

QUERY UniRef90_UPI0002E4532F UniRef90_A3Y2R8 UniRef90_Q2LW85 UniRef90_F3Z3J4 UniRef90_UPI0001E2DE84 UniRef90_UPI0003B30B29 UniRef90_H6SJ58 UniRef90_UPI00040731F0 UniRef90_B6INP8 UniRef90_UPI000316A654 UniRef90_H6QYH9 UniRef90_E3CW43 UniRef90_UPI0004724401 UniRef90_Q2KD24 UniRef90_H8FWH2 UniRef90_F4XLX7 UniRef90_K2MB57 UniRef90_K9XG26 UniRef90_L8J6N6 UniRef90_D2RAJ6 UniRef90_UPI00034C42E7 UniRef90_B9QXT0 UniRef90_B9XIV8 UniRef90_UPI00037F80EB UniRef90_W4ER22 UniRef90_S5YR05 UniRef90_UPI000378E389 UniRef90_UPI0003651116 UniRef90_A8IA55 UniRef90_H3SDF9 UniRef90_G7Z9N1 UniRef90_V6MKU8 UniRef90_H0TP22 UniRef90_R6EET7 UniRef90_B4VXY3 UniRef90_C4RN51 UniRef90_S2YN96 UniRef90_UPI000361A823 UniRef90_W4QCC0 UniRef90_A0NS50 UniRef90_UPI00046AD905 UniRef90_B9LZT7 UniRef90_F5YYA0 UniRef90_G4HAT1 UniRef90_L0RGU0 UniRef90_F4XQT1 UniRef90_D5DG32 UniRef90_A0A023DF42 UniRef90_UPI00037AF4BC UniRef90_UPI00037C3E18 UniRef90_B3Q2C6 UniRef90_B9R5Y8 UniRef90_B7GIH6 UniRef90_V6V8X6 UniRef90_K2IR51 UniRef90_G2E141 UniRef90_UPI00036F8CD4 UniRef90_A4U0Z3 UniRef90_E7MNG4 UniRef90_L5MT91 UniRef90_UPI0004714C24 UniRef90_I9XOE3 UniRef90_X5L6Y2 UniRef90_T0HDW6 UniRef90_W6WAR0 UniRef90_UPI000225B18D UniRef90_W8IEB0 UniRef90_G4R699 UniRef90_A8IQ01 UniRef90_T0IMC8 UniRef90_D4JXM9 UniRef90_B0UPY1 UniRef90_UPI00047BC666 UniRef90_I9CQPO UniRef90_UPI00036C96CE UniRef90_U7QIB8 UniRef90_K4ILR4 UniRef90_S3ZKP0 UniRef90_W0DYR2 UniRef90_G7ZD92 UniRef90_Q0W104 UniRef90_UPI0003FAB89A UniRef90_UPI000371F84A UniRef90_UPI0002D6B717 UniRef90_J6DJ34 UniRef90_A5ESU4 UniRef90_Q131W4 UniRef90_UPI0003FE9818 UniRef90_F9UHK1 UniRef90_U9GT32 UniRef90_A0A038FM29

1 10 20 30 40

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

QUERY 50
 UniRef90_UPI0002E4532F F N E M I A N L R E V A M
 UniRef90_A3Y2R8 F E R M Q R S I R E K M
 UniRef90_Q2LW85 F M K M T Q S L Q E
 UniRef90_F3Z3J4 F E S M R Q A L K E H I
 UniRef90_UPI0001E2DE84 F N R M T E S I R Q Y I
 UniRef90_UPI0003B30B29 F E Q M K K S L K
 UniRef90_H6SJ58 L E T F R T N A R E
 UniRef90_UPI00040731F0 F N V M A E E L E H A
 UniRef90_B6INP8 V L T F R K
 UniRef90_UPI000316A654 F A R M
 UniRef90_H6QYH9 F N Q M A A D L A A A
 UniRef90_E3CW43 F G A M R D S L L R H M
 UniRef90_UPI0004724401 I N A M A D S L Q A Q L
 UniRef90_Q2KD24 V A V F K E N
 UniRef90_H8FWH2 V Q V F K D N
 UniRef90_F4XLX7 L N R M K V S L E M A M
 UniRef90_K2MB57 L E V F R A N R E Q A
 UniRef90_K9XG26 F N Q M L D D L N T T M
 UniRef90_L8J6N6 F N H M T T N L E A T I
 UniRef90_D2RAJ6 F N E M A E E L E H A
 UniRef90_UPI00034C42E7 F R Q M R D S L Q
 UniRef90_B9QXT0 V E V F K T N G K A Q
 UniRef90_B9XIV8 F N K M A A R L R A
 UniRef90_UPI00037F80EB F N R M A E D L A A
 UniRef90_W4ER22 F S H M A N Q L E Q
 UniRef90_S5YR05 F N R M T R Q L K A Q
 UniRef90_UPI000378E389 F K R M K F S L E M A I
 UniRef90_UPI0003651116 F N R M T R R I E E Q
 UniRef90_A8IA55 V Q V F K D S L
 UniRef90_H3SDF9 F T R M A Q S L E Q A
 UniRef90_G7Z9N1 L R V F K E N
 UniRef90_V6MKU8 L N T M A T R L N Q
 UniRef90_H0TP22 V L V F K D N
 UniRef90_R6EET7 F N I M A N E L E Q S V
 UniRef90_B4VXY3 F N I M A A Q L R Q
 UniRef90_C4RN51 F N R M T R E
 UniRef90_S2YN96 F N Q M G R Q L K H H L
 UniRef90_UPI000361A823 V Q V F K D A L
 UniRef90_W4QCC0 F N Q M R Q S L Q
 UniRef90_A0NS50 V Q V F R D N
 UniRef90_UPI00046AD905 L D V F R E N A K E A
 UniRef90_B9LZT7 F N E M V E K L R E
 UniRef90_F5YYA0 F N D M G R S L R T
 UniRef90_G4HAT1 F N V M V L K I K E L M
 UniRef90_L0RGU0 F N K M T S S L
 UniRef90_F4XQT1 F N R M T S R L R K L I
 UniRef90_D5DG32 F E E M R Q K L K
 UniRef90_A0A023DF42 F E E M R C R L K E S I
 UniRef90_UPI00037AF4BC F D S M A Q Q L R Q S
 UniRef90_UPI00037C3E18 F N E M R R Q L R Q
 UniRef90_B3Q2C6 V E V F K Q N
 UniRef90_B9R5Y8 I E V F K D N
 UniRef90_B7GIH6 F N Q M V H N L K Q
 UniRef90_V6V8X6 F E Q M A K N L R E
 UniRef90_K2IR51 L D E F R H S L G R A
 UniRef90_G2E141 A N I F R E E V
 UniRef90_UPI00036F8CD4 F N S M A E Q L K E S
 UniRef90_A4U0Z3 V Q V F K D N A K Q A M
 UniRef90_E7MNG4 F N V M T Q E L
 UniRef90_L5MT91 F A Q M A E S L K Q
 UniRef90_UPI0004714C24 F N S M T E E L S S Q
 UniRef90_I9XOE3 V Q V F K D N L
 UniRef90_X5L6Y2 F N Q M A A D L G A A
 UniRef90_T0HDW6 F N R M T Q R L E A Q
 UniRef90_W6WAR0 V E V F K K N
 UniRef90_UPI000225B18D V G V F K D N
 UniRef90_W8IEB0 V Q I F K Q N
 UniRef90_G4R699 V E V F R E N
 UniRef90_A8IQ01 V L V F K E E M A R
 UniRef90_T0IMC8 F N V M A G N V N Q A M
 UniRef90_D4JXM9 F N K M A D N L Q
 UniRef90_B0UPY1 V E V F K R N
 UniRef90_UPI00047BC666 F N K M T K E L K
 UniRef90_I9CQP0 V Q V F K E A L
 UniRef90_UPI00036C96CE I N T M A E N L Q R Y I
 UniRef90_U7QIB8 F N Y M A R Q L Q T S
 UniRef90_K4ILR4 F N E M A E E L Q H A
 UniRef90_S3ZKP0 I N R M A D D L E A Q
 UniRef90_W0DYR2 F N I M T Q Q V A K A
 UniRef90_G7ZD92 V Q T F R E N
 UniRef90_Q0W104 F N S M M D R L E R S
 UniRef90_UPI0003FAB89A F A R M A G E L K Q
 UniRef90_UPI000371F84A F N Q M A S E I
 UniRef90_UPI0002D6B717 F N H M A E E L K M T I
 UniRef90_J6DJ34 V E V F R Q
 UniRef90_A5ESU4 V D V F R R N M
 UniRef90_Q131W4 V Q V F K D N
 UniRef90_UPI0003FE9818 V N T M G A N L E Q L I
 UniRef90_F9UHK1 F N V F K D N
 UniRef90_W9GT32 V D V F K Q N A I T A
 UniRef90_A0A038FM29 L A V F K D N

UniRef90_H4F3A8
UniRef90_Q2BRD7
UniRef90_V5SER4
UniRef90_K0I5S0
UniRef90_I4CAZ5
UniRef90_A3K6F1
UniRef90_F8JPD4
UniRef90_S6EU99
UniRef90_G8AND0
UniRef90_UPI00041FC8E2
UniRef90_UPI00034BA473
UniRef90_UPI0002E6B0A0
UniRef90_UPI000475ED78
UniRef90_K0VW80
UniRef90_B7QVN3
UniRef90_K2J4W1
UniRef90_B8IKU9
UniRef90_C7ISD6
UniRef90_S9T8W5
UniRef90_D3NU42
UniRef90_UPI00047C7C82
UniRef90_W6K8Y4
UniRef90_A0A037ZBH1
UniRef90_K9R9B1
UniRef90_A5EQU2
UniRef90_W9VAL3
UniRef90_UPI0002D4506C
UniRef90_K1Z6R4
UniRef90_Q07QN2
UniRef90_S6GQ69
UniRef90_D8GRV3
UniRef90_S9TRP3
UniRef90_K6DX59
UniRef90_B9JZK5
UniRef90_F5YP91
UniRef90_G7Z2J6
UniRef90_UPI0003B41434
UniRef90_D7AH20
UniRef90_UPI0003B4F141
UniRef90_UPI00047CDBCDB
UniRef90_G7ZDJ7
UniRef90_UPI000475445C
UniRef90_W9GJ51
UniRef90_M3AAI4
UniRef90_U7FU82
UniRef90_D9QT93
UniRef90_K6DF76
UniRef90_UPI00039B37BD
UniRef90_M5DY22
UniRef90_UPI00047AAF1B
UniRef90_X0R7W8
UniRef90_A3THC2
UniRef90_H4FDS4
UniRef90_L0NG45
UniRef90_A4TVY3
UniRef90_UPI00047DDF69
UniRef90_G9A5E1
UniRef90_V7N310
UniRef90_UPI0003653C27
UniRef90_G2DB02
UniRef90_D6TK35
UniRef90_UPI0003F952EE
UniRef90_R1GLY8
UniRef90_UPI00037407DA
UniRef90_UPI000472AF66
UniRef90_I9WRN4
UniRef90_B8I396
UniRef90_D4H636
UniRef90_B1LUS4
UniRef90_G7Z9R4
UniRef90_M7Y7K0
UniRef90_Q1PXY5
UniRef90_Q07IW0
UniRef90_UPI00036381A6
UniRef90_UPI000361922D
UniRef90_UPI00037EFBFB
UniRef90_I4CC11
UniRef90_UPI0004643599
UniRef90_Q1IHT9
UniRef90_K9YIN9
UniRef90_E3IG06
UniRef90_UPI0004687705
UniRef90_G2FRL3
UniRef90_UPI0003B4C19C
UniRef90_D5WSC7
UniRef90_UPI00035F537E
UniRef90_H0S3M0
UniRef90_R5AFF3
UniRef90_UPI00037E378E
UniRef90_S9UV84
UniRef90_R117N4
UniRef90_K9HSN9

