C I G P Y S L A G R L L D M T E I M
UniRef90_E8TSE9 R Q N E A L A A A A R G L G G R V P L L Q T V F S P L T T A R K M S T E K M F
UniRef90_E4Q6Q0 N V I E V I K K L Q L D I E K P L L G T M I G P F S L A V R L F D M T E L M
UniRef90_B8CAQ1 H V I E S V K L I R T Q M R K E S A P W T L M Y Y M V G G S S K K N T H I G I
UniRef90_D9QPN5 S A I R A G L K K E A K R I Y E E T P L G G G I I Y V P C T W F I G Y Q E F F
UniRef90_T3DD16 S A I R S L K F A K I C V E N G F G S V P S G S P F G G V Q S I L G T E L L L
UniRef90_U2CG17 A V R E V C E K N P D K A I T V G H E G P F Q M V T F L M E M D E F F
UniRef90_R6BAB5 R E Q D Y L K R L L K K T N G E V P V I F T V F S P L T T A N K L C P H M M E
UniRef90_Q978V0 A I S M Y R E M Y R E P L I G F C G S P V T L L S Y L J A G S K T K
UniRef90_UPI00035E6D22 L R Y A H I P G F V E R H Q D T F K L L R E T Y T L F E R A W S L R G M E E F L
UniRef90_A0A024EZ89 F Q K E A V Q A T R A V L P S N K S L I G F V G G P W T L F V Y A V I E G S G S L
UniRef90_D6EBP3 L Y V E A I A K V A P L I D D R P V L A G A I G P F S L A G R L L M D V S E V M
UniRef90_F7K574 L E Y E E L V A C K G D R F T M A G F G F C M F E R S W S L M G M E N V L
UniRef90_F4A216 D Y Q P F I K E Q D Y I G D D G L A T A G P L T P I Q V L L Q D I M G I E G F T
UniRef90_F5YLG2 R E L E Y L S R L M E K I Q N Q A V V F T V F S P L T T V N K L C N G R I L E
UniRef90_R1G0H9 F V G D V L K R L R A T A G T D A T V L G F V G L P F T L G T Y L E G K T G F
UniRef90_UPI00047DED8F Y A G L Q E E M K G V R E T D L A I L A F A G A V F E L A T Y M R G H E R W Y
UniRef90_UPI000372D665 S L R E A V K K F G V R A I V F L T H D G F E F P H Y L R G G E N L L
UniRef90_U1QFT1 A I E E A V R R H S A G A A L W T P V L A F G G A P F T L A A Y L V I E G R P S R
UniRef90_K6AHM5 E Y L K A N R L T A E R V K D K P V F A G C I G P F S L A G R L L F G L S E L M
UniRef90_X5HT9 G T L D A R I T R G L L S K E K K L I G F A G G P W T I A L Y I L E G K T K
UniRef90_T0LZY4 S I R L F R Q N H P G T P I I G F S G G I I T V M S Y V I S G M S D N N L L Y T
UniRef90_X1KJL7 Y L L E A I E Y A Y A T I G D K V P I L A Y V P A P F T G M M L S D P N K F L
UniRef90_F0Z5T8 Y F D Y E A V K R F C D Q H Q G D K A I R I G W P G P Y Q V F L E M Y P A E S F Y
UniRef90_R5TDU7 I Y I D A I E K A C K L I T D R P V L A G V I G P F S L A G R L L D V I S E A L
UniRef90_V4T672 F V G D S L K L R K E V G E H A A V L G F V G A P W T I A T Y I V E G G T T K
UniRef90_F4DJY4 Y L T E A L S T L T S R L S V P L L G F A A S P F T L A S Y L L D G G A S K
UniRef90_UPI0003663F87 Y T R V D W T T Y Q R A R S E D K C L A F C A V V G Y D H L Q S Y V K S E D I L
UniRef90_X1D5W5 R M K N Q L R E T F K E K I P D L L V G G F T I G P L G L S R L R N I N E L I
UniRef90_F7KCE6 E N A H Q K E Q A D A L K K R D L I A V I G N M Q T I W E T A W Y L R G M E N L F
UniRef90_X1PWM6 V V L D A T S I L R R E Y G D R V A I L G K V M G P W T L C Y H L V G V I E D F L
UniRef90_F3ZWP7 D I P N Q L K G K E M Y P V Q A G G S E P F L T Y K D L R G Q E A F
UniRef90_U2QDN6 I Y I E S I E K A M K L I E D R P V F A G V I G P F S L A G R L M D V T E A M
UniRef90_Q2RG09 Y F C K H L P E E P R K K W G F L D G H I F C G G P G E I S G L L I G Y D K F S
UniRef90_M8BT66 F V G E S L K I L R S E S Y C E A A L L G F V G A P W T I A T Y V V E G G N I K
UniRef90_X1HHI4 A Y L R G F E E F M
UniRef90_F0YZV9 Y K S I K E Q C C K Y P D K A I I T G H E G P F Q Q V T C L M N M E E F F

UniRef90_G2FS73 K M L R R D P E R A A S F L T F I N D Y L V K Y A L E M V K A G A D V I S I S D
UniRef90_B1M3C5 D L A P A R T A L V D T L I D R L V A V Q T E Y L V R Q L E A G A D A V Q L I F E
UniRef90_Q8TSF1 A W L T M E P K A V H R L L L D K V S E M F V N A L D Y F A D K Y G S E P F D G G
UniRef90_F0YTU2 A G F Y E E P E L V Q R L L M E M S V S E Y S S R I C E N L V E L G I E V I V V G D
UniRef90_A6L4F2 M L I Y I N P E A A N S L L K K C S D F I L R Y C M A L K A T G V N G V V M A E E
UniRef90_R7D1L0 M L I Y I N P D A A R M L L A K C S E F L T N Y C L A L K E A G A N G V I M A E E
UniRef90_UPI000472B429 V D T I T D P E F A H A L I E K I L K V Q I E M Y G Y L L D Q V G E Y I D I V E
UniRef90_M4YPK0 M A L M M D E S V V K S W V A A L K P H A M A Y A E A L S S R C D N V L I I E E
UniRef90_UPI00036787A2 M D L L V Q P D Y V N E L M S F C N V D T A I N F A L A Q L K E G A D T I G L G D
UniRef90_H1Z0S8 D L I Y S G S P L F D K L M K F C I G I S W A N A L F D A G A T A V A Y F D
UniRef90_R9T4I8 M D M F T N P S A V H K A L E V M T E Y D A Q M I E G F A K T G V K G L C W D Y
UniRef90_F5YDA4 A L L L T D P D L A W K L L E K V D F F C A Y F E R A L T A R I D I A F T A D
UniRef90_M4YMR5 L M L L T E P D E A K K V I R R G A D F S R D L V S A Q L E V D A D Y V V Y T D
UniRef90_Q2RII2 M K T I T D P E F L H A L L A F C T R A L K R Y G E A L L A A G A D I L W I S E
UniRef90_H1S776 A D L R C E P D A L S H A A L R V I T D T T I Q F A L D S L E A G A H G V F F A T E
UniRef90_UPI00034F7C71 R W L Y Q R P Q A S H Q L L R L L T D A V V P Y L I G Q V V V A G A Q A L Q L F E
UniRef90_F5YEM9 R D I Y R N P D S V R H I L L D F T A D L Y L K Y A Q L Y I D N G V D F F L L A E
UniRef90_UPI0001585B04 T W V Y R Y P E A S K A L L D Q K I A E V C V E Y L A L Q V K A G A Q L V Q V F D
UniRef90_K0RJ80 E W L H E S D A S A E L L D L L T T I V I E Y M S A Q V D N G A H M L Q L F E
UniRef90_K0AZM6 K K I K K D P E K V Y D F F K F V N N L L I K F A D E M I K A G A D A I A I S D
UniRef90_A0A009EYU3 D M M Y A Q P E V L H A L L E R L A D A V T E Y L N A Q I L D A G A Q A V I F D
UniRef90_UPI000367879A D F L W N S N K W F M E L I E T L T M Y I I D K L E M Q A K A G A D I L M I F D
UniRef90_A9RDE4 S M T H Q Q P E L L K S I L S H L A N E I A E Y V J F Q V K A G A Q C I Q I F D
UniRef90_V8YD75 S M L Y G R P D L L H R I L L E L N A E A T R H Y L N A Q I D A G A Q A V M L F D
UniRef90_D5E735 I E M L T E K E N V H E L L E R L T Q S C I L Y A D R L I E E G V D G I F V E N
UniRef90_K1LG70 R G M R R D P E G L H A A L A Y T T Q L A T Q L V E C F S D L A P I I Y N I S D
UniRef90_UPI000371FB23 E F L L G P F D V R D E L L R K C S D F V Q K E I A A L R A F G A N V L I Y S T
UniRef90_C5C5B1 T M M H A D P E A W D A L L R G W A E I S G A F L R A Q V M A G A S A V Q L F D
UniRef90_A9W2T9 D L A P A Q T E Y L V R Q L R A G A D V V Q I F E S H A G V L P A L L E R H A G V
UniRef90_UPI0004770B02 Q M M E E A P E L L H R I L L N K L G T E M T I N Y L N Y Q I S E G V Q I V Q L F E
UniRef90_B8FZ11 Y L L L D S P C E F A D I I R F A S L G T T L K A G L A L L A Q G A H I S A V I D
UniRef90_M1ZG88 E M M Y G A K E V W E A L M E R L T E M V S S Y L R A Q I L A G A D A V I Q L F D
UniRef90_UPI00047EF313 L D F S D D P V F V Q D L L E F I V E L E L P F A R A Q K D A G A H I M G V I G D
UniRef90_I0I3N8 R L L D E N P Q G V H A A L E N I A V T L L A R Y A A A V V E A G A S G I F F A I
UniRef90_F7NFD3 H I A E G H G A A V H K A L K V I A E T T A N L A R E A I R L G A D G I F L A S
UniRef90_A0A059LPB1 S M A L S E P A T L H R I L L Q N I L A R A M A Y A C F Q A A S G A D Y L M I F D
UniRef90_F8L6G3 M L H Q D P P K G F R A L L E M I T D A S L A Y L K M Q I D A G V H A I Q I F D
UniRef90_UPI0003B3867A R M I Q E T P E L M H R L L N K L T Q M T V N Y L N Y Q I S E G A Q I V Q L F E
UniRef90_T0FF57 I L P K V S P V L R E G F Y K K L L P L L R E N I R L Q L E G G A E V M I F D
UniRef90_N1VY65 S F I K T N Q N F V Q F Y S L L V P L L K E N I E L Q L Q G G A E V V M I F D
UniRef90_F5YJD3 R K C L R D K E A V R A L L D F C V E L I K V C N E E T I G L G M G M G L A E
UniRef90_D5E740 M D M K T N P D V L V L E A L Q K C T D Y V C Q V S E A F F E E D A C D A L C V D
UniRef90_L1IT61 R W L K E H P V E S Q K L D L L T S T V I D Y M S A Q V K
UniRef90_A6P0J2 D M L M D E Q Y V R D L V S Y C A E A S I R M C D Y I N A G M D V I A V V D
UniRef90_UPI000255CCA5 Y N P R F N V L V E K V K S F Y L A F I H E F F S V T G N N V D L I R I A D D
UniRef90_D1CA85 R H L Q E H P T F V H Q A L A T Y A Q N L R A H I Q D C I D A G A D G V F F A L
UniRef90_Q5L510 D F L Y Q H P E R F D A L L K Q L A E A T V I Y L K E Q I D A G A S A I Q L F E
UniRef90_I6YXN0 T T M M M T P G K A H V L R K I T D F L K D W L D L Q R K T F P S I D G I F L
UniRef90_V4NGB6 D F V Y E Q P D L V A K V M D V V T E A S A Q Y L K M Q A D A G A Q V L K I F E
UniRef90_T0M3B0 K L I F S G D P G F L R L M Q M V T D M V T E N A L S Q W K S G A D A I Q I F D
UniRef90_K2ANW6 L L L F G P A E L R D E L L N K C C E F F R K H L A A Y K A G A D V F L Y S E
UniRef90_UPI00047D5CC6 I D L L L Y P D I V E Y C L D K L F D F C Y E N T R I Y E Q I F S Y I A E D M
UniRef90_R5R890 I L C Y E E P E M V E T V L E K V T E F L I E Y A K A F K E A G A N G V V M A E
UniRef90_UPI00036436B4 D D L L T H P E I V H Y C L G K L F E L A Y Q N T L R I Y E V M M T C V A E D M
UniRef90_A5P9L1 D Q A Y R D P G E L Q A I L D T I A E Q T I T Y L S G Q I E A G A E A V Q L F D
UniRef90_Q64RS0 M A I Y T E P E T A L L L L D K C T R F I T Q Y C R A I K D C G S A G V I A E
UniRef90_E8TSE9 A D L R C F P D E L E R A L M V I T E V T L R F A L D A L A L G A H G V F F A T
UniRef90_E4Q6Q0 I S L M L E P E K V H M L L E V C T E Y L R W Y A N A L K T A G A N G I L I A E
UniRef90_B8CAQ1 E W L N E H P E A S T K L M D M L T T V V T E Y M S E Q V K A G A H M L Q L F E
UniRef90_D9QPN5 M K L V M E P E I V E A L L R E K I V D F H L G W M M V L E E F G E Y L Q D D L
UniRef90_T3DD16 K S L R K D P E V I H H L L R M V T D Y M L A T T K S I D T F K I S T F S A Y
UniRef90_U2CG17 M L M L D E P E T A Q R I L D R M N E F E M E Y Y R R I F E A G E G K V D I L R
UniRef90_R6BAB5 H I A S G H G E Q V K A A L T A I T E T T C A L V Q R V I E L G A D G I F F A T
UniRef90_Q978V0 R L M L T D P S K Y K E I S T L L T D A S V K Y A K L Q I K K G V D A F Q L F D
UniRef90_UPI00035E6D22 S D M V M H Q D F V E D L L D A I T S F H L E V I D R A L D L G L D G V L F G D
UniRef90_A0A024EZ89 I Q S K K L A P M F P Q F L E K M Y P L L K E N I R L Q L E G G V E I V M I F D
UniRef90_D6EBP3 V M C Y E E P E L V H A V L E K A E F V A A Y A D A F R A A G A D G V V L A E
UniRef90_F7K574 M S M I I C P E E L E R L Y D Q I C D Y F C G L V D I A L E Y D I D G V Y F G D
UniRef90_F4A2I6 Y A V A D Y P D E M H D L M E A M H K S N L E C Y K V M A E I I T V Y E D T
UniRef90_F5YLG2 F I K A G V G K S V H K A L E E I T E V T K L V E S I T K G A S G I F F V S
UniRef90_R1G0H9 A A M R Q L R E L V A D M L K L L G D R I A Q Y A I Y Q I D S G A Q V V Q V F D
UniRef90_UPI00047DED8F R D I V N N Q E F A H A L M D K I C Q L Q K R T N E V I M A E V G E Y V G E D L
UniRef90_UPI000372D665 L D Y Y D N P R L A H E L A E M V I D Y K R L M R R A I R E G A D A V V S G D
UniRef90_U1QFT1 D H M R A D P E A W D R L M T W C A R L T G E F I A T Q V R A G A A A Q L F D
UniRef90_K6AHM5 I A L Y V E P E N I T V L L E K C T R F I T D Y C R A I K E T G V H G V I M A E
UniRef90_X5H2T9 S F I N K R Y S D F K N I L D L L T D A T I S Y L K K Q I E C G A D I I Q I F E
UniRef90_T0LZY4 K Q V M L N D N Y F A T M K K M I K N M I I D Y V K I Q I N A G V D A I Q I F D
UniRef90_X1KJL7 I Q T L K Q P G T I F E L L E I S L K V T I E F C Y H I I N A G G L P I V D
UniRef90_F0Z5T8 M L M A E D P E M V K T M L N R Y S E F Y L E Y E R M F E A D L I R P C D D Y
UniRef90_R5TDU7 I Y C Y D E P D M V H I V L Q K V T E F L I N Y C N E Y K K V G A N G I V M A E
UniRef90_V4T672 S M F H T A P H V L R T L L S H L T Q A I A D Y I T Y Q V E S G A H C I Q I F D
UniRef90_F4DJY4 D F L Y R Y P E K F Q E L L D T L L N S T A I Y L E L Q V R A G A S A V Q L F E
UniRef90_UPI0003663F87 V M M I E D P D W F R D M V E T T T E L V L R V A K L I I E D A G Y T F F N D M
UniRef90_X1D5W5 R D F V H N K D K L H E A L D L V T E I Q L E F V E K Q L E A G A Q V I M V P V
UniRef90_F7KCE6 C D M M A E D T A E F L L D K V L E I S M I R A R S Y A E A G V D V I Y F G D
UniRef90_X1PWM6 I M T V L E P D K V R A L D A L I P V T V A Y A N A Q L Q A G A D V V T L P D
UniRef90_F3ZWP7 M D L L L H P D I V H Y C L D K L F D F C Y E N T C R I Y E V T Y S Y I A E D M
UniRef90_U2QDN6 I Y C Y E P E M V S A L M D K V T E F L I A Y C S A Y K E V G A N G V V L A E
UniRef90_Q2RG09 Y A M Y D Y P Q L V H I L L R K V T D F I K S Y I D A Q I E I V G E P K R V I I
UniRef90_M8BT66 R M C H T A P N V L R G L L S H L A E A I L S D Y I T Y Q V N S G A Q C I Q I F D
UniRef90_X1HHI4 Q D L M V N R K F A E A L D L R L V E A N I E Y A K R Y L D A V N N Y Q I D I
UniRef90_F0YZV9 V L M L I E P E V A K Y I L D K M V A F E L E Y Y K R I F E A A E G R I D L L R

UniRef90_G2FS73 P T A T G E I L L G P 210 P R N F Q K F A L L P Y Y H K I T N A L H T E G I P H I C G N A
UniRef90_B1M3C5 S H A A A A D A L T R W S L R P I A R M V A G V R A R V L P G A K I I V F A R G S
UniRef90_Q8TSF1 P S E S N M L I S P D M F E E F A Y P Y M K K V H T R V K E L G I H A V L M H P
UniRef90_F0YTU2 D N N Q A L L M N S P D M Y R E Q V L P P H F E R L V K K L G L K V I K H S D G D L
UniRef90_A6L4F2 P A A G L L S D E D C Q Y S S V F I K E I V E K V Q D D H F T V I L H N C G N T
UniRef90_R7D1L0 P A A G L L S N E D Q Q Y S S E F V K D I L A K V Q D E R F A V I L H N C G N M
UniRef90_UPI000472B429 S G D D Y G S Q Q P D A Y R E F I V P A R K K L N K A I R Q K I Y L H S C G A I
UniRef90_M4YPK0 I T T D L T P A E Y F E S I T A S P L K D V I K S A R S Y C S I H C G S T
UniRef90_UPI00036787A2 A I A S Q V S P E T R D L F P H E Y R L M K A I K E A G G F V R L H I C G N T
UniRef90_H1Z0S8 P L A S P D I I D S E L F R R T G L L T A K R V I S K V K G P M A V H L A S G R
UniRef90_R9T4I8 L W G N Y A V L G D V E Y H E F E A D K Y A S K L N K M G M A M C L H N C A D L
UniRef90_F5YDA4 D I G Q M S L P L W E I L K P H H V R L N K L L H S F G V K V M Y H I C G A V
UniRef90_M4YMR5 P V S S A D M I D D V M F R E F N L D L H R N I T H W K N K Y M L H I C G D T
UniRef90_Q2RII2 P L G S L L S P A Q F W Q F S G R Y I Q E T F A A F P A M D I L H I C G D T
UniRef90_H1S776 Q L A S S R M L T T Q E Y E R F G R R Y D L E V L A A R V G H A Q L N M L H A H
UniRef90_UPI000347C71 S H A G H L G P Q E L F N M F A L P Y I R D V A K R V K P V M I I F A K D G
UniRef90_F5YEM9 P T T S G D M I S R K H F E T F A V P A F K K V F T E L R K K R V L H I C G N T
UniRef90_UPI0001585B04 S W
UniRef90_K0RJ80 A M G M M I E P A E F D K F A L L P C L E K I A T E L K S R H L M V F S R G A
UniRef90_K0AZM6 P T S T G E I L L G T K N F E K F S V P F Y K E L I N F I H D K N I L H I C G D V
UniRef90_A0A009EYU3 S W G G A L A H R E Y I E F S L N Y M K K I V A G L R K I P V I L F T K G G
UniRef90_UPI000367879A S W S H M I P N N F F K E M A L N P T K K I I N V L R S K N I V P I G L P
UniRef90_A9RDE4 S W G G Q L P P H Q W D Q W S K P Y I Q Q L V A K V R D A C L V M Y I N G N
UniRef90_V8YD75 S W G G V L A D G L F Q F S L A Y T R R V V E G L R R V P V I V F T K G G
UniRef90_D5E735 G E N T A D L F S P D M A E E F M L P Y T K Q L Y D H I Q D N G I V I T S H N C
UniRef90_K1LG70 P V A S G S L I S H K Q Y E A F A F P Y T Q Q L V E T L H Q Q N H L H I C G N T
UniRef90_UPI000371FB23 P F G S P Y F V S R K Q I A E H V Q R Y S A R T L D A V A D L G V P M V H F G T G T
UniRef90_C5C5B1 S W A G S L G R A D Y A A Q V Q R Y S A R T L D A V A D L G V P M V H F G T G T
UniRef90_A9W2T9 L P E S S D G D A L K R Y S L G P I T R M V Q G V R Q V P D A K I I V F A K G S
UniRef90_UPI0004770B02 S I A D V L L P R Q I Y E E F A F P Y H Q Q I F A E L N P E S P G I L F A K E
UniRef90_B8FZ11 P S A S Q S I L P S E M F G R Y L L P T I R D I F S Q F K M A S W L V I T G N S
UniRef90_M1ZG88 S W V G A L S P K D Y T R Y V L P Y I R R I F I S L
UniRef90_UPI00047EF313 P A S S L V L T P A E F A N Q L L Y P A Q K K L V D G L K A M G L R H M C G N T
UniRef90_I0I3N8 V K L A R E V L G R E E Y A T F G K V Y D L L A A V Q G F N L L H V C G P A
UniRef90_F7NFD3 Q L S T Y N A M H P S D Y M E Y G K P Y D L T V F E G A E A G W F N T I H A H G
UniRef90_A0A059LPB1 S W G G H L S P R A W D K W S A P Y L R H V I Q A V K K S H V C L F V N G G S
UniRef90_F8L6G3 S W A G T L P R A E L E E F V L P T L K K L T G A L N V P T L I F S R G S
UniRef90_UPI0003B3867A S I A D V L P R H L Y A D F A F P Y H Q Q I F A E L N P E T P S I L F A K E
UniRef90_T0FF57 T A G G D A S P G Y F M D A I F P L R E L V E A F P E K I G Y Y A K G I P
UniRef90_N1YV65 T A A G M L D P Y N F Q R Y V T G P I K E F A K L Y P K Q I G Y Y A K N S T
UniRef90_F5YJD3 P T A S G D M I S R K V F E E F A L P Y L K K V Y D W Y R A K K L I H I C G D I
UniRef90_D5E740 N W S N N I I M D E E D Y W K F D G K F V Y D Q H I P V D Q Y I I H N C A D A
UniRef90_L1IT61
UniRef90_A6P0J2 P L V S Q I A P E S F D A M L A D S F K A V F D Y I R S R G V F F V C G N A
UniRef90_UPI000255CCA5 S G L I S Q D T W E N Y C K P A I E Q F T K F P S E L G V K F Y M H S C G G V
UniRef90_D1CA85 Q G C T S A I M S R E L Y R P A T R P Y D L L A L Q S G A G W L N V L H V H G D R
UniRef90_Q5L510 S S S L R L P S A L F S R Y V T R P N T Q L I T Q L K N S P I S L F C R C F
UniRef90_I6YXN0 L D D I I G F M G E P E F K E F G L P Y F K E L E N T D V S V K F L H N D A P C
UniRef90_V4NGB6 S W A E G F P D P L F D Q L V I V P H Q R L I K R V R D L P I I G F P R G A
UniRef90_T0M3B0 S W A G Y L S P R Q L S I Y S E R Y L E Q I T S A I G N I P V I Y F S T Q T
UniRef90_K2ANW6 A F G S T D F V P M K M F R E F C L P W L E K D L E G V D P Q G M V Y Y C G S S
UniRef90_UPI00047D5CC6 G A E I D L M Y S P D Q I R R F L L P R M K R M I D L A H E A G V Y A F H N D
UniRef90_R5R890 P A A G L L S P A M E E F S N P Y V K K I R E A V E D D S F V V M Y H N C G N T
UniRef90_UPI00036436B4 G S Q E N L M F S P E Q I R F L L P G M K R M I E L V R G Y V F H S S D G A V
UniRef90_A5P9L1 S W A G S P N E F E R W V I A P N A R I V A A L A E L H P D T P V I G F P G S G
UniRef90_Q64RS0 P A A G L L S N E D C M Y S S V F V K R I V E E V Q D S H F A V I L H N C G N M
UniRef90_E8TSE9 Q Q A S H R L L S T A E Y E R F S G K R Y D L M V E E A L R D K A R F N M L H A H
UniRef90_E4Q6Q0 P A A G L L S P Q C L E F S S N Y I K E I V K S V Q D E S F S V F C G N T
UniRef90_B8CAQ1 A M G M M E P N F N K F A M P A L E K I S K E L K S R Y P D V P L M V F A R G A
UniRef90_D9QPN5 G T Q E A P L I M R S S M Y R E Q I K P A Q E K V V S F I K V K V V Y H C G D A V
UniRef90_T3DD16 P M E S H G I S S K D F E R F S I P Y D I Y Q A W G I K K W I V H L C G D H K
UniRef90_U2CG17 P H D D Y S I D M W R Q F Y K E N T K K L V N L A H E Y G A F Y Q Q H S C G A V
UniRef90_R6BAB5 Q L S S Y D L V K E D L Y K E Y G M P Y D I A V L S A S Q G W C N V L H A H G K
UniRef90_Q978V0 S W A G Y L S P R Q Y K E F A V P Y I N D I L S E I A G K V P T I I Y F S T M
UniRef90_UPI00035E6D22 D W G W Q L I M G P K L W R K Y I K P R M A E M I A L V R K K G F L H C C G K V
UniRef90_A0A024EZ89 T A A G E V S P L F F Q S W L Q P V L A R L S Q D Y P G K I G Y Y S K G T Q
UniRef90_D6EBP3 P L A G L L S P D A E E F Q A V Y R R I V K E V Q T D S F A V Y H N C G G G
UniRef90_F7K574 D W G Q M G P D H W R R F I K P R M G R L Y E R V K K K G K Y I V Q H S C G D C
UniRef90_F4A2I6 S T T V M S P R W F D M Y C T D E Y L N Q Y A D V L H K A G K I Y L S H M C G K L
UniRef90_F5YLG2 Q M G N Y N I M T E E L Y R E Y G K T Y D E E I K A S K G W C N V I H A H G E
UniRef90_R1G0H9 S W A G H L T P D E F D E W A A P F Q R Q V V G A I K A A R P D T P V I I Y
UniRef90_UPI00047DED8F G M Q D R P L M S P K T F K K V V K P H L K E H F E H A K K K M L H S C G A I
UniRef90_UPI000372D665 D Y Q H G T V M S P Q H F R Q V V L P Y L K R S I D A A H D E G V P F I D G N I
UniRef90_U1QFT1 S W A G S L S P R A Y R E R V A P Y S A L C P L I T G R A A P L I H F G T G T
UniRef90_K6AHM5 P A A G L L S N E D S L Y S T T Y V R Q V V E A V Q D E H F I V I L H N C G N A
UniRef90_X5H2T9 S F A S A S F T E F E E I I E P T K K I V S S I D V I V I G F P K G A G
UniRef90_T0LZY4 S W L G A L S P Y T F E K H L K N D V I E L V E D I K R V P L I Y F S T G T
UniRef90_X1KJL7 P L A S S S V I S P R A Y K T F A L P Y E Q K L I D F L H R Y D I L H I C G E T
UniRef90_F0Z5T8 G T Q I S L L F S P E M W D E Y F A E N T K K L V H K Y G C Y Y L Q H S C G A V
UniRef90_R5TDU7 P L A G L L S P D A Q E F S A D Y V K Q I V D A V Q D D N F L V V Y H N C G N T
UniRef90_V4T672 S W G G Q L P P H M W E Q W S E P Y L R E I V S L V R T K C I V L Y I N G N
UniRef90_F4DJY4 S S S L R L P S A L F S Q Y V T E P N K A L I A K L K E K Q I P V S L F C R
UniRef90_UPI0003663F87 G Y R N G P L F S P K L Y R D L I M P F D K M L C D Y F H M P V I Y H T D G D V
UniRef90_X1D5W5 V L A G E R E L M S K E M W E L D A P Y Q Q R I A K F V K
UniRef90_F7KCE6 D I G M Q M M S E E L Y C R W L K P R L T R L V D M V K A I N F Y H S C G F I
UniRef90_X1PWM6 H A T G N M V I S P K T Y A E F L V P L H Q K M L P Q I G G P T I L H V C G R C
UniRef90_F3ZWP7 G S E K D L M Y S P A Q I H E F L I P R M K R M I D L A H Q A G A Y A F H H S D
UniRef90_U2QDN6 P L A G L L S P A A E F S A P Y V K K I V E A V Q S D D F L V V Y H N C G N A
UniRef90_Q2RG09 W D H I P G M L S R E L F D E F I H P Y M K E V E T H V I E K A T L R I Y H N E N
UniRef90_M8BT66 S W G G Q L P P H V W E Q W S K P Y I R Q I V A K I K T E C P H I Y I N G N
UniRef90_X1HHI4 G T Q Q G P V M D P D L Y R E I K P R Q E R L W R F L K S F I P V S L F C R
UniRef90_F0YZV9 P H D D Y S V D M W R E F F E E N T K K L V D L A H Q Y D V F Y Q Q H S C G A V