UniRef90_H4F3A8 L E V F R A N E Q Q M
UniRef90_Q2BRD7 L E H F R E H L
UniRef90_V5SER4 V Q I F K E N L
UniRef90_K0I5S0 F D H M R V D I G A Q
UniRef90_I4CAZ5 F T R M T H G L K E
UniRef90_A3K6F1 F N Q M T R Q L K A Q
UniRef90_F8JPD4 F N S M A A D L E A A
UniRef90_S6EU99 F N I M A E S L E Q
UniRef90_G8AND0 V A V F K D N
UniRef90_UPI00041FC8E2 F N Q M S A D L D A A
UniRef90_UPI00034BA473 F N R M S Q Q L R E
UniRef90_UPI0002E6B0A0 F N L M R R Q L
UniRef90_UPI000475ED78 F N L M T D E L A S Q
UniRef90_K0VW80 V D V F R E A
UniRef90_B7QVN3 V E I F R E S L R Q Q M
UniRef90_K2J4W1 L V V F R D
UniRef90_B8IKU9 V A V F R E N
UniRef90_C7ISD6 M N T M V K Q L
UniRef90_S9T8W5 S N T M A Q S L
UniRef90_D3NU42 V R V F K D G L L E A
UniRef90_UPI00047C7C82 L Q V F K Q
UniRef90_W6K8Y4 V E V F K Q N A Q R
UniRef90_A0A037ZBH1 F N N M R E N L K
UniRef90_K9R9B1 F K R M K L S L E M A M
UniRef90_A5EQU2 V E V F K T N
UniRef90_W9VAL3 L D Q M I E G L E R
UniRef90_UPI0002D4506C F N L M A D E I S Q
UniRef90_K1Z6R4 F N Q M T V S L K N A
UniRef90_Q07QN2 V E E F K L Q A Q
UniRef90_S6GQ69 F V K M Q H S I R Q Q I
UniRef90_D8GRV3 F N Y M A D A L Q I T L
UniRef90_S9TRP3 V Q V F K D N A K Q Q M
UniRef90_K6DX59 F N Q M A R Q L K E S
UniRef90_B9JZK5 V E V M R Q S
UniRef90_F5YP91 F K F M V E K L N G A M
UniRef90_G7Z2J6 L Q V F K D S L
UniRef90_UPI0003B41434 F N K M A D N I Q D Q I
UniRef90_D7AH20 F N S M A E S L
UniRef90_UPI0003B4F141 F N Q M T R Q L K
UniRef90_UPI00047CDCBD F N R M K S S L E I A M
UniRef90_G7ZDJ7 L E E F K R N
UniRef90_UPI000475445C I N G M A D S L Q Q Q L
UniRef90_W9GJ51 F N S M A D D I A S A
UniRef90_M3AAI4 L E V F K E N G Q A
UniRef90_U7FU82 Y R D M V G T I R N N M
UniRef90_D9QT93 L N Q M Q A N L Q E
UniRef90_K6DF76 F N Y M V T S L R A M I
UniRef90_UPI00039B37BD F N A M T S R L E T Q
UniRef90_M5DY22 L N D M L D S L K
UniRef90_UPI00047AAF1B F D R M R H E L A D H L
UniRef90_X0R7W8 F E E M R L Q L K K S I
UniRef90_A3THC2 F N A M S S D L A D A
UniRef90_H4FDS4 V S V F R D N
UniRef90_L0NG45 L E S F R Q
UniRef90_A4TVY3 V Q I F K D N M I R A
UniRef90_UPI00047DDF69 F E E M R Q R L K E S L
UniRef90_G9A5E1 V V V F R D A L
UniRef90_V7N310 F N E M S R N L
UniRef90_UPI0003653C27 F N N M A V I G L Q
UniRef90_G2DB02 F D T M V T N L K A
UniRef90_D6TK35 F D T M A D S L E R S
UniRef90_UPI0003F952EE F N L M V G R I R E L M
UniRef90_R1GLY8 L S S F R D H I
UniRef90_UPI00037407DA F V N M A A Q L E
UniRef90_UPI000472AF66 V A I F R D N
UniRef90_I9WRN4 V Q V F K D N L
UniRef90_B8I396 F N N M V E D L Q R
UniRef90_D4H636 F N R M T K K L K
UniRef90_B1LUS4 V R V F K D G L I R A
UniRef90_G7Z9R4 V A V F K D
UniRef90_M7Y7K0 V Q V F K D G L
UniRef90_Q1PXY5 F N Q M T D A L R
UniRef90_Q07IW0 V Q V F K D N M I K A
UniRef90_UPI00036381A6 I E V F R E R L
UniRef90_UPI000361922D F N H M T D A L A D A
UniRef90_UPI00037EFBBF L G V F K E N
UniRef90_I4CC11 F N K M T E G L K Q
UniRef90_UPI0004643599 I A I L K E R S A E A
UniRef90_Q1IHT9 F N G M A E R I Q T
UniRef90_K9YIN9 F N E M T S Q L R E L I
UniRef90_E3IG06 F N N M T R S L R Q L I
UniRef90_UPI0004687705 L D A F R M S L S K A
UniRef90_G2FRL3 F N I M L D R L E Q S
UniRef90_UPI0003B4C19C F N Q M A D T L E
UniRef90_D5WSC7 F N Q M A G N L K S L L
UniRef90_UPI00035F537E V G V F K E N
UniRef90_HOS3M0 L D V F K T N
UniRef90_R5AFF3 F N H M A E S L Q T H
UniRef90_UPI00037E378E F E K M R G E L E R S
UniRef90_S9UV84 F T V M A E A L
UniRef90_R117N4 F N Q M A G D L
UniRef90_K9HSN9 M E I F K H N

UniRef90_R9LBV8
UniRef90_N6UEN8
UniRef90_UPI0003706F77
UniRef90_A8MF80
UniRef90_UPI00035E1A3D
UniRef90_F4A7W0
UniRef90_K0J677
UniRef90_W9GRS4
UniRef90_I3IH63
UniRef90_Q5HP59
UniRef90_L0NBU2
UniRef90_UPI00047B047C
UniRef90_W4DCP4
UniRef90_B2J5Q4
UniRef90_D3NV58
UniRef90_Q13F34
UniRef90_S2LH54
UniRef90_C3BGJ7
UniRef90_UPI0003652043
UniRef90_F0L717
UniRef90_UPI000414D2B5
UniRef90_UPI00041E9215
UniRef90_A0A017HGG9
UniRef90_A0P3M6
UniRef90_UPI000363B2B7
UniRef90_U2K5Y9
UniRef90_X1SSW8
UniRef90_UPI0003692519
UniRef90_L0GSC8
UniRef90_UPI0004263D47
UniRef90_R0E5Q8
UniRef90_D9R7V5
UniRef90_Q31J88
UniRef90_W9UZ97
UniRef90_K4KVS4
UniRef90_UPI000466044E
UniRef90_B1R1J8
UniRef90_F0Q5Y8
UniRef90_M3FAQ9
UniRef90_R7KTU8
UniRef90_Q0APQ2
UniRef90_UPI000349A458
UniRef90_B1LT32
UniRef90_UPI0003797E11
UniRef90_E0S285
UniRef90_UPI00034A5FE7
UniRef90_S5JVX6
UniRef90_UPI0003689EC2
UniRef90_UPI00031B482F
UniRef90_J3CXL4
UniRef90_Q2W5G7
UniRef90_S0FI93
UniRef90_UPI000370CDD8
UniRef90_UPI0004027690
UniRef90_H4FDF1
UniRef90_UPI000255ECC4
UniRef90_W9BBB0
UniRef90_C0D041
UniRef90_UPI00046EA44C
UniRef90_A0A021X4L5
UniRef90_D5RQ42
UniRef90_G5JGC1
UniRef90_UPI0002D39D2C
UniRef90_A7X5Y6
UniRef90_Q08RE9
UniRef90_A4YSF9
UniRef90_UPI0002557E83
UniRef90_K2C9S0
UniRef90_UPI0004716C3B
UniRef90_C7MDU9
UniRef90_B9MLQ3
UniRef90_E7T1Y6
UniRef90_C5EL65
UniRef90_D1PP66
UniRef90_I3X5Z4
UniRef90_W7ZV10
UniRef90_UPI0002D3713D
UniRef90_I4CEI2
UniRef90_W3AQN0
UniRef90_I7K579
UniRef90_B8ESS8
UniRef90_J1SN48
UniRef90_Q166M2
UniRef90_W9VB16
UniRef90_C6B534
UniRef90_Q2VZU5
UniRef90_UPI00035E5CA0
UniRef90_L0HJG6
UniRef90_Q49ZT9
UniRef90_UPI00016A511F
UniRef90_U6B9Z7
UniRef90_B3E3L1