UniRef90_G2FS73 T N L I G S L N E V N A N A V S F D S 250 260 270 280 K T G L M G
UniRef90_B1M3C5 G G H A R V V P E T G A D A V G V D W G V D L K A L R Q T V P A A T V T Q G N L
UniRef90_Q8TSF1 C A N Q N L N I P Y Y V K L R E E M N W A G K Y L W D Q I K A F G S R H D V I C G
UniRef90_F0YTU2 N S V M E D L V N T Y G L D C L R E P I D A R G N M D A L K E K Y G S R I A F K G N
UniRef90_A6L4F2 G H C T K A M V A T G A A A Y H F G N K I D M V E A L K E V P A D A L A M G N
UniRef90_R7D1L0 G N C T K A M V A T G A G A M Y H F G N K I D M V E A L K E V P S D A L A M G N
UniRef90_UPI000472B429 A D I I E D L I D C G V D L G N V Q I T S M D P V T L K D K F G D R I C F H G A
UniRef90_M4YPK0 I E V A D K V S S L G E D A L S P Q A S D C M E E Y V D L V N G R T R I L L G S
UniRef90_UPI00036787A2 R H L L P V Y W K D L P C D V Y G L D W Y V P L K E A R E I L G N N A V L V T N
UniRef90_H1Z0S8 A L P A V G Y I S E T G C V G I G V S A F D D L A A V K E A C Y G N K M T V M G N
UniRef90_R9T4I8 P H L N T Q I K E Y K P S I Y S M A Y Y P L I S D A D N C L I A G Q I D P Q V F
UniRef90_F5YDA4 M D A I D G L T D M G I D V F E A L Q F D M D P V L L K N N W R H K L C F H G G
UniRef90_M4YMR5 T P M L K D F A K T G A E V M S L D H K V N L K T A K A D F G G K L A V M G N
UniRef90_Q2RII2 S Y M I K E M L A T G A Q G L S L D S R V S L P V L A T Q M P E D V L V I G N
UniRef90_H1S776 G D D I M F D A T Y P V D M F N W H D R L T Q P G L E A A A A R F T R L V I G G
UniRef90_UPI000347C71 H F A L E L A Q S G Y E V L G V L D W T V A P K K A R D L F T G K M V T L Q
UniRef90_F5YEM9 E N R L D L L A D I T G A E L I S V D Y K V S L K K C R D T F D G K I A F A G N
UniRef90_UPI0001585B04 S F A N E K L S E L G Y D V V T I D G G V D R S T A R D V V I G G R T G L Q G N Y
UniRef90_K0RJ80 N N I T D G L S T V G A D A L S F D S C V N M R F A K S K I S T K L M G
UniRef90_K0AZM6 G Q W L E P M V A T G A D A F G L D W T T P L N V A R Q T V A G R A A L Q G N
UniRef90_A0A009EYU3 F K A G T S P L V D Y S Y E V D C I A L D W T V N I D W A I K N L N P S V A I Q G
UniRef90_UPI000367879A G G L L E R M A T V D V D V I G L D W T I D M A D G R R R L G D S I A V Q
UniRef90_A9RDE4 G Q W L E E I E A A C G C D A V G L D W T V N L G A A R R R V T D A V A L Q
UniRef90_V8YD75 A E H A F I E M E A S L K T K I H K W A G C S P R Y C F K E L E K H G I C L M G
UniRef90_D5E735 E R A L P L I Q Q T G V D A F S M D Q V V D V A K A F E M T D H Q L L M G N
UniRef90_K1LG70 P F N D V I D L V F D L H I K T H I L S P L A D I A E A K R L I N T R G L T C G
UniRef90_UPI000371FB23 S D L D V I L R D A I L P A G S P G T G P A V V G V D H R I G L D E A N R L I G G
UniRef90_C5C5B1 G G H A R V V P E T G A S A V G V D W G V D L A A L R A R V P A S T V T Q G N L
UniRef90_A9W2T9 C N Y L D L M H Q S G A D V L S V G K C V D L S K A K V N T N G A V A F Q G
UniRef90_UPI0004770B02 Q G L L P Y Y R Q C G V D I A G I D Y E V P L A E A L K W E G D F L I S G
UniRef90_B8FZ11 R R I L N A R G Q L G Y D I V D L S M V P M A E A R A Q M P G Q V L L G N
UniRef90_M1ZG88 V Y F D L V A D Y P V H A I V N W A S V N Q R N P T I A E A R H Q I D K A L I G G
UniRef90_UPI00047EF313 D N I M L E V L R D Y P V A A F N W H A W E T L P A L D E A R V L T G K C L M G
UniRef90_I03N8 A G L L E R M K G C G A D V V G L D S F G R D M A D A R R R L G A A Q P V Q G
UniRef90_F7NFD3 A F Y V Q E F L S V G A D G I S F D A G R P L A E I R K E V P K Q I A V Q G
UniRef90_A0A059LPB1 C D Y L D L M H Q S G A G V L S I G K C V D L S K A K A E T D G T V A F Q G
UniRef90_UPI0003B3867A S Q S L E S I R S L V G L A G F G V D H R V E L T E L F G K R K Q F I Q N
UniRef90_T0FF57 E E Q V R Q I H E I P N L A G F G V D H R F S I Q Q T L K D F G G K G F I Q G
UniRef90_N1VY65 T N R L D L I P E T G T H V L S L D Y K V S M K T A A E T L G D K L V I A G N
UniRef90_F5YJD3 V H F D T Q I K K F G T A L F S Y A Y Y E S E R E K G S Q N Y Y G D M C C M M G
UniRef90_D5E740 T P Q L E V M C K T N P D S I A V D E N V D F V Y G K S V S D K Y N I A I S G N
UniRef90_UPI000255CCA5 R K L V P D F I L S L G A D V L D P I Q R T R M A P E G L K A R D F G N M I T F S G G
UniRef90_D1CA85 D L F V D D V L D Y P V Q V L S W S D R L A G P S L R E A R T K T S K C L M G G
UniRef90_Q5L510 D E N F I D L Y S T G A D T L H P D Y H V N L S Q I Y T A V T H P G S L Q G N I
UniRef90_I6YXN0 K V S A P F L N E M G V N M F N M G I D V S L T E L K E L T E N K I T I V I G N
UniRef90_V4NGB6 E A R C M D Y V V A V E V Q G M A L G T A T P L K L G Q E I Q K L P I Q G A L
UniRef90_T0M3B0 G S M H Q I L S T A G F N F L S L D W R V E L S E V G R S I S E V G L Q G N L D
UniRef90_K2ANW6 R L N P V I D A I L E R T R I E A F Y P G P L D D A A E S R I L N D R A L F A G
UniRef90_UPI00047D5CC6 G A I R K I V P D D I L N P Q W R C N G M D R E G L K R D F G D K I F H G G
UniRef90_R5R890 E P L L E Q I K E V D A K A Y S F G N A I D I E K A L E V I P Q D R L V I G N
UniRef90_UPI00036436B4 R E I L P A M I E L G I D V L N P I Q W R C R G M E R K R D F G Q R L I F H G G
UniRef90_A5P9L1 E K L P V Y A R E T G V K A V G V D E T L D P A W V A R Q L P A G M A V Q G N L
UniRef90_Q64RS0 G Q C T Q A M V A T G A K G Y H F G N K I D M L J A L E E C P S N A L V M G N
UniRef90_E8TSE9 G D D I M F D S D Y P A E M F N W H D R L D T P T I A Q A A E R F P R R L V I G G
UniRef90_E4Q6Q0 Q N L V E S M L E T E C M G F H F G N C V D L C K I I K R V P Q N K L V F G N
UniRef90_B8CAQ1 S F A N E Q L S K L G Y D V V T I D G S V D R S T A R A G L Q G N Y D P R E L I
UniRef90_D9QPN5 S E F I P D M L D I G F D A L N P V I Q V S A E G M G D T A R L K E E F F W G A T
UniRef90_T3DD16 E N L K Y W T N E L K L P S R T V F T L G Y E M D M R E T A E I L G D E Y I I G
UniRef90_U2CG17 G P L I P E F I E C G V D A P V Q K V K G L E V I T L A E K Y N G K I V F H G G
UniRef90_R6BAB5 H I M F P L L R K Y P V Q I F N W H A W E S L P G I H E A Q V M T G K C I M A G
UniRef90_Q978V0 T S S F V F Q S G I I S D F I S V D W R V E M D K V V K E S G D Y G L Q G
UniRef90_UPI00035E6D22 Q E I F P D L V E I G L H V F N P F Q P E M D I F A L K E E Y R G K L A F W G G
UniRef90_A0A024EZ89 A V F F N P W A G Q G F D H R N Y L P D C F N L Q N K G F V I Q G N F D Q S L L F
UniRef90_D6EBP3 V P K M M D S I V D T G A A F H F G N A I S M A D V M P L V P A R D V J A M G N
UniRef90_F7K574 H E I F P D L I E T G L D C Y Q T F Q P I Y D I E K M K D L Y G G K L A F W G G
UniRef90_F4A216 K G M R Y Q V A N L T V D G V I C P P T T G D T W A H E A L E M W P G K V I I G
UniRef90_F5YLG2 Q I M Y T V F K D Y P G E I L N Y H V T W E S P P A I E A M K S G K C I L G G R
UniRef90_R1G0H9 M A P D T H S K E S G A N V S V D H T L P I S A R E L L A G Y E S V G L Q G
UniRef90_UPI00047DED8F K P F I A D L T D C G V D V L D P V I Q P N M D R Y E L K K E F G N D M V F H G N
UniRef90_UPI000372D665 W A I L D D L V Q A G I D A L D P I E P A A R M D E V K A K Y G D R I A V I G N
UniRef90_U1QFT1 A R L L G H M R Q A G A D T V G I D E R I E L G E A I E E L A G A D P Q A G A C
UniRef90_K6AHM5 G H C T E A M V I Q S G A A I L H F G N K I D M Q D A L A N C P E D R L V M G N
UniRef90_X5H2T9 A S Y L N Y V R D T S V D I S T D Y K I S L D W I V Q N L Q Q Y A T I Q G N L
UniRef90_T0LZY4 T G M L D Q F N D I K P D I L S V D W R T K L G D A R K I L N Q G I G L Q
UniRef90_X1KJL7 E P I L D L L P D T G A D L I S L D K V D I S L A L D R L S N K M R I V G
UniRef90_F0Z5T8 R Q I L P N L I A C G V D G L E P I Q K V K G M E V D K R E F G D K L C F Q G G
UniRef90_R5TDU7 A V K T I D T I V T N G C L M Y H F G N A I N M A E M M S H V P E N L I A M G N
UniRef90_V4T672 G G F L E R M K G T G V D V I G L D W T V D M A D G R K R L G N D I S V Q G N V
UniRef90_F4DJY4 C F E E N F S K L L D T Q A D T L H P D Y H I D L A R F A K V A P K G L S F Q G
UniRef90_UPI0003663F87 R L L E T P Y L I E A G I D C L Q P L E A K A N M D V R E K K Q Y G D R L A F M G
UniRef90_X1D5W5 E P F I P H L I E A G I D V L N P I Q E C M D F K E I C R Q Y G D R I S F H G T
UniRef90_F7KCE6 V D R I P L I I T E G Y D A W H F E W V N D P E K A V E L A R G E I S L L I G G
UniRef90_X1PWM6 G S I R K L L P D M V K A G I D I L N P I Q W K C A G M D R F G D K L V F H G G
UniRef90_F3ZWP7 A I Q M I D S I L D T G A A M F H F G N A I S M K E M L E H I P A D K I A M G N
UniRef90_U2QDN6 N Y P H L L D L M R D I P A N V C H I I G P K H D L V I E S K R V L K K C V M G N V
UniRef90_Q2RG09 G G L L E R M K D I G V D V I G L D W T V D M A D G R R V I G D G I S V Q G N V
UniRef90_M8BT66 Y Q F L S D F I D A G M D V Q V S A N M D S K K L K R R E F G G K V I T F W G G
UniRef90_X1HHI4 R E I L I P E I I K C K V D V L E P I Q K V K E P E E I Y S E F G G K I A F H G G
UniRef90_F0YZV9

UniRef90_G2FS73 N V S T Q L L H T G E Q A K L V S I T R N A L Q S E V D I V I A P A C G L S M A T
UniRef90_B1M3C5 H P E T L I A G G A A L D A A V D A V L L E A T A G L P H I F N L G H G L T P Q T
UniRef90_Q8TSF1 N I T N P P L F L T N S P Y E E L L R E L C A R R N I E E G G Y V L S P G S C F F P V N A
UniRef90_F0YTU2 V D C V D T L V N K P E D Q V R L R E V A R C L E V G G G H I I S S S G C H I H S S G V
UniRef90_A6L4F2 L D P V S L F K A A T P E V M K K A T L D L L E A T R F V L S S S G C D T T P S H T
UniRef90_R7D1L0 I D T V S L F M T G S I E T D T M K Q S V Q A L L D A D P N F V L S S S G C H I H S S G V
UniRef90_UPI000472B429 V D T Q K A M T G S I E Q V E D V K R L L D D D G G F I L S S S G C H I H S S G V
UniRef90_M4YPK0 V N P V D T L L M G T P A D V V A Q A K K S A E A G G F D L I T P E C G I P P E T
UniRef90_UPI00036787A2 L D P V R E V M E S T P E V I Y Q K H L E L Y K G P P L M I G A G C C E I P P G D T
UniRef90_H1Z0S8 L N G V E M R R W T P E T A E R K V R E A I S G G G F I L T D N H G I P P Y Q V
UniRef90_R9T4I8 I R S S A E D V A K I T S N L C Q E V K T A L C K R G Y C I S S G C E I P P D I
UniRef90_F5YDA4 V S V Q S L L P F G S T D D V R K E V Q E M G K N D G G Y I L A P S H A L Q G G T
UniRef90_M4YMR5 L D P V S L L N G S A A D D V A A A E K C F E D D G G Y I F G A G C C A E P K A T
UniRef90_Q2RII2 I D P V G V M L E G S P Q Q V V K A T A N M L P F N N F I V S T G C C T L P F E V
UniRef90_H1S776 L N E H D T L L H Y S E E Q D I A D E V L H N A I D D R R L M V P G C C V L P V A T
UniRef90_UPI000347C71 G N L D P C A L L Y A S E E E I G Q L A Q M L D D F R G Y I A N L G C C V L P D M
UniRef90_F5YEM9 M N P V A V M Q R E S P E E G V V K A C A E E C I E G L G Y L L M P G C C D L P P A T

UniRef90_UPI0001585B04 D P A E L T I E A N K T V E T V R S T V R E L L E S L G L T A N L G E G L G G R E
UniRef90_K0RJ80 N V S T Q L L D I G T K E K I V S I T E N A I L S G V D I V S P A C G L S M S T
UniRef90_K0AZM6 L D P A T L Y G T P D A I A K A T K L M L D D A G Y V A N L G H G I T Q W V
UniRef90_A0A009EYU3 N L D P V S L I P E N S H L E K N V N L L R Q R R F I F N V L G H G I T P E C
UniRef90_UPI000367879A G N V D P A V L F A P L P A I T E A I E S V V S K A G H I L N L G H G V L V I G T
UniRef90_A9RDE4 G N L D P M T L F G G A Q A V R A E A R R T L D K A G H V F N L G H G I S Q Y S T
UniRef90_V8YD75 N I N P N A F C R D S L Q D D I R A H E V K S C M D A G F I L S T G C C E I P L S T
UniRef90_D5E735 V D P V K F F L E G T P E E I K Q E V E R T A Q K G T L I L A P G C C D L P Y D T
UniRef90_K1LG70 V I D D I K M I H A W S A E Q T R A E V Q R I V A R G G H F V L F G N G V M P L A V
UniRef90_UPI000371FB23 G N I D P A F L A A P W P L E A H V R D V V A R G G H V V N L G H G V P P D T
UniRef90_C5C5B1 H P E T L I E G G R A L D A A V D A I L A A T E G L P H I F N L G H G I T P Q T
UniRef90_A9W2T9 N V D N D L L R D G T L A D I T V A V E T C L K Q G G H I L N L S G C E V P L D T
UniRef90_UPI0004770B02 N I K P Y R F V N Q T P Q E I I R E G K E L I A G R R F L L S S G C E V P L D T
UniRef90_B8FZ11

UniRef90_M1ZG88 V A T V E V M R N G S T E E D V V L R A A A K C H E H A G Y I V S A G C C E I P R D T
UniRef90_UPI00047EF313 V D E A G A L Q H G T P E E V V L R A A A H A A I E E G G R F I L L A P G C C V I A M D A
UniRef90_I013N8 G L Q R M D I T N K K K N E V Q H Q I F K C L A G G R H I L T P G C C V I R Y
UniRef90_F7NFD3 N V D P V T L F G P R A A L E A K L R R C V A G G R H I L N L G H G V M V I G T
UniRef90_A0A059LPB1 N L P P E F L Y S P P D A I R E K E T R H L A D P G G F I M N L G H G M L P D I
UniRef90_F8L6G3 N V D N D L L R D G T P D D I T A A V K T C L Q Q G G H I L N L S H G L H R D T
UniRef90_UPI0003B3867A G N F D Q A M L F L E P D E F R S Y L M K W L D R S G W V C L G H G V L P K T
UniRef90_T0FF57 F D Q E L L F A E T S L E K E I R E Y L G R K G W V A G L G H G V L Q F T
UniRef90_N1VY65 A D P V G I M E G D E E M V R K E I F E Q V Q G V P Y A L M G C C S I P G A T
UniRef90_F5YJD3 E I N P I D M M D N S P E G I Q K I V H E S L K E N G Y V M S T G C E T P P G G
UniRef90_D5E740

UniRef90_L1IT61 I P L T T V M L H G T P K D N M K Y V V D L L D K R N M I V S P G C D M P Y D V
UniRef90_A6P0J2 L D E E L L L R K G T P H R K I K E G V A K E L L N G G F I L A N G S H K L K V E T
UniRef90_UPI000255CCA5 W H E F G A L S N G P V E K I R E A Q D A I R Q T G G F I L A N G C S V I P D D T
UniRef90_D1CA85 D P A L F L L P Q D Q F L N H L I E K Y L S V L K Q P K Y I F N S G C H G L P E T
UniRef90_Q5L510 L P P R D V L A A A S P G E V A E A T K K M L D K S R L I V S C G G G M P P G V
UniRef90_I6YXN0 D P V V L R S G G A Q L D D M V R T L K S A W G P Y I F N L G H G I F P D T
UniRef90_V4NGB6 P S M V E N A P D L A M R E G L S I A M S M A D R D K Y I F N L G H G V L P N T
UniRef90_T0M3B0 V F N D I R L I E W T P G E I R S E V K R I T A G K F I F G T S V I P C C V
UniRef90_K2ANW6 V D N Q Y T L A F G S V I E V K N E V I D N I R G G Y I I A P C H N I Q S V S
UniRef90_UPI00047D5CC6 I D P A G V L R N G T P E L V R E E T R K L L E R P N F V I A S G C D I P S M T
UniRef90_R5R890 V D N Q F T L P F G T V A D V R R E V I D N L E G G G Y I L A P C H N I Q A V S
UniRef90_UPI00036436B4 L P L L L L A G S D Q L E K R V Q T I L L E A F A D R P H V F N L G H G I D R R T
UniRef90_A5P9L1 L D P V G I L F K Q A T A E E V Y R Q T Y T L L Q K P N F V I S T G C C D V P P E I
UniRef90_Q64RS0 I D E H G T L L R G S E R D I E D Q V H E A L A G R R L M I S P G C C V L P V A A
UniRef90_E8TSE9 L D P V G V L F K N D S V E G V Y H K T Q E L L E Y P N F V I S S G C D I P Y H T
UniRef90_E4Q6Q0 A D H D G G R T K E T V R K T T R E L L E A L G P Q R L I A N L G E G L G G K E
UniRef90_B8CAQ1 C D S Q N T L S K G T P E E I R Q E V K D L A A G G G L V L A S I H N I Q K D V
UniRef90_D9QPN5 G N V R N S I J H S K P E D V Y E S R K A L E Q G G F I L M P D C A L T P L A
UniRef90_T3DD16 I D T Q G L L P F G K P E E V K R E V R R F M D D G G Y I L M A S Q G F E G D V
UniRef90_U2CG17 F E R M D I T D G H Y A F E S E H I I F E T L R G G R H I L S P G C V T R Y P
UniRef90_R6BAB5 N L D P F I V N Y D A F A E S E H I I N A V K G N R Y I F N T G H G I L P D T
UniRef90_Q978V0 I S I Q R L L P F G T P E E V R R E T R R L D G G G Y I A A P S H A L P R D I
UniRef90_UPI00035E6D22 M D D A D F K K A M T Y L A P M K N M S K E Q R A G W V S G L G H G V L P K T
UniRef90_A0A024EZ89 V A P A E Q L R N G T P D S V R A A T L E V L E A P N F V I S T G C D V P P M A
UniRef90_D6EBP3 V S T Q Q C L P Y A S P D G V R A E A V R I M K D G G L I I A P T H A L P F D V
UniRef90_F7K574 G L E P P A L K R M S V D Q T K E Y V L D L L E G D R F I L A S T G D A T S Y G T
UniRef90_F4A216 M D I T N R K K D A V E K Q I H D T I T K L N G R K L I L A P G C V T R Y P V
UniRef90_F5YLG2 N L D P A T L A E G S E E I V A A A Q D L L K G R P H I M N L G H G I E P T T
UniRef90_R1G0H9 I D I Q K I L P F G T K E E I T H E V R E A I K G G G F L L S P A H N V I Q G D V
UniRef90_UPI00047DED8F V D C S F V T V E E V E A V K E T I A K A S P G G G H I L A S N S I H P A V
UniRef90_UPI000372D665 P N L D P A L L A A P W S L V A E E V D T L A A G G H V V N L G H G V P P A
UniRef90_U1QFT1 L D P V G L F K Q S S E E V Y T A T M N L L Q Q K N F V L S T G C D V P P H I
UniRef90_K6AHM5 D Y L L A F N K D A L Y Q T G K I L D S L S G E D F I F N L G H G I Y K E T
UniRef90_X5H2T9 G N L D P Y L V I Q Y S G D Y A M E E A H S I L S G A R Y I F N L G H G V L P D T
UniRef90_T0LZY4 N F S T S A I A F S P N E V I R K K V R E M V K K G G Y I A S T G C E V P V R T
UniRef90_X1KJL7 V D T Q N L F F G T P E E V R A E T E Y I I R D G G Y I L P S Q D F E G D V
UniRef90_F0Z5T8 V D P A G E F R N G T A E S V Y N R T K E V M D E K N F V I S S G C D I P P M S
UniRef90_R5TDU7 D P A C L F S P L P A L T D E I Q R V F K C A G S R G H I L N L G H G V L V I G T
UniRef90_V4T672 N F D P A L F L L P E P D T Y L E T V F L E S L R F P N I F N S G H G I L P E T
UniRef90_F4DJY4 N L D V M K M A H P D P K V I E E I R S K F E G G Y I Y H S D H S V P P T V
UniRef90_UPI0003663F87

UniRef90_X1D5W5 I G T Q T V M P H G T P E E V K K A V W E N L E K G G L F V A P T H I L L E P E V
UniRef90_F7KCE6 I N T F D C L L R G T P E D V Y K Q A R Y N I A A G V D S V G P E C A I A L I E T
UniRef90_X1PWM6 V D N Q Y T L A F G T V I E V K Q E E V D N I D G G Y I L A P C H N I Q A V S
UniRef90_F3ZWP7 V D P A R Q L R N G T P A S V R E E T L R I M N H P N F V I S T G C C D V P P M S
UniRef90_U2QDN6 H P I Q E L L L G T N E E I E A K C K T I I E G G G L W L S T G G G M A P E T
UniRef90_Q2RG09 D P A Y L F S P L P V L T H E I H R V V K A A G P K G H I L N L G H G V L Q K T
UniRef90_M8BT66 C D T Q K I L P Y G A P G E V K Q E V V K R R I R G G G F V A Q V H N I Q P D V
UniRef90_X1HHI4 I D T Q Y L L P F G T A E E V K E E V K Y F M K N G G Y I L M A S Q A F E S D V
UniRef90_F0YZV9

UniRef90_G2FS73 S I S N L K A M T D Y V K E
UniRef90_B1M3C5 P V A H V E R M L A R L R
UniRef90_Q8TSF1 A P V K V M A M V D A A E K Y
UniRef90_F0YTU2 N P K S Y R V F L D A V K E
UniRef90_A6L4F2 P S E N I D A F F A A L N E F N
UniRef90_R7D1L0 P F A N I D A F Y S A L N E Y N
UniRef90_UPI000472B429 P P E N V A R M F E F A A E Y S S
UniRef90_M4YPK0 P D E N M L J A L S E Y A
UniRef90_UPI00036787A2 P F E N F R A V C K P V E Y S
UniRef90_H1Z0S8 P E S V L Y A I G E A V R K W
UniRef90_R9T4I8 N L E N I Q A M V D T A K
UniRef90_F5YDA4 P P Q N I T A F L E E A G R W
UniRef90_M4YMR5 P I A N I Q A M V E V S K K H
UniRef90_Q2RII2 P A A N I S A F V E T A R N F
UniRef90_H1S776 S D T A I R A V F R A A R
UniRef90_UPI00034F7C71 D P E H V G A F V D A V H R H S
UniRef90_F5YEM9 P A T N L K A M T Q T G K
UniRef90_UPI0001585B04
UniRef90_K0RJ80 S P E L V N A F V E A V H E E S
UniRef90_K0AZM6 S T E S L R S M T D Y I K
UniRef90_A0A009EYU3 D P A N P K V F I D T V H E Y S A
UniRef90_UPI000367879A K M E N V K R V V E L V K T F
UniRef90_A9RDE4 P E E G V A H F F D T A R S L S
UniRef90_V8YD75 P P E V V S E L V D E V H T Y S
UniRef90_D5E735 P I E E M E T L W R S I
UniRef90_K1LG70 P I E Q I Q A F M E A A R
UniRef90_UPI000371FB23 P E A N I R A M V A A A F E Y
UniRef90_C5C5B1 D P G V L T R V V E L V H
UniRef90_A9W2T9 P I A H V E Q M L A R L R
UniRef90_UPI0004770B02 P F E N V K H F V H I A K
UniRef90_B8FZ11 K P E N L A A L I K A V R D
UniRef90_M1ZG88
UniRef90_UPI00047EF313 P V A N V L A L N D F A R E H
UniRef90_I0I3N8 P P A N L Q A L R R S V E Q
UniRef90_F7NFD3 P L D N M L A F V K R T K D Y
UniRef90_A0A059LPB1 P E R A V A D M F D I A R
UniRef90_F8L6G3 P V E N V Q T F I E T V
UniRef90_UPI0003B3867A P F E N V K H F V N I A K
UniRef90_T0FF57 P E A N V R N F V K T V R D V F A
UniRef90_N1VY65 P E S S V H L L I D E T R K
UniRef90_F5YJD3 P L A N Y E V M R D L A
UniRef90_D5E740 P M T P I K A M V D K V K E
UniRef90_L1IT61
UniRef90_A6P0J2 P V E N T V A C S Q A V K
UniRef90_UPI000255CCA5 P V E N V L A M Y E A V K E F
UniRef90_D1CA85 D Y Q W L H A A R E L V N D
UniRef90_Q5L510 P L E N V Q A A V
UniRef90_I6YXN0 K T E N I V A F V D T V K N Y
UniRef90_V4NGB6 P I A H V E R A L E L I R
UniRef90_T0M3B0 R P E T L L E L T R K I H
UniRef90_K2ANW6 P E T K I R V L L D A A L E F
UniRef90_UPI00047D5CC6 P P E N I V A M Y E T G Y E Y
UniRef90_R5R890 P F E N M D V F F E T I E E F Y
UniRef90_UPI00036436B4 P P E N I V A L Y E T
UniRef90_A5P9L1 P I A H V E R L I A A V R
UniRef90_Q64RS0 P L D N I R A F Y E A V K D Y N
UniRef90_E8TSE9 T D A S I R A A V R A T H Q F
UniRef90_E4Q6Q0 P I E N I K A F F K A V E E F N
UniRef90_B8CAQ1 S T E L V N E F V K A V H E E S
UniRef90_D9QPN5 P P E N I V A F Y D A L Y E
UniRef90_T3DD16 P A C N V Q A M V R A V E D F
UniRef90_U2CG17 P I E N I E A V Y
UniRef90_R6BAB5 D P D M L S F V R K A
UniRef90_Q978V0 D P K R L I E I V K Y V H
UniRef90_UPI00035E6D22 P C E N I A A L L E
UniRef90_A0A024EZ89 P E K N V K L F V D T V R E
UniRef90_D6EBP3 P L E N I D A F F A A V D E F Y A
UniRef90_F7K574 P P E N I L A L L D V F R
UniRef90_F4A2I6 P I E N L L A I T E L I K Q Y
UniRef90_F5YLG2 Y E E M L D F I Y N T
UniRef90_R1G0H9 P E P S A N L F V K T V Q E W
UniRef90_UPI00047DED8F S A E N L V H M V N C V H Q F
UniRef90_UPI000372D665 K P E N Y R A M V E A A R R Y
UniRef90_U1QFT1 D A D V L T R I V A R V H
UniRef90_K6AHM5 P A K N I E A F Y Q A L T D F N
UniRef90_X5H2T9 P I A N I E S V L D K I R
UniRef90_T0LZY4 N P E I L K N I T D L V H S F
UniRef90_X1KJL7 P I E N V K A F I N A T K E
UniRef90_F0Z5T8 P V E N I I A L Y E A R K N F
UniRef90_R5TDU7 P W E N I N A F F Q A V E D F Y
UniRef90_V4T672 P E E G V A H F F E V A K
UniRef90_F4DJY4 P L E N V Q H V I A Y V H R F
UniRef90_UPI0003663F87 S F E Q Y C R V M E L V R K Y
UniRef90_X1D5W5
UniRef90_F7KCE6 P L E N I L A Y V E A C R S Y
UniRef90_X1PWM6 P I A N L Q A I V T A A E E
UniRef90_F3ZWP7 P V E N I L T M Y E T G Y E Y
UniRef90_U2QDN6 P W A N I D A F F Q A V D E F Y
UniRef90_Q2RG09 P V E K M Q V L I D C T K K Y
UniRef90_M8BT66 P E E A V A H F F D V T R
UniRef90_X1HHI4 P V E N I L A M Y E A V R E Y
UniRef90_F0YZV9 P L E N I E A L Y N A P R S F