1 10 20 30 40

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

UniRef90_R9LBV8 F R K M S D N L N E T M
UniRef90_N6UEN8 L A R F K Q S L
UniRef90_UPI0003706F77 V Q V F K D N
UniRef90_A8MF80 F N T M V N E L K
UniRef90_UPI00035E1A3D F N E M V A N L K
UniRef90_F4A7W0 F N S M A K S L E E
UniRef90_K0J677 F N R M R L N L
UniRef90_W9GRS4 L D A L K Q
UniRef90_I3IH63 F N Q M A V K L K E S
UniRef90_Q5HP59 F N N M N V E I Q E H I
UniRef90_L0NBU2 V E I F K Q N
UniRef90_UPI00047B047C F N Q M R T N I R Q
UniRef90_W4DCP4 F M I M S R E L E R
UniRef90_B2J5Q4 F N R M A Q Q L R
UniRef90_D3NV58 F N R M A E T V Q
UniRef90_Q13F34 V E V F K R N
UniRef90_S2LH54 M E V F R D T L Q H A
UniRef90_C3BGJ7 F N E M A D N L
UniRef90_UPI0003652043 F N K M S K D I R T N I
UniRef90_F0L717 L L V L R D S V
UniRef90_UPI000414D2B5 F Q N M G D N L R E V I
UniRef90_UPI00041E9215 V E A F K
UniRef90_A0A017HGG9 F N Q M T R Q L K A Q
UniRef90_A0P3M6 M E I F V R N
UniRef90_UPI000363B2B7 I N D M A R D L E R
UniRef90_U2K5Y9 I N Q M A D E L
UniRef90_X1SSW8 F N K M A A S L E
UniRef90_UPI0003692519 L N Q M T E N L Q N H I
UniRef90_L0GSC8 F N A M A T S L R Q A
UniRef90_UPI0004263D47 F N R M G R Q L K
UniRef90_R0E5Q8 F D S A R D A I
UniRef90_D9R7V5 F E R M T V N L K E V I
UniRef90_Q31J88 F N D M I Q Q I A K A
UniRef90_W9UZ97 F A V F R E N
UniRef90_K4KVS4 F S T M T L T L
UniRef90_UPI000466044E L D T F K R N A Q E
UniRef90_B1R1J8 F E Y M S K N L Q
UniRef90_F0Q5Y8 L K V F K D S M Q R
UniRef90_M3FAQ9 F D H M R G N I N A M I
UniRef90_R7KTU8 L N K M V D E L S Q S
UniRef90_Q0APQ2 F N R M T R Q L R T Q
UniRef90_UPI000349A458 F N T M Q R G I A R
UniRef90_B1LT32 V D V F R Q N
UniRef90_UPI0003797E11 F N Q M A S E L E
UniRef90_E0S285 F N K M V I S I K
UniRef90_UPI00034A5FE7 F N Y M A Q K L Q M S
UniRef90_S5JVX6 F N E M A S N L K A S
UniRef90_UPI0003689EC2 M E T F V
UniRef90_UPI00031B482F F N R M A A D L Q A
UniRef90_J3CXL4 V E V F R Q S A Q T
UniRef90_Q2W5G7 V A V F K E N
UniRef90_S0FI93 F N R M L K K T S A L M
UniRef90_UPI000370CDD8 F N Q M A K G L E E
UniRef90_UPI0004027690 M E K M V H H L K H H I
UniRef90_H4FDF1 L A V F R Q A
UniRef90_UPI000255ECC4 F N T M A D S I Q H Q I
UniRef90_W9BBB0 F N N M R S N I
UniRef90_C0D041 F N R M T E E Y R Q N L
UniRef90_UPI00046EA44C F N G M V A S L R R M M
UniRef90_A0A021X4L5 V E V F R Q A
UniRef90_D5RQ42 F N R M T N Q L A A Q
UniRef90_G5JGC1 F N Q M S T E I E E H I
UniRef90_UPI0002D39D2C I N F M A S S L E Q Q M
UniRef90_A7X5Y6 F N K M R E S L
UniRef90_Q08RE9 F N Q M A S E L K K T L
UniRef90_A4YSF9 L A V F K D N M
UniRef90_UPI0002557E83 L Q R F R D G L R A A
UniRef90_K2C9S0 F N Q M A Q Q L
UniRef90_UPI0004716C3B F N H M A E E I Q S Q M
UniRef90_C7MDU9 F S T M A S E L E Q
UniRef90_B9MLQ3 F S N M I S N L K
UniRef90_E7T1Y6 F N V F A R N
UniRef90_C5EL65 F Q Q T V N H L Q K Y I
UniRef90_D1PP66 I N Q M A E D L
UniRef90_I3X5Z4 V E V F K Q N
UniRef90_W7ZV10 F E E M M R D L Q Q
UniRef90_UPI0002D3713D F N H M A E E I Q R Q I
UniRef90_I4CEI2 F N Q M V T R L K
UniRef90_W3AQNO F N K M T S Q L K Q T M
UniRef90_I7K579 L N Y M A N E L K R M
UniRef90_B8ESS8 V L V F K K A
UniRef90_J1SN48 V E V F R Q A
UniRef90_Q166M2 L D S F R V S L A D A
UniRef90_W9VB16 A D V F R Q A V
UniRef90_C6B534 V T V F R D
UniRef90_Q2VZU5
UniRef90_UPI00035E5CA0 I R H M A G E L K
UniRef90_L0HJG6 F N R M T A D L V Q
UniRef90_Q49ZT9 F D K M R L S L K Q
UniRef90_UPI00016A511F F E V F R T N L
UniRef90_U6B9Z7 F N V M V D S L R
UniRef90_B3E3L1 F N S M A A T V R E H

UniRef90_UPI00047E5404 1 L T R P I N E L T D S T K R R I K E G N F S E R V D I L S T N D E I I G G L S E N 40
UniRef90_U1IQH8 P I S R M S A A M R R R L A T D N G D F D V V L P P G L E T R S R D D E I I G G M A R A N A
UniRef90_A0A022GXN2 P I A A L V E Q A T H K R V A T D N G D F F H V D I L P G G A T A G R R R D D E I I L L G G L A R A Q S
UniRef90_S9PS80 I T Q P L H A F I Q R A T D K R V A T D N G D F F V A L P P G D T A G R R R D D E I I L L G G Q L A A Q S
UniRef90_U2BLD3 P V L Q Q I A E T S R E M T A T S G D D F N G R L L P E P K A G R R D D E I I V A A A M A H S
UniRef90_L5MPJ6 R P L F Q V S K A A Q Q Q V A M A G N L L Q V R V L P V P P D S R Q D D E I I A A S L S V T V A
UniRef90_R5J5N1 R P L F K L S K E A Q M Q V V A M A G N L L N A E I A T T D S R S K G D D E I I A A S L S R T R S T
UniRef90_F8F0H1 T R P L I K A A D Y A S E V L A Q G G H L F I T V D E A T S R S K G D D E I I S G S D L A R S R T
UniRef90_UPI0002FB9E33 S V T G P V S A L R G R M Q S M A E E G G D T A S A I V P A A T A N K D S D E I I L L G G E M A R T A
UniRef90_UPI0002N6YMZ3 S I F R P P I K H M A G V M R R R I E Q G G D T A S A I V P A A T A N K D S D E I I L L G G Q L A R A
UniRef90_W8A7U7 M T L P L R E M T A A A K R M A Q G G D Y T S R R V L R A E T A G R R D D E I I V G G Q L A E A A
UniRef90_UPI000471AA5E I T R P L T Q L A A Y S N K I A G G D F T S Q Q L E I K G S D D E I I V G G Q L A E A A
UniRef90_T2IEE5 T T P L K K M A Q L A Q R I L S T G G D L S K E F A H P Y N D E M G M L L A A E S
UniRef90_A0RCN8 T M M K R L S E I I N K S V K E I V S S G N L E I H I P I S K N D E I I G G E L L A K N
UniRef90_E6W2D5 I T V P I Q S E L A E A T R Q V I A E G D N M N V Q I N V N V R A N D E I I G S V L V D S
UniRef90_Q2FN81 R D I R S E L N D S A E K I A S T G D M N V L V T N V E R A N D E I I I S G E L A G S
UniRef90_UPI00037B655B R A L D R L R A S M R S L S A S D D T A I T V P G L N R R R D D E I I G G E M A Q A R A
UniRef90_UPI0003646B35 L K A V T R L M T R L I A S G V T E Q A T P A V H H R R D D E I I L L G G R L L A R A
UniRef90_R9JU11 K P L E L L G S A A M D K I A D N D L D F E I H Y D R R Q D D E I I L L G G R L L A R A
UniRef90_D9R0A2 I V T P L T N L A Q T A K L V G A Q G N F H V K V P A V D T G D D E I I L L G G L V T G T
UniRef90_D8K3S2 R P L R A L N A G A R E L V A A G N L L S H R V P A K V S A N D D E I I T G R R L L A R E S
UniRef90_UPI00046D01E4 V N R P V R E L A E T M K E V L E R G N L L E V R T R V R G R N D D E I I G G R L L A R S
UniRef90_K1LPV9 T R K I R R L Q E A T Q Q I G A Q G N F D V V L D T S S H D D E I I Y G D L L A R D
UniRef90_F6DU12 P I K E I E Q G A K N I A K G N L L A V E D I K K S T K D D E I I T G G S E L A S E S
UniRef90_R5IG59 Q P I G R L H H A I R Q V I A G K N N L L D V N I P E P T R T R S K G D E I I G G L E A S Q Q
UniRef90_T0IDV8 I S K P I V T I S N V A Q R I A A N G D L L S V N I P E P T R T R S K G D E I I G G L E A S Q Q
UniRef90_UPI000375B54D V R P L K P L T A T M L D L I A K G D L L S V Q I P D V T R R N D D E I I G G G A L A G A
UniRef90_W7BTF7 R P L G L L I L A S E R V S K G N L L D S N V P E G D R R D D E I I V S S L S R A
UniRef90_G2H1W7 I G T P I L T L T K A T R K M I A G D F S Q R V E E L N T S K D D E I I I Q Q L G D A
UniRef90_Q1PWN3 T K P I K Q L N Q T A Q I A K G N F S E R V E Q L N S K D D E I I G G V L A R N
UniRef90_W4ARZ0 V L R P V Q N L T A V A E E L S M G K W N H T I A E V N L K D D E I I G G T L A R A
UniRef90_UPI00037AC235 V L R P V Q N L T A V A E E L S M G K W N H T I A E V N L K D D E I I G G T L A R A
UniRef90_B9JSK5 Q M T T T A A S K L S A R G N F S A A I P D V Q R D D E I I L L G G M G A
UniRef90_C6CXU7 I T R P L H A L T T A A R Q I L A S R G N F D I K F I P V V K R T R D D E I I K F L T D T
UniRef90_R8B539 V S R P L L H M E T T A Q A L A R G N N S L R V G D T K R R D D E I I V G G Q L A T A
UniRef90_V4PG07 I T R P M Q A L T R V M Q A M D K G D L A Q Q V E G M T R K N D D E I I L A G T M A N T
UniRef90_U2BI80 T R P L E R L T K N S M K E V L E R G N F E G T Q V I E T E G N D E I I G A G L G K S
UniRef90_M4ZAZ4 R G I T S M T A A M G R L A A N D L S V T I P Y S D R L D D E I I V G D M A K A S
UniRef90_I4DAI6 L V R P L V K M E E N A K L I A S G E F R R E I P V E S E D D E I I V G G R L A S S
UniRef90_UPI000376CDA0 R P I R K L S E L S M R V I A E G D L T V T L P V H N Q D D E I I V S E Q D E V V I L S T N
UniRef90_L0K9G4 I T N P I I K A K N F A E E I A A G N L N I K G L E V K S N D D E I I G G L V K I
UniRef90_UPI0003666DEF R P I A S L T R A M R K L I A S G D T R S A I P A L S R A D D E I I V G G A M A R T T
UniRef90_B0T3D8 I S A P I A G L S K T M E V L A S G S V D V E V V G A L L R K D D E I I V G G A M A R S
UniRef90_E0U8M0 V R P I K Q L R A G A C R I G S G E T D V K L N I Q S K D D E I I F G G E L A V A
UniRef90_B8H4V9 I I Q P L A G M T A Y M G R L A A E G D Y T S Q E P P M R E R K K D D E I I V I G E M A A A
UniRef90_W8IGF3 R P I Q I I T R S M A G L A A N G D T A T A I P Y G V R K D D E I I P Y G V R K D D E I I E K L A V S
UniRef90_UPI00047CEB04 T R P I R Q L E G G V R E I A A G N F D K K L H I S T G D D E I I E K L A V S
UniRef90_UPI000468DB9B K P L R S L K Q S A N A L A L G Q L L N S R V D D A G R S H D D E I I G G L A Q A
UniRef90_B1YJG6 I S R P L I E M E R A T A K L K E G N L L D V D L P P V N R S D D E I I L G G A L A R S
UniRef90_UPI0003B55BC2 I S R P M V K I N G A M A A L A A D G N L D I N V P P G S R R N D D E I I G G Q M A S S
UniRef90_S2KKW7 I L S P L N R L K L S A Q A I A A G N Y E S S L T A R N D D E I I L G G L S Q A
UniRef90_G8AT44 V S R P L N A L V I E A A Q R I A A G D Y R T P V V R V R S H D D E I I F G L L A R A
UniRef90_UPI00030243D9 K P I G R I T A A M K A V A A G D R D V V I P Y A G D R N D D E I I V G D M A R T
UniRef90_UPI0004250A2F M T R P L R K L R L L M N E V E K G R M D V T F P S K Y G N D D E I I V G H L G R S
UniRef90_X4ZBJ9 K P L N N L V C I S K D I A A G G D L T N T I D I N R N D D E I I G V L A N S
UniRef90_U6F0R5 K P L N N L V C I S K D I A A G G D L T N T I D I N R N D D E I I G V L A N S
UniRef90_W9GX08 A M R R L A A D G D T D V A V P A V G R K D D E I I G G Q M A G A
UniRef90_D5NXW0 R P L R V V E R T A S E I A A G D L D K R V P E W P G H T E V I G G Q L A S A
UniRef90_W9DR67 T M T K P I E D M L D V T E K I A S G D L T V D I E T D S T D E I I G G L L A E S
UniRef90_W9HCT3 I S R P I V E I D R V A G E V A A K G N F Q A R V R G V R S H D D E I I L G G L A R S
UniRef90_W7Z733 M T R P L V E I L T Q R V E Q V A A G N D L T Q E P L M F T G R D D E I I V G G R L A V S
UniRef90_UPI0003780729 T K P L H T L G K A A R Q I E A G N L A V R S N I R G S D D E I I G G S L L G R S
UniRef90_R7ZAJ6 I T R P L T H L S K R V R E V A K G N L L T V E I E N L Q R S D D E I I G G Q L V E G A
UniRef90_H1XPB0 I T R P L T R L K E A A L R L S E S G Q L L E V Q I I T Y P H H S D E I I G G A L V I E A
UniRef90_E2CMH5 S S P I K S I T S A M K A L A A D G N K A I E I P G R D H G H E I I G E M S S A
UniRef90_Q74H85 L T K P V I R E L A D G V R R I E E G E L L Q Q R V A V I T S S D D E I I L A E A
UniRef90_UPI0003791935 K P I P L L A A M M E K V A A G N L D I N N T Y I N R S Q D D E I I V G G E M A Q A
UniRef90_UPI000288193E R P I R R L T K A T E Q M A Y G D Y G I R V E T K S K D D E I I G G V L S Q S
UniRef90_U6BG19 R P I R R L T K A T E Q M A Y G D Y G I R V E T K S K D D E I I G G V L S R S
UniRef90_X0X9P5 R P I T K L R D A A E E Y K G R L D T R I E S S S E D D E I I G G Q L A V S
UniRef90_C6IY73 T I S R P I G Q L A S F M Q K A Q S G D L T I R H W S D R T D D E I I G L L G R R
UniRef90_UPI0003795E6E I S K P L N Q V V D L V E K V A A D G D L T E T T N I H T K D D E I I G G L L A Q S
UniRef90_A3UJH6 R K I T Q A M T D L A G G D K S V D V A G A D R R D D E I I G G D M A R A
UniRef90_U2EDV2 I T K P I T V L T K A V K Q V G A G G N Y N V L L N V K G K D D E I I G L L S K E
UniRef90_C6IWX8 K P I K T R L T H V T E R L A A T G D L T Q E I E I R S R D D E I I G G R L L A E A
UniRef90_F6BZM0 K P I R E L T A G V R R F A A G D Y R A S V P E I R T H D D E I I G G Q L L C S A
UniRef90_UPI000415B6FF R P I Q H I T T E M E I L A A R G D T S V V S G T E R K D D E I I G A M A Q A
UniRef90_H5XXX5 I T K P I I A V T N A V K E A A N G D L T V Q T A V T S D D D E I I G G G L A V A
UniRef90_E8WPQ2 P I S R M I E V I R K E A A N G G R L L D E T M P A V D S S Q D D E I I G G E L L A N A
UniRef90_W4V6J8 K E L T D V A E Q I A E D N L S A E I N I I K T Q D D E I I V G N L L S R A
UniRef90_G7ZCH4 V T A P V R Q M T D G M A V L A A G R I D L E I P R V I D R D D E I I G R M A A A
UniRef90_C6C1C8 V I R P L K E L T S S A A K M G R G D L K Q R V E I K D R K D D E I I A E L G K A
UniRef90_UPI0003610007 I T L P I R K L S R L M K K V E K G Q L E V T F P E V N Q W D D E I I G G Q L G S A
UniRef90_W6W099 P V A R L R E R M T S L A A G N T E A P V V E G Q D R R D D E I I G G Q M A A A
UniRef90_B4CY76 S I L E P I Q A L R T V S K E L G E G K L D Q V V P V M S Q D D E I I L G G Q L A D A
UniRef90_I4N9R3 S Q P V Q V L A Q A A Q R I A G D G D Y Q T A I D L K R S D D E I I G V L A K A
UniRef90_A4U446 S I A P M A K M T S I M S S L A S G D S S V S V P E Q T R S D D E I I G V M A R G
UniRef90_I3I599 Q P L G L T A M A K R I A S Q G D F S H Q I V I S N D E I I L G V L A S T
UniRef90_K5XSK5 K P L G H L R A A E S V R Q G D L D V R V P E R A T G D D E I I M E G L S R A
UniRef90_M9MOX4 I T K P I Q T L A A T M K E I A G T G D F T V E V P A L R R Q Q D D E I I G V L G Q S
UniRef90_U7GFF2 K P L K T H M E S T A Q A I A A G D T R L R V P Q A R R R D D E I I G G Q L A T A
UniRef90_K9WUL3 S N P V R R I Q V S A A K I A A G D L Q H R A E I N H R G D E I I G A L A T S

UniRef90_UPI00047E5404 F N E M A H T V E
UniRef90_U1QH8 V E S F K T R A Q
UniRef90_A0A022GXN2 V V R F R D N
UniRef90_S9PS80 F R L M A D E V Q R
UniRef90_U2BLD3 F N Q M A E T I K T Q I
UniRef90_L5MPJ6 F N N L V T S L H E Q
UniRef90_R5J5N1 F N N M V T E I
UniRef90_F8F0H1 M E T M K D N L
UniRef90_UPI0002FB9E33 L D V F R Q A L I R Q
UniRef90_N6YMZ3 F D A L L D K L
UniRef90_W8A7U7 F N Q M
UniRef90_UPI000471AA5E F R T M S Q Q L K E M I
UniRef90_T2IEE5 L N R M K V S L D I A M
UniRef90_A0RCN8 V N R M A K S L K E S I
UniRef90_E6W2D5 F N R M I R D L R R
UniRef90_Q2FN81 F S R M V S S L K I M M
UniRef90_UPI00037B655B V E V F R Q A L V Q A
UniRef90_UPI0003646B35 F N V F R E N S R E
UniRef90_R9JU11 F E K M R R A L R
UniRef90_D9R0A2 F N Q M V D S L
UniRef90_D8K3S2 F N V M A S A L E
UniRef90_UPI00046D01E4 F N S M I A R L D E A
UniRef90_K1LPV9 F D S M T Q S L
UniRef90_F6DU12 F N N M K N N L K
UniRef90_R5IG59 F N T M V V A L R
UniRef90_T0IDV8 I E Q M I V N L R K M I
UniRef90_UPI000375B54D M Q V F L H N A K E A
UniRef90_W7BTF7 F N T M T S S L K T I
UniRef90_G2I1W7 F N R M T S Q L A S Q
UniRef90_Q1PWN3 F N V M S A S V Q
UniRef90_W4ARZ0 F N D M A
UniRef90_UPI00037AC235 I S R L S N S V R L A M
UniRef90_B9JSK5 V A V F R D N
UniRef90_C6CXU7 F F N M C R N I E
UniRef90_R8B539 F N A M T E Q L
UniRef90_V4PG07 L E T F R A G L
UniRef90_U2BI80 F N V M I Y K I Q Q L M
UniRef90_M4ZAZ4 V Q I F K D N
UniRef90_I4DAI6 F N S M S K Q L D Q
UniRef90_UPI000376CDA0 F N A M I H N I R Q L I
UniRef90_L0K9G4 L N Q M R N N L K E M V
UniRef90_UPI0003666DEF V K V F Q D A M
UniRef90_B0T3D8 V Q V F K D N L R T A
UniRef90_E0U8M0 F N Y M S E N L H Q
UniRef90_B8H4V9 V S V F R
UniRef90_W8IGF3 V E V F R E A
UniRef90_UPI00047CEB04 V N S M S E D L K
UniRef90_UPI000468DB9B F N S M A A A I E T M V
UniRef90_B1YJG6 I T Q L A K D L
UniRef90_UPI0003B55BC2 V E I F K E N A K R
UniRef90_S2KKW7 F S H M A G Q V E R H
UniRef90_G8AT44 V Q V F K D N
UniRef90_UPI00030243D9 F N A M Q S G I
UniRef90_UPI0004250A2F L D V F A K G L
UniRef90_X4ZBJ9 F N T M L R Q I N R L I
UniRef90_U6F0R5 F K Y M S E S L K S A I
UniRef90_W9GX08 V E I F K D N M
UniRef90_D5NXW0 L N I M L A K L Q A S I
UniRef90_W9DR67 V K S M Q N N L K
UniRef90_W9HCT3 M D D M V V G L
UniRef90_W7Z733 F D Q M T S N L R
UniRef90_UPI0003780729 F D H M L D R I Q Q M M
UniRef90_R7ZAJ6 F N E M V N Q L K T I
UniRef90_H1XPB0 F Q K M S Q A I R Q
UniRef90_E2CMH5 V E V F R Q S M I R A
UniRef90_Q74H85 F N R M A A A I
UniRef90_UPI0003791935 L D I F R T N
UniRef90_UPI000288193E F N H M A H S L R S L I
UniRef90_U6BG19 F D E M A T A V E A S
UniRef90_X0X9P5 F N A M V G D L
UniRef90_C6IY73 F N A M L Q Q I H R L L
UniRef90_UPI0003795E6E V N R M V V N L R
UniRef90_A3UJH6 L V V F R D Q
UniRef90_U2EDV2 F I N M K D K I S E Q I
UniRef90_C6IWX8 F G K M S G N M K Q L I
UniRef90_F6BZM0 F N G M V E D L H Q
UniRef90_UPI000415B6FF V Q V F K T N
UniRef90_H5XXX5 A N A M T T N L R
UniRef90_E8WPQ2 F N R M T K L I K
UniRef90_W4V6J8 F H K M Q Q N L K
UniRef90_G7ZCH4 L G T L K Q
UniRef90_C6C1C8 F N H M A E G L
UniRef90_UPI0003610007 F N K M V S R L
UniRef90_W6W099 V S V F R D N
UniRef90_B4CY76 F N K M A T K L R A
UniRef90_I4N9R3 F N H M R E G I
UniRef90_A4U446 L E T L R K
UniRef90_I3I599 F N L M S R S I
UniRef90_K5XSK5 F N R M T T Q L A A Q
UniRef90_M9MOX4 L Q A M Q T S I R
UniRef90_U7GFF2 F N A M T D R L C Q L L
UniRef90_K9WUL3 F N E M S S A L Q A S