1 10 20 30 40
UniRef90_F0Z5N7 MNSKERF[]ATV[]ERK P[V]DR PA A WL G M P D []FS Q P A []F E Y Y G
UniRef90_K5ZUE1 MT R R Q A V []E A L E H R E H E T []P F H M D F T K Q A L D Q L I A Y T
UniRef90_U2CUC6 MT S R R E R V []F A A L A H Q Q P D R C P []V D F W A E P D T L Q K L R Y F G A
UniRef90_UPI000471D179
UniRef90_J9MAX5 MR Q A G R Y E Y H E A K G R D
UniRef90_K8WM77
UniRef90_A6LRB3 T S M E R V []L T T M S K H E P D K V []P L F L M C T H Y C A K F L D [] S
UniRef90_R6WUS1 K A Y N A G E E V D Y I P Y T L Q A P D P A M A D []F G F T
UniRef90_D6DGI1 MT K K E R []K A A V S G Q K P D C L P Y S L W T H
UniRef90_T0MVD6 F R E V L R N G S A E N I P V W F M R Q A G R Y M Y R E V R K Y S
UniRef90_F7KND3 M E Y A K G N E V D H I P Y M L C G A D T A A N M Y G Y T
UniRef90_UPI000477761F R M D A I L R G D A M E Q I P V S L W R H
UniRef90_R6VQQ3 MT K R E V I K C V L D G K K P P Y V P W S F F T K E P K E A L M N Y Y A T D
UniRef90_G2MTT6 M N S R E R V L R T L K H E V P D R V P L A L G G S A Y N I N D I A Y K W K P
UniRef90_Q8THF9 MT H A D R T V S A M S D K K V D R L P V Y P L A C G V L R K F A P V T
UniRef90_UPI00037DA118 MT P R E R A L R A L N H E V P D R L P L D L G T T N C T K A Y E N L K A Y L
UniRef90_G5HSV8 T K K D R V L A V L N G E L A D R P P V S A W R H F V D K E
UniRef90_V4PC19 MR Q A G R Y E Y R E L R A S T
UniRef90_R6BAC3 N K R E L []Q A V F H N E K A D R []P V G F W H H F L Q D E V G A D
UniRef90_D0RNS8 N Q K F Y N A L H R I E Q K V P P I W L M R Q A G R Y H S H Y K T K Y T
UniRef90_F0YUH9 MT S K E R V []K A A V K Y G N P D R V P A A F E A V P V T A R L L K E Y G
UniRef90_UPI00037F9B96 T K R E L V L K A F R G E E V D R V P V G F W Y H F A E E D E L L R G F N
UniRef90_U5PB64 M S K K E L V L R A I R G E A V E R I P V G F W L H Y V T Q E E
UniRef90_U2B8H8 MT N R E N F L S L L R R T G Y E S V P V F S L C P Y L I E R M R N E L G V D
UniRef90_UPI00042B1931 MR Q A G R Y Q I I C E K Y P S
UniRef90_UPI00036EAF97 M N K R E R I Q A A I S G A R P D Q I P Y S L W S H
UniRef90_F3ZX77 M D S K E R V I R T L K F K N P D K I P V D L W T L P A T Y L K Y G K A F E D
UniRef90_F0YW73 M N K K E R V L A L R R E P V D R I P R G E L A I E P G F M A M Y L A D V E
UniRef90_F6DR64 K M N S L E R F T E T L R W Q P T D R C C L P L V F G Y A A N I A E I E
UniRef90_N6YXP6 M D R T P L V P Q L F G H A A V S A G L S
UniRef90_W7Y5T1 M T S K E R V L A T L N R K D V D Y P A S W P V P A A I P N L Y R Y F K V N S
UniRef90_G8LVS2 M N S R E R I K A A L N H Q Q P D R V P I D C G G H M A Y R N L R E Y L G L E
UniRef90_S0G2K8 M T P R Q R L L C A L R A E A V D R V P V I I M M A G S L Y A L L Q K S V S
UniRef90_F0Y194 N D L L R L A R G E A V E E A P V W L F R Q A G R H M Y K E K T G K H
UniRef90_G5IMV1 M N K K E R V T A A I E G R V P D Y V P C G F S L H
UniRef90_K6A6L6
UniRef90_C7N2T3 F A G E P L D R L P M M P F V I S Y S P R V L N Q T Q R W
UniRef90_UPI000361127E M T K R D I I Q C V L E S K P P Y V P W S F S F T T E A E E K L I R H Y G
UniRef90_UPI00035DE4B6
UniRef90_UPI00034FF73B
UniRef90_UPI00035D11DD M S K I E K I K K V L N G E L T E D I P F S F W T H
UniRef90_C6L8Y7 M T R K E R V R A V M N R Q P A D Y V P A G F W F H Y K P D
UniRef90_B1ZRG0 E T F K K A A R L E K L D Q I P M A M I I D S S P W I P G Y V G V S
UniRef90_UPI00036A5630 M T D Q Q W L K Q I L Q G Q T V T P L P V G F I I D S S P W L P G W Y G I K
UniRef90_X1P3N3 M I P L D R F F A A R M E E P D E V P V S L L T S A R F F S H L Y G V K
UniRef90_E1ICG4 M L S K D L L A T I A R K E P T P H I P I A L W R H
UniRef90_R5TCU9 M T K R E R V I T A I Q G G E A D H T A T G F S L H
UniRef90_X1LYF4
UniRef90_F0YVM3 M T R R E A V I Q T L L H K E V F P I P F H M D F T E Q A L V Q L I E
UniRef90_W4UHF4 T A D S P R L L Q A M T G H R P T V A P V W F M R Q A G R P E Y R E A R G T T
UniRef90_N9VRQ6 M N K R E R V L A A N N E V D Y V P G C F W R H
UniRef90_G0IC92 K R E W V L A A F R G E V D R V P V G F W H H F T S E E E W L K G F S
UniRef90_UPI0003B3E5F8 M T P K D R I T A A F R N E K P D R V P V S P E L W D V I P F R V S G R P
UniRef90_D5EDG5 M K P I K R I E A L L E G K R L E T P A I N L W K H
UniRef90_F7KC94 M N S L E R F Y A T A E R K P V D R P A A W L G M P D P Q A L P G L F S Y Y G
UniRef90_J9YX39 F H N A L Q R N E Q A V P P I W M M R Q A G R Y H N H Y K Q K Y T
UniRef90_W7UB10
UniRef90_W7YFH0 M N H K E R V L K A L N N D V P D R V P F F Y W D V P E F G E K M I S F F G F
UniRef90_D8F4Q1 N D Y M R R F W S F E N V E R I P F L P M M Y S M A A R I Q S I S
UniRef90_UPI00025553C6
UniRef90_R7J8N8 M T H K E R V I R A L N H E E T D R P P F F T P E F A D R L R A E F H L P P M
UniRef90_G7W6W6 T G W D R L K A A C A L E K T D R V A I C P A L Y R S A A G A L Q G M T
UniRef90_X1L9T7
UniRef90_S0FB58 M K H R E R V I R A L N H E E T D R P P F A T F T P E F A D R L R E V F H L P
UniRef90_R6UXH4 E M L P R E E M I S L L K G N G T P R V G V A C G N W L H I D E L A L Q D Q K P
UniRef90_F7NLQ2 E M T A E R L V A T I N L D P V D R V V C A P M I D Q Y A G Q F A G I S N K E
UniRef90_B5JGE4 M N K V L S M E I G D R I P F C P A I Y E H K G F L I G K T
UniRef90_B8FW54 M N H R E R V L A V L N K K L P D R I P M D L C E S A S F P A Y F A L K N Y F
UniRef90_R6FLE7
UniRef90_UPI00046EF6A9 M T S K E R M L C A I E G R I P D R L P V T V H Q W Q P Y H L K T Y M N G M S
UniRef90_F3ZVR4 M N S K E R V R A V A F K E V D R V P A G L F G T P T Y Y E E G L A K Y I G
UniRef90_UPI0003B75E97 M T S A E R L L T V L R G K P V D R T P V S L Y E I D G F G N L Y S P D H P S
UniRef90_UPI00036DA30F M N S H Q R F E E T M N H R R V D R P P I D I G C Q E S L R Q A L I G F T G E P
UniRef90_F8DHD6 K R E L V L K A F K G E A V D R V P V G F W H H F T T E E W L K G F S
UniRef90_UPI00047211C6 M T P K Q R L L A A L R G E A T D R T P W C P N L A Y W Y M Q V M Q E M G A D
UniRef90_UPI00037FB2EC T K R E L V E K A F R G E E V D R V P V G F W Y H F A D E D E L L H G F N
UniRef90_G0IC90 M T S K E L V E R A I R G E E V E R V P V G F W F H F V I L E E K G Q
UniRef90_N9W1U8 M T K R E R V I R A V R G E E T D G I P S C F S M H
UniRef90_F9Q6R7
UniRef90_UPI00035F3816 M T S K Q R L L K A L N R E V P D R L P V T M N G M S Y Q E F F D Y F G F D
UniRef90_H1D277 M T R R D L I A K A V N N E K T D R V P V G F W H H F L G D E V G A D
UniRef90_F0Z475 M T P R E R V Q C I L L E H R K P D R V A V D I T I N D T F R K V K E Y L G V T
UniRef90_F6BCL4 R T L I A P M G G C Y I A K L Y G C G K K H
UniRef90_R5IMY4 M D K I E R V T R A F K G E E V D H I P V C L W K H
UniRef90_X1BFY9
UniRef90_UPI00046FB88D M T H K E R L M A V K E G R K T D R P A F V A W G P H
UniRef90_D6TLK8 M T P G E R V R A A V A G Q E V D R V P L C F W H H
UniRef90_UPI0003809A95 R Y Q A A I A L E K T D R I P I A T G S N Y F A E V Y S G N T
UniRef90_V7EMW3 M N S L E D R V M A T L N H R P K V D R T P I D C W L Y Q K Q F L L E R L E A D Y G
UniRef90_C0WBPB8 M M S R E L N A F E N K D E Q E I P V S F W H H Y A K D E F V P A
UniRef90_G5HHL1 M T K K E R V I A A I Q K E V D G I P S G F S L H

UniRef90_F0Z5N7 V K D M H E L K L A V G D D F Y A V E V P Y K S P T A S A I Y A A F D W Y M D G
UniRef90_K5ZUE1 V I D A V T D G E V H Y Q A I K Q V M E T Y P T T A C T V I M D L T V E A E A F
UniRef90_U2CUC6 K D E E I E E K I G S C I N I L Q Y W G W P T Q L P G K P G F F Q D E F
UniRef90_UPI000471D179 A R E Q E L Y D L L Q V D L T Q V F P D S T L P K P K I L A D G S W Y D H M G V
UniRef90_J9MAX5 F F E C C R D P E V A T E L T Q V F P V R R F A I D A A I I F S D I L V I P Q A M
UniRef90_K8WM77
UniRef90_A6LRB3 I K N Y F S K P E N V A K G Q M M L L R K F N N D C L N P F Y S A A H E Y A A F
UniRef90_R6WUS1 T T Q F A K D F E V K S E V I R R R R D E F G L D S F N V G L G L K T I G G A L
UniRef90_D6DGI1 M P G I D L D P V L L A E K T Y E F Y K T Y D V D F I K T M N N G M Y A I E D F
UniRef90_T0MVD6 M L E L C K N Y E T A A E V S Y L P V K E I G V D A A I V F S D I L L I L E N M
UniRef90_F7KND3 L Q Q Y R E S L D V R F D I M E K M N K E F G T A A V G I G V G L K S I G E A V
UniRef90_UPI000477761F F P V E D T D P G K L A R H T I A W Q E K W F D F V K F M P P G T F S V E D W
UniRef90_R6VQ3 D L D V L G N H I L Q L G S D I G F F E D L G D N L V R D V F G
UniRef90_G2MTT6 F R N D G F K T S N Y L D E R V L S V L N I D F R Y I Y M P T P D L V K K D G F
UniRef90_Q8THF9 Y K E Y A T N E D A F V Q S A Y L G S K Y L D L D M F V G L I D L S I T S A D L
UniRef90_UPI00037DA118 G I E L M M E N F Q I V F V D E E L L E L G L D T R G I H P P L P Q R W V
UniRef90_G5HSV8 F V D F C L T P E K A A E A T L Q P I R R F G F D A A I L F S D I L M I P L A L
UniRef90_V4PC19 A F S H P Q L T E K T L E G Q A D F V Y Q A F E P D M I K I M T D G F F
UniRef90_R6BAC3 F E E L C K I P E L I C E T T M G P I Q D F D F D A A I L F S D I L F P L D Y L
UniRef90_DORNS8 F S S V D Q I Y D K F Q I D I A S I H S R Y I G P E L K E S R N A L V R E T Y W
UniRef90_F0YUH9 F I N L C L N D E L S K I T L Q P L K R F N L D A A I I F S D I L M L P Y G L
UniRef90_UPI00037F9B96 N P E I F A K N V A G H K K F V D D V K P D F V K I M S D G F F
UniRef90_U5PB64 K E L G L D N P A V L E K S T K G Q H Y V E E I S P D F V K I M S D G F F
UniRef90_U2B8H8 Y Q E Y F Q F P W R L I D H D V E Q Y R R F Y R R P L A E G A D I D T W G V G H
UniRef90_UPI00042B1931 F R E R S E N V D L V V E I S L Q P W N V F K P D G V I L F S D I L T P L S G M
UniRef90_UPI00036EAF97 V P G I D L D P K L N A E H T F E Y K S L D I D F I K T M N N G M Y A I E D F
UniRef90_F3ZX77 M L S R H E R D I L V S F D G P F D L S H D Q K T Y Q P G R F T D G W G S E W
UniRef90_F0YW73 K P L M S A L E K E I Y V R K D L G F D F I N M H E F P K T L L G Y A D D
UniRef90_F6DR64 I K D A I S D T E A L V I S Q L L A Q R L F G Y D A V Y V Y G G N A V E I E S L
UniRef90_N6YXP6 L R D Y L H D G E A L A H A Q I C A R R E R Y R T D A V F A F L D F G E A E A L
UniRef90_W7Y5T1 I P E L K R N I N D D I W P I E V P Y N N A P F N D V G C A L Q F A E L T E
UniRef90_G8LVS2 K K E L Y V C A T V I H A E Y W K D W E L Q D G T P K I P A Y I A I W K G V L
UniRef90_S0G2K8 Y P D L H T R A T V M A G Y A R L L Q E T C E L D N Y G V P F C M I E A E D F
UniRef90_F0Y194 F L Q L L D D P L D V A E V I L Q P L R Y G V D A A I L F S D I L V V I P Q A L
UniRef90_G5IMV1 F P K E R A M G E E A V A H L E F F E K T D T D I F K I M N E N M V P D V G
UniRef90_K6A6L6
UniRef90_C7N2T3 Y R E S A E N R A A C Q I A A Y E K W G H D T M V I E Y S L H G V I S H A L
UniRef90_UPI000361127E N D D I M S V V D N H I L G L G S E I G F F E D I G N N R V R D V F G V V W D R
UniRef90_UPI00035DE4B6
UniRef90_UPI00034FF73B F P D I D R I P E L I A E E T Y Q F Y K R F D L D F I K T M N N G M Y A T E D Y
UniRef90_UPI00035D11DD Y S V I Q E M I D A H M K L Y R E T G A D V I K I M Q D Y M Y
UniRef90_C6L8Y7 H M D F F L N P E V W F Q S H W K I H Q E Y P D I I F V P G W W M E Y G M A A E
UniRef90_B1ZRG0 L T D Y F S N D D L W L Q A N L K A V Q E Y P E V I E L P G F W M C T E P S A F
UniRef90_UPI00036A5630 V F K F F H D P R T M L H A T L H T M K R F P D I V L F P G L W A D Y G L P S A
UniRef90_X1P3N3 W P A E D Q V A E D L A R A T L D F Q Q R Y D F D F I K L T P S Q V F V A E D A
UniRef90_E1ICG4 F P K E R A F G E E A V K S H L E F F E K T D T D I L K I M N E N L V P D V G
UniRef90_R5TCU9
UniRef90_X1LYF4 Y T E D A N I E E R I I G T S L Y Y K Q Y W G W P T E I P E K P G Y F R D D F
UniRef90_F0YVM3 M L E S C L N P E I A A E I T C Q P V R R H H V D G A V L Y S D I M V P L A L A
UniRef90_W4UHF4 F P P E Q S H G E I F I R E Q I K F Y R D M D L D F L K I L S C D G Y F G W A P E K
UniRef90_N9VRQ6 N P F P E Q S H G E I F I R E Q I K F Y R D M D L D F L K I L S C D G Y F G W A P E K
UniRef90_G0IC92 N P F P E Q S H G E I F I R E Q I K F Y R D M D L D F L K I L S C D G Y F G W A P E K
UniRef90_UPI0003B3E5F8 F Y E F S G T P F G K I P L W K A Q L D A Y K F F G C E A W V P V E P C P D L H
UniRef90_D5EDG5 F P Y D E D P K M L I K K T I Q F O E R F H W D F V K V T Y Q G L F S I Q D W
UniRef90_F7KC94 V K D I H E L K M A V G D D F Y A V E V P Y E S E T A H A I Y A A F D W Y K N G
UniRef90_J9YX39 F E Q L C R E P D L A C E V T L G P I Q E F D F D A A L F S D I L F P L D F L
UniRef90_W7UB10 W S H P F P P P H N S F S L F L S
UniRef90_W7YFH0 T D R D Q L L E H L D V D F R W V E P K Y I G P Q L V D S N N K C K K D I W G V
UniRef90_D8F4Q1 L K E L L T N P T K M A I A L Q K A H K L F G Y D G I L M V D C T L E A D A C
UniRef90_UPI00025553C6 L K E L L T N P T K M A I A L Q K A H K L F G Y D G I L M V D C T L E A D A C
UniRef90_R7J8N8 F T E P H H R T W Y G Y D L E I L T G Q D A L Q A G A G W V I T N Y Y L K P E A Y
UniRef90_G7W6W6 Q A E T Q L N P E K A L D A M L K T Y D D F G G W D A L Y T S L P D T E T M W L
UniRef90_X1L9T7
UniRef90_S0FB58 F S E P H H R D W Y G Y E L E K L T G Q D L L Q A S V G W S P Y T D E W G V K W
UniRef90_R6UXH4 V E D L L R F P E D M Q V F Y L K K P K L F A E D G D R Y T W C D V A G A D P S
UniRef90_F7NLQ2 F M W D W E K C M G A I D K V K E A Y P I L W D S N P F I M M K V G L M R T A M
UniRef90_B5JGE4 P S E I C R D P D L L V E G L L A E Y E R Y K P D F L T V G I D V Y V E A E A L
UniRef90_B8FW54 N I E G E V I P F Q A L D I D F R H V W L K T P T G Y Q N T M Y D D G T F S D E
UniRef90_R6FLE7 F Y P Q S F H P V K Q T D G S Y S C Y D D D G V R V L A R M P K G A T F F D Q T
UniRef90_UPI00046EF6A9 D I E A N K A C G L D A S I N V I F S V S G E E S D T W K V S S T R E Q R E G F Y
UniRef90_F3ZVR4 T G S I E E M Y C A L G V D I W H C K F G L K Y V G D D T
UniRef90_UPI0003B75E97 Y R A I Y N F A R D R L E D T V Q K I V R K E K S S E I S T K L E T P L G L T
UniRef90_UPI00036DA30F I P T N T G V D E R I L K W A G T D F R S V G T Q A D L P S P H T L V N C W G I
UniRef90_F8DHD6 N P E I T E K N L N G H K N F L H K V K P D F V K L M S D G Y F
UniRef90_UPI00047211C6 P L I R G F I D P T K I E Y E H R L R M Y Q T F Y K G C S I R T M T I R T P I G C L
UniRef90_UPI00037FB2EC K P E I F Q K N V L G H K K F I E D V N P D F V K I M S D G F F T
UniRef90_G0IC90 G L N N P R I F Q K S V E G H R K Y V E R L H P D F V K M M S D G F F I
UniRef90_N9W1U8 F S P E Y A N G E S A V D A H I Q F L K Q T D T D I L K I M N E N L V T C
UniRef90_F9Q6R7
UniRef90_UPI00035F3816 F L E P R R V C S D N W R Q A E N I P D L Q Y K I V R F N C L S P E K T L S M
UniRef90_H1D277 A F A H P E L T D K V L A G Q A D F Y K A F Q P D L I K I M T D G Y F
UniRef90_F0Z475 S E D I V A R P D E S S A L Y F R H V F L L P P D G Y D P F A V E G M I I N E F
UniRef90_F6BCL4 Y F C R N G E I F G K A L C K A K E Y F G Y D I H L S S D I Y V E V E A M
UniRef90_R5IMY4 I P P T L W K D E L F I K A Q M D F Y K E T D V D F I K L S A D K Y F C W P A P
UniRef90_X1BFY9
UniRef90_UPI00046FB88D M N L V D R N V K D F T E A T I A Y Q N T Y Q F D F I A K I M P N G M Y F T E D F
UniRef90_D6TLK8 F R P E G S G T R L A E L T K H F V D T F K L D I A K I M P N D L
UniRef90_UPI0003809A95 K Q D T I Y D S V K W L Q A E E A F I R D F P E V D V L R N N R I W G P L Y D Q
UniRef90_V7EMW3 P R E K F I E E F G I D V F V G L M
UniRef90_C0WVPB8 N E H P E I T G I N V E G H A K Y I D D V N P D F V K L M T D G Y F Q Y D F Q
UniRef90_G5HHL1 F P E D K K R G E A A V K A H L D F F R E T D G D I C K I M N E N L I P A F G T

UniRef90_F0Z5N7 D V D A E D R T L T T D G C F K D A E E L E D L D F F E W P D P E K Y I
UniRef90_K5ZUE1 G C A I S M P E H E V P S V T G R L V Y D E E T V N S L Q V P S L S A G R M P
UniRef90_U2CUC6 G V I W N R N G A D K D I G L V E S K P Q I K D L E D Y H Y E F P V F D E K R L R
UniRef90_UPI000471D179 H R R V V K N D Y C S Y E E Y A S P L G L A A S A E D L E R Y D K W P L G A
UniRef90_J9MAX5 G M T V E M V E K K G P H F P N P L Q N P D D G Q Y G Q V L K N V D V A A E L G
UniRef90_K8WM77
UniRef90_A6LRB3 G S E V I F N E A G P P N A G E P I T K N F D D I L K L Q P P D V K N S K I L R
UniRef90_R6WUS1 G S V L N A P E H G I D Y V E K H V L Q D Y A D F D K L E T D P Y K N P K L A
UniRef90_D6DGI1 G C E V D Y I E R G G V A R V T K T P V H E P E D W L T L K K C S C H E G S L H
UniRef90_T0MVD6 G Y S I D Y P G S G S P V V T R N Q I Q S N E K F I S
UniRef90_F7KND3 G S T L R Y P E D G L D F V T D H I L K D Y D Q L D D M K V V D P Y K C S N L K
UniRef90_UPI000477761F G A A T A Y T G A T N G A R V V T N A V K R T E D W K E I R H L N A R A G S W G
UniRef90_R6VQQ3 V V W D R S V D K D I G D V K G C L L P E P T L E G Y R F P D P L D P R F F A
UniRef90_G2MTT6 R N G W G Q T I E K S G E F L H T S A T L A D A T I K D I E N Y A W P N A D D P
UniRef90_Q8THF9 G C G Y K F P E E D T P S S E G H L E D Y E K I E V P E V K E G T R A Y E L I K
UniRef90_UPI00037DA118 D E R T Y N F E E G T I K Y R M P E N G L Y Y D M V E H P L A G K T L E E L E D Y
UniRef90_G5HSV8 G G V F D F N Y E G V L P K C V K G P I G C A E D L E K I T V L P G D H G P F A
UniRef90_V4PC19 G Q D L T F A A G E G P I L G E L P D L Q V M R E K A V S A G E A L K
UniRef90_R6BAC3 G Y H P L L Q K A V D S P K E L M S I T P L G R E S E W F A
UniRef90_DORNS8 G M G L A F N P G P E F A N P L T E Q I L N K E K E Q S F S D Y I K
UniRef90_F0YUH9 N Y E E T M Y T T D V D T Y F T T R Y P L Q N C Q T I A D A D K M A W P D P
UniRef90_W9E2Z6 G Q K V E F E K N F G P K L G E I N L N E V A K I D E I D F V E K I H
UniRef90_UPI00037F9B96 A Y P N P L I K E G I S S I K D L A G I Q S I G E D H P W F D
UniRef90_U5PB64 R Y P S A L Y S R E L T S I Q E L K D I Q P L G E H H P W I E
UniRef90_U2B8H8 E K S P N S M H M T Y M R H P L E N A E S M E D F L E Y P F P D Y A H G D A S
UniRef90_UPI00042B1931 N I P F N I V K G K G P V I F D P L G S A A D V D K V R E F N P E E S V P
UniRef90_UPI00036EAF97 G C E I D Y S E K G G V A K V F S T P T A E P D D W N R L S V C S C S E G S L R
UniRef90_F3ZX77 M V L Q A G M V I G V K A V F A G T G A E A L R A Y A P V E A F K V I Q S W A E
UniRef90_F0YW73 G Y P T Y Q S P Y N D I F K E T P H S F Q L L K P A L E D I E D V E E Y Q T A D
UniRef90_F6DR64 G I P L V F P D D G Y P Y P D P R Y D L K N P D E L L A K P P D P V I S H G R I P
UniRef90_N6YXP6 G A P L S F R D D R Y P D V V G S V L G A D D D P A R L R L P E P A S A G R M P
UniRef90_W7Y5T1 G G T Q D E R T L T A P G F F R G K T D P S E I D S F N W P N P S D Y L D
UniRef90_G8LVS2 Y C E Q T Y F P L D G S E S E D F T N L R D D M A D V M W C A F G G P P A P L G
UniRef90_S0G2K8 G A R I D L G D P L K E P R V A H Y P A A T L D A V L A R E P V P C R R H E I
UniRef90_F0Y194 D V R V E M P G G R G I V V P E P P A L L E A A K K A A D P A A L V A K R I L N
UniRef90_G5IMV1 E I K V P S D W N K I P T Y S L K D D F M Q
UniRef90_K6A6L6 W S R Y V H S P W D H A A D D G W
UniRef90_C7N2T3 G S T W T D P E N A Q K H R L D D L D D V D G I D W D I D A V R K E N D P W M Q
UniRef90_UPI000361127E S I D R D I G N V N G C V L T E P T L R R Y E F P D P L D H R F F N
UniRef90_UPI00035DE4B6 G M E I R M E P G R G P V F P E P L Q T P Q D L H K L R S S V D V S E E L G
UniRef90_UPI00034FF73B G C K I D Y I E S G G V A E I T I S T P I E S Y T D W K K L K T L G N L D A P A L G
UniRef90_UPI00035D11DD P V K G T I T C A D D W Y H I S V G G T D S E E F K
UniRef90_C6L8Y7 P S V M G S K I K F W Q D P S E Y P M L I E D V E K L P E Y E V E N D A L T
UniRef90_B1ZRG0 G A R C T F P E N E F P A H K I F H S T A D I H N L T L P N P K T D G L L P
UniRef90_UPI00036A5630 M G S R V Y W P Q N Y A P A Y V K G V L F K N P E D I E L P D P K T D G L M P
UniRef90_X1P3N3 G L T G V Y E G N P E G D L V K N A P I T S L E Q W E A L R P Q T I Q Q G A L A
UniRef90_E1ICG4 D I R V P E D W N K I P S Y S L K D P F M Q
UniRef90_R5TCU9
UniRef90_X1LYF4 G V V W N R N G A D K D I G L P E E N V I E D L E D Y D Y E F P Q A D E A R L R
UniRef90_F0YVM3 G A E V R I E P G V G P V L D E P V I R T A S D V D R I T R R H V I E D P S A
UniRef90_W4UHF4 T L I N L E S A R Q L Y E M K P I G K D H P F I R
UniRef90_N9VRQ6 Y P N P V I A K G K S L Q E L S E I Q P L G K D H P W I R
UniRef90_G0IC92 E T K H S C F D Y D L W S V H A V K D V F D D I P K L E E Y F D D P E A L D
UniRef90_UPI0003B3E5F8 G S K I K W P T R D C E W P V T D Y S I K N V E D W K L H V L P M D E G S M K
UniRef90_D5EDG5 E V D A M N R T L T A P G C F H D A E D M E D L V F D W P D P A A Y I
UniRef90_F7KC94 G M E L S F S P G P I F E K N L T K S M L D N M Q I S A F E E Y I Q
UniRef90_J9YX39 L P R P P S L P P S L Q T G P K I R T W E A V K Q M H L M D C M N T C P
UniRef90_W7UB10 G Y S R I K K G K F S Y W Q A T D F P L K G I T D P A A L S D F D W P S A L F
UniRef90_W7YFH0 G C Q L N W P G E C E M P G V T S H P L E D G I A V D Q L P L S D E N G R I P
UniRef90_D8F4Q1 F P Y L D A Y E A D Y K D I A K A M N K V L W Q K L A H S P W D N A G M P D F W
UniRef90_UPI00025553C6 T D E W G V E W K I D P Y T N I A H N P L R D H D E A A M A Y K A P D P T R P E
UniRef90_R7J8N8 F Y E Y D R I I E E G F D K F F D E E Y I F R I T D W T P E E K E K K I A E Q N
UniRef90_G7W6W6
UniRef90_X1L9T7 K I D P Y E T P F G I G H Y T N I A R N P L R D N D E L A M A Y K A P D P H R P
UniRef90_S0FB58 I G R K E I V G V D E E H A L D W E V I T R R I S E H L P D A E E A T M
UniRef90_R6UXH4 P G T E L P D N A S F Q M H E V E I T T R E D Y D F N Q I A H G S T L E E Q L A
UniRef90_F7NLQ2 G C K I V Y F D D S P D V P V E D Y P I K N L A D I D K L K P D P T K D G R M P
UniRef90_B5JGE4 W G V Y R L L G N E R A I V K Y P L L N A D E S D L D N Y P W L D P Y A P G R
UniRef90_B8FW54 Y F P Y D G F P T D Y S T L D N E M G K V L W S R Y H S P W D H A S D P D F W
UniRef90_R6FLE7 V K H Y T I E T P D M T S W V M E H L I K K E E D I H L L R Y R P V P K L D R K
UniRef90_UPI00046EF6A9 P N P P Q N Y A G I T K T P F E Y V Y T V D E V E A Y E F P D I S K F D A A
UniRef90_F3ZVR4 Q M E T K R H P K I Y I T T W T E Y L M K T E E D V D R L L S M P Y E K A P
UniRef90_UPI0003B75E97 P Q R L V G S Y W E I V D P P F R G A T V E D L D R F R W P E P R V I S E Q D L A
UniRef90_UPI00036DA30F A Y P N P A L H K G L E N I S D L A G I E P L G A D H P W I T
UniRef90_F8DHD6 T A R Y I I T P D G E T W F L S E H P I K E E E D F K T A R Y F F D H I E L I P
UniRef90_UPI00047211C6 Y P N P L I T D K V R S I K D L A E I K S I G N D H P W Y D
UniRef90_UPI00037FB2EC Y P S N V Y S P K V T S L Q E L A S I E S I G E N H P W I Q
UniRef90_G0IC90 D H E L I T R Q D Y E S F Q K I S A E Q P F M K
UniRef90_N9W1U8
UniRef90_F9Q6R7 V L Q S D E H T A W V S D R L I K N K E D L D I F G K Y A P V P V C D V E E V R
UniRef90_UPI00035F3816 G Y P I D E L K K P V S S P L D L K D I K P L G R D S D E W F R
UniRef90_H1D277 G V E K K L L Q G M T Q L S S T P L A D A E I E D I D T Y P W P P Y A P G R T R
UniRef90_F0Z475 G L Y S W S C I Y K E Y G K M N E N F D I D S L T I N L N S G R V S
UniRef90_F6BCL4 V L K D I Q S A K Q L Y D I K P L G A H H P H I R
UniRef90_R5IMY4
UniRef90_X1BFY9 G Q M L K H I Y D D T W M N V Q A S A V N D P H Q W S K I K V P D L K K G A L A
UniRef90_UPI00046FB88D P Y P A P D S E Q I T V E Q M R F L P R L D L D T P S F R
UniRef90_D6TLK8 F V E D E Y M K A D E Y D V F I K N P L E F M L D R F R A R M A L L K G G M A Q
UniRef90_UPI0003809A95 P F P N Q H G R K F D H H E L A E V P L E D P R H P K W L N F T D W N Y D
UniRef90_V7EMW3 N V I T N V H D L H S L I Q L T N I P N D Y W W L K G Q R D L I K K Q
UniRef90_C0WPPB8 I H T P D D Y D R L I P K M T M N D E F M E H Q M E V I T R E L L A
UniRef90_G5HHL1

UniRef90_F0Z5N7 D V D E C L R R V E A A P E G K V R L G I L W S A H F Q D A C A A F G M E T A M
UniRef90_K5ZUE1 E Y L K A N R L A V I E N I K D K P V L S G C I G P F S L A G R L Y D M S E I M
UniRef90_U2CUC6 Q E Y E A L V A K N G D R F T V A G F G F C M F E R A W S L M G M E N V L
UniRef90_UPI000471D179 F D W R G F S E K I L G D L H E K R V I K L H A G G I F E Y V W A L R G F E Q L V
UniRef90_J9MAX5 Y V Y D A I T L T R Q K L E G Q V P L I G F C G A P W T L F C Y M V J E G G T K
UniRef90_K8WM77
UniRef90_A6LRB3 N C L E T I S I L K E E V G M S V P I A G G V L S P F S L P I L Q M G F D K Y I
UniRef90_R6WUS1 P I L E S A K R L K D R F P D V S M T T S V A G P I S T A I A V R P V I E K V L
UniRef90_D6DGI1 R E L A S L E L L K Q K V K G E D V P V I G T V F S P A T T A D K L S G K K M L S
UniRef90_T0MVD6 H G A E T I K K F R E N H G D F P I I G F T G A P L T L L S Y A V N G K A T R
UniRef90_F7KND3 K I M D D F R K S K E R F P N W G S G N N V A G P M T T A T S I R S L E A I L
UniRef90_UPI000477761F Q Q N I A L A Q A A R G L N G S V P I L L Q T V F S P L T T A R K L A T E G I F
UniRef90_R6VGQ3 D I E S E I G K K P D M F R V F Q I G F S L Y E R A W T L R G I E N L L
UniRef90_G2MTT6 D V I E K A K Q Y K E A G Y A V V A R S V C S Y G F M E Q S E H L R G S E Q F L
UniRef90_Q8THF9 A T K L A K A K L N S E L A T P M V G F H E G P L L T L T Q L M G A S R V L
UniRef90_UPI00037DA118 E W P D P A K T M N L E R V E Y L L V G D M I D I F E P C W L R G F E N F L
UniRef90_G5HSV8 E Q I E T V K A I Q E G V T D G A P I F Q T M M C P T S I L Q K L C A V N P M V
UniRef90_V4PC19 N V I G E T V A R V K A E L G P E T T L I G F C G G P W T V M T Y M L N G K K A H
UniRef90_R6BAC3 A Q I R Y A R K L V S I Y G K E T P L F Y N L F A A P R T I E F M Q T Q V N L S
UniRef90_DORNS8 F Q I D G L T L I R D T L P N N K S L I G F V G A P Y T L F K F Q R H P Q N S S
UniRef90_F0YUH9 W F D Y E H I K R Q S E H Y K N D K A L I F G H E G P F Q I V I T F L T S M E D F F
UniRef90_W9E2Z6 R V Y K A I K K V S S D P S N K N T I G F V G A P W T L L V Y M I N Q N K
UniRef90_UPI00037F9B96 Q Q V E L V K Q V R A N F R E D I V S V Y N I F A P L T H L K W Q Y G D E R V A
UniRef90_U5PB64 K Q L E V V E I K S H F H E E I A S F Y N I F S P I S Y L K R W F R T D H S R
UniRef90_U2B8H8 H K K Q V E D I K R R D L I A L G D M Q V T I W E T A W Y L R G M E N L F
UniRef90_UPI00042B1931 Y V I G E A L T T L R R
UniRef90_UPI00036EAF97 E L L Y L K L L L E K L A R G K E N V P I I F T I F S P I T T A D K L S N K Q L V S
UniRef90_F3ZX77 Y M P R L D A K I L E K G K G K V I I G G W I S L F E R M Q F L R S K P E N L Y
UniRef90_F0YW73 L V I A T S H L L E F Y E N N T D F F L I S Q I N G P V S A L D W A L G M E D Y M
UniRef90_F6DR64 K L L S A A G K L R Q E V D G S A L V A G A V A G P F T I A A Q V L G L E K L L
UniRef90_N6YXP6 V C L R A L R T M R G R L G D S A L V A G A V A G P M T A C A Q L Y G I E N A L
UniRef90_W7Y5T1 I E K A K Q S V E E V S D E Y F K M G I M W S H F Q D T C A F G M E D A L
UniRef90_G8LVS2 Y S E E D L A K R K R K S T D R A I Y A P F G G S L F E M G G F L Y R Q D N F L
UniRef90_S0G2K8 T L E A I Y R L A G S T V P V I G N V I G P I S L T S L A D P A I V Y
UniRef90_F0Y194 H V T R E I R S A Q L A E D L D R T L L G F S A A P W T L L F Y T V I G G S P G I
UniRef90_G5IMV1 R Q L E L V K R I L D K C D R Q A F L L G T L H G I C A E A R Y G Y E G E L S C
UniRef90_K6A6L6 E Q L R T N A L H L R E T T D K A L M I V C G C N L F E W G T F L R R M D N F L
UniRef90_C7N2T3 M N V D A A Q I C L D R Y G D E V G V S V T L P G A M T A A S G L Y P V I A Q L L
UniRef90_UPI000361127E D I P E K I E L H G D R F R V F Q L G F S L F E R A W S L R G M E N L L
UniRef90_UPI00035DE4B6
UniRef90_UPI00034FF73B Y V F H A I T L T R H K I E G K V P L I G F T G A P W T L M T Y M I E G G S K
UniRef90_UPI00035D11DD R E L T Y L R L L L E R V G G E V L V V I T V F S P L T I A D K I S G G K E S I
UniRef90_C6L8Y7 K L E A V I R G I R Q E A G E D V L V F Q T M F G P F K A S I A F G D D E S L M
UniRef90_B1ZRG0 L Q R I R M Q K Q R V F G T G E I M P I V T S R G P M C T A G F A R G T T E L M
UniRef90_UPI00036A5630 L V I N R L K L A Q K I E G H K L R F A V A R G P L N I A A S L L G T S E L L
UniRef90_X1P3N3 F V L E S I Q Y I P K H A K S K Y L Y A V A R G P F Q V A S Y T R G P T E F L
UniRef90_E1ICG4 R Q L R C L Q L V I A G A N E T P V I Q T I F N P L T V A A C L A G E R A I
UniRef90_R5TCU9 N Q L H L V E E I L Q K C D T S A F L M G T I H G I C A S A I H P I E A R Y F C
UniRef90_X1LYF4 L R G F E N F Y
UniRef90_F0YVM3 A E F E E M T K D K E K D D R F I M Y G F G F S M F E R A W S L M G M E N I L
UniRef90_W4UHF4 I E E A R A L A I T E L G K D V T P L I G F A G A P F T I A A Y L V E G G P S R
UniRef90_N9VRQ6 E Q V E R A K A I V R E L K G E C C I F Y T M F C P L S Y L R L E V G W D K M M
UniRef90_G0IC92 E Q V E L V K K I K Q E F T E D I V A I Y N I F A P V T Y L K W L G G D D L I A
UniRef90_UPI0003B3E5F8 Y V I E K A Y E E T G D Y G I C E G I I G N T F Y E F L T F F R E G G A V Q V I
UniRef90_D5EDG5 D T I D V A K G V I D H Y K G E A V V V T V F N S L T T A Q K M S G D K M F
UniRef90_F7KC94 D A A E C R R R V E M A P E G K T V L G I L W S A H F Q D T C A A F G M E T A L
UniRef90_J9YX39 F Q H Q A L Q N I R S A L P N K S L I G F T G G P I T L Y H F A T R N N P I A
UniRef90_W7UB10 F V H Q T L S D L R K E V G N Q A T V L G F V G L P Y T L A T Y I V E G Q S S K
UniRef90_W7YFH0 D F N S L N A Q L E K Y K D Y A I M T A P G Y S S P F R I V I Q R L I J R D S F M
UniRef90_D8F4Q1 A V L E T T K R L Q M V M G N K T D I T S V L T G P L T L S Q H L A G E T F N
UniRef90_UPI00025553C6 G E L R R R A L K L R E S S D R A I V I T C G C N L F E W G T F L R K M D N F L
UniRef90_R7J8N8 L Y A H L E R L V R E Y G Q E Y Y I I G R V H G T I F E T A W A L R G L D T L M
UniRef90_G7W6W6 L V I E R A A T E W Q K R G V Q D F F G S G R A H P F F N L S I M R S L E K F T
UniRef90_X1L9T7 A M Y L R G M D K F L
UniRef90_S0FB58 E L Y K N V E R L V K E Y G D E Y Y I I G I H C T I F E S A W A L R G L D T L M
UniRef90_R6UXH4 Y C N A P V J E D G R Y L R A W F S D G P W T R L W D Y R G M T N S L
UniRef90_F7NLQ2 A M A E K G K L L A D E N Q R T H R R G Q S T W G P D V L S M T R S L E K F F
UniRef90_B5JGE4 L Y L E A A K K L H E K V G H E I K I R G A I T G P F S L A S E L M G A E N F I
UniRef90_B8FW54 A E G L A K R A H D L L Q N T D Y A I A A H N Y G F F D T A W I M R G D N F L
UniRef90_R6FLE7 N E L R K R T L H L R E T T D K A L M I V C G C N L F E W G T F L R W M D N F L
UniRef90_UPI00046EF6A9 L V I A Q T Y D A L G E D G I L R T F I W G K Q G G C W Q D A C E L Y G V I E N L I
UniRef90_F3ZVR4 E L A K E I E H Q Q F A V C G G N S A D F H H Y L W M C G Q E N A L
UniRef90_UPI0003B75E97 A N M E G F E D M K H E I G D R G I V M L D L C D P M G M V I Y N M E F Q Y I
UniRef90_UPI00036DA30F K W E Q D A K R L H E E G K Y V V I A E H P V F G L E L G C W M C G Y D D F L
UniRef90_F8DHD6 E Q V E L V K K I R T G F E E D I V A I Y N I F A P V T Y F K W L V S G G D D L
UniRef90_UPI00047211C6 D Y T A Y N K A A A E G F E E A L I V P M L M P E F Q S L E F W L G T E L V
UniRef90_UPI00037FB2EC Q Q V A L T K K V R S H F T E D I V S I Y N I F A P L T H L K W Q F G D E L V A
UniRef90_G0IC90 Q Q V E V V E A I R A T F T E D I A S F Y N I F S P I S Y L K R W F R T E T S R
UniRef90_N9W1U8 R Q L D L V K R I L L E E A D G Q C F T I G T L H S V G T S A M Y H P F R K I F D
UniRef90_F9Q6R7
UniRef90_UPI00035F3816 K A C E F G E R G M I R G F I P G F D L Y G Q P G C W Q D A A V L F G T E K L I
UniRef90_H1D277 F Q I G Y A R K L V S L Y G K E V P L L F Y N L F A G V P R T I E F M Q H P V D I A
UniRef90_F0Z475 G L K E R A R H L Y Y D T D Y A I A S R A V S H G F F E L S W E L R G M E N M L
UniRef90_F6BCL4 E Y R K A I E Y C N S K N N T V F V S V S A P F T L A A I I R G I D R F M
UniRef90_R5IMY4 G Q I N R T K K I M E E I N G E C L A F Y L I F C P L S Y L R L E I G Y P K M M
UniRef90_X1BFY9 F G G G V F E Q P A R I M G M E R F L
UniRef90_UPI00046FB88D R E V E V C R R V N D Y Y G D D V P V L L A T V F S P F I W M G E M T G G F F H P
UniRef90_D6TLK8 E Q V T C V K R T L R G M L Q G D D Y P I L L T L F S P L T Y A I R F L G K E Q A L
UniRef90_UPI0003809A95 A Q M G Q I M R N R A I Y L J E E K P M T G F F L A P F D A L A D V M R G K G T L
UniRef90_V7EMW3 F G G V N I A T A T R D H K G K R C V L A H C W G M V E G T S S F L G I E N C W
UniRef90_C0WPPB8 K N V I H G K Y S F Y N G S P V T I L K W A L V D E T K E P L T N G D K R F A
UniRef90_G5HHL1 G C G K D V I F T M G T L H G I C A S G I H P I E Q A G V I N Y F A R Q M Q V

UniRef90_F0Z5N7 MNMIIANP EIIYEAVNEKVMFYLYKANKKFF EATKGI GNDM
UniRef90_K5ZUE1 VGIYIEPE DVVVKTL LDKCAYITAYC RELKAI GATGVIMAE
UniRef90_U2CUC6 MSMLICP DELEDEL FDRICCYLPMI DLALAEYD VDAVYFGD
UniRef90_UPI000471D179 MDMLLTPE IELVHYIMDRFCYWC DYIKYAMEY YTYDDI AAQ
UniRef90_J9MAX5 TWIYKYPE EESK KLL LDKIADL CVVDHL ALQVKA
UniRef90_K8WM77 MYEDKPNALLHL LLDK LADSVLYL LNAQQL RAGAQS IMFLFD
UniRef90_A6LRB3 ELIYEKPE NALLEHL LKINERFCTE WANMQI RAAGASF ITTID
UniRef90_R6WUS1 KDT RKNPE MHLKLL LDTVIECSLRWF EAFYHE FGSVGT NFD
UniRef90_D6DGI1 HIRSGHG EMSVKKAL LITETTTMEVA AEADIRL GADGIF FAS
UniRef90_T0MVD6 MALSTGE ASLLHL LMLNDL KE LLIHDI QADIKAGAE I QIFD
UniRef90_F7KND3 KDSVR RKE DLRLLDY CVIECNLS WIRATKEFGVLP VNI AET
UniRef90_UPI000477761F ADIRCNPD DAIEAAL RVI TDVVTIDFCLD ALIRAGA HGF LLA
UniRef90_R6VQ3 MDIFYINP GFVNE LLDVAI CVYDNLRL QIDKAL EYDIDAVYFGD
UniRef90_G2MTT6 VDMMLIDE SIAKCLVD HVGNTI LNLTKVYLE NVKDFLDIYE
UniRef90_Q8THF9 GDMNTNP DVV LKAVD KKCADYVAE VSRAFF EEDA C DALCL
UniRef90_UPI00037DA118 VDLVCNNDV DVA TALL EKMYEYQLKRVY SFLAE CGE GFI VIGD
UniRef90_G5HSV8 TLMHEQP DLVHRTL KNIITDT MAYSQKML DNGLFGV FVGT
UniRef90_V4PC19 DFVYD DNY QKVL LLDIVTIE ASAHYMQADNGA QV LKIFESW
UniRef90_R6BAC3 DWL KQEPN KQALHLVLDV I SDYAE LSKALV EAKV DGLI FLSV
UniRef90_DORNS8 NLLNNFLP VIEKIL EENITDLQFSVD LLDLMI FDT EAQH LN
UniRef90_F0YUH9 VLMMEEP DVAKHIL KRMLDFELEYYERTL JADNGQIQDFIR
UniRef90_W9E2Z6 KDFFKDEFL INRI LLIIEKFLKVH IKNQI DNGANVI QIFD
UniRef90_UPI00037F9B96 EFLREDP ETLKHLVLDV IAYDI AQLVKKVI TEAGA DGIYYS
UniRef90_U5PB64 DFLKEDP ETLAHLVLDV IAE DIALSRRL I EAGV EGIYFST
UniRef90_U2B8H8 CDMMS EETAVSLFD KVLLEISKI RARSYAEAGV DVLFFGD
UniRef90_UPI00042B1931 E V L H S L L Q K F A T S M A N Y I Q Y Q A D N G A Q V V Q I F D
UniRef90_UPI00036EAF97 RDLQGGCH KQVYHALLEVDITETTVN LAKAAI GLGADGV FAS
UniRef90_F3ZX77 RDGLGLQDEE IYKILKDLVMEFTFREYLKAWL NADVDGAI AFAS
UniRef90_F0YW73 CYCMTDP EELVAKLAD KIMDFE IGRAKMF LDKGAEALITD
UniRef90_F6DR64 LLLVDDP DKIQKLLH NVSILS QNFALAL LTAGA QVIMIMD
UniRef90_N6YXP6 YLAI DDP RLAAALDFSTR LAIRYGLAQLDAGA HAVI VFD
UniRef90_W7Y5T1 TMMMP DMFQAVI NRITDFYLE LNLGLFY EATIGNDFGSQ
UniRef90_G8LVS2 MDI VAE P QK VQATLE DKAVIE YCE DMKKFM DVYMGF GGDDM
UniRef90_S0G2K8 RALATDGMK IJAATL EHLTRH IAF AEEQI KAGA EVI VLA D
UniRef90_F0Y194 D F A R A N P D E T H A M L E A Y T D L V V E Y M S A Q V D A G A H A L Q V F E
UniRef90_G5IMV1 R H I R E D K K P V L E R A W K R I A D A G M C Q L A E A Y L E L G L D G I Y Y A G
UniRef90_K6A6L6 MDL L C P D Q V E R V L D E L L A T L E K V C A S V G D I V D L I R F G D
UniRef90_C7N2T3 R A K R K Q P E Q L H K L L K I C N E A I K L V C E E F I K L G A T P F L C D
UniRef90_UPI000361127E MD F H D R P G F V K N I L N A I A E Y N L A Q I E E A L T Y D I D A V Y F G D
UniRef90_UPI00035DE4B6 MYSRP D L M H R I L E I N A D A V A L Y L N T Q I E A G A Q A V M V F D
UniRef90_UPI00034FF73B R W L Y H P S A S H Q L L K Q L T D V I V E Y L V G Q V A A G A Q A L Q V F E
UniRef90_UPI00035D11DD T E E E K G G Q L F K S A G I E K I S K L T A E F V A E A I S I G A D G I Y F A S
UniRef90_C6L8Y7 K Y S K E A P E A V S A G I K I A D A L E E W A R G Y L N A G A D G I Y F S A
UniRef90_B1ZRG0 I D L V I E K P E W A H K L L D L C T R L I T D W L K A Q E K A T R D V E G I F L
UniRef90_UPI00036A5630 M A M M L E P Q K I Q R L L E K V T Q F L K D W L T Y Q R E I F P T I D G I L L
UniRef90_X1P3N3 I D L K L R P E I A T K L L D I C T Q T A I S W L R A Q L A V M D D P V I G I F L
UniRef90_E1ICG4 L W R R R Y P E I F Q R G F A M L I E T W R N F V E A V I S A G A A G I F F S T
UniRef90_R5TCU9 S H I R E N K K T F A I E A F K R I T D G M C Q L S Q K Y I E M G L D G V Y Y A A
UniRef90_X1LYF4 MDL V K N P E F V R I L M D K M V E F Y V Y W E E I L Y V Q L I K M G D D L
UniRef90_F0YVM3 C S M L A C P E E T E E F F G K I G D Y F G H L V D I A L E Y D F D G I Y F G D
UniRef90_W4UHF4 D H M H S D P Q T W A R L M E W V A D
UniRef90_N9VRQ6 E C M R E D P D A V R Y A C D I I A E D V C S L V E G L L E E A G C D G V F Y S
UniRef90_G0IC92 D F L V I Q D S Q K L K K V L D V I A Q D I A S L S Q A I I D A G V D G I Y L S V
UniRef90_UPI0003B3E5F8 F D L Y E H P D Y F R D V Q K Y I E Y T G I A E Q T C L K T S V D G I F L N C
UniRef90_D5EDG5 I H M R Q N P E A F R E G I E T I T Q T I N Y V K E L V N A G A D G I F F A S
UniRef90_F7KC94 MNMIIANP EIIYEAVNEK VLE FYLYKANKRI FYEA HAVL I GNDM
UniRef90_J9YX39 DNL LQEQA P V L Q K L L E K N I A L Q F Q N N I D L L M I F D T E A N Q V L T
UniRef90_W7UB10 K M M F Q E P A L L Q Q M L S V L A D N I G E Y A C F Q L D A G A Q V I Q V F D
UniRef90_W7YFH0 E V M M S H P K F F K A L C D K V I D F Y S S F I D E F F E V A Q N R D F G S Q
UniRef90_D8F4Q1 K N I S D D F S E A Y D V L R H A N T L C I R L C K C Y C E R K V D G L T Y D
UniRef90_UPI00025553C6 V D I L Y T E D L L D V L M E I H L Q S L E K V C N A V G D I V D I L R F G D D
UniRef90_R7J8N8 T D F Y L N P E L L T N H L L D E T Y L Y H K E V V C Q M V R R G V D M I W L G D
UniRef90_G7W6W6 E D L Y F K P D K V I E Q A I K K M T D M I P R V I Q E C K F E Y G V N Y D F L N E
UniRef90_X1L9T7 MDL V L N P K L V E A L V G K L L E F H L E H N R R I F E A M L G D S F G S E
UniRef90_S0FB58 T D F Y I N P D L T N H L L D E T G G F H K E V A K K M A Q I G V D M I W L G D
UniRef90_R6UXH4 MDL Y T N P E D V F H V C R R V V D G F F K R A A K R G V E E A H I D G I A F G
UniRef90_F7NLQ2 K D V I Q I P D K V F E A M Q I V I T D G M I A L A D Q A D Q I G I R R F I G D
UniRef90_B5JGE4 V M T M Q D P Q Y T V K L M E F T A R V A A A F G K A F I D I G I D P I I F D
UniRef90_B8FW54 V D L M I N K P F A K R L L G K I L D L F L G L H E V Y L N A H M I A F C E D Y
UniRef90_R6FLE7 MDL L C D P E D A V R M L D Q L L E A T L E K V C A S V G D I V D I R F G D
UniRef90_UPI00046EF6A9 L M T Y D D P E W V H E L L Q L L L G Q K L A Y I E E N L P G M P F D L V E A S
UniRef90_F3ZVR4 C Y L K S Q P D V A K A I I R R L T D F F V E Y L K K V L E A D I E N C N D F
UniRef90_UPI0003B75E97 Y L L T L N R K K F R K L L D F F A E R L H N F L C S V L E Q G G G P L F R G P
UniRef90_UPI00036DA30F L R I M A D P D F T K K F F D K V M E A V S E Q Y Y S V L G P Y I T L T S G D
UniRef90_F8DHD6 I A N F I D Q D A L K K V L D T I L G Q D I A S L S Q R L I E A G A D G I Y L S V
UniRef90_UPI00047211C6 Y A L M D Y P D E A V L E A L R R V D R I A V E I S A G S D A E V F L T W E D T
UniRef90_UPI00037FB2EC G F L R E D P E L F R H V L N T I A K D L A I L V K K V I E A G A D G I Y F S V
UniRef90_G0IC90 D L F L E N P E L F R D V L D V I A E D I A I L T K K L I Q D G G A D G I Y L S
UniRef90_N9W1U8 A W L N E A P E K V L E S M K R I T D G L C E L A V K Y I E A G L D G V F V A S
UniRef90_F9Q6R7 M Y A E P A V L H A L L D K M A E A V T L Y L N G Q I K A G A Q A V M I F D
UniRef90_UPI00035F3816 M E T F Y D P E W V H T F L K T V L G Q R K K H Y I K S M H G T Q F D V I E H G G
UniRef90_H1D277 S W I Q D Y P E E T A H V F D L S K D Y A E L A K A L I E G G V D G I Y L S
UniRef90_F0Z475 V D M L V D K E F A N K L L D K T L E I T Q M G L Y D V L L S E C G E Y L Q I V E
UniRef90_F6BCL4 I D L I K N K K F A K D L L K K T E L S K I V I E D I K D I A Y P F V V D
UniRef90_R5IMY4 Q F M E D P E A V L Y A E N V I A Q D V K V L V K G L I E A K V A G I F Y S V
UniRef90_X1BFY9 T S I A L N E K F A N M A M E K I T E L Y V E N C E R Y L N E I G K Y I Q V I V
UniRef90_UPI00046FB88D E V I L S H F E Y A R A A L E V I S E T N E R L M E A F V D A G A G F F L G Y
UniRef90_D6TLK8 K A A K Q Q P D L L A G E L G T I A S N L Y K L M E A A L E A G A N G I F F S C
UniRef90_UPI0003809A95 L D I Y R Q P D K V L E A C D V L V D E M V N L A L A T A D P L K R Y P I F V
UniRef90_V7EMW3 M N L G G N P D L M A N F F D R Y A D W M C V Q V D Q M V E A G V D M M T L S D
UniRef90_C0WPPB8 D L Y A Q S P E L L H D V L K R I A G D I N K Q V D A I I D A G A D G I Y S T
UniRef90_G5HHL1 D F L R W D E K K M L S A M E R I T D V L C D L A K S Y I E A G L D S V Y F A S