UniRef90_C7NLF4
UniRef90_D9QUT3
UniRef90_R5XZ39
UniRef90_B3E8J2
UniRef90_A5EQE8
UniRef90_F0L8R6
UniRef90_MOD9N8
UniRef90_UPI0002E2A612
UniRef90_UPI00036CFFB8
UniRef90_S9QH28
UniRef90_E3IBE8
UniRef90_B9K3G1
UniRef90_Q9K669
UniRef90_B1HZL7
UniRef90_UPI0003B613F9
UniRef90_U2ZC55
UniRef90_K0J6P2
UniRef90_W5YGS3
UniRef90_C9PSJ2
UniRef90_B3E6P9
UniRef90_D3NHWG1
UniRef90_UPI0003829DD9
UniRef90_B1Z9U2
UniRef90_Q20Y56
UniRef90_E2CGW7
UniRef90_W1JX4
UniRef90_Q1NPS6
UniRef90_K0IY44
UniRef90_E2CIK0
UniRef90_I0GN37
UniRef90_M1M0Y9
UniRef90_I5AT68
UniRef90_UPI000248DEEC
UniRef90_H8FQ09
UniRef90_F3YVR6
UniRef90_UPI0004752008
UniRef90_X5A5Z1
UniRef90_E0MK09
UniRef90_W9H640
UniRef90_UPI00046AF499
UniRef90_UPI000463E90E
UniRef90_E2XWT8
UniRef90_UPI0004641677
UniRef90_UPI0003FAD471
UniRef90_M1ZL25
UniRef90_D0D1V6
UniRef90_F6AK53
UniRef90_G4KU84
UniRef90_R6V002
UniRef90_UPI00035FFD53
UniRef90_A4EQH1
UniRef90_Q74B97
UniRef90_UPI0003784C63
UniRef90_A5GDW0
UniRef90_UPI000363B6F5
UniRef90_O32239
UniRef90_UPI00025596DB
UniRef90_C0QHC1
UniRef90_Q1GMD3
UniRef90_Q9RYG3
UniRef90_R7ZAD0
UniRef90_UPI0001E2EC0C
UniRef90_K9VS60
UniRef90_UPI0003798F99
UniRef90_R7CPN0
UniRef90_F2F797
UniRef90_E3HRB8
UniRef90_S3VJ36
UniRef90_UPI00026CCFFB
UniRef90_A0NLH1
UniRef90_H0TZH7
UniRef90_S3H7R1
UniRef90_J1T266
UniRef90_F7NFD0
UniRef90_H6SMH8
UniRef90_H6SRC8
UniRef90_D5RJ57
UniRef90_U2CP97
UniRef90_J9Y3G9
UniRef90_I0GR71
UniRef90_K7JYJ4
UniRef90_F5LM84
UniRef90_A8FGS5
UniRef90_C0R0X5
UniRef90_A5ELK1
UniRef90_E4Q2P1
UniRef90_H8H0Q7
UniRef90_Q1GDT1
UniRef90_G8S128
UniRef90_F2IFU6
UniRef90_D9R7R4
UniRef90_UPI0004721CF7

UniRef90_C7NLF4
 UniRef90_D9QUT3
 UniRef90_R5XZ39
 UniRef90_B3E8J2
 UniRef90_A5EQE8
 UniRef90_F0L8R6
 UniRef90_MOD9N8
 UniRef90_UPI0002E2A612
 UniRef90_UPI00036CFFB8
 UniRef90_S9QH28
 UniRef90_E3IBE8
 UniRef90_B9K3G1
 UniRef90_Q9K669
 UniRef90_B1HZL7
 UniRef90_UPI0003B613F9
 UniRef90_U2ZC55
 UniRef90_K0J6P2
 UniRef90_W5YGS3
 UniRef90_C9PSJ2
 UniRef90_B3E6P9
 UniRef90_D3NWXG1
 UniRef90_UPI0003829DD9
 UniRef90_B1Z9U2
 UniRef90_Q20Y56
 UniRef90_E2CGW7
 UniRef90_W1JJX4
 UniRef90_Q1NPS6
 UniRef90_K0IY44
 UniRef90_E2CIK0
 UniRef90_I0GN37
 UniRef90_M1M0Y9
 UniRef90_I5AT68
 UniRef90_UPI000248DEEC
 UniRef90_H8FQ09
 UniRef90_F3YVR6
 UniRef90_UPI0004752008
 UniRef90_X5A5Z1
 UniRef90_E0MK09
 UniRef90_W9H640
 UniRef90_UPI00046AF499
 UniRef90_UPI000463E90E
 UniRef90_E2XWT8
 UniRef90_UPI0004641677
 UniRef90_UPI0003FAD471
 UniRef90_M1ZL25
 UniRef90_D0D1V6
 UniRef90_F6AK53
 UniRef90_G4KU84
 UniRef90_R6V002
 UniRef90_UPI00035FFD53
 UniRef90_A4EQH1
 UniRef90_Q74B97
 UniRef90_UPI0003784C63
 UniRef90_A5GDW0
 UniRef90_UPI000363B6F5
 UniRef90_O32239
 UniRef90_UPI00025596DB
 UniRef90_C0QHC1
 UniRef90_Q1GMD3
 UniRef90_Q9RYG3
 UniRef90_R7ZAD0
 UniRef90_UPI0001E2EC0C
 UniRef90_K9VS60
 UniRef90_UPI0003798F99
 UniRef90_R7CPN0
 UniRef90_F2F797
 UniRef90_E3HRB8
 UniRef90_S3VJ36
 UniRef90_UPI00026CCFB8
 UniRef90_A0NLH1
 UniRef90_H0TZH7
 UniRef90_S3H7R1
 UniRef90_J1T266
 UniRef90_F7NFD0
 UniRef90_H6SMH8
 UniRef90_H6SRC8
 UniRef90_D5RJ57
 UniRef90_U2CP97
 UniRef90_J9Y3G9
 UniRef90_I0GR71
 UniRef90_K7JYJ4
 UniRef90_F5LM84
 UniRef90_A8FGS5
 UniRef90_C0R0X5
 UniRef90_A5ELK1
 UniRef90_E4Q2P1
 UniRef90_H8H0Q7
 UniRef90_Q1GDT1
 UniRef90_G8S128
 UniRef90_F2IFU6
 UniRef90_D9R7R4
 UniRef90_UPI0004721CF7

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

UniRef90_A0R7L5
UniRef90_G7Q8M0
UniRef90_UPI0003495450
UniRef90_UPI000047EC114
UniRef90_K8DX55
UniRef90_A0A022PCE5
UniRef90_Q65FN4
UniRef90_S0FHV3
UniRef90_A4J8F8
UniRef90_A0A015P648
UniRef90_B8HQZ5
UniRef90_K9PNT7
UniRef90_A9B110
UniRef90_J2GR98
UniRef90_B8I0V8
UniRef90_K0AFF7
UniRef90_L5MQP4
UniRef90_G1XZA0
UniRef90_K9PKX8
UniRef90_UPI000409D00D
UniRef90_W0H9S5
UniRef90_UPI0004067D80
UniRef90_B5EVL9
UniRef90_I7J515
UniRef90_M5TBM4
UniRef90_Q3A4T8
UniRef90_UPI00047E4ED3
UniRef90_UPI000424AB8A
UniRef90_R9KB05
UniRef90_D3P518
UniRef90_F9VM52
UniRef90_UPI00037DE7F8
UniRef90_F2IUW3
UniRef90_R5L8Y2
UniRef90_UPI000315619E
UniRef90_G2FTF5
UniRef90_F3ZWS4
UniRef90_U1AIR7
UniRef90_K9T304
UniRef90_UPI0004796A27
UniRef90_C3DFA0
UniRef90_C5BHN2
UniRef90_A8IPN8
UniRef90_UPI00031C7D53
UniRef90_UPI0003B685F7
UniRef90_B2TM48
UniRef90_R7BN12
UniRef90_H8L6A9
UniRef90_C8WYS8
UniRef90_A0A023VD01
UniRef90_A9CXN1
UniRef90_L7UHE4
UniRef90_H5URJ9
UniRef90_B5EFL7
UniRef90_Q67MM0
UniRef90_A0A037XQV1
UniRef90_I3IL69
UniRef90_C5EKG5
UniRef90_UPI0002E5668D
UniRef90_A6F2K0
UniRef90_U4Q3U5
UniRef90_I3IGN2
UniRef90_F3LCW0
UniRef90_UPI00046AF370
UniRef90_UPI00036537E6
UniRef90_UPI0003B78CCE
UniRef90_UPI000315D43C
UniRef90_E3IGU3
UniRef90_A0A011NRB5
UniRef90_UPI000361714B
UniRef90_A4F6E1
UniRef90_UPI0003B467A2
UniRef90_L8JRU6
UniRef90_A0A017T3X6
UniRef90_B3Q2F8
UniRef90_UPI000381BD57
UniRef90_Q39ZR5
UniRef90_M4XFX2
UniRef90_B9LZ13
UniRef90_R5HQW6
UniRef90_I4DB95
UniRef90_G7Z711
UniRef90_A9B046
UniRef90_H6SK08
UniRef90_M5DI98
UniRef90_UPI00046F7AC0
UniRef90_F5TOB1
UniRef90_K2EYA5
UniRef90_A4C8E3
UniRef90_UPI000363F7E1
UniRef90_B0TC96
UniRef90_C9NRL6