UniRef90_F0Z5N7 G S Q R G L M L S 210 P D M V R K F I I P G C K R L V E Q A H S Y V I Y H S C G S L 240
UniRef90_K5ZUE1 P A A G L L S N E D Q E Y S T V Y V R Q I V E A V Q D E N F A V I L H N C G N K
UniRef90_U2CUC6 D W G Q M G P N H W R H F L K P R M A R L Y Q R V K A G G K Y V I Q H S C C G D C
UniRef90_UPI000471D179 D S L I V S S E M L E E F I Y P Y H R K L N A L I K G Y G K K L L Y H S C G S V
UniRef90_J9MAX5
UniRef90_K8WM77 T W G V S L T I Q R D Y L D F S L N Y M Q K L I D G L R R V P V T L F T K G G
UniRef90_A6LRB3 S M S G S S I I P K S I Y L K T G F L S A K R T I P T I L K S D V A I A I T S S A S
UniRef90_R6WUS1 P V T C M D V I S K A Q F D E Y S L P Y I K K L I D G T K K I M G A H I C G S K T
UniRef90_D6DGI1 Q M S S Y D T M T A E E Y M E Y G R P Y D L R V L E A A G D G W L N T L H A H G
UniRef90_T0MVD6 S W L G F L P Y S F I K N H Y L K L P Y E Q I S A E I H S L N S H L I F S T G T
UniRef90_F7KND3 P A A S L S V L S K K Q F L E F E K P H L Q D M I A G I K R M P T T H I R G K T
UniRef90_UPI000477761F Q L A S H R L L T V T E Y E R F G A K Y D L E L E A L R G R C Q F N M L H A H
UniRef90_R6VGQ3 D W G Q M G Y D L W R E F I Y P R L Q R M Y G R V R E A G K Y V M I H S C G D V
UniRef90_G2MTT6 G S Q A G P L I S V D L F N K Y F K P W Y K K I V E L V K G M V L A H S C G D F I
UniRef90_Q8THF9 N W S N N V I M G Q D D Y W F D G Q F V Y N K H V P V N K M P Y I I H N C G A D A
UniRef90_UPI00037DA118 D L A T A E I M S P K T Y R D L V K P Y H R E Y F K N K M A L I H S C G S I
UniRef90_G5HSV8 G L S R S T Y L T K E E W E E F V K P Y D L M L M E V L K P C K I M V H A C G L
UniRef90_V4PC19 A E G F P D P Y F D S L I Q P H I R L I A R V I R A L G V T L P I I G F P R G A
UniRef90_R6BAC3 N N I S C D E N V T E E A Y R T I A P Y E Q I A N R A G G E N I L H I F C G Y H
UniRef90_DORNS8 L D E F N K N V K P F I E K I A H K Y P G K I G Y F T K D I D D E K Y E S L K
UniRef90_F0YUH9 P H M L F S M D M W R E F F K E N T K R L V N L A H K Y G A F Y Q Q H S C G A I
UniRef90_W9E2Z6 S W A G L L D E K D L P N Y V Y S P T L N L V N Y V K S L K V P V I C F P R E V
UniRef90_UPI00037F9B96 A Q N I Q A R G I E R D Y V S E S D L I V L E A A N R V Q G Q T I L H I C G Y K
UniRef90_U5PB64 Q Q I Q D E R V T D E E Y R E P S S L I A V L E A A N E A G G E I N L H L H C G F E
UniRef90_U2B8H8 D M Q H T T M M S E E L Y C S W L K P R L K E L V D M V K E I N F Y H S C G F V
UniRef90_UPI00042B1931 S W A T E L S P V D F E E F S L P Y L K Q I V D S V K Q T H L L L Y A S G S
UniRef90_UPI00036EAF97 Q M S S Y R D V M T A E L Y E E Y G K P Y D L R V L N A A S G G W M N V L H A H G
UniRef90_F3ZX77 D W G S Q R P N I W R S F F K P L Y K E L F D M I K D K G Y I F H S D G Y I
UniRef90_F0YW73 D I A F N T L L P P E A M E T V A Y P F Y K K V I R E I K A Y K I F H S D G Y L
UniRef90_F6DR64 P V S S Q S I I T P G I F R N F S F P L L R G I E K G C R R A C W L A I T G R T
UniRef90_N6YXP6 P A A S P A V V P P G G F R E F L A P R L E R V L A A L R D F T W L N I A G P T
UniRef90_W7Y5T1 T A L M V D P D M L R S Y V I P G T K K L I D Q A K S Y G L K V V H H S C G S I
UniRef90_G8LVS2 G M Q N G P Q I S P E T Y R N V I K P F H K E L W G Y A K L K L C L H C C G G I
UniRef90_S0G2K8 P G A S G E I I G G E Y F K T L A A P A I N Q I I R A V R G R G I P A V L H I C
UniRef90_F0Y194 A M G M T L G R H D
UniRef90_G5IMV1 L G A E T R Y Y T D E E Y F A E C I E P F R D K Q I L Q V V K E K G G Y N F L H M C
UniRef90_K6A6L6 D M T T G P F M D P D D Y F A T L F K P R H K Q L C D Y V K M H T F H S C G S I
UniRef90_C7N2T3 P V A S G T I T N E K E F R E F S L P Y T Q E V F K F C H D N C G Y H I C G S T
UniRef90_UPI000361127E D W G Q Q H P V L W Y E F M Y P V L K Q M Y G L V R E S G K Y L F H S C G D V
UniRef90_UPI00035DE4B6 S W G G V L A D G A F Q F S L A Y T A R V L A Q L K T E H V F T K G G D L
UniRef90_UPI00034FF73B S H A G C L G P Q Q F S D F S L P Y L R D I S R R V K H K P M I V F A K D A
UniRef90_UPI00035D11DD Q V F S T F E R L S A Q Q L E Y G R P Y D L K V L E K A Q N A W F N T V H L H G
UniRef90_C6L8Y7 Q F G E E G R F T K T E W E T L V K P Y D L Q I L Q V A Q N Y I L H I C G E P
UniRef90_B1ZRG0 L D D I V G F V N E E H Y Q E F C H P Y L K R I C D A F P K D W I Y H N D A E V
UniRef90_UPI00036A5630 L D D L I G F I G K N E F V K F A L P C F Q E L F A I D V S V K F L H N D A P C
UniRef90_X1P3N3 P D D N A S R F I S P E L F R R F G V P V Y K R I F
UniRef90_E1ICG4 A D A T Y R R M S E E E Y M R W G R P S D L E V L S A A R A G W F V L H I H G E
UniRef90_R5TCU9 L G G E R H Y F T D E E F E E L I E P Y D K Q I L H T V K E A H G Y T F L H M C
UniRef90_X1LYF4 G Q S G P L I N P E L Y G E M V K P R Q K K V F S C I K E A Y L H S C G A I
UniRef90_F0YVM3 D W G Q M G L E H W R H Y T K P Q M A K L Y K K V K D K G L F V L Q H S C G D C
UniRef90_W4UHF4
UniRef90_N9VRQ6 V Q N A E I T R F T Y D E Y R S W V T P S D K Q A N T P G H Y T I L H C C G W D
UniRef90_G0IC92 Q S I Q D A R V S A E A Y Q E T I E P S E L N A A K S V G G V N I L H I C G Y E
UniRef90_UPI0003B3E5F8 G S S T L D I L G P E L F E K E W D L P V I K A V G E V A K R Y D K I Y H Y H L H
UniRef90_D5EDG5 Q L G N Y D K M S V A E Y E T F G R P Y D L S L E H A K M W F I M H M H G N
UniRef90_F7KC94 G S Q R G L M I S P E L V R R F V I P G C R R Q A H S Y G L K V I Y H S C G A I
UniRef90_J9YX39 D Q E F Q D F C L P F I L K Q L A D Q Y P N Q I G Y F T K N I S P N K F E L L K
UniRef90_W7UB10 S W A G H L S P A D Y D I F A A P Y Q R Q V I E K I K A K H I I Y I N K S
UniRef90_W7YFH0 T G L T I G H D H W D N Y T R P S I D A F T A K P K A L G V H F Y M H S C G G V
UniRef90_D8F4Q1 T L L S K L N S E T E K L V K P F Y R T L F N V V D Y F N L Y F I I F V G S H P
UniRef90_UPI00025553C6 G M T T G M F M S Q E K Y Q T I F K P R H T K L C E Y H H K T F L H S C G S I
UniRef90_R7J8N8 D M I D P D L W R E Y F K P R M A D I I R T A K A M N P Q V K I A Y H T D G C N
UniRef90_G7W6W6 L R A S T Y F P L E I F E R F W M P Y T L Q W S E G I V T N L V Q T N W D K
UniRef90_X1L9T7 N G L L I S L P M F R F K P A L R C L I D S A K K F N L K T M L H S C G A V
UniRef90_S0FB58 D M G A Q D M I D P E L W R E F F K G R M A D I R T V K E I K P Y H T D G C N
UniRef90_R6UXH4 D M Q K G P F M S P E M F R E F Y P Y Y C E Y A H S L G L H V W L H S C G D V
UniRef90_F7NLQ2 S R S A Q W I S L K N F E R I F L P V M K R L V N G L N E K G I I H F D S D W
UniRef90_B5JGE4 S R A M P P L C S P Q I F Q K V Y R R I L I P E L K K A G A K Q I P L I I G D
UniRef90_B8FW54 G M Q N A P F L S P E L Y K E M L Q P Y H K E L V F A F I K K K I M F H S C G A V
UniRef90_R6FE7 D L G M T T G P F M D L Y K P R H K Q L C D Y V K S H S N H T F H S C G S I
UniRef90_UPI00046EF6A9 S N T V I S P D I H E E F C L P Y D I K M H D A L K K H G F R S V Y H T C G G M
UniRef90_F3ZVR4 G T Q R S M F L S P D D F R E F F L K R L Y D T A K E Y G V M Y M Q S H C G A I
UniRef90_UPI0003B75E97 E A C T P P Y M H P E L F R E F V V E Y D R P L I E K I G C F A R L H C H G I
UniRef90_UPI00036DA30F D F G M Q P L M S P E M F E A V I A P Y F S A R I E I G K C Y F W H H S C G S I
UniRef90_F8DHD6 Q S I Q D A R V T Q E V I Y K N I A P S E L H V A N E A G G V N I L H I C G Y E
UniRef90_UPI00047211C6 S T T N I S P S Y Y K Y I L P E L N E W S E I L E S R R K M Y M Q H A C G H L
UniRef90_UPI00037FB2EC Q N I Q F E G V S G S D Y V N F V S P I V L E A A N S V S E L N I L H I C G Y K
UniRef90_G0IC90 T Q E I Q D E R I T A E L Y Q T Y I E P S N I K V N Q V G G V N I L H I C G F Q
UniRef90_N9W1U8 L G A E R R F G T R E Q F I E W V A P F D Q M I M K T V K D A G G Y C F L H V C
UniRef90_F9Q6R7 T W G G V L G H R E Y L E F S L I Q Y M H K I V H D G R R V P V T L F T K G G
UniRef90_UPI00035F3816 G D A S T V T S P K I F E E F V A P Y D K E L I H N A G Q S V V Y H T C G G M
UniRef90_H1D277 V N N I S Y D R L T E D I Y E K Q V A P Y E V R I N E A G S N I L H I C G Y H
UniRef90_F0Z475 T A D D Y P I M S P E L F E E M I L P R R K K L N D F I K V K I F H H T C G S V
UniRef90_F6BCL4 A V A S S S L T S P E F Y R E F A F K P V K K V L K L C D F P I L H M C G D I
UniRef90_R5IMY4 Q N A E N R F T Y E T Y R K Y I T P E K D Y A N T L S D M V L H C C G W E
UniRef90_X1BFY9 Y W N D I P L I S P D T Y R R L I K P K D K R I V E M V K S K F F Y H C C G A A
UniRef90_UPI00046FB88D Q C G M A K L M G R D M E F D E C A R K Y D V R N I N A L K W F N M A H T I C H G D
UniRef90_D6TLK8 M G A T A D L T L D E Y A A V G Y P Y D L Q A L R G A N G G W L N T I H G A D
UniRef90_UPI0003809A95 P T H K A C F L S P K Q F D T F Y W S F K K T M E R I G Y T I R A Y L E G D W
UniRef90_V7EMW3 D W N G T M L F S P K S W R E L I K P A M R V V Q H A R S R G M P H S D G Y I
UniRef90_C0WPB8 Q S I Q D D R A D N K D F D Y I K P A D F S V I N I L H V C G F D Q A K
UniRef90_G5HHL1 L G G E T C F F T D E E F E K W I K P F D L R I M K A I K D A G G Y C F L H I C

UniRef90_F0Z5N7 T D V I P D L I G A G V D I L V H P L I Q A L A A G M E L K E K F G D Q V A F C G G
UniRef90_K5ZUE1 G Q C T Q A M I D S G A A A L H F G N A V N M V E T L E Q C P S D L I V M G N
UniRef90_U2CUC6 H E I F P D L I E I G L D C Y Q T F Q P I Y D I A E M K K L Y G K D L T F W G G
UniRef90_UPI000471D179 T T Q I G S L S R L P I D L L N P I Q T S M D L Q L I K E K W G D T L C F H G A
UniRef90_J9MAX5
UniRef90_K8WM77 G Q W L E A M A A T G C D A L G L D W T T E I A D A R R R V G D K V A L Q G N
UniRef90_A6LRB3 S S S I L E E I L E S G I K A I L V S H T D D L A E I K K K V G Q R A T N L Q N G
UniRef90_R6WUS1 S P I W S D L A D A G L F S F S I D N C E D L E V A K K A V G D R M R I A G N
UniRef90_D6DGI1 N N I M F E V L K D Y P V S V F N W H A W E T L P D L D E A F C L T G K C L M G
UniRef90_T0MVD6 N H I W E M L K E I N P D V I S I D W R M D I F Q A Q N F F G R E T T I Q G
UniRef90_F7KND3 K G I W E D L T E M G F T S L S V D N S E D L E E V K H C V G D R M R I S G N
UniRef90_UPI000477761F G D D L M F D S S Y P V Q L F N W H D R L T D P D L R R A R Q K F S Q V L V G G
UniRef90_R6VQ3 D E L F D D L I S I G L N C F N P F Q P E V M D D D L L K R Y R G R L A F H G G
UniRef90_G2MTT6 T P F I P E F I D A G I D T I H P L Q P N T G M D N T A I K K E Y K Y V I T F L G
UniRef90_Q8THF9 V H Y D I Q I S K F G T A L Y S Y A Y Y P S G K K G S Y S Y Y G K T C C M M G
UniRef90_UPI00037DA118 A P F I P D L I E I G V D I L N P I Q Q G M D T K V L K E R F G R D L C F W G A
UniRef90_G5HSV8 E V N P E Y F A H Y P I D I L H W P E S A T G N P S L D S A P L W L D K S I T P
UniRef90_V4PC19 E A R C H D Y I D Q V A V Q G L G L G T A T P M K L G L E L Q K K A P I Q G A L
UniRef90_R6BAC3 G F H N H L S W Y R E Y P L D I A V N W A K V E E G K K L F Q G K A V I G G F G
UniRef90_DORNS8 S I K D L K L T V V I G F N Q D I F S K L S N T D L S L Q G N F P N Q Y L A T E D
UniRef90_F0YUH9 A P L T P E L T D C G V D V L E P L Q K V P G Y P E D L Q S H R G K I C F H G G
UniRef90_W9E2Z6 K N Y K E F C E I V K P D V V S I D Y N V D P K N I L K N I K L P I Q G G
UniRef90_UPI00037F9B96 G A S N D V T V F K N Y P V Q V I V N W A V E P E K E G Q K L F G G K T V L G G F
UniRef90_U5PB64 G A S N E V E L F K D Y P A Q V I N W A T H H E A E G R K L F G N R A V L G G F
UniRef90_U2B8H8 E P F I P V H L I E A G I D V L N P I Q E C M D F K E I C R K Y G D R I S F H G T
UniRef90_UPI00042B1931 G G L L E R L A L T G V D V V S L D W T V D M A E G R K R L G H D I A V Q G N V
UniRef90_UPI00036EAF97 N N I M F E I L K N Y P V P I F N W H A W E T L P A I D E A L T L T G K C L M G
UniRef90_F3ZX77 M D L C P E F I E M G V S A V N S Q L W C M G V E N V A E R F A G K I T F W G
UniRef90_F0YW73 Y D V L Q D I V D C G F S A I Q Q P S A G M D I E R V K K E F G D K L C L T I G N
UniRef90_F6DR64 D G F F K L Y P A R T G A D L V T F D Y E V S M E R A F S L L P R L V I Q G
UniRef90_N6YXP6 A G I L D C Y A R T G A D V A T F D Y Y L S A A E A C R L L P R T C L A G
UniRef90_W7Y5T1 F P I I Q D L Y D M G V D I V H P I Q A S D M S A E H L S K E F K K G A F C G A
UniRef90_G8LVS2 Y P L I P E L T D A G M D A I N P C K G M D I V E L K K N F G K D T F W G G G
UniRef90_S0G2K8 G N I M A L A G A L A P I P W D A L S V D S V V S L K K L K P F F P G R A L M G
UniRef90_F0Y194
UniRef90_G5IMV1 S D G L N M Q R Y A S Y R N W G V Y E T H F S L E E G R E L F P G V T I M G G L
UniRef90_K6A6L6 K S S L M P H M I E A G I E V F N P V I Q T N M S P E F L K K E F G Q D C T F W G G
UniRef90_C7N2T3 T K L T Q A M S E S G C D M L S V D D A V D L S Y V K E V C G D K L P L I G N
UniRef90_UPI000361127E D E L L D D L T D I G V N C F N P F Q P E V M D T A L M E H Y R G Q L T F Y G G
UniRef90_UPI00035DE4B6 W L P E M A G L N C D V L G D W T M N L G R A R A Q V G G V G G P G K A L Q
UniRef90_UPI00034FF73B H Y A L E D L S Q S G Y E V V G L D W T I R P Q E A R E R T G K R V T L Q G N
UniRef90_UPI00035D11DD N K I M F D V K D Y P V I Q A I N W H I G E S Y P T P R E G Q I Y S Q K V I M G G
UniRef90_C6L8Y7 E Y H F R T H V D W F A D Y P N W S V K D N G Y S L E K G R E T F S C A I L G G
UniRef90_B1ZRG0 Q A C L D Y L P D V I G F N V L N W G K Q T D I A E V K E R V G K R M C L M G N
UniRef90_UPI00036A5630 K V S A P F L P E M G V N L F N M G Y D L S L Q E L K Q L T Q N Q V V L V G N
UniRef90_X1P3N3
UniRef90_E1ICG4 D L M F K L V A D Y P V Q V L N W D D R R A G P S L R E G Q A L V S K A V A G G
UniRef90_R5TCU9 K N N L N M N R Y K T Y G N W G C Y E T N F S L E E G R L L E F P D T A V M G G L
UniRef90_X1LYF4 Y E F I P D L I E S G V D L N P V I Q K G M D T K R L K Q E F G D R L S F W G A
UniRef90_F0YVM3 H E I F P D L I E M G L D C Y Q T F Q P E V Y D V E M K R L Y G D K L S F W G
UniRef90_W4UHF4
UniRef90_N9VRQ6 N R M E V W K D Y E S A L V S W A M Y V D H L D P V Q I R E F F G G R A A W G G
UniRef90_G0IC92 G A R N D I H I F A D Y P A H V F N W A V G P E K E G R E I F K G R A V L G G F
UniRef90_UPI0003B3E5F8 G K G R K L D D D I F E A G V N M L C P L E T P D E V K A A F C C D L A L K G G
UniRef90_D5EDG5 A P M F E M M S Q Y P V Q A L N W H D R L V D I D L R K G R L C G D K L I G G
UniRef90_F7KC94 S D I I P D L T D A G V D I H P I Q A G M E P E G L K E K F G D R V S F C G G
UniRef90_J9YX39 Q I T S S L Q L T V L G T Q H N I F Q E L S Q T H L S L Q G N F S N D L T I P E
UniRef90_W7UB10 G A L L E R M A Q S G A D M V S L D W T V T M E E G R R L G S E M G V Q G N L
UniRef90_W7YFH0 R K L L P N F I S A G A E V L D P I Q T R M D P E G L K K D Y G K L I T F C G A
UniRef90_D8F4Q1 S E T I E D I F E F D A K G I V S G D T D L G N L A D L A E K N G K C L G
UniRef90_UPI00025553C6 Y P I M G D I E A G Y D I N P V Q K Q M D P V A L K K E F G K D I V F W G G
UniRef90_R7J8N8 Y D I T P E L I E I G L D V L N P I Q T E C M D P E I L Q E K Y G D Q C F F G G
UniRef90_G7W6W6 N L P Y F K H F P K G A V C L G L D G S T N I F E A K K L L D G W C S F H G
UniRef90_X1L9T7 R E I I P D L I G M G L D I L N P I Q I R M D P E D I L K R E F G R D I C F H G S
UniRef90_S0FB58 Y D I I P D L I E I G L D V L N P I Q T E C M N P E I L Q E K Y G D Q L C F F G
UniRef90_R6UXH4 R K L L P D I I K S G I D V L H P I Q K Y A M E E I L A D T F G N Q I S F W A G
UniRef90_F7NLQ2 T R N L P Y M L E L P A K F V V Q L D G S T D I F K A K E L N G H C A V M G
UniRef90_B5JGE4 T T P I L D A I I D T D T Q I L C D F E G D I E L F K K A I D H N L P M R V
UniRef90_B8FW54 Y P L P L L I E A G I D V L N P I Q H T M D P L K L K Q E F G S E V I F H G G
UniRef90_R6FLE7 S S L M P D L I D A G I E I F N P V Q T N S L N M E K R E F G K D C T F W G G G
UniRef90_UPI00046EF6A9 T R I A D L I A K N H C S V S G D I G D R E D E Q K V Y N A L H P F V G L I G G
UniRef90_F3ZVR4 A P I T P D F I E M G A D L N P I Q V M M D I E R L A K E Y K G K I T F Y G G
UniRef90_UPI0003B75E97 R Q V A E M I L E M E P D A I P V E A P P G G D E A K H I L G Q N I C L M G
UniRef90_UPI00036DA30F F D L L D K I I A C G V D I L N P I Q T S M D P A R L K Q R F G D R L V F W G G
UniRef90_F8DHD6 G A R N D I H L F T D Y P A Q V I N W A V G P E A E G R E I F G G R T V L G G F
UniRef90_UPI00047211C6 Q A L I A G S K V H G I E S I S P A P T G N I V M K E A R R V L P K E K L V G
UniRef90_UPI00037FB2EC G A S N D V D I F K N Y P A Q V F N W N I S L K E G Q E L F G G R T V L G G F E
UniRef90_G0IC90 G A S N N V T Y F K D Y P A Q V F N W A T H H E P Q G G E L F H G K A V L G G F
UniRef90_N9W1U8 N D V N L D Y R D Y D N W G T F E V P C S I R E G R E I F H Q K T V M G G L
UniRef90_F9Q6R7 G L W L E A I A E T G C D A V G V D W T V N L A D A R A R V G H K V A L Q G N
UniRef90_UPI00035F3816 M P F L E K I A D M G A D A M E T F T P V S M G K E A K K R I G S R V C M I G G
UniRef90_H1D277 G F H N H W Y K D Y P F K A V N W A K V E G K E G K A L F H G K A V I G F G
UniRef90_F0Z475 Y R L L D G L I E S G V D I L N P V I Q P S A D D M D T Y R L F G D R L I F H G S
UniRef90_F6BCL4 N P I L D D I K K T G S K V I S F D D N L E I S K A F E V I F N D L I V I G
UniRef90_R5IMY4 G I P N R L E D W A D Y K T A V V S W A R Y L E K A K E K F G R T V W G G F D
UniRef90_X1BFY9 G E F I P D F I E I G V D V I Q V S A V G M D T A R L K K E F G N D T F W G G G
UniRef90_UPI00046FB88D A G T S Q W F L D Y P V Q D A F N W
UniRef90_D6TLK8 Q I Y F E F D R Y P A Q V L S W S D R L T G P N L E E A R T L T E K C L M G G
UniRef90_UPI0003809A95 G H H I H H M L E L P K G K V L C D I D N Q G D I F K A K E V L G G H Q C V A G
UniRef90_V7EMW3 M Q I L D D I E M G Y T S W H P V Q E S M D P R E I K A K Y G D K I V I Y G S
UniRef90_C0WPPB8 N H E W Y T D Y Q L Q I N W S T H V D G Y T L R E G K K L F G D R V V G G F G
UniRef90_G5HHL1 K D G L N M E R Y R C Y A N W G V F E V P Y D M E E G R E L F G G K T L M G G L

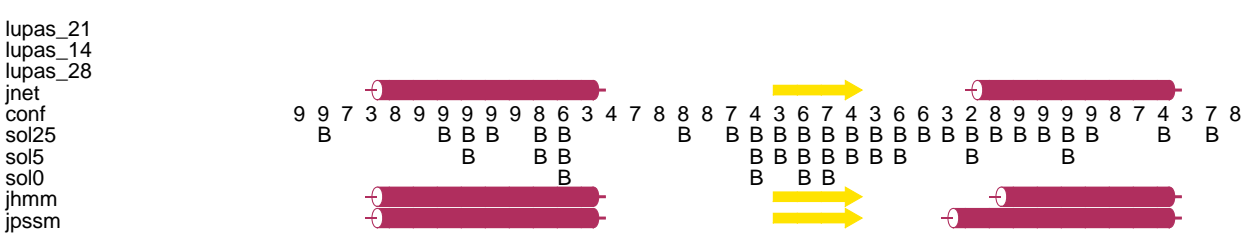
UniRef90_F0Z5N7 V D T Q D L L V N G S P E D V R N K V K E L R E P T G L I I S P S H E I M P D V
UniRef90_K5ZUE1 I D P V G L L K Q A T S E E V Y R I T A D L L S K K N F V I S S G C D M P P L V
UniRef90_U2CUC6 I S T Q Q C L P Y A T P E E G V R D E I T R V R E N G G G Y I L A P T H A L L S F D V
UniRef90_UPI000471D179 I D T Q K L L P A G S V E E V K E E I R R V G K N G G Y I L M A S A H Y L Q N D T
UniRef90_J9MAX5 M D P S M L Y A P L P R V I E E E V Q H L L A G F G H V F N L G H G I H Q D Q V
UniRef90_K8WM77 I E M C R W T R F D A E Y N R I K E A I R K A G V G G G F I L C D S G G D I P Y Q V
UniRef90_A6LRB3 V P P V D V M K E G T I D E V T A S C K E C I I K A G F I L N T G C Q L P I G T
UniRef90_R6WUS1 G L Q R M D I T N R N K N A I Q H Q I F E S L K G L H Q I L T P G C V I R Y P E T
UniRef90_D6DGI1 N L D P V I A A T D S E T S L R E T G R N L L W K D H Y I L F N L G H G V L P E T
UniRef90_T0MVD6 V P P V E V L K Y G T I D E V T A S V T S C L K K G G Y A L A A G C Q V L P P G V
UniRef90_F7KND3 L N E H N T L V R G T P Q E I A G E V M D A I E E G R R L I L G P S G C V L P V A T
UniRef90_UPI000477761F L S M Q K T L P F G T V E D V A R E S R H L E E G G Y I F S P S H S V L E G D T
UniRef90_R6VQ3 A V D I Q S A L P S G V E A T K K E V K E L G D G G G Y I V A P A N H I G P D V
UniRef90_G2MTT6 E V D P I Q F L D N S P E G I Q K L A I Q A L K E N G F Q M S T G C E I P P G A
UniRef90_Q8THF9 V D T T F V L P E E D V R R E V R R I E D L G P E G Y V L C A V H D I Q P D V
UniRef90_UPI00037DA118 M G G C D E R L F G Q H K A E E R H T L K R M K E I P F I L A P D C S L A L N T
UniRef90_G5HSV8 D P V V L R S G G K A L D Q A I D L I V E N W G Q G P L I F N L G H G I F P D T
UniRef90_V4PC19 Q T E K D L I Y S G T E E A I K A E T R R L D E A G R I L G A D C T I P R D T
UniRef90_R6BAC3 I D E F K K H L D N F I K Y I K D Q D L A K R A G W I C S L D H G V L K T T
UniRef90_D0RNS8 I D T Q N L M P H G T P E Q V A H E A R H Y M E G G G Y I L M S S Q G L E P D V
UniRef90_F0YUH9 L D P K I L L T D K E T L K K E V L E I F K D H P Y I F N L G H G I L P E T
UniRef90_W9E2Z6 E N T E H S L L Y T S K E E V Q A E A K R L I G K R G I I G A D C T I P S D I
UniRef90_UPI00037F9B96 V N G K K G L L Y Q G E E V I Q E T R R L V A E R G L I L G A D C T V P D D F
UniRef90_U2B8H8 I G T Q T V M P F G T P Q E V K K A V W D N L E K G G L F V A P T H L E P E V
UniRef90_UPI00042B1931 D P G V L F G S K E F I T N R I N D T V R K A G K G K H V L N L G H G I K V I G T
UniRef90_UPI00036EAF97 G L S R A D I T A R N K N A I Q H Q V F E C C K N G G R H I L T P G C V I R Y
UniRef90_F3ZX77 I S R Q D I L P H G T P E D I R K T A E K M V N G G L I G S E V G K D V
UniRef90_F0YW73 V D L N Y L L P F G T P E D V K K E V K D L A K K A G F I L S T C N I L T D A V
UniRef90_F6DR64 N I R P F D F V I R G P G E I R R E C L D L Q R A P G Y I L G T S G C E I P L N S
UniRef90_N6YXP6 N L K S L D F L D A A P D R I E R Q A R A L V A A G G F I L S T S G C E I P P E
UniRef90_W7Y5T1 V D A Q E L L V N G T P E D I K K R I L E L L F P T G L I I S P S H E I L P D I
UniRef90_G8LVS2 C D T R D I L P N G T P E Q I K D H V R R M F R D G G F V F Q Q V H N I V A N V
UniRef90_S0G2K8 N V S T H L L A V S G H D R I T R A A I H A A E V S A I L A P A C G L S T T T
UniRef90_F0Y194 A N R S G V L V D G T E E E L R A V R E I T G F G F I L G A D C T L A T E M
UniRef90_G5IMV1 G V E T V G T L N N T P E E Q V R E Q V L E R L E G G G F V F N T V H N I L P D V
UniRef90_K6A6L6 V S P N A T M M L G T P E D V R R N I K E N L K K A G G Y I V A T G C D I P L P A
UniRef90_C7N2T3 I S T Q R T L P Y G T V D D V V R E V K H L I D L G K H I L S P A H A V S R D V
UniRef90_UPI000361127E G N I D P N I L F A P P A Q I A T E V R R V L D S F G H I F N L G H G I S Q Y T
UniRef90_UPI00035DE4B6 M D P C I N R W D V T A S N F N E L H H Q L Y R T I E Q G K G L I L A P A C V I P
UniRef90_UPI00034FF73B I N R K G N I L N G P V E A I E E E V K E I L D A F G I M I G A D C T I Q G N I
UniRef90_UPI00035D11DD V N P L E V G V R G T P E E V R A A T L D V L E K G G M I L S V I G G T S P G M
UniRef90_C6L8Y7 L P P R D V L A A G T P Q L V Q E K T T A L L D K T R V I F S C G G G M P P G V
UniRef90_B1ZRG0 I G Q W G A L L Q G S I E E V R A Q V A D G I A Q T G Y I A A P G C V M P I P T
UniRef90_UPI00036A5630 A N R S G V M V D G T E E Q V L A E A A K K L V R K K G F I L G A D C T L P T E I
UniRef90_X1P3N3 I D T Q R I L P D G T P G D V E E E V K R R I S G G G Y V L A P V H N I Q A N T
UniRef90_E1ICG4 I S T Q Q C L P Y K T A E E V K E E T V K M Y E N G G Y I I A P T H A L A F D V
UniRef90_R5TCU9 F D N R R C G Y K G D K E A I E E E T R R I A L G G F I L G P D C S L P D D I
UniRef90_X1LYF4 E N G K D G L L Y R S K E E I Q A E T K R L V E K D G G L I L G A D C T I P N D I
UniRef90_F0YVM3 I D P F M K N F D E I D Q L V K D C I E D A A E D G G Y T L A T G D G V L S S E T
UniRef90_W4UHF4 V D E F T V L P N G S D D E L K A Q L D A L Q Q G R I L L G P G C C V P S S I
UniRef90_N9VRQ6 V D T Q E L L V H G T P E D V R K K V E E L L F P T G L I L S P S H E V L P D V
UniRef90_G0IC92 K S D F L S A L G E Y I D L C K S Y D V S Q R A G W I A S L D H G V Q K I T
UniRef90_UPI0003B3E5F8 D P A L Y A P K E V I K E R A E Y I R R E G K R F G H V M N L G H G I E A T T
UniRef90_D5EDG5 V D E E L L L R K G T P K Q V K E G V N S L L D G G R F I L G P S H K I K V I E T
UniRef90_F7KC94 W A I P E A A L S G T K D F L R E T V L K A V K R R G F F L T T D G P V P Y A T
UniRef90_J9YX39 G C N T Q S V L N Q T P Q E V Y D H T R K M I D D G G F V F N T V H N V L P D V
UniRef90_W7YFH0 V A V Q S T L P Q G T A E E I R R E Y Q S T G I K N G G W I C A P T H H V Q L D T
UniRef90_D8F4Q1 D V P P Q M V A L E K P E T V A N Y T K K L I D N G G L I L N G C E M P P D T
UniRef90_UPI00025553C6 I D V Q K E L F R T P E T V I R K I N T S R I K N G G F I L A P S H N L Q L D I
UniRef90_R7J8N8 G V A V I Q S T L P M T P E Q I E K E Y N S V G K G G G W I C A P T H H V Q L D T
UniRef90_G7W6W6 I D L Q R V L P F G S V E E V R E E T R H F I D K G R M V F T L N N R M Q G N V
UniRef90_X1L9T7 D M P A A L L A V G S A S E V E Y A K K L F K G G G F L Y S S G C V A P M A
UniRef90_S0FB58 N V D P R L L H L G P T D K I Q D F T M N I L N K C W D H F I L G T G V A Y D C
UniRef90_R6UXH4 I D V Q H A L A G S L E G A E K E V K N M I E N G G Y I V A P A N V S G E T
UniRef90_F7NLQ2 V E T V G T L N N G T P E E V R K E V L E R L E E G G Y V F N T V H N I L P D V
UniRef90_B5JGE4 M D P S V L Y A P A A R I E S E V K T I L A G S G H V F N L G H G I H Q D V
UniRef90_B8FW54 F D Q F H Y L K G C P D K T R N E E V R R C F E E G G F I L S P S D H F F E V
UniRef90_R6FLE7 I D T Q H L L P E G P E E R I R E E A R K T V K E G G Y I L S G S Q G L D D I
UniRef90_UPI00046EF6A9 N I Q E S L F E L H T P D V K N E V K A L E N G G Y V L M P T A S I P P A S
UniRef90_UPI0003B75E97 V D V Q G F L R T A T P E M V R A G V K E L I A D G G Y V I A P A H N M Q D D V
UniRef90_UPI00036DA30F E N G K N G L L Y T D K A A I Q A E T K R I A E T G L V I L G A D C T I P S D I
UniRef90_UPI00047211C6 G I E P T E F L N W S L S E L E V Y V K K L L E G Y P F I L A N S D S C P S G V
UniRef90_G0IC90 N T N Q S L I Y K G S K K E I Q E E A K R L V A R K G I I G A D C T I P S D I
UniRef90_N9W1U8 E N K Q S L L Y G G R K A A L Q E E T K R L L A E A G T R L G A D C T V P D D F
UniRef90_F9Q6R7 A N R Q G V L A A G S E A L I N T V H S I V E R K G I L G A D C T V A T E Q
UniRef90_UPI00035F3816 M D P S V L Y A P A A R I E S E V K T I L A G S G H V F N L G H G I H Q D V
UniRef90_H1D277 Q D Q F H Y L K G C P D K T R N E E V R R C F E E G G F I L S P S D H F F E V
UniRef90_F0Z475 T E T K D V I Y T G N K E E I E E V T R N I L D E A G G V L G A D C T I P R D T
UniRef90_F6BCL4 I D E Q T A L I F R V Q D E M K T R L E S L G K E G G Y I M A P T S N F Q D D M
UniRef90_R5IMY4 N I N P S M M Y H S N V D E W I K T E V K K C M E S G D Y I L S T G C S I P V I G T
UniRef90_X1BFY9 N R P G S L I Y T G N K E E I E A V K R L V E K R G Y I I G P D C S I H V D E I
UniRef90_UPI00046FB88D C D S Q H V L P F G T P D E V R E E V K R L I E G G F I F N A I H N I Q D E V
UniRef90_D6TLK8 L F E R G P L T H G S E T E I E N E M L S A I K G H K L I L A N G C S I P D D A
UniRef90_UPI0003809A95 G I Q D S L F I L G T P Q E I R E R V K T V G K D G G F I I N G G C N I P Y D T
UniRef90_V7EMW3 L D V V D G L L K Y D G E E L D E Y I T E R F G G G G F I F N G G H F I Q P D I
UniRef90_C0WVPB8 I T E Q D V L Y S G T K E E I Q K E A Q R I V S E A G T K I G A D C T I K R D T
UniRef90_G5HHL1 P N R H G V L V I D G T H E Q V E E E V K R V I A D F G L I L G A D C T L A T E Q

UniRef90_F0Z5N7 P P A N I | H A L F E E A Q K V Y
UniRef90_K5ZUE1 P D A N I | K A F Y Q A I A D F N
UniRef90_U2CUC6 P P E N I | L K M A E
UniRef90_UPI000471D179 P I E N I | M A L Y D
UniRef90_J9MAX5
UniRef90_K8WM77 P P E H A G A F V D A V H R Y S
UniRef90_A6LRB3 S E D I L Y E I S E S V N K W
UniRef90_R6WUS1 P K A N V E A F I Y A A R K Y
UniRef90_D6DGI1 D D E M L E Y V
UniRef90_T0MVD6 D Q R T L R N I V K E V H N W
UniRef90_F7KND3 P R E N L Y A Y I Y A A R K Y
UniRef90_UPI000477761F A D S A I Q A V V E A A R D H N
UniRef90_R6VQ3 S L E N M L T F I N I A K K
UniRef90_G2MTT6 K P E A I V A M Y K T A M E Y
UniRef90_Q8THF9 P L D T S K A M V D V V K E
UniRef90_UPI00037DA118 P P E N I V A M Y D E A R R F
UniRef90_G5HSV8 Y D D E L R A F I A A A H E
UniRef90_V4PC19 P I A H V E Q A L K R I R
UniRef90_R6BAC3 P V S H L K W V R E A A N E
UniRef90_DORNS8 P E H N V K L F I D K I R
UniRef90_F0YUH9 P T A N I E A L E T A G R E
UniRef90_W9E2Z6 N P E M L E N L I K V V K N F
UniRef90_UPI00037F9B96 S S E R I E W V R E A V
UniRef90_U5PB64 Q L E R L D W V R Q A A
UniRef90_U2B8H8 P L E N I L A Y V E A C R T Y
UniRef90_UPI00042B1931 P E E N V A H F F E V A K
UniRef90_UPI00036EAF97 P L D Q S M L E Y V K K
UniRef90_F3ZX77 P L E N I E A V L T C W N E
UniRef90_F0YW73 K V E N A K A M Y
UniRef90_F6DR64 K Q E N L E A M M D
UniRef90_N6YXP6
UniRef90_W7Y5T1 A P E N I E A L F Q A V K Q
UniRef90_G8LVS2 P P E N V V A M F E A V R E Y
UniRef90_S0G2K8 L P E N I L R S M V R A A Q
UniRef90_F0Y194
UniRef90_G5IMV1 P Y E R I K A V V E A A R
UniRef90_K6A6L6 P P E N I I A M F D A V K E F N
UniRef90_C7N2T3 P I E N V D A F M D G V R E
UniRef90_UPI000361127E P L E N M L A F I N M A Q
UniRef90_UPI00035DE4B6 P P E H V T A L V E A V H S H S
UniRef90_UPI00034FF73B
UniRef90_UPI00035D11DD
UniRef90_C6L8Y7 R P E Y I K A A V D A A H Q Y
UniRef90_B1ZRG0 P R A N I L A M Q A A L K E F N
UniRef90_UPI00036A5630 S T A N L N A F I E T V R N Y
UniRef90_X1P3N3
UniRef90_E1ICG4 P E R N I R A A I S A A R
UniRef90_R5TCU9 P Y E R I R V I V D A V R
UniRef90_X1LYF4 P A E N I V A M F E A A K K Y
UniRef90_F0YVM3 P P E N L M A M V E V F H
UniRef90_W4UHF4
UniRef90_N9VRQ6 D P E H I K W V L E T A R R
UniRef90_G0IC92 A V E R I Q W V R E A V A K
UniRef90_UPI0003B3E5F8 P F E N I H F L V E A A K R Y
UniRef90_D5EDG5 N E D R
UniRef90_F7KC94 P P E N I G A L F D A V R R
UniRef90_J9YX39 P E T N I H L F I D Q I R
UniRef90_W7UB10 P E E N A K F F I D T V K A W
UniRef90_W7YFH0 P V E N V I A M Y E A A R D W
UniRef90_D8F4Q1 P A E N V H E L M N
UniRef90_UPI00025553C6 P E E N M L A L Y R A V G E Y
UniRef90_R7J8N8 P M E N F F T L L E T I
UniRef90_G7W6W6 K P E N F R A F L E T G K N Y E A
UniRef90_X1L9T7 P I D N I V A M Y E A E R E Y
UniRef90_S0FB58 P M E N F F H L L K T V
UniRef90_R6UXH4 P I E N F I A F I E E A H R Y G A
UniRef90_F7NLQ2 R H E N V K A F F A A V E K Y
UniRef90_B5JGE4 P P E H I D A V R A C L D K
UniRef90_B8FW54 P P E N I A S L Y R T A A N Y
UniRef90_R6FLE7 P P Q N V L A M F D A V K E F N
UniRef90_UPI00046EF6A9 P P Q N L R Y F S D A A K
UniRef90_F3ZVR4 P Y S H A V A M L E
UniRef90_UPI0003B75E97 V E E N L F A F A E T G L H Y
UniRef90_UPI00036DA30F P A E N I I A W V E A M R
UniRef90_F8DHD6 D E E R I E W V R E A A A E
UniRef90_UPI00047211C6 E Y E K F L M I S K V V R
UniRef90_UPI00037FB2EC E V E R I E W I R Q A L A E
UniRef90_G0IC90 E L E R L D W I R Q A A
UniRef90_N9W1U8 D L S R I K L A V E T A R K
UniRef90_F9Q6R7 P E S A P K I F V D S V H A L S
UniRef90_UPI00035F3816 D I D L L R A F A D E A R K
UniRef90_H1D277 D V N H L A W V R E A A D R Y
UniRef90_F0Z475 P M E N I I K F A E W A K E
UniRef90_F6BCL4 P K E N L K T L V R Y G R C Y
UniRef90_R5IMY4 P E E R I K W I V D A A R K
UniRef90_X1BFY9 P P E N I M A M F E T F E E F
UniRef90_UPI00046FB88D
UniRef90_D6TLK8 P E Q
UniRef90_UPI0003809A95 K P E N Y R A M I D A V I E Y
UniRef90_V7EMW3 P P A R L I R A Y R L V N E
UniRef90_C0WBPB8 P I E H I K W A Q E A V H
UniRef90_G5HHL1 D L E K V K Q A V K T A R

```

1          10          20          30          40
UniRef90_A3CQL8      S K K E L V L R A F R G E E V D R V P V G F W F H F V S Q E E K M L G
UniRef90_UPI0003B64BBD M N N A E R F A R T L N R E P T D R L M T Y E V M D N V Y G G Y D P A K N Y T
UniRef90_X1N3Q37
UniRef90_UPI00047A6FB2      R M T R A V A L E P T D R T P V M A W L D A W A A T Y R Q      G S
UniRef90_X0SVQ5      P R E Q V I K A V Q R R R P S R I P L I
UniRef90_R6VBX3      M T S K E R I L A A M N L Q R P D R V P L M C Q F S L G C M M E Q L H P D
UniRef90_W3AQY1      M S K R E L V F D A F D N K V T E R V P V G F W F H Y A P D      K T S V D
UniRef90_R5GWH8      M N K R E R M E A L F N Q R E T D Y V P A G F W F H Y P A S      Y T
UniRef90_UPI00047D037E      M N Q R Q R F H A A V K G Q P V D R P P V T A W V H
UniRef90_R7CM26      T K R E L V K A A L D C R P A D R V P V G F W H H
UniRef90_C5ERT7      M K K R E R V F A A M K N Q P V D K L P S Y F T M H
UniRef90_X1EKG3
UniRef90_B8FV87      K E R L A K A V A L G K T D R T P V V L E F A A F A A R A Q T      M S
UniRef90_UPI000381AE1E      A L Q D Q P V D R L T A Y P L A C G V C R K L L N N A G I T
UniRef90_F3ZW25      M N D R E R F L A A M R Y K P V D R V P Y      R E F G A W P E T L E R W L S
UniRef90_R7L5Q7      L A G R N
UniRef90_UPI000474DF72      M T K K E L V L K A L N N E E V E R L P V G F W F H      F L P E D D L Y K G L A
UniRef90_UPI0003B68646
UniRef90_UPI00023788AD
UniRef90_UPI000471ECA4
UniRef90_R5F5X0      M T A K E N V I R T L R H D N P E W L P V N L W      Q L P A A K L K
UniRef90_A9NKE9
UniRef90_R9MRC0      M N G T E R I K A L I E N R P I D R T P I G G W      Y H
UniRef90_I0HZU0      M N S K E R V K A T L R R Q T T D R T P V D C W      L Y Q K Q
UniRef90_F9ECK7
UniRef90_UPI00025550F5
UniRef90_UPI0002D55DEF      S K K Q R F E Q I L N G E K S D R S I V S G W H H
UniRef90_X0XRY3
UniRef90_F4A0C0      M T G R E R F L T A I S N G K P D R L P V H S W M Q Y Y L D T Y L H Y R A Y E
UniRef90_H6P923      T K R E W V L K A F K N E T V D K V P V G F W Y H F T T D E
UniRef90_U5RTV4      R L K D V I N M K K T D R V P I V L N A D A F C T K N G G G K L S D
UniRef90_U5KKC9
UniRef90_UPI000360D6C4      M W F M R Q A G R P E Y R A L R E R E
UniRef90_X1CF53
UniRef90_F3ZYQ3      M T S Y E R I K A A V S H K R P D R V P C D F S A E K D V I E N L K A Y F S I
UniRef90_X0UDD0      E L T S A Q R V M R V L R N Q Q P D R I P H F E W L I D R R V R Q A I C P G C S
UniRef90_G5JU34      N K K E W V L K A F R G E E V D R V P V G F W Y H      F L P E E E F G Q G L D
UniRef90_W5DCH5
UniRef90_X0VYT0
UniRef90_X1CL19      M N S Y E R V K N R L K G N P V D K I P N L N I I M T F A A K Y I      G V P
UniRef90_W7XWJ0
UniRef90_H1CXP0      T K R E L V K A A L D C K P V D R V P V G F W H H
UniRef90_F0Z453
UniRef90_R5J6W3      M T K R E R V I A A I E G K K V D A I P S S F S L H
UniRef90_F5YF00      L T S R E R I Y K A L N H E E A D R Y P I D L G L H F G L S I F A Y Y N L R K
UniRef90_UPI000379BD59      M N S R E R F H A V M N Y Q T P D R P G I G G F P D T P R R W A R E G Y K E S
UniRef90_UPI0001BF7CBB
UniRef90_UPI0003B40500      M N P R E L V R K T L E F A K S P E R I P R Q I W V L P W A E E H Y P A E V S R
UniRef90_UPI000360BD73      V W Q A Y F R G K P I R V P V I F V R F T M W L P E A N P R K I T
UniRef90_I6Y034      T K R D R F L T A A R G G T T D R P P V G A W V H Y G S A R
UniRef90_B0G7T1      E M T A A E R I K A Y N E G K E V D H I P Y T L      Q A P D P A M A D I F G F T
UniRef90_F2I581      M S K K E L V K T V F D G H Q A E R T P V G F W H H F V E D V Y H      A N A
UniRef90_R7CRZ1      S K R D L I T A A F H N Q E T G R M A L G F W H H F      L K D E T
UniRef90_F0Z5P4
UniRef90_UPI00036B804E      L T K R E N F L E T I R G G R P D R
UniRef90_X1N3J7
UniRef90_UPI00036D648C      M N D R E R L I A C A L G K P V D R P P F W L M W Q T T W A R W E K E G K P D
UniRef90_F5T4G8      T K K E R V F K A L R N E E V V D V P V G F W H H Y L E D E H V D A L K T P
UniRef90_M7U664      M A A I H H E E L D R V P I Y A G L D A K F V E L I T G K R H D
UniRef90_E8N243      M N K R E V M F N L L E G Q S P P Y L P A A F F L H
UniRef90_UPI000373D108      M T P R E R F R A I L R G Q M P D R M P Y M F G S P A S T F S A W R K Q G L S
UniRef90_S0G3U5      M N S K E R F T A A I N H E E P D R V P V T T I S V K T Y D R L L K K L G I D
UniRef90_U5RNP1      E M T R N K R V M A A L N M E K T D R I P I F L S G Q M Y Y N D P T M T I A D Y
UniRef90_K7V7C8
UniRef90_UPI000370984E      M T M R E R M L A L I Q G R E M D R V P F V Q Y D G L V P T E E L W A L V G R
UniRef90_R5EZ23      T H T Q R L K A V K E G R L D R P A Y T A W      G P H
UniRef90_UPI000471D588      S Y E N S L S A L N L E M P K I P R T E Y S A H F H W D L V Q K V T G I
UniRef90_I2F1L5      R N G E P C R V P F F E L F      A D D E I M E E V M G Y K
UniRef90_UPI0003B57AE9
UniRef90_G9RWW5      M T T R E R F R R V M A G D A V D R L P A I E W
UniRef90_A0A016AXW1
UniRef90_F7NNZ6      M T A E A R L V A A V N L Q P V D R V V C A P I I I E Q Y A G Q F A G I T N K E
UniRef90_K4LGP2      M T D T E R L L T A M D C G K P D R V P I R L F V S E F      A A K S A G F T

```



UniRef90_A3CQL8
UniRef90_UPI0003B64BBD
UniRef90_X1N3J7
UniRef90_UPI00047A6FB2
UniRef90_X0SVQ5
UniRef90_R6VBX3
UniRef90_W3AQY1
UniRef90_R5GWH8
UniRef90_UPI00047D037E
UniRef90_R7CM26
UniRef90_C5ERT7
UniRef90_X1EKG3
UniRef90_B8FV87
UniRef90_UPI000381AE1E
UniRef90_F3ZW25
UniRef90_R7LSQ7
UniRef90_UPI000474DF72
UniRef90_UPI0003B68646
UniRef90_UPI00023788AD
UniRef90_UPI000471ECA4
UniRef90_R5F5X0
UniRef90_A9NKE9
UniRef90_R9MRC0
UniRef90_I0HZU0
UniRef90_F9ECK7
UniRef90_UPI00025550F5
UniRef90_UPI0002D55DEF
UniRef90_X0XRY3
UniRef90_F4A0C0
UniRef90_H6P923
UniRef90_U5RTV4
UniRef90_U5KKC9
UniRef90_UPI000360D6C4
UniRef90_X1CFS3
UniRef90_F3ZYQ3
UniRef90_X0UDD0
UniRef90_G5JU34
UniRef90_W5DCH5
UniRef90_X0VYT0
UniRef90_X1CL19
UniRef90_W7XWJ0
UniRef90_H1CXP0
UniRef90_F0Z453
UniRef90_R5J6W3
UniRef90_F5YF00
UniRef90_UPI000379BD59
UniRef90_UPI0001BF7CBB
UniRef90_UPI0003B40500
UniRef90_UPI000360BD73
UniRef90_I6Y034
UniRef90_B0G7T1
UniRef90_F2I581
UniRef90_R7CRZ1
UniRef90_F0Z5P4
UniRef90_UPI00036B804E
UniRef90_X1N3J7
UniRef90_UPI00036D648C
UniRef90_F5T4G8
UniRef90_M7U664
UniRef90_E8N243
UniRef90_UPI000373D108
UniRef90_S0G3U5
UniRef90_U5RNP1
UniRef90_K7V7C8
UniRef90_UPI000370984E
UniRef90_R5EZ23
UniRef90_UPI000471D588
UniRef90_I2F1L5
UniRef90_UPI0003B57AE9
UniRef90_G9RWV5
UniRef90_A0A016AXW1
UniRef90_F7NNZ6
UniRef90_K4LGP2

```

90               100               110               120
Y P S A L Y S D H I E S I R D L A A I Q S I G E H H P W I E
G V N P D N W E A G D T A W I S K R P F S D L K G L E K N M P G L P K F E E V K
G G E I K F P S S E W Q Q A P S V S R S P V I E E D A W K L E L P D S K T A G
K V A G K E L P E G S L W Q V D E Q E H I T D E D Y D R I L Q M G W T A W K F E
V M G L S W E I S A D G A L D S K C V I D D W A K L D E I D K L P D P E S D P Q
D L L S R E E L G E G S V R L E Y P D R T E L H C W Q D L P E S V D V E R D I P
      M S D G Y F L Y P N N T I Y E V S T V E D L R K I Q P V N P V I E W I D
      K D V H I E K A E D W R N I Q L P G R N C E H Y K
M N D Y R Y P V P A G V Q T L E D V S S L R A Y Q R I S L K D P S F V
D G F F L Y P H Q Q L      H D L K S I R D A A G I R P L G R D S E W V Q
      S L K T P D D W K C L R S L S L D D R F M Q

K R P G E E L P E N E L W Q V V E A E L M K Q S D Y D R I V E E G W P N W L M S
G S H I R M D E Q N T P F V D E P I K D V E G Y E N L E V P D I T D P K S R S A
E G I L I R E R K D N P M S M P Q F V R F P V E F W K E R M Q P D L A A R L P
G A R A V F S E N S V P H I D K S L K E P S G A K S L K I P S V G A G R T G
      V K V M S D G F F G Y P T S G G E S T Q N T A D L G Q L Q P I D P S H R W I

G I G L D I V A G T G P      V V S S P V R T A A D V A A L P R      L D P A Q V A
G S T W V N H Q A G I I G E V K E Y P F A D F N K V W N Y E      S P K K L F L S G
G G D I E F S T E R W Y G T I H K Y P I V T E K D A E E L P V L G A E N P V F A
Q D L P T F D P G D P R D P R W L T H T D W N Y D F A G L

G N Q Y D F N D Y R W V F P R Q S Q S I I Q N F A W N V K E V E V A T S A P L Q
L T E K G A V N K Y T E W      I T E C I I K D E K D W N K Y V P L P A Q V D W S P
      Y P N E Q I R E G L T S I K E L E G I T S L G E N H P W I E
K V P G R E L P D N M I W Q I D E K S Y M T E D D Y D T I I D K G W N Y F F M E
      W D F L V K E R E S L G T A G V F A E C E D V A E V D A F P W P N P D Y L
G V G V R I E P G V G P V V D H P V R T R A D V A E H A L G D S P R G P S G L A

G G P R K K D I P E T P V Y F P W G D I E T T D D L K D R Y G T M G D M S W W D
I V E      D T G E E H T F P V E G P I R S L E D      L H N Y E P P D P H A P
      N Y P N E L I H K G V S S V R E L A N I V S I G E N H P W F D

G A N V V F P E N D V P Y      C K D F L I K E Y V D I K K V K K D P L K S M R M L
      Y E F P D I E N P
D G F F L Y P H E Q L      H D L K S I R D A E N I K P L G R D S E W I Q

I R T P K D Y Y E L I P S F S R N T N I I E D      Q I E M T K K I M D
K L K E W N A R D D Y R F L I P E Q W T P E I E G D Y F V V R R G S E K M R M P
E G I L M R E F K D N P F S S M P Q F V R F P V I Q T R E R L Q P D L A K R I G P

S S H Q R G I I G L V K K P L I A K W E D L D N F N V P D S V L D L D K E E V N
G C E I R F Y P D Q V P D V V P M N D D N K R M L F D K G L P D P F E S G L T K
      P E G L E E I T D P A Q L D D I L A D P G V L L D S H A R Q H
G S K L G V I P E H G I D Y I E H H V L Q D Y A D F D K L E T D P Y K N P V L A
L Q K A E H L S      E V G E I E P L A N D D P W I Q
      S Y P A E I I L Q K P L T S R K A L S E I K P L G K S S V W F E
F P Y M D D Y P D D W S D L D H Q M G K V L W S A L V H S P W D H A G D D N F Y
A G T P G P F P V H R P D T I V I K D I T H W R D Y I H A P N T R Y S D A E W E

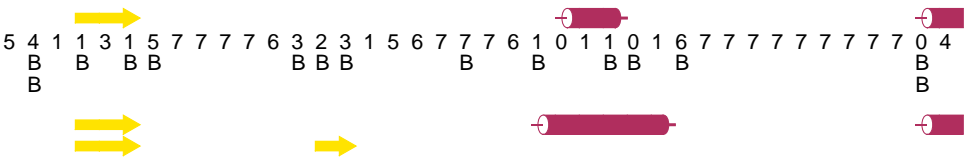
I K R K N F K H T E S M S Q F I E F P I K T R Q D W E R F K E D P H P D R L A I
L S S V D K L P N F T L V P I E H P W F Q K Q I E L A K E Y R E I Y G K D I A I
D K H T F I D W W G K V Y R R L P K V G T N Y W I D G I L K T E E D L E N F V P
      I Q Y E H T F P Q L P F I Q R P A D W A K M P F Y D L D      F Y A
D A I R Q P T P G F A T R K Y I E F P V R A D F E E M K K R Y D P H S E E R F K
G C G F L M P E D S L Y Y N I V D S P L R N D D L A S H T W P D P D D P G Y L N
F A A M W F A K M K V P G R E L G D N V L W Q I D E Q G P M T E E D Y D T I I D

L V Q E K A F E P A Y G S A S T R K H F I K D P E D Y R I L M C F L R D Q D V Y
G K L K H I M D D T W L N V T V N A V N D P H E W A R L K A P D V K K G A L G
K M G H T D Y S D D D V R V I E E P E A D V F D L D F F E T Y G E K D K S R L I T
I H G E D Y R R E S R K W M N E K G G P I K T L K D L Q E A D W P K P E E A V D
      V T K D R P S W E K L K S E R L N L E D I R G R F P
W L P H K T P D C P R E T S H G R G I V E N E S D Y E R L R P Y L L P E N A V Q

P G R L K M P G R E L G D N A Q Y Q I V E F E A M L R E D Y A L V K E K G F M E
A V G A R Y L D E N K Q F Q F I E D A Y M Q P D D Y D S F I A N P T K W I L T S

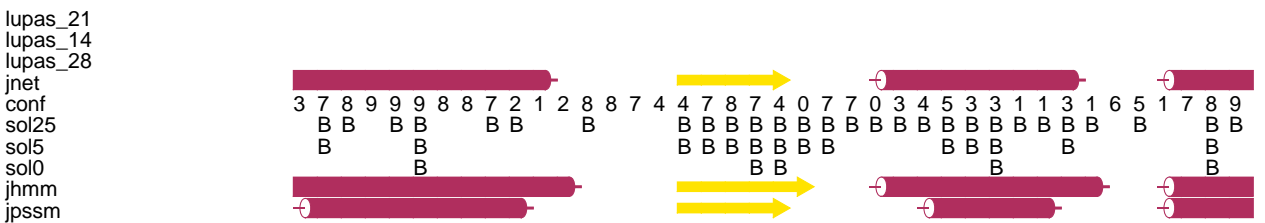
```