UniRef90_A0R7L5 F N E M L E Q I N Q
 UniRef90_G7Q8M0 F A R M T G Q L R Q A L
 UniRef90_UPI0003495450 F N R M S Y Q L K E S
 UniRef90_UPI00047EC114 V G V I Q D N
 UniRef90_K8DX55 F N T M T Q H L
 UniRef90_A0A022PCE5 F N Q L A S T L E
 UniRef90_Q65FN4 F N E M A E S L R S L I
 UniRef90_S0FHV3 F N E M I K G L K Q T I
 UniRef90_A4J8F8 F N K M V E N L
 UniRef90_A0A015P648 F E G M R S Q L
 UniRef90_B8HQZ5 F N R M A N Q L R
 UniRef90_K9PNT7 F N Q M A A Q L K T S
 UniRef90_A9B110 F N S M S D Q L Q E T L
 UniRef90_J2GR98 V L S F K D A
 UniRef90_B8I0W8 F S T M I Q N F K T
 UniRef90_K0AFF7 F D E M A Q A V
 UniRef90_L5MQP4 F N Y M A A E I
 UniRef90_G1XZA0 V D V F R T S M R Q
 UniRef90_K9PXK8 F N R M A D Q L Q E T L
 UniRef90_UPI000409D00D F A R M S E A V A R H
 UniRef90_W0H9S5 I N A M Q Q G I
 UniRef90_UPI0004067D80 F D R M R I N I
 UniRef90_B5EVL9 F N T F V E S L Q Q L I
 UniRef90_I7J515 F N I M A A R L Q E T I
 UniRef90_M5TBM4 A E V F S R K N Q Q
 UniRef90_Q3A4T8 M D A F A D N L K
 UniRef90_UPI00047E4ED3 F N A M T D N L R E M I
 UniRef90_UPI000424AB8A F N S M I G T I K
 UniRef90_R9KB05 F N H M V V R L R E L M
 UniRef90_D3P518 T E I F K L N M
 UniRef90_F9VM52 F N Y M A E S L
 UniRef90_UPI00037DE7F8 F N R F I D S L R E M
 UniRef90_F2IUW3 V L K I R E N
 UniRef90_R5L8Y2 F G K T T D R L R
 UniRef90_UPI000315619E F N R M A D S I Q T Q I
 UniRef90_G2FTF5 F K D M K D K I E
 UniRef90_F3ZWS4 F N I L I D K I N A L M
 UniRef90_U1AIR7 F N Q F M E Q L R A M
 UniRef90_K9T304 F N Q M A K Q L R
 UniRef90_UPI0004796A27 Y N K M R K K I K K Q I
 UniRef90_C3DFA0 I Q T L A N D L
 UniRef90_C5BHN2 F N Q L A T T L E R
 UniRef90_A8IPN8 T K Q L L E E L R Q A
 UniRef90_UPI00031C7D53 F N E M A G K L Q Q H
 UniRef90_UPI0003B685F7 V D V F R T N
 UniRef90_B2TM48 F N D M I K T L Q T Y I
 UniRef90_R7BN12 F E V M R K R L K E S
 UniRef90_H8L6A9 L Q V F K E
 UniRef90_C8WYS8 F N K M A
 UniRef90_A0A023VD01 I R I F R E N
 UniRef90_A9CXN1 F N G M A N S V E
 UniRef90_L7UHE4 F N H M T S E M R A
 UniRef90_H5URJ9 I N V M L G Q T E A S
 UniRef90_B5EFL7 F N R M T E D L R A
 UniRef90_Q67MM0 F N Q M T E R L R V Q
 UniRef90_A0A037XQV1 V Q A F R E S
 UniRef90_I3IL69 F N
 UniRef90_C5EKG5 F N H M V Y K V D D L M
 UniRef90_UPI0002E5668D F N K M E D L K Q Y I
 UniRef90_A6F2K0 F N A M T Q Q L
 UniRef90_U4Q3U5 V S I F R D N
 UniRef90_I3IGN2 F N V M A E S V Q E
 UniRef90_F3LCW0 F N K M M A S L N K A
 UniRef90_UPI00046AF370 L D R L R R S L L E A
 UniRef90_UPI00036537E6 F A R M T A A L Q
 UniRef90_UPI0003B78CCE M Q V F Q K N M
 UniRef90_UPI000315D43C F D T M R L E L K Q
 UniRef90_E3IGU3 F E E M R K N L S R
 UniRef90_A0A011NRB5 M Q A M V G K L
 UniRef90_UPI000361714B F N T M A A R L
 UniRef90_A4F6E1 F N T M A Q R L
 UniRef90_UPI0003B467A2 T E V F K Q N M
 UniRef90_L8JRU6 F N N M L D R L E
 UniRef90_A0A017T3X6 F N A M V S E L E Q
 UniRef90_B3Q2F8 L E F F R
 UniRef90_UPI000381BD57 V A M F R D H A R Q
 UniRef90_Q39ZR5 F N R M A R S L E E
 UniRef90_M4XFX2 F E H M A D R L R A S L
 UniRef90_B9LZ13 F I N M A A R L K
 UniRef90_R5HQW6 F N Q M L D S I R I H I
 UniRef90_I4DB95 F H V M T N N L R
 UniRef90_G7Z711 V L V F R D
 UniRef90_A9B046 F D S M A Q Q L E
 UniRef90_H6SK08 V A T F R D N L E
 UniRef90_M5DI98 F D K M A E R L E
 UniRef90_UPI00046F7AC0 F N Y M V A R L R E L M
 UniRef90_F5T0B1 A N L F K Q S
 UniRef90_K2EYA5 F N N M A A A L Q
 UniRef90_A4C8E3 M N T F I D K L R T L M
 UniRef90_UPI000363F7E1 F N L M T R Q V K E L L
 UniRef90_B0TC96 I H Q M V N N L R
 UniRef90_C9NRL6 F N T F V G S M R Q L I

UniRef90_L7LPE2
UniRef90_UPI000365A7F6
UniRef90_C8W3Q0
UniRef90_U5NEF7
UniRef90_U1YDK8
UniRef90_M6C392
UniRef90_B9QX14
UniRef90_UPI0004721721
UniRef90_F3YV26
UniRef90_G5GPI2
UniRef90_U1YX22
UniRef90_W4QA31
UniRef90_UPI000361D441
UniRef90_A8IEE6
UniRef90_UPI00046EAC47
UniRef90_UPI000364E400
UniRef90_A4TZN5
UniRef90_S4Z5T7
UniRef90_B1ZDQ5
UniRef90_B8KM09
UniRef90_D5AV65
UniRef90_UPI00036AF92A
UniRef90_Q5FTP9
UniRef90_UPI0003B2EDB3
UniRef90_M1RHU9
UniRef90_S6GK09
UniRef90_F2BBA8
UniRef90_D8PHW9
UniRef90_B9M7S8
UniRef90_UPI00037E61A6
UniRef90_C5EWK9
UniRef90_D5EUN8
UniRef90_U5S068
UniRef90_N9WM69
UniRef90_UPI000469B648
UniRef90_C0R0X4
UniRef90_Q1MZ18
UniRef90_B2A1U0
UniRef90_L0NEZ8
UniRef90_UPI00047C87D3
UniRef90_K9UUM7
UniRef90_G7M4Q3
UniRef90_K6EPM4
UniRef90_UPI00025579C8
UniRef90_A6WE45
UniRef90_UPI000225C008
UniRef90_UPI0003B3E283
UniRef90_UPI0003F81136
UniRef90_A0A037Z3J5
UniRef90_E0DDR4
UniRef90_M1Z306
UniRef90_N4WUF9
UniRef90_H8FRK1
UniRef90_R5RN72
UniRef90_S0G5U8
UniRef90_I0I584
UniRef90_D2RAW3
UniRef90_X0UU84
UniRef90_A5EFT3
UniRef90_W6JVN3
UniRef90_UPI0003660A79
UniRef90_R6WVM66
UniRef90_HOPVA2
UniRef90_UPI0003B3019A
UniRef90_A5URG5
UniRef90_L5NCX7
UniRef90_UPI00036841CE
UniRef90_Q65NG8
UniRef90_Q2NCS3
UniRef90_D5WQL1
UniRef90_F3WYH1
UniRef90_B3RWB9
UniRef90_K4Z9W2
UniRef90_UPI0003651C67
UniRef90_A9WH13
UniRef90_A0A033V8L9
UniRef90_G2HDM0
UniRef90_C7RM71
UniRef90_A6H081
UniRef90_J0CWF5
UniRef90_K1WZ07
UniRef90_UPI0002DDA035
UniRef90_I1YJJ1
UniRef90_F0SQ61
UniRef90_A0A024E5A1
UniRef90_U2DEP9
UniRef90_UPI00036C197D
UniRef90_Q6LXP6
UniRef90_B0R6B1
UniRef90_U9W4K0
UniRef90_UPI0003B438C6
UniRef90_X1PHT1

UniRef90_L7LPE2 V N A M L T Q I Q A A
UniRef90_UPI000365A7F6 F N R M K T S L V E A L
UniRef90_C8W3Q0 L N S L S Q E I Q E
UniRef90_U5NEF7 F A D M R A A I A A
UniRef90_U1YDK8 I N E M I S G L K
UniRef90_M6C392 F N R M V R S L Q A A
UniRef90_B9QX14 M E V F V K N
UniRef90_UPI0004721721 F N I M S D N L S H L L
UniRef90_F3YV26 F N E M T S R L Q
UniRef90_G5GPI2 F L A M V K G L R
UniRef90_U1YX22 F N E M A Q S L Q E Q I
UniRef90_W4QA31 Y S Y M I N R I K Q L I
UniRef90_UPI000361D441 F E R M V A Q L R
UniRef90_A8IEE6 L D V L R G H L A D A
UniRef90_UPI00046EAC47 M N I F K Q N
UniRef90_UPI000364E400 F N Q M R G N I R
UniRef90_A4TZN5 F N T M A D R L Q
UniRef90_S4Z5T7 L N G M L A Q I Q Q A L
UniRef90_B1ZDQ5 I A R F Q A A L
UniRef90_B8KM09 F D S M R Q D L
UniRef90_D5AV65 I E V F R I S L
UniRef90_UPI00036AF92A V D E M R Q N L R H L I
UniRef90_Q5FTP9 F N S M T D Q L E S Q
UniRef90_UPI0003B2EDB3 F N K M T T Q L K D T M
UniRef90_M1RHU9 F Q Y M
UniRef90_S6GK09 F N S M N D Q L V K A
UniRef90_F2BBA8 F N H M T E Q L A I A
UniRef90_D8PHW9 L S S M V T S L R E Q
UniRef90_B9M7S8 F N R M V N A L
UniRef90_UPI00037E61A6 V R V F R D N
UniRef90_C5EWK9 F N Y M V D R L E K Q V
UniRef90_D5EUN8 F A T M L E S L
UniRef90_U5S068 L N F M A D E I
UniRef90_N9WM69 F N K M A S K L E E
UniRef90_UPI000469B648 F N L M T Q Q L E E A
UniRef90_COR0X4 F V A M R K K L
UniRef90_Q1MZ18 F N K M T E R L
UniRef90_B2A1U0 F D S M Q K N L K
UniRef90_L0NEZ8 L V V L R D A V E E R L
UniRef90_UPI00047C87D3 L N K A T D G T R E
UniRef90_K9UUM7 F K R M Q Y S L E M A M
UniRef90_G7M4Q3 I E S M R Q Q L
UniRef90_K6EPM4 F N S M A Q Q L K Q S
UniRef90_UPI00025579C8 L E E L R G K L S Q A M
UniRef90_A6WE45 L N T M L T Q I E A
UniRef90_UPI000225C008 V N T M K D N I Q
UniRef90_UPI0003B3E283 L S V F R D N L
UniRef90_UPI0003F81136 F N T M A E K I Q E
UniRef90_A0A037Z3J5 F N K M A D A V E
UniRef90_E0DDR4 M N V M L E Q L Q A S I
UniRef90_M1Z306 F N D M M D R L E R S
UniRef90_N4WUF9 F Q T M V N N L K R I L
UniRef90_H8FRK1 L D V F K N K M
UniRef90_R5RN72 F N K V V E R M K R
UniRef90_S0G5U8 F N T M V E G L E E
UniRef90_I0I584 F N D M I T R I E
UniRef90_D2RAW3 L N S M L A R I E R
UniRef90_X0UU84 F N Q M T G K L R E S
UniRef90_A5EFT3 V T V I R G N
UniRef90_W6JVN3 F R A M A T D L Q D A
UniRef90_UPI0003660A79 F N R M L R Q I E Q L I
UniRef90_R6WM66 F E E M R I R L K E M I
UniRef90_HOPVA2 F D N M R L A I
UniRef90_UPI0003B3019A F N G M V D S L N D Y M
UniRef90_A5URG5 F N Q M A E T L A Q
UniRef90_L5NCX7 V N D M V D G L R
UniRef90_UPI00036841CE L N E M I D S L Q A A
UniRef90_Q65NG8 F N R L M F R I R E L M
UniRef90_Q2NCS3 I S D M T D A L R Q
UniRef90_D5WQL1 F N E M A L Q L S R
UniRef90_F3WYH1 V E V F R G A A Q A Q V
UniRef90_B3RWB9 F D A M A D R L Q R
UniRef90_K4Z9W2 L N E M S V N L Q Q S M
UniRef90_UPI0003651C67 F N I M I D N I R E
UniRef90_A9WH13 F N R M A E A L Q Q A
UniRef90_A0A033V8L9 F I K M R D E L K Q
UniRef90_G2HDM0 F N F L L E K I E S A M
UniRef90_C7RM71 F R A M Q S K L
UniRef90_A6H081 F N T M A K K L E E
UniRef90_J0CWF5 V E I F R Q A
UniRef90_K1WZ07 F R R M V D Q L K
UniRef90_UPI0002DDA035 F N D M A S K M E
UniRef90_I1YJJ1 F N Q M T Q R L T Q A
UniRef90_F0SQ61 F N T M
UniRef90_A0A024E5A1 F N A M A E T I E
UniRef90_U2DEP9 F T N M I G S M K
UniRef90_UPI00036C197D F Q Q M T V N L R S M I
UniRef90_Q6LXP6 F N K M A T Q I
UniRef90_B0R6B1 F R S M R D S L
UniRef90_U9W4K0 F N R M
UniRef90_UPI0003B438C6 L D V F K
UniRef90_X1PHT1 F N S M A S S L K E

UniRef90_E7RYL2
UniRef90_K2LULO
UniRef90_UPI0003B55468
UniRef90_V9VWLO
UniRef90_M1Z038
UniRef90_G4HH06
UniRef90_I4YKX4
UniRef90_UPI0003753853
UniRef90_K9GLW0
UniRef90_G0AQN8
UniRef90_A0LDL5
UniRef90_B8FG34
UniRef90_W4Q783
UniRef90_I3IJ48
UniRef90_Q049H1
UniRef90_E0I8N7
UniRef90_F7QQ23
UniRef90_K1IHM8
UniRef90_UPI00037FFB6F
UniRef90_D2RN82
UniRef90_B7WRG4
UniRef90_UPI00029AFFA3
UniRef90_C3LD98
UniRef90_L9UN34
UniRef90_S3UG35
UniRef90_UPI0004721DA7
UniRef90_M1WTS3
UniRef90_M1E9I0
UniRef90_K9QFQ7
UniRef90_K9GQJ1
UniRef90_UPI000313F604
UniRef90_A9W9X9
UniRef90_R4VV62
UniRef90_UPI00036E382E
UniRef90_B4UGT8
UniRef90_F8IIG1
UniRef90_E3GF28
UniRef90_W4CUQ3
UniRef90_U5ND59
UniRef90_UPI0004056CD1
UniRef90_UPI0002886255
UniRef90_R6GE26
UniRef90_UPI0002E0FD38
UniRef90_B2JWM3
UniRef90_S3FNS1
UniRef90_Q4A159
UniRef90_K2JCD5
UniRef90_UPI00037515DA
UniRef90_UPI00041A2ECD
UniRef90_I3UAT5
UniRef90_S6HQ81
UniRef90_R7XSF7
UniRef90_D4YSF7
UniRef90_W4D8Q7
UniRef90_R9JCW0
UniRef90_UPI0003726403
UniRef90_UPI00047BC740
UniRef90_F6AFI0
UniRef90_J2KZ18
UniRef90_UPI00037CD63F
UniRef90_W6YS96
UniRef90_W4DX08
UniRef90_UPI000367401A
UniRef90_UPI00034542C5
UniRef90_F5LGL2
UniRef90_UPI00040724ED
UniRef90_UPI0003716F5C
UniRef90_B2A0K8
UniRef90_I4ED64
UniRef90_K9EQW5
UniRef90_E3FC76
UniRef90_S9T3R0
UniRef90_U6BHH5
UniRef90_G7EIT3
UniRef90_UPI000375C3C8
UniRef90_R8QX16
UniRef90_F5LMM8
UniRef90_Q1N8L3
UniRef90_F6B6V5
UniRef90_S9QA06
UniRef90_A0A023CYK1
UniRef90_UPI00046AB449
UniRef90_M4VHS5
UniRef90_G9ZHB8
UniRef90_R5JUT2
UniRef90_Q8TUP6
UniRef90_W4CG16
UniRef90_UPI00037A9E68
UniRef90_X0N2I6
UniRef90_E0SE77
UniRef90_E8WL89
UniRef90_H5TGK3