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm



UniRef90_A3CQL8
UniRef90_UPI0003B64BBD
UniRef90_X1NQ37
UniRef90_UPI00047A6FB2
UniRef90_X0SVQ5
UniRef90_R6VBX3
UniRef90_W3AQY1
UniRef90_R5GWH8
UniRef90_UPI00047D037E
UniRef90_R7CM26
UniRef90_C5ERT7
UniRef90_X1EKG3
UniRef90_B8FV87
UniRef90_UPI000381AE1E
UniRef90_F3ZW25
UniRef90_R7L5Q7
UniRef90_UPI000474DF72
UniRef90_UPI0003B68646
UniRef90_UPI00023788AD
UniRef90_UPI000471ECA4
UniRef90_R5F5X0
UniRef90_A9NKE9
UniRef90_R9MRC0
UniRef90_I0HZU0
UniRef90_F9ECK7
UniRef90_UPI00025550F5
UniRef90_UPI0002D55DEF
UniRef90_X0XRY3
UniRef90_F4A0C0
UniRef90_H6P923
UniRef90_U5RTV4
UniRef90_U5KKC9
UniRef90_UPI000360D6C4
UniRef90_X1CFS3
UniRef90_F3ZYQ3
UniRef90_X0UDD0
UniRef90_W5JU34
UniRef90_W5DCH5
UniRef90_X0VYT0
UniRef90_X1CL19
UniRef90_W7XWJ0
UniRef90_H1CXP0
UniRef90_F0Z453
UniRef90_R5J6W3
UniRef90_F5YF00
UniRef90_UPI000379BD59
UniRef90_UPI0001BF7CBB
UniRef90_UPI0003B40500
UniRef90_UPI000360BD73
UniRef90_I6Y034
UniRef90_B0G7T1
UniRef90_F2I581
UniRef90_R7CRZ1
UniRef90_F0Z5P4
UniRef90_UPI00036B804E
UniRef90_X1N3J7
UniRef90_UPI00036D648C
UniRef90_F5T4G8
UniRef90_M7U664
UniRef90_E8N243
UniRef90_UPI000373D108
UniRef90_S0G3U5
UniRef90_U5RNP1
UniRef90_K7V7C8
UniRef90_UPI000370984E
UniRef90_R5EZ23
UniRef90_UPI000471D588
UniRef90_I2F1L5
UniRef90_UPI0003B57AE9
UniRef90_G9RWV5
UniRef90_A0A016AXW1
UniRef90_F7NNZ6
UniRef90_K4LGP2

130 140 150 160
Q Q I E M V K A V K A S Y P E D L A S F Y N I F A P V S Y L K R W F R R E G S R
A W Y E P V L R Y I K F D D H D L V Y I G G I E G A I C D A Y T Y T D M E L F C
A I P T A M E L S R T S K K L G L P I M T P T A G V E T T A G N I C G I E K L C
Y Y G R V L G F T P Q D F E E L G K L G A F P N I P L D P L A G G R S M A K F M
F A A L I A Q A Q A I R A Q D R Y L V F A W W R L F F E R P W G L R G M E N L F
G Q L D Y I P V S H N L Y F R S C S I H G E I T S P L D Y Y L D L F G Y E Q G L
K Q V S L V R N L Q K T F D G R I A S F Y N V F A P A T Y L K W Q L N G I A F G
N M E A L I R G A V E K V G Q E A M I F P T M W S P F K I A S F T Y V F G G S S
A Q L E C L Q R I Q D A C P D T P L L E T G F E P Y Q Q I V R N I S Q V I Q N L Y
K Q V E L C G I L T E R Y G K D V M V F Y N L F A P T R C I E F Q Q T G S D A K
D E I E L V K R V L D R C D M D A Y N I G T I H P I E P D Y G Y M P V R Q L L V
Y V T E H F K V A E M W K E A G I P T L T G G G V T T I P Y E M F C G G K F V
T L L E G T K L V V D A L G K E V I T A G F L E G P L L A L T Q S R G A E F V F
N W K Q K L A A Y R Q R D Y P L V V I A D R W G G F F G P L R N L L G V E R L C
I Y L N G A I L L A S E R I S D R V T Y A C V C G P Y T V A W Q L W G A E N L R
Q Q Q V D L V K K V T A L Q A D T F Y I Y N I F S P F T T L K S L L G V I E K L V
P V A D A I G L L V R E L G E T P L I G F A G A P F T L A A Y L V E G G P S K
I S G F E K T K A F I D T H K D K F I L G G W I S L F E R M Q Y L R G T E N L F
R E I E A V K I L K D Y Y R D R I P I L A T I F N P L T A V Q E C A N P E P V K
N V V E A V R Q Q G D R R F I L A H I W G L V E G T S R I I T G I E N C W
T P L I G F G G A P F T L A A Y L V E G R A S R
E Q L E A V Q Y I R E G L P E T P I I Q T M F S P L T I L M F L T K P L D F K
D K A A W A R C R G F F E I S H F M C G M D K F M
V I E A K R R I G D S G I V R S G Y F D F G Q G S P W Q S F V N M Y G T E N A I
K Q I E L A K K I R D D F P E D I A S F Y N I F A P A T Y L K W H L A G K G I E
Y A K K H I P E Q N F V D A G I V P L C Q G S V M T G A P F G A L Y P A R G F L
D F S E P M R R V K Y A H E K G L A I F G G M W C P F F H A G D F F G M E N Y F
A I E E A V R A H S R G A W G W T P L I G F G G A P F T L A A Y L V E G R P S R
F T S I P N Q I D E L E D R G Q Y W I T T H G D P A G L Q H I C Q W V G E K F M
G R Y E S L K R L V N R Y K G K L A V G V H L N D V E S I P R N L A G Y E G I L
Q Q V E L V K A I K R T F S E D I L A I Y N I F A P V T Y L K W Q L S G O I A
M F I I D G E A A L L G F V G A P W T I A T Y V V E G G N I K
K K A E L F K T V K S L H E K G L A A F G F M P M T I W E A W Y L R S M E I I M
D R I K A V I P F V N G R I K G Y F P I L G W V E G A L A E L A G L R G I N T M M
M L Y E G I E E K I A N K D K F V L Y S I G F S L F E R Y W T L R G M E N A F
K Q V E L C G I L T E R Y G K E V M V F Y N L F A P T R C I E F Q Q T G S D A K
W Y M A P Y L Y P D Y I H E V D F G
G V D K D A F T M G T L H G M C A S G I H P L E K M G E G Y N Y D Q V R Q M Q V
L D G F F F D G S W L I Q A K D Y P D E E N L E Y F C H E A E R I Y Q E T D K F
D W V A Q L K A W R A E P A M L M M S D R W G G F F G P L R N L L G V I E L C
V F C K N T D R F V L S G T T P R P F E R F Q F L R I R T M Q Q A L
R N W E F Y E H F K R H Q E K G F E M F G G T D G P M T V C C N I R G A T Q F V
E V L E L I R T A A P E A A V I E T V F S P T Q A L V R A L G G S V I
P L L E S A K R L K E R F P D V S M T T S V A G P I S T A I A V R P V I E K V L
E Q I Q F A K E V E A L H K N Q L Y S F Y N I F G P L T T F K Y D D Q D E R V S
S Q I A Y A K L L Q K K Y G S E V P L F Y N V F A V P R T I E F M Q Q T A G S P
P Q L R E R T L A L R E K T D R A L M I T C G C N L F E W G T F L R R I D N F L
P F I R Q V E E T D R K E Y F V T P F A A P G L F E Q C H H L G E I Q N T L
A I L V N L H D V L S F P R D L R G L I E A L L
G D W L A P Q G R E W M R G Q W P I Q L G Y F P D V G F G V V R W L L G D E E L L
F H N L F A P G L W H F E E A I R K A Y K V D A E E S H E I C L
P D P D E F N Y D L V D F D G D Y P V I G G I H L A G M F P Y L M M G G D N F S
E P L A V V K G L V Q A A K P E A V V L T L Y S P F M C A G H L G S D R A L S
P I Q H W R E R V E I C N N S E L P V S L S V P G L W W T A R D W C G F E G L S
G V I E Q A R Q L A E A G E Y G V V G S F A W E T W F E R A W K L R A M D R F Y
K G W E Y M K K E L Y N R I G Y H P E E L P Q M D M F E T L S G A R K L S K F
N I K
A D Y E P L L A N I K E L G E N G H T C V P R T P F Q Q L W I E W V S L E D L C
R E V E A C K R I C D H F Q G E V P V L P T I F S P F I W M G E M T G G E T I V
D F N Q D Y Q K M I R E H P D T V N M T G I Y T T C M S G A I E I L G W D M L L
F D L F R K L G D H L P E G M K V V G G A S G G P F E H S S F L M G V E N L S
A N W N E L V E E Y K S G E Y V V T L G G Y P H G Y F G T L A H L M G Y E N L F
Q M L P K I R Q T P F Y E N G Q T L V W Y T L D G F F W W P R T L L G I E N H L
E W Y
Y R L T F L E R V H Q V S R E E I A A A Q K E M A P F D G F S M M R S M D K F Y
F L P R I H K E F S E P G S Y R A N L A L I K G A A A M A M Y N G Q T G Q G I M



UniRef90_A3CQL8 DFLAEDSELTITGHVVLVDVLAGDIAALTLTRRLLEEAGLEGYLS

UniRef90_UPI0003B64BBD TALIYDAPELITSHVMDKFSAYIARVFAEHPSPALMFMGEDT

UniRef90_X1N37 RWMVVKPPEVAHRLRLRATDHDVIAVDTQYWVDTDFGNITFAFE

UniRef90_UPI00047A6FB2 TDLRYRMPDEKLVKEVMDVMTDTIEEMRGMIRMLKPFVSVMMAV

UniRef90_X0SVQ5 GDYDSDPENVHRLHEALCDLYCYGIKRAVRDLRDPDGFWTSS

UniRef90_R6VBX3 MGLTMYPAKAAQILLRFTDGVKRLIARGMCRTPVDDAIKITS

UniRef90_W3AQY1 KLLDENPEIIVKDALNKLIALDIAKLAKAIVIEGGADGGLYLS

UniRef90_R5GWH8 DEVFMKHCDEVKAIDVLEEDWVDFMEAGA DGLYYS GQFSE

UniRef90_UPI00047D037E RHRGEALAALEVVTEVMSSEYIAAVKAMGIEGMFSLINGAN

UniRef90_R7CM26 RFMKEDPEALKLEVMAVLTEDIATLARAVIDEGHADSINL

UniRef90_C5ERT7 SHLRQNKAPVLDAMKRIADGLCQLAGKFVEELGLDGLTYAG

UniRef90_X1EKG3 LLEKILTDFYKVEVAKKKVEELGAKVGHHG

UniRef90_B8FV87 RDMFKIPDKVQAAMDAAALPQSAJAGSKQLEGEYLWGG

UniRef90_UPI000381AE1E KDMYDNRAAVHKALATITD D YDKAMVKGFAQT K CAGLVWDY

UniRef90_F3ZW25 MFLFYDDPAFLLEEMMEAEADFMTIRMMDQLD YTDVDVLFJAE

UniRef90_UPI00047L5Q7 ALCLKEPKEAELLEKIEWFQVEYVDA YKRGLSGVLYIAE

UniRef90_UPI000474DF72 KTLKTEPQLVIGDTLIRVARGLAALS ERVIEAKADGGLYLSV

UniRef90_UPI0003B68646 DHHHADPDAWAALLGWA AEVTTGRFLRAQILJAGVSA GQLFD

UniRef90_UPI00023788AD NHMHSDPQTWHALLERLADETTLEFLEVQLAAGVDAIQLFD

UniRef90_UPI000471ECA4 VAHYTVPEYVHECYEMQLEJETA MKNVKLLKEAAGNKIQAVF

UniRef90_R5F5X0 MDTLIESPEYFKLMETVEDFYNTYLDEWKLKLEVDGIIFGD

UniRef90_A9NKE9 MAFCEPKVLLHLLHVFAEESMANYICYQADNNGAQVVOIFD

UniRef90_R9MRC0 RLMKEAPEALHKALIEAMTQTNLYLDELFE EGI DGI FLAN

UniRef90_I0HZU0 MNLGAQP KMMSAWFD RYADWL CGLVESLANAGVDGLLSD

UniRef90_F9ECK7 DHHHADP GAWDALMTWCARGLTDGDFIAAQVRA GASAQQLFD

UniRef90_UPI00025550F5 CDLLANPERITHKFLDVLDRHMVN LKAYLDSVD DMGT QGG

UniRef90_UPI0002D55DEF KLLLSERAGVHQALHAIALTMAKYV EAL EAVGV DGN YF YAT

UniRef90_X0XRY3 MDLALNPEFAACCCLMDHLIDYLDLLE DTRTLGAGNGYTIYE

UniRef90_F4A0C0 MACFDKPDWLVHVLDSMLKKKLTVIERGGRIELDLVETGG

UniRef90_H6P923 NFIKKEDELTTKQVLDVIAFDLEGLVKRLIEAGVDGILYLSV

UniRef90_U5RTV4 IDLHKITPDKVVQAAMDVI EENEKVLRLKQIEVKPLAVFTGG

UniRef90_U5KKC9 IKMYTNPDVVHAVTSHIVDFYIETNKRWFELAKDYCTNDF

UniRef90_UPI000360D6C4 DHMRSDA AAWDALDWEARVTGEFIALQIRAGVSA AQQLFD

UniRef90_X1CFS3 YYIRKNP KFHHELIMDEYTKVNIEILKRLAEVGDIVMFGD

UniRef90_F3ZYQ3 MIALADD DLAMAMIT EKANE HRLIEHAIKALEAGGRIHNQN

UniRef90_X0UDD0 IALAAEDA ELVRLKLVNDLSVJENIEMAKEVARC GADVFYTG D

UniRef90_G5JU34 QFLQEDA KTKLKVNLVAGDIALLAKKLIEAGLEGIYLSV

UniRef90_W5DCH5 RMCHTA NVLRLGLLSHLA EALISDYI IYQVNS GAQC QI QIFD

UniRef90_X0VYT0 ADMVLDKKNAEFLDKSTAYACEKASTYAEAGVDILSILGD

UniRef90_X1CL19 LDFVYDNPDFIVELELLEKSTAEQELKFALEQLNA

UniRef90_W7XWJ0 LDFMMYPDFVKDLRLKIALDFITNV CERYPEVDGGYFGDDW

UniRef90_H1CXP0 RFMKEDPEALKLEVMAVLTEDIATLAKAVIADG HADGNITYN

UniRef90_F0Z453 CQTEIALTELTKLTLYELMGTVDVIVYVCGTDFGTGNSTFIP

UniRef90_R5J6W3 DFLRWDEK KMLDSMERIADM CTLAERYTK D A GVDSDVY YAG

UniRef90_F5YF00 TCLMGEFSAFFTGLEMA CDM L TDPDKVIA ENK CLEINADM

UniRef90_UPI000379BD59 KTFYTPAFIIEEMDAIADFLIAMMDQHI EVD CYGFWEDM

UniRef90_UPI0001BF7CBB R MAYGDPA AVQALTDRI VJAMTIDYLVGQVEAGVEAVQLFD

UniRef90_UPI0003B40500 IDLMEQPPELHSELNRIHALYCKEVEVWSATDIEDG MALMD

UniRef90_UPI000360BD73 TDLVEDETYALQLLDFVTTAIEERYRKHLGLPEKAKPLWGF

UniRef90_I6Y034 EYFKVDPALAHRTISR VADALTRYDGF GVDALFVA VNGAS

UniRef90_B0G7T1 RDRTRKNPEMLHKLLDLTVVCSLKVFEAFYHEFG SV DGNFD

UniRef90_F2I581 RFYQEDPELFAKLLKVIAGDILQKVIEGILETTVDGIIYST

UniRef90_R7CRZ1 IDLGAWPETLITKAMDITDYAEALAKALISEAGVDGIIYLSV

UniRef90_F0Z5P4 MDTYADPELVJEQLMIRHLJASELVKVESEVGDIVDLRF GDD

UniRef90_UPI00036B804E INFYEPEPEYMH ELDYLYLGEELCRRLKPDALRFHDDW

UniRef90_X1N3J7 RDFILCPELVREMVGFSDYNTIELARLAKKHGA EITIGIGD

UniRef90_UPI00036D648C MAFYTPPELVHSELMDHMTSLYLTLYEKVARELRIDGDFHFW

UniRef90_F5T4G8 GYLVKENPEAVA SCLMDK IADNLSLLKKEVVKEGVTDGIYLS

UniRef90_M7U664 INLYMNR RFTKKVVKMVAVDVTQTEI AVNM LDRGV DIIAETD

UniRef90_E8N243 RHEEDPEAVK KGLSLITKSLLEFVRA CAAALGLDGFY TST

UniRef90_UPI000373D108 IMCIDDP LLVHHEMMEFWTWF IIE LLKE PLR HINEDMAYKT

UniRef90_S0G3U5 MD MVANKEFVHALLDK

UniRef90_U5RNP1 RDLYRVPDKVRAALDVMEAEAELEENTV KAMKAMP GVYF IGG

UniRef90_K7V7C8 SMCHTAPDVLK GALS HLAQAISDYIT IYQVNS GAQC I QIFD

UniRef90_UPI000370984E LH MVQVPEIIMEEVLAMLGGLLRSDILRVTREAPMPYL VFGD

UniRef90_R5EZ23 SHFLHSEKYCGRP ALLEMLETNEK LMEAF L D A G A S G F F V G Y

UniRef90_UPI000471D588 LAAGVDSRLFCGEFMNRYTEWNLQYFEALAE CES P V V M F H D

UniRef90_I2F1L5 MAVYEDPELVNT LNEKIGNV LVGAAK IISMD CVGAY C F G

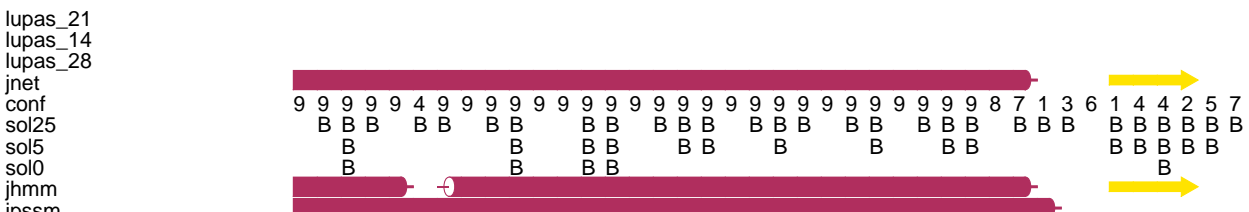
UniRef90_UPI0003B57AE9 YNYDRPEL I HRIQKTFTEAVYAEVLS ELDVDLFLITWEDM

UniRef90_G9RWV5 YSFYDQP ELIYHRI CE DLJE WQIA QVDA LARYMK P DFM TDM

UniRef90_A0A016AXW1 MSTVMRQEY LHEIFRRQTDIAI ANYEK LWA VLGDK CGTDF

UniRef90_F7NNZ6 KDMFQIGDQLEELLVVND AVI AGCEAAARTGS NR V F VIGA

UniRef90_K4LGP2 MDHLRPPDKVLAATEMLVEHN IY YAMA T S QGDT QF P F M P L



UniRef90_A3CQL8 T Q Q Q I Q D G R V D E A S Y R R Y I E P S T I K V N A A G G Q N I L H I C G F E

UniRef90_UPI0003B64BBD A G S T G P I F S P D F L R E H G L P R W R W I T E P L K K K G I F H T I D G M Y

UniRef90_X1N937 P S A A N Q I L I S P R Q F K E F V L P Y T Q E F H E N L I K H I M C H I C G E Q

UniRef90_UPI00047A6FB2 A R G S S A F L I S P R L W N K F V W P Y L L Q L I S H A A A E E G V F H L D G D W

UniRef90_X0SVQ5 D H Q T Q P M M S P E Q F R Q F I K P Y Y E R I L A E L G T H W W L H S C G N N

UniRef90_R6VBX3 P F A G R G F I S S E F Y E Q F V L P Y E S Q L I R E I R Q F V I H I C G S I

UniRef90_W3AQY1 Q N I Q D S S I T K E Q Y L E Y V A P I V L E A A N S V S D Y N I L H I C G Y H

UniRef90_R5GWH8 P A R F S A E I W E K M V K P F D L Q I L D R V H T W E N K Y N I V H I C G E A

UniRef90_UPI00047D037E P A H V A R G A T E E Q H E V F S Q K P F T V A V L Q A A E G M A R V L H V H G S

UniRef90_R7CM26 P H P D M T K E K Y R E F I T P S E K A V L E A A N E S S D Y N L L H I C G Y M

UniRef90_C5ERT7 L G G E R F L F T D Q E F E E Y I M P F D K Q I M N A C N I L H M C K T D V N F

UniRef90_X1EKG3 D T N V G T F F S K A M F R K M L V L P R L K R V E D V Y N D A N I P H S C G N I

UniRef90_B8FV87 W R A A S E M L I S Q A W D R F V F P Y Y E K L I Y E I G I T P I L H F D S D W

UniRef90_UPI000381AE1E L W G S Y S C L G D P E Y E E F E G Q K K Y A G C S K E G M A F C I H N C A D L

UniRef90_F3ZW25 E D M A Y P L V I S P E L F R K F A L P R Y R R V V D F L H S R G V E F I D G N L

UniRef90_UPI0003788AD P L A G F L P K E P N W R F S G K Y V K R I V E R E Q S S D F S V I Y H S C G A D

UniRef90_UPI000474DF72 Q N P D I A Q I S D D E Y R R Y V T P S D K I V A N K A G G N N V L H I C G F K

UniRef90_UPI0003B68646 S W V G S L S R A D Y V I T R V A P H S A A A L A Q I A D L D V P T V H F G V G S

UniRef90_UPI00023788AD S W A G A L S L R D R E F V L P H S Q R I F A G I A E I A D V P K I H F I G V G R

UniRef90_UPI000471ECA4 S Q Y I S N D M Y R E F Y L P Y H K K L N D W I H Q N T E W K V F F H S C G A I

UniRef90_R5F5X0 D W Q R S L L I S P E T W R K Q Y K P L Y K R F F D K V H K F V F H S D G Y L

UniRef90_A9NKE9 S W A T E L I S P V D F R E E F S L P Y L K Y I V E S V K K T H L L Y A S G S

UniRef90_R9MRC0 Q Y S M K R I I T E E Q Y E E F C V P Y E N R I L E H C K G N T W F N M A H V H

UniRef90_I0HZU0 D W N Q T M L F S P R M W R N L I A P Y V R R V V E H A H S L G L F H S D G Y I

UniRef90_F9ECK7 S W A G S L S P A D Y R A R V A P Y S A L A L S I A R P A P L I H F D G T G T

UniRef90_UPI00025550F5 P Q F S P E V Y M D F F Y P R E K K M W S Y I H E R F P A M K I C L H C C G G V

UniRef90_UPI0002D55DEF G T A H P Q L F D E A T F N E F S R P Y D L I V L N A M K K G K R L H T C G A

UniRef90_X0XRY3 Y N D D I A S Q M W R Y I K P R M A K V C D L I H S Y G T K V R Y H S C G S V

UniRef90_F4A0C0 G A G S S T V I S P T L H K E F C L P Y D Q I Q H K A L H T K V V Y H L C G G L

UniRef90_H6P923 Q N L Q D S R L S H G E Y D H V I K P H I L H R A I S A G G T N I L H I C G Y E

UniRef90_U5RTV4 A R E A G D F L S L K A F E R F S W Q Y T K R I I D L I A E E G S I H L C D M S W

UniRef90_U5KKC9 G T Q R D L F I S P E C F D K F V L P Y I K R L L E P I K K H T A F H C G S V

UniRef90_UPI000360D6C4 S W A G A L S P E D Y R E R V A P H S A R A L E I A G Q V P L I H F G T G T

UniRef90_X1CFS3 D L G Y K D F F S M K V D F R F I L P Y H K R I Y N T C K K R G V I H S C G C

UniRef90_F3ZYQ3 S L M I S K G M F R K Y F K P L Y V K F Y K E I K D N F D V E T F F H S C G S V

UniRef90_X0UDD0 D Y A S T E L M S P K S F R E L F L K R V V A G F H E A G L P V I K H S D G N L

UniRef90_G5JU34 Q S I Q D S K V I T S E D Y R H Y I A P S D L A I I E A H Q A D V L H I C G Y E

UniRef90_W5DCH5 S W G Q Q L P H V W E Q W S K P Y I R Q I V A K I K T E C P H I Y I N G N

UniRef90_X0VYT0 D V I G A Q S A P L W E E W L K P R L I K V I S T A R S V K P D I L I H S C G Y V

UniRef90_X1CL19

UniRef90_W7XWJ0 G A Q Q G L M M G K E V W M E F E L K R M Y A N T K S H G K Y Q L I H S C G D I

UniRef90_H1CXP0 P H P D M T Y E K Y R E F I T P S E I A V L E A A N S V S D Y N L L H I C G Y M

UniRef90_F0Z453 L D K F D E F W M P H F K K I N G W L H D H T D W K T I K H S C G A V F D Y I

UniRef90_R5J6W3 L G A E T R W Y T D E E F A K W I K P F D L K I M K A I K D A G G Y C F L H M C

UniRef90_F5YF00 G M Q S G P F F S P D C F E Q F Y M P Y M K E F N H I V H E N S N I H C C G S I

UniRef90_UPI000379BD59 C F K M G P L I G P D L V R R Y M L P R Y K R V A D F L R G R G V W I D G Q V

UniRef90_UPI0001BF7CBB S W S G S L A P A E F E R W V I A P T V A I V K G L R V R V D V P I G F P

UniRef90_UPI0003B40500 D W G T Q D I A S P D I F Q R I E K P M Y K E Y V H H Y G K Y V F F H S D G Y I

UniRef90_UPI000360BD73 A D D S I E L I S T E M Y R E L I Y P F H K R M V D E L A E P D A P I S I H L C

UniRef90_I6Y034 R D A T S F G L T P E Q F R D W V A P Y D I Q V L A A P S L V R I A H L H G E

UniRef90_B0G7T1 P V I T C M D V I S K K Q F D E F S L P Y I K K L I D

UniRef90_F2I581 Q D L Q T D D F T D K D F I E L V K P L D T N R A K E L K P H H I L H V C G Y L

UniRef90_R7CRZ1 N N V S P D G I T E E E Y R K Y I A Y E L K I A N E A G G S N I L H I C G Y H

UniRef90_F0Z5P4 L G S M D T G M F M Q E E L F K P Y H K Q L N E Y V H K H S N M K T F L H S C G S I

UniRef90_UPI00036B804E G S Q T S T F I S P E M F E F Y L P S Y K K I Y G L Y R S M G V D V I V H H S

UniRef90_X1N3J7 D F A D N P F V I S P E M F R E F L Y P E M K R V V K N L G F Y V I K H S D G N L

UniRef90_UPI00036D648C E D M C G P L I S P A L F D E F M A P H Y K R I K E F T R R H D I P I V S V D T

UniRef90_F5T4G8 A Q D M H R Y I L P D A L Y R L Y V T P S E K K V L E N A K P Y N L L H I C G W R

UniRef90_M7U664 D I A S G P F W S P K V M K E L I W P I K K M V D L C H R R G V P Y L K H T D

UniRef90_E8N243 Q G G E G R F S N P A L F D E V I R P F D R L L M D E V N R L T P F N I L H I C

UniRef90_UPI000373D108 A S M I S P T M M R E F M L P R Y K Q L Y D F F K S N G V E C V M M D T D G H V

UniRef90_S0G3U5

UniRef90_U5RNP1 S R C G C D F I S P K I V E K F Y F T Y H Q K L V P V M Q Q N N V F H M D G N W

UniRef90_K7V7C8 S W G Q L P H V W E Q W S K P Y I K Q I V S R I K K E C L V L Y I N G N

UniRef90_UPI000370984E N I T A P V I G E D Y F R R Y C L P Y Y D E M A G L L D E R N I P I A V H M D

UniRef90_R5EZ23 Q C G M A K L M G K E M F E F G K K Y D L R N I E A V K W F N M A H V C H G D

UniRef90_UPI000471D588 D I V W T A F L J A P E F Y K T F I F P N L K L V A P L Q E K K K I L F T S D G

UniRef90_I2F1L5 D Y K T S T I F S P R H L R R L V F P W Y K E I A S V V H K P F V L H S C G N L

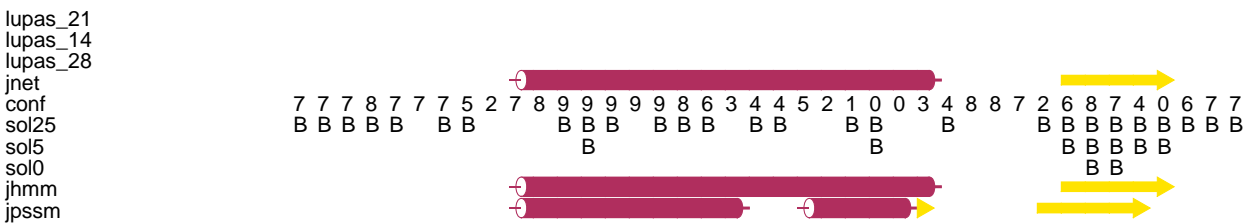
UniRef90_UPI0003B75AE9 S A G T G S M V I S P A T I T E F M V P Y Y K R L T S F L K E H G V I D T D G D C

UniRef90_G9RWV5 S Y N H G P M L I S E E L F N E F I K P Y Y R R L I P E I K K H G T R V F D G D I

UniRef90_A0A016AXW1 G S Q E S Q F C S V I E V F N E L W L P H Y R R M N D W I H E H T T W H S C G A I

UniRef90_F7NNZ6 V R G A G Q F I S A R H F D R F V G P Y M K V M V E K L G E K N I V H C D A D W

UniRef90_K4LGP2 H R G S Y P F L N P E Q W D K F Y W P T L K K V I E W A R G K R T L F Y A E G N



UniRef90_A3CQL8
UniRef90_UPI0003B64BBD
UniRef90_X1NQ37
UniRef90_UPI00047A6FB2
UniRef90_X0SVQ5
UniRef90_R6VBX3
UniRef90_W3AQY1
UniRef90_R5GWH8
UniRef90_UPI00047D037E
UniRef90_R7CM26
UniRef90_C5ERT7
UniRef90_X1EKG3
UniRef90_B8FV87
UniRef90_UPI000381AE1E
UniRef90_F3ZV25
UniRef90_UPI00023788AD
UniRef90_UPI000471ECA4
UniRef90_R5F5X0
UniRef90_A9NKE9
UniRef90_R9MRC0
UniRef90_I0HZU0
UniRef90_F9ECK7
UniRef90_UPI00025550F5
UniRef90_UPI0002D55DEF
UniRef90_X0XRY3
UniRef90_F4A0C0
UniRef90_H6P923
UniRef90_U5RTV4
UniRef90_U5KCC9
UniRef90_UPI000360D6C4
UniRef90_X1CFS3
UniRef90_F3ZYQ3
UniRef90_X0UDD0
UniRef90_W5JU34
UniRef90_W5DCH5
UniRef90_X0VYT0
UniRef90_X1CL19
UniRef90_W7XWJ0
UniRef90_H1CXP0
UniRef90_F0Z453
UniRef90_R5J6W3
UniRef90_F5YF00
UniRef90_UPI000379BD59
UniRef90_UPI0001BF7CBB
UniRef90_UPI0003B40500
UniRef90_UPI000360BD73
UniRef90_I6Y034
UniRef90_B0G7T1
UniRef90_F2I581
UniRef90_R7CRZ1
UniRef90_F0Z5P4
UniRef90_UPI00036B804E
UniRef90_X1N3J7
UniRef90_UPI00036D648C
UniRef90_F5T4G8
UniRef90_M7U664
UniRef90_E8N243
UniRef90_UPI000373D108
UniRef90_S0G3U5
UniRef90_U5RNP1
UniRef90_K7V7C8
UniRef90_UPI000370984E
UniRef90_R5EZ23
UniRef90_UPI000471D588
UniRef90_I2F1L5
UniRef90_UPI0003B57AE9
UniRef90_G9RWV5
UniRef90_A0A016AXW1
UniRef90_F7NNZ6
UniRef90_K4LGP2

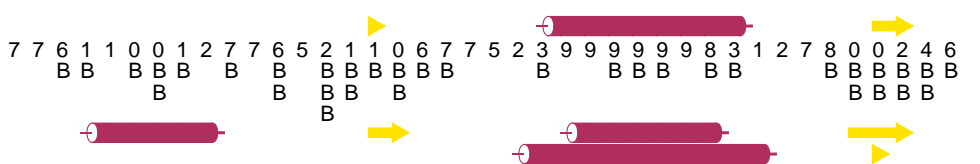
250 260 270 280
G A S N D L E L F K D Y P A Q V F N W A T H H E A E G R K L F G G Q A V L G G F
G P L L P I I F D E G A D G L N P I E R M G G C N D I F E I R E A Y P G K F L V G
N L N L P Y W A Q L P M G D P G I V S F G H E V D T T A I K Y F G N T C V I A G
N R D M E R F R E M P K G K C I W A C D N G S D I F K L K T A L D G H M A I K G
T P L L A D I A D A G V N V F H P V I Q H T M N E E V A R D Y G D R L C F L V G
G D R L E L M Q R S G A S G L E C L D P V P D L E D A F R R I G R E M F I K G N
G A T N D L T V Y E N Y P A K V I N Y A S V V E E G K K I F G G K A I I G G F D
E H N F T A S P E R Y V G Y P G D L F N W D V H R D Q Q G R E C F N K P V L G G
S L E M E R V Q G Y P F E V L S V S D R L P S N P N L S Q L R A M S D K C L M G
G C H N D W Y K D Y P F K A V N W A V A F E G V P L E K G E E I F D H R C V I G
D R Y K S Y K G L Y T I A N W G V Y E A G L S L S E G R R I F T D C A I M G G L
T D Y I P D L L D I G L R L E P V I Q P V M D L K L L K K K F G K D L V F Y G G
T R D L A R F K D P F K G K I L L E L D G M T D I L Y K A K E I L G D T M C I M G
P H L D T Q V K A W K P A T Y S M A Y Y P L V P Y A D N T L L A G N I D P Q G F
T K L L P I W L D A G L N V L Y P F E V I Q C G M D V L K V R K E Y G R D L R M W
C A E D L I G Q I L R T Q A C A F H F G E M S D I G K L S R A P K D I L I M G
G V K N H L N A W K D Y K A A A Y N W A V N E D S E G K K L F G G S A V I G G F
G E V L K P M H D I G V D V G V R W R I P L D E A S A R L G G G V T L Q
G A P V P T W S A W T G V G R W T R L R T V C G R R C R T R P S R W C R
E K L M P E L Y E A G V D I L N P V I Q C M D P V M L K E K W G D K F V F W G G G
L E L Y D D L T E I G V D A I N S Q V W C M G L D K V S E K C N G R I T N W G E
G G L L E R L P L S G V D V I S L D W T V D M A E A R R R I G I D I A V Q G N
G N
M Q I M D D L D L G F D S M H P V I Q E S M A P R T V K E R Y G D R I V I Y G S
A R L L A D M R A A G A D A V G V D D R T D L A E A I A V L D G A G P G P C P V
R P L M P L L A D A G L D A I N P V I Q F T C K D M A K K E L Y G K L T L W G G G
H A Q P A R F D D Y P V E G I S W D T E A K G N P G L E L P L E K T K V A G V D
Y T I P D L I E I G V D L S P V I Q P D M D P F L E K E F G N N L A F H G A
P L L D T V A Q N G A D G L E T M T P P C N L A E A D R Q V G D K L F F I G G
G A T N D L S Y T D Y S A D V I N W A I E L E A K G R Q L F G K T V L G G F
D R F I N Y F L D L P K G K C I F S P D S T T N I F K A G E V L R G H M C F M G
D R I I P K L I D C G V E I L H P I Q A K A K G M E A V N L Y G K D L V F L I G G
A R L L A D M R A A G A H A V G V D D R T S L A W A I E E L L G G G A C P V I Q G
D Q Y L P D L V D A G L K P V I Q S L E A T A G V D L A K E S L G D R L C F M G G
V E L I P E L I E I G V D P V I Q V S A R G M E L E K L K R E Y G S K L T F H G A
I P L L D M I L D S G L D C
G A S N D I E L F K D Y P A Q V F N W A V G P E A Q G R K L F G G K T V L G G F
G G L L E R M K D I G V D V I G L D W T V D M A D G R R R V G D G I S V I Q G N V
T P F I D G L T E A G V D I L N P I Q E C M D F N E I H D M A G D R I S F W G T

A E V I P E L I D A G V N S I N P F Q P E V N V D E L L N T Y R G K V T F H G G
G C H W Y R D Y P F K A V N W A V A F E G V P L E K G E E I F N H R C V I G G F
P K F I E A G F D L N P V I Q C S A A G M D A K L K D T Y G K D I T F W G G G
K S G L N M K R Y D D V N W G V Y E A P M T L A D G K K Q F P G K T I L G G L
K P L I P G L T E A E L D V Q I S A S D M D P A E L K A K F G G K L T F W G G G
D S L P L W L E A G I N F I W F E V A A G M D V N M R R K Y G R E L R M F
G K L A A Y A R E T G V D A I G L D E T V D P V W A N H E L P M G L P V I Q G N L
I D I P D L T E I G I D A L N S Q I F C M G L K E L G D R F R G K I S F W G E
G D V Q R H F L R D N L R V R S I D T G F P L D L G K A R R D L G P E V E L L G
D A D P E L I A D Y P V E V L S W S D T S S A P T I P E A T S R Y G W V P M V G

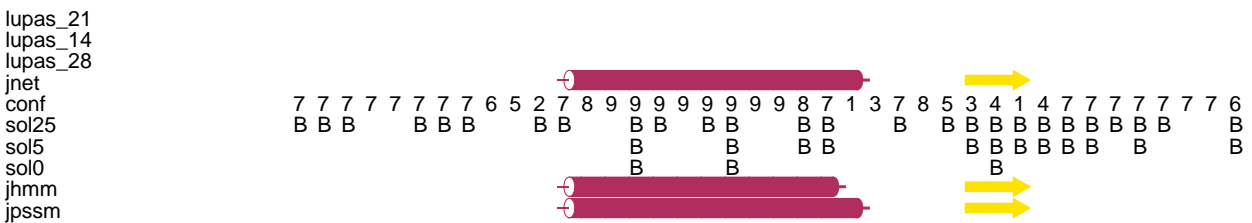
G A H N R L E K F A D Y P A S A V N W A T G P E K E D G K K I F K D K V V V G G
G F R N H L E W Y K D Y N V A N H V I E G I T L G K E K K L F G G R A V I G G F G
Y P I M G D L T D A G Y D V I N P V Q T T A Y Q M D K R E F G N D I T F W G G G
D S Y V P Y M I E M G I D V W Q G V M C S N N I P D L I T K Y G G M I S F M G G
M P I D M I I E T G V D C L D P L D P L A G M D I K Q K Y G D R I A I K G N
D G Q P D L I V P M T R A G V N M M F P F E V A A G C D R R Y P G L A M M G G
G N T F L T I Y Q D Y P A I A F N W E C L S L R E G K K F F H D K C V I G G F
G N I M S F L R E C G F D G I N P I P Q C M D M G E V K R L Y G E R L Y I R G N
D Y H L P Y E R V D G F L D Y P G Q V V S L G M E L T T R T L T F R R P I L G G
S Q I L E V F F P T A I D G L L P L E I A A N N D P E V Y L R K H K G L V L I G

E A F L P Y F R E F P K A Q C I L W D P D H V T D I R K K E I L G D K M C I T G
G G L L E R M K N T G V D V I G L D W T V D M T D G R R R L G N G I S V I Q G N V
G D L K P L W R A I G E S R V T L L D S F S P P P D N D T R A G E A S A M W P M
A A T S E W F L D Y P A V D A F N W S D Q D P A M Y
N F T Q F V D D I A A C S V N G V I M E P C T D M S Y I C E K Y G S T H V I V G
T T V M D D I I D A G V D A K H S F E D Q T M P V T E V K R R W G E R I S I L G
Y D I I H L F T E A G I N G M Y P I E V S C G M D L V K I R K T F P E L R L M G
T R A V P W F R G A G V E G L I P L I E R Q S G V D V A A I L R R E Y P D F L M I G
V P I L P G L T E A G F D V Q I N A K D M D S G M L K R E F G S H L T F W G G G
T K N L E F F L Q L P K A K F V L E L D G A T D I F K A Y E I L K G H C A I K G
W T P Y L E R I A E L P D K S I V F H V D M T D M A K A K K V L G G R F C L S G

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm



	290	300	310	320
UniRef90_A3CQL8	E N G R A A L L L N T S R A E L E	N E T K R L L A E T G S Q L G A D	C T V P D D F	
UniRef90_UPI0003B64BBD	N V C S S T L P F S L E D I E D E T L E L I	E Q G G F L I G S S S E V N D L I		
UniRef90_X1N3Q37	N I E P A V I Q E G T H E D V Y E L C R I A I	D K R R G F I L L M P G C G F P P K A		
UniRef90_UPI00047A6FB2	D V P P A L L A L G T P D D V H A Y C T R L I	R E T G F I L L A P G C T M P Q N A		
UniRef90_X0SVQ5	I D V Q H T L Q E K D P T G V R E E V R F L I	D D G G M C I A A G N G I V A G T		
UniRef90_R6VBX3	I D S L N T L L M A D D A K A E E D V R R I L	R D R G F I L L S T A C S I A P L V		
UniRef90_W3AQY1	N T E N G V L Y R G S K E E I E R E T V R I L	D D A G F I L L G A D C T V P S D I		
UniRef90_R5GWH8	L D N H G L L I Q G S L K D I S E E T K H I L I	R K F G F M L G A D C T V P A D I		
UniRef90_UPI00047D037E	G L D E T K I Q E R T L P E I A A E V E D S E	A Q A G F I L L A P G C T V P S F T		
UniRef90_R7CM26	N N P E G V L Y S G S R E E V E A E T K K I L	D K A G V I L L G A D C T V P K D I		
UniRef90_C5ERT7	S N H M G P L I J E G T A D E I R E E V R R V V	A E A G F I L L G T D C T I P T G T		
UniRef90_X1EKG3	I D T Q N L L P Y G S P E E V K T E A R R T I	K G G G L I M G T A Q E I M H D V		
UniRef90_B8FV87	D V P A A L L T L G T P D A V H N Y C R K L I	E E T G F I L L H P G C D I P I D A		
UniRef90_UPI000381AE1E	V R W K Q D K I E T V T K N L L S E V S A A L	K E R G H C V A S G C E V P P S T		
UniRef90_F3ZW25	F G I D K R A A A H G P E A I D A E L A R V I	H D G G Y V P G P D H S F P P D V		
UniRef90_UPI000474DF72	N L R A L D F V E K S P G D I A L S T R G L L	E K F G Y A I S S G C D I P L N A		
UniRef90_UPI0003B68646	A N S P G S L I E V I T K S E I E D F T E K L I	K K K G I I G A D C T I P Q G I		
UniRef90_UPI00023788AD	G N V D P A L L A A P W P V L E A H V L D V L	A R G R H V L N L G H G V P E T		
UniRef90_UPI000471ECA4	V D T Q K T L P F G T P E E V Y A E V L E R L K	G G G F V F N T I H N I Q G P T		
UniRef90_R5F5X0	I C R Q H I L P E G S V E D V I D A V H K M K E	A L W V N G G L I G Q F G P D M		
UniRef90_A9NKE9	V D P G A L F G S K D F I T K R I Y D T V S K	A G H I L N L G H G V L V I G T		
UniRef90_R9MRC0	L D V V D G L L A Y D G D A L E E Y I T Q R F	P G G G F I F N T G H F V Q P D I		
UniRef90_I0HZU0	Q G N L D P A L L A A P W E V L J A A V D A C	L E A G R H V V N L G H G V P T T		
UniRef90_F9ECK7	C D T R R M L P Q G K P S E I L G P H V K K N L	E A G G F I F Q Q V H N I L A D I		
UniRef90_UPI00025550F5	H E I F D G M N D A L T E Q Q A K R A L E I M	D G Q S F L L V P N C A V S V K A		
UniRef90_UPI0002D55DEF	I D I Q E L L P K G S E Q D V R N Q V R R T I	D D G G Y I L A G S H T I Q A D A		
UniRef90_X0XRY3	F D Q N A G F E K G N P K S V K E M V Y K L C	P N G G Y I C S P S D H F F F G		
UniRef90_F4A0C0	N N T E S G L L Y K S K E A I Q A R R E L L N	E T G H Q I G A D C T V P S D I		
UniRef90_H6P923	D V A P S L L T L G T P D E V Y K Y A R R L I	K E F G L I M S S G C S V I P N A		
UniRef90_U5RTV4	V D T Q E L L P F G T P A Q V R E E V L R L R	D V F G D H F S P S H E L L P H V		
UniRef90_U5KKC9	N L D P A L L A A P W S V L E S A I D A C L E	A G G H V L N L G H G V P P A T		
UniRef90_UPI000360D6C4	L D S S G V L T H G T P E N V R S T I K K A G	K G G F F V G P S H D I L N M		
UniRef90_X1CFS3	I D I S Q Q L L P Y A S E E L R R E V R R I D	G G Y I L L A P T H A L I Q A D T		
UniRef90_F3ZYQ3	V N T K D G I L L Y K S K E E I Q A Q V R K L L	Q E S G T I I G A D C T I P S D I		
UniRef90_X0UDD0	D P A Y L F S P L P V L I T H E I H R V V K A A	G P K G H I L N L G H G V L Q K T		
UniRef90_G5JU34	L G T Q K L L P F D T P D E V R K R L E K C G E	K G G I V I G P T H M V I E P E V		
UniRef90_W5DCH5	L S T Q K T L P Y G T V Q D V K D E T M H L L E	D G S Y I F C P S H A T E G D T		
UniRef90_H1CXP0	D N N P E G V L Y S G T R E V R E K E T V H L L E	K R G V I L G A D C T V P K D I		
UniRef90_F0Z453	V D T Q K V L P F G T P E D V R R K E V L E R C E	D E N G G F I F N A I H N V Q H G T		
UniRef90_R5J6W3	E N R S G V L V D G D E Y D V R R E V I K V V E	N F G F I L G A D C T L A T E Q		
UniRef90_F5YF00	C N T Q N L L G F K D E D T V R K N V K E L K P	G G G F V F N Q V H N I M G N V		
UniRef90_UPI000379BD59	G M D K R P L J A G G E A L D A G V D R V L J A	A F A D R P H V F N L G H G I Q Q D T		
UniRef90_UPI0001BF7CBB	D P L L L T I A G G E A L D A G V D R V L J A	A F A D R P H V F N L G H G I Q Q D T		
UniRef90_UPI0003B40500	V D R Q E L L P Y G T R N Q I E H A V R E I W R	D G G V I A Q C E F G L J E A		
UniRef90_UPI000360BD73	G P S V V L L R Y G T P K Q V R E E T I K I L L	E G K F I L R E G N N L A P F T		
UniRef90_I6Y034	I D E L T S L Y W T P S E A A A H V L L Q A R	R A A G D R L J A P N C T L H S D T		
UniRef90_B0G7T1	F Q N T A D D L I Y K E S E I K A Y T K E L I K	E A G Y V I G A D C T I P A D T		
UniRef90_F2I581	Q T E N D L I Y K G S E K E I R S E V R R L L	D E S G T K L G A D C T I P R D T		
UniRef90_R7CRZ1	C N T R S I L N R S T P E E V Y E Y T R R M I	D G G G F V F N Q E H N I M P D V		
UniRef90_F0Z5P4	I D S A K V I D Y G W S R E V I A K E V R R A C	D E N G F I P N T S Q G L P M S T		
UniRef90_UPI00036B804E	I N C V I T L L Q N G T P Q E V K K E V K E C I	K G G Y I I S S S N S L H A G V		
UniRef90_X1N3J7	I D K R A L L G P A A I D R E E R I R P A V E R	G R Y I P D L D H L I P D D V		
UniRef90_UPI00036D648C	L N T E D S I L F T N K G E I Q N Y T Q K L L	K D K G V I I G A D C T L P R S I		
UniRef90_F5T4G8	V D I T W V I P Y G S E A D V R A D V R R A I	D G G G F I L S E S N S F H P N C		
UniRef90_M7U664	L N R H G V I A H G T P E Q I R A E V E S V C A	A A P F I L L G A D C T V P S E T		
UniRef90_E8N243	G I D K R E L R F S K E R V R A E V V K R Y R	V A R H F I T V D H G V P P D I		
UniRef90_UPI000373D108	N V P P A L L T S V G K P E D C Y K Y A K D L V E	H D G F I M N S A C S V P P N A		
UniRef90_S0G3U5	D P A F L F S P L P V L T D E I H R V V K A A G	P K G H I L N L G H G V L Q K T		
UniRef90_U5RNP1	L N F P S S V H L A P P E T I R R K A Q E I L E	E A G H T G R L I Q I Q L S E N V		
UniRef90_U5RNP1	N A D T R I L L L C G D K D D I E N E V K R C I	A L G G Y F M A V G N H I P P N T		
UniRef90_UPI000471D588	G I D V D F L C H A S V E Q V R K R T L E T L E	G G G Y A L G T G N T V A N Y I		
UniRef90_I2F1L5	G I P K S E I R Y H R L D Q I L K P V D E V L	K T G G Y I P F G D H L I P P E V		
UniRef90_UPI0003B57AE9	G F D K M C M F E G P D A V I R R E R L L P V I	R S G R Y I P A M D H Q T P P G T		
UniRef90_G9RWV5	V D T Q K M L P F G T P D E I R R H V L E I L	K D G G F V F N S V H N I Q A N V		
UniRef90_A0A016AXW1	D V P A A L E T V A S P G E L D D Y A K K L I	N G E G L I Y S S G C N L P M N A		
UniRef90_F7NNZ6	N V P N T L L A Y G K P E E V R D Y C K K L I	D D G G F I I D A G G V I Q A D A		
UniRef90_K4LGP2				



UniRef90_A3CQL8 E L L E R L D W I R Q A A S Q F
UniRef90_UPI0003B64BBD P Q D N A L K L Y E T V L E Y G S
UniRef90_X1NQ37 P P Y N L Y T M V K A V
UniRef90_UPI00047A6FB2 K V E N V R A M V Q A A
UniRef90_X0SVQ5 P F D N I E A F L D E A V H Y
UniRef90_R6VBX3 P R H R I E M L H E L V
UniRef90_W3AQY1 N F E H L N W V R E A A R E Y S
UniRef90_R5GWH8 D I E R L K T A I Q A A R E
UniRef90_UPI00047D037E S Q R N L R Y L R E
UniRef90_R7CM26 D P V R F E W V R E A A E K Y S
UniRef90_C5ERT7 S Y D R L R T A V D A
UniRef90_X1EKG3 P I E N I K A L V E T M R E
UniRef90_B8FV87 K I E N V Q A M V A S V
UniRef90_UPI000381AE1E K M E N I K A V D T T K Q F
UniRef90_F3ZW25 S F E N Y C Y F M E
UniRef90_R7L5Q7 L W E N I D A F C G A V R Q Y Y
UniRef90_UPI000474DF72 P F D R L E W V R Q K A E Q V S
UniRef90_UPI0003B68646 D P A V L T R I V E L V H
UniRef90_UPI00023788AD
UniRef90_UPI000471ECA4 K P E N I Y A M F E A V R D Y N
UniRef90_R5F5X0 P L E N I K A
UniRef90_A9NKE9 P E D N V A H F F E V A K
UniRef90_R9MRC0
UniRef90_I0HZU0 P V Q R L L H A Y R V V Q R
UniRef90_F9ECK7 D P D V L T R L V A R V H
UniRef90_UPI00025550F5 P P V N V V E M F K A V R D F
UniRef90_UPI0002D55DEF T E G A L N T L R N S V
UniRef90_X0XRY3 P L E N I I A M I D E A K K
UniRef90_F4A0C0 D P E N I K A F V E A A R E
UniRef90_H6P923 A S E R I A W V K E A V
UniRef90_U5RTV4 K V E N V K A M V A A
UniRef90_U5KKC9 P F E N V M A M C K A A K E
UniRef90_UPI000360D6C4 D P G V L T R L V A R A H
UniRef90_X1CF53 P W E N V L A M R A I E K Y
UniRef90_F3ZYQ3 T I A N I I A M Y E E A Q
UniRef90_X0UDD0
UniRef90_G5JU34 A S E R I A W V K E A V
UniRef90_W5DCH5 P E E A V A H F F D V T R
UniRef90_X0VYT0 P W E N L T A I I E A V K D F
UniRef90_X1CL19
UniRef90_W7XWJ0 P I E N I V A F I D L I K
UniRef90_H1CXP0 D P E R F N W V R D A A
UniRef90_F0Z453 P L E N M L A M F N A V R E F N G
UniRef90_R5J6W3 D L K L V R A A V E Q A R
UniRef90_F5YF00 P P Q N I V A M F D E A Y K
UniRef90_UPI000379BD59 S Y A H F R Y Y M D
UniRef90_UPI0001BF7CBB P I A H V E R L V A R V R
UniRef90_UPI0003B40500 R P E N V F S V F E T
UniRef90_UPI000360BD73 P L E N L W A M Y E T A K E Y
UniRef90_I6Y034 N P
UniRef90_B0G7T1
UniRef90_F2I581 P R E H F D W V R Q A
UniRef90_R7CRZ1 D I R H L E W I R D E A D K Y
UniRef90_F0Z5P4 P G V N I L A M Y K A V
UniRef90_UPI00036B804E F P G V Y E T V T E E I K K Y S
UniRef90_X1N3J7 K P E L Y Q V M L D S I Q K Y
UniRef90_UPI00036D648C S W E N Y C Y Y
UniRef90_F5T4G8 D Y E K I Q Y I R E A C K
UniRef90_M7U664 K F E N I L T Y V D E A K K Y
UniRef90_E8N243 P W E N L R T A I E T A H T F
UniRef90_UPI000373D108 P L R N F L Y M V E L I K G F
UniRef90_S0G3U5
UniRef90_U5RNP1 K Q K N I E A V I
UniRef90_K7V7C8 P E E A V A H F F D V T R R
UniRef90_UPI000370984E P P E I V R A I A E F G K
UniRef90_R5EZ23
UniRef90_UPI000471D588 P V D N C L Y Y N D F Y E K Y S
UniRef90_I2F1L5 P V K N Y L A M L E A G N E F N S
UniRef90_UPI0003B57AE9 P W K E F R Y Y R E
UniRef90_G9RWV5 T L E T Y R A Y A R M L R E Y
UniRef90_A0A016AXW1 P V E N V I A M L D A L K
UniRef90_F7NNZ6 R H E N V K A F F D A V D K Y
UniRef90_K4LGP2 K E E N I R A L I E A A R E Y

lupas_21
lupas_14
lupas_28
jnet
conf 2 7 8 9 9 9 9 9 9 9 8 7 2 8 9
sol25 B B B B B B B B
sol5 B B B B
sol0 B B B
jhmm
jpssm