1 10 20 30 40
R P V Q T L Q G G I Q R M A A R D F S V R V P V N N T D E L G V L A Q G
P I S Q L T I G A E K V S A D G D L T T F R V P L A G N Q K D D E L E G Q L L A T A K A
U N I R E F 9 0 _ U P I 0 0 0 3 B 5 5 4 6 8 L T K N I R R K G V E F S E R R Q M S A E G D D L T T F R V P L A G N Q K D D E L E G Q L L A T A K A
U N I R E F 9 0 _ V 9 V W L O L T R N L I R R V A F A M R R E Q M S A E G D D H F T K K D L P R A R S K D D D E I V I G G Q L L A F A K A
U N I R E F 9 0 _ M 1 Z 0 3 8 T V S E P I K Q V S F N M A M R R E Q M S A E G D D L R Q K K L P I T Q T S K D D E I V I G G Q L L A F A K A
U N I R E F 9 0 _ G 4 H H 0 6 R P I K Q L T S Y M A M R R E Q M S A E G D D L R Q K K L P I T Q T S K D D E I V I G G Q L L A F A K A
U N I R E F 9 0 _ I 4 Y K X 4 V I S F P I T R M A K T A E A V V Q S M G D A T I A E F D E Y P G S D S D D E I V I G G Q L L A F A K A
U N I R E F 9 0 _ U P I 0 0 0 3 7 5 3 8 5 3 S S P L V R L S K A M D A L L A A G D D L K V V V D D G E A R R K D D E I V I G G Q L L A F A K A
U N I R E F 9 0 _ K 9 G L W 0 V T Q P M K K V I G N L R Q L L A G E L L G V R I P V K G R K D D E I V I G G Q L L A F A K A
U N I R E F 9 0 _ G 0 A Q N 8 L T R N L T L T N A S K R I L A G E L L G V R I P V K G R K D D E I V I G G Q L L A F A K A
U N I R E F 9 0 _ A 0 L D L 5 I T R P L N Q I S S V M T E I S K G D L T T V R T E E L G E R Q D D E M G V V A K H
U N I R E F 9 0 _ B 8 F G 3 4 L A A P I E S V T R A V R A I S A E G D D L S H R A S E E T A K D D E T G E L L A R A R A
U N I R E F 9 0 _ W 4 Q 7 8 3 M I R P I E S V T R A V R A I S A E G D D L S H R A S E E T A K D D E T G E L L A R A R A
U N I R E F 9 0 _ I 3 I J 4 8 T S P L N I T Q I A Q N F A D G D D N F A R K V E I V S S D D E M G Q L L A N A
U N I R E F 9 0 _ Q 0 4 9 H 1 R P I N K M S K V A R E V A D G D D N F A R K V E I V S S D D E M G Q L L A N A
U N I R E F 9 0 _ E 0 I 8 N 7 S K P I K D L Q A D M K L V E R G N F D I Q T E I L H G R N M N E I L I G G Q L L A R T
U N I R E F 9 0 _ F 7 Q Q 2 3 K R P I N R L L E A V D K I A A G D D L T H R L D D H A F N R D K E I L I G G Q L L A R T
U N I R E F 9 0 _ K 1 I H M 8 K P I N R L L E A V D K I A A G D D L T H R L D D H A F N R D K E I L I G G Q L L A R T
U N I R E F 9 0 _ U P I 0 0 0 3 7 F F B 6 F I K R P I N R L L E A V D K I A A G D D L T H R L D D H A F N R D K E I L I G G Q L L A R T
U N I R E F 9 0 _ D 2 R N 8 2 K P I V Q A I S E A A R A I G E G D L L S A S I T A V N K S S N D E M G Q L L A R T
U N I R E F 9 0 _ B 7 W R G 4 S I T R P I S L A V I E V T N R V I A S G D D L S S A S I T A V N K S S N D E M G Q L L A R T
U N I R E F 9 0 _ U P I 0 0 0 2 9 A F F A 3 I S N P I I N L T R S A G R I A R G N L L K E Q I T N I N K S S N D E M G Q L L A R T
U N I R E F 9 0 _ C 3 L D 9 8 L V K P I Q Q I D E K L K E L A S G D D L T A R L L H V T S K D D E I V I G G Q L L A R T
U N I R E F 9 0 _ L 9 U N 3 4 L V D P L N S L L S G V E K V N S K G D D L D V V V P V K V R I D N I I G G Q L L A R T
U N I R E F 9 0 _ S 3 U G 3 5 T K P L S E L R R Q A Q E M A K G N F S R K L K A Y S E D E I I G G Q L L A R T
U N I R E F 9 0 _ U P I 0 0 0 4 7 2 1 D A 7 T K P L S E L R R Q A Q E M A K G N F S R K L K A Y S E D E I I G G Q L L A R T
U N I R E F 9 0 _ M 1 W T S 3 R P L A I L T K K V K E I N T G K L L D E R I P L S G V K D E L I S L L A S Q S
U N I R E F 9 0 _ M 1 E 9 I 0 I T Q P I L H L T Q A S S A I A S G N L D Q K V E I S S G V K D E L I S L L A S Q S
U N I R E F 9 0 _ K 9 Q F Q 7 I T Q P I L H L T Q A S S A I A S G N L D Q K V E I S S G V K D E L I S L L A S Q S
U N I R E F 9 0 _ K 9 G Q J 1 L T S P L I R M T G A M G A I S R G D D L V D I P A Q A R G D E L I S L L A S Q S
U N I R E F 9 0 _ U P I 0 0 0 3 1 3 F 6 0 4 I T R P L I R M T G A M G A I S R G D D L V D I P A Q A R G D E L I S L L A S Q S
U N I R E F 9 0 _ A 9 W 9 X 9 I T R P L I R M T G A M G A I S R G D D L V D I P A Q A R G D E L I S L L A S Q S
U N I R E F 9 0 _ R 4 V V 6 2 I T R P L I R M T G A M G A I S R G D D L V D I P A Q A R G D E L I S L L A S Q S
U N I R E F 9 0 _ U P I 0 0 0 3 6 E 3 8 2 E R R V S D L V R A V R R L A A G D D L A V Q V D P G R H A D D E I V I G G Q L L A R A
U N I R E F 9 0 _ B 4 U G T 8 T R R V S D L V R A V R R L A A G D D L A V Q V D P G R H A D D E I V I G G Q L L A R A
U N I R E F 9 0 _ F 8 I I G 1 S R P I M R L R Q V A S D E I A R G N L R V D S V E V H T R D D E I V I G G Q L L A R A
U N I R E F 9 0 _ E 3 G F 2 8 S P I K D L T R V S S E I N K G N Y N V M V H Y S R D D E I V I G G Q L L A R A
U N I R E F 9 0 _ W 4 C U Q 3 M I S P L T K L S K G V N L V A Q G D L T H N P L L F N S K D D E I I G G Q L L A R N
U N I R E F 9 0 _ U 5 N D 5 9 V T T R P I R E V T H T L L Q L L A E G S Q D V Q F S G V D R P D D E I I G G Q L L A R N
U N I R E F 9 0 _ U P I 0 0 0 4 0 5 6 C D 1 I T R P I R E V T H T L L Q L L A E G S Q D V Q F S G V D R P D D E I I G G Q L L A R N
U N I R E F 9 0 _ U P I 0 0 0 2 8 8 6 2 5 5 L S R P L L Q M Q M T D K M A R G D W D T R L P Q V R S K D D E I I G G Q L L A R N
U N I R E F 9 0 _ R 6 G E 2 6 V S M L E R A M R D I A N G N L D Q E I P Q V R S K D D E I I G G Q L L A R N
U N I R E F 9 0 _ U P I 0 0 0 2 E 0 F D 3 8 K P V S N L Q Q A T E K F A A G D D R N V R A Q V F A N D E I I G G Q L L A R Y S
U N I R E F 9 0 _ B 2 J W M 3 I T R P I H R A V D L A E A V A Q G D L T Q R L E T G S R N D E I I G G Q L L A R Y S
U N I R E F 9 0 _ S 3 F N S 1 R P I R E L N K L M S Q A G A G D D L V D S T Y K I V S R D D E I I G G Q L L A R Y S
U N I R E F 9 0 _ Q 4 A 1 5 9 T I T K P L T D M R N Q T V E M S K G N Y T Q R V P K I Y S R N D E I I G G Q L L A R Y S
U N I R E F 9 0 _ K 2 J C D 5 V S R S M R G V S G V M E A M A A G D L S R A V P D R E R K D D E I I G G Q L L A R Y S
U N I R E F 9 0 _ U P I 0 0 0 3 7 5 1 5 D A L I K N I T E K I T E T V Q H T I A D G D D L D A Q I C D D I V T N D E I I G G Q L L A R Y S
U N I R E F 9 0 _ U P I 0 0 0 4 1 A 2 E C D S I N R P I R A L T A G T R A I E Q G S L Q Y R I G S Q A R D D E F A N G R L A D N A
U N I R E F 9 0 _ I 3 U A T 5 L T R Q L E L L K Q A T K S L E K G D L N V V V P V R G R D D E I V I G G Q L L A D N A
U N I R E F 9 0 _ S 6 H Q 8 1 L T R Q L E L L K Q A T K S L E K G D L N V V V P V R G R D D E I V I G G Q L L A D N A
U N I R E F 9 0 _ R 7 X S F 7 V V K P I K E M V I G V A Q K V N D D N S D V R I K D L N R N D D E I L E D L V K S
U N I R E F 9 0 _ D 4 Y S F 7 M V S P L T K L S A S V N T V A Q G D L L T R E P L L F T A K D E I I G G Q L L A R D S
U N I R E F 9 0 _ W 4 D 8 Q 7 M V S P L T K L S A S V N T V A Q G D L L T R E P L L F T A K D E I I G G Q L L A R D S
U N I R E F 9 0 _ R 9 J C W 0 P L K A L T E S G I E V I A Q G D L L D F S V Q Y D A E D E I I G G Q L L A R D S
U N I R E F 9 0 _ U P I 0 0 0 3 7 2 6 4 0 3 L I R P L R K L T G F S D R L A R G N L Q T D I P G T G R R D D E I I G G Q L L A R D S
U N I R E F 9 0 _ U P I 0 0 0 4 7 B C 7 4 0 R P L K Q V T A V A Q R L A A G D D L E R T I P V V R G R D D E I I G G Q L L A R D S
U N I R E F 9 0 _ F 6 A F I 0 R P L I D I R E G A Q R F G R G E F T Q P I P E V R R S N D D L I G G Q L L A R D S
U N I R E F 9 0 _ J 2 K Z 1 8 I T Q P M H Q V I E A A N D I R R G E Y F T Q P I P E V R R S N D D L I G G Q L L A R D S
U N I R E F 9 0 _ U P I 0 0 0 3 7 C D 6 3 F L A E P L K K S I E A T K K V T R G D L H V D I V V D S N D D E I I G G Q L L A R D S
U N I R E F 9 0 _ W 6 Y S 9 6 R R I Y R L N R T M K R V T R G D L H V D I V V D S N D D E I I G G Q L L A R D S
U N I R E F 9 0 _ W 4 D X 0 8 T A R L R N M S E A A R L A K G R F D V R L K E R P R D D E I I G G Q L L A R D S
U N I R E F 9 0 _ U P I 0 0 0 3 6 7 4 0 1 A R P V R A L T D A V R R M R E G R G R S R V E V R D S G D E I I G G Q L L A R D S
U N I R E F 9 0 _ U P I 0 0 0 3 4 5 4 2 C 5 S R A V L S I R Q A T R R I A D G R Y D A R C D L A R T D E I I G G Q L L A R D S
U N I R E F 9 0 _ F 5 L G L 2 R P V D R L T G A V E H I A R E D D L V R I P E D G T D D E I I G G Q L L A R D S
U N I R E F 9 0 _ U P I 0 0 0 4 0 7 2 4 E D I S G P I V R I I R S M A E I A G G R T D I A I L E R M D R D D E I I G G Q L L A R D S
U N I R E F 9 0 _ U P I 0 0 0 3 7 1 6 F 5 C P L E V L S K W T G Q V S K G D F S E D K P I N S K D D E I I G G Q L L A R D S
U N I R E F 9 0 _ B 2 A 0 K 8 I Q A L T A H A R Q L A D G D L L E R T I P V V R G R D D E I I G G Q L L A R D S
U N I R E F 9 0 _ I 4 E D 6 4 I T A P I Q R L N L A S Q A I A T G D L D Q S L Q E V V R G R D D E I I G G Q L L A R D S
U N I R E F 9 0 _ K 9 E Q W 5 V T E P L R Q L T A A A A R V A E G D F R G S T L Q E V S R Q D E I I G G Q L L A R D S
U N I R E F 9 0 _ E 3 F C 7 6 L K R L T E S G I L S I A E G D L Q S R V T L D R Q D D E I I G G Q L L A R D S
U N I R E F 9 0 _ S 9 T 3 R 0 R P I R A L L H S A G A I A E H D L S Q P V V A T S R D D E I I G G Q L L A R D S
U N I R E F 9 0 _ U 6 B H H 5 R P I H R M V Q S L D D L A E G D L T K R L E I D T N D D E I I G G Q L L A R D S
U N I R E F 9 0 _ G 7 E I T 3 I S R S I R V L A D A T E T M A N F D F S E R V P I V M S K D D E I I G G Q L L A R D S
U N I R E F 9 0 _ U P I 0 0 0 3 7 5 C 3 C 8 I A R P L Q I N K T T K I A N F D F S E R V P I V M S K D D E I I G G Q L L A R D S
U N I R E F 9 0 _ R 8 Q X 1 6 I L K P I G E L S R L S L E V A E G N L A V S I P V V R S E D E F G T L A R N
U N I R E F 9 0 _ F 5 L M M 8 I L R P V T R L S D V V T R I A A Q D Y D A L P P E M A H V D E I I G G Q L L A R N
U N I R E F 9 0 _ Q 1 N 8 L 3 R P L T I M E Q H V K R I A N R N W H E P L D I K R N D E I I G G Q L L A R N
U N I R E F 9 0 _ F 6 B 6 V 5 S I T R P L K E L M V A A R Q V E K G D L S L Q L L A T A G E D E I I G G Q L L A R N
U N I R E F 9 0 _ S 9 Q A 0 6 I T Q P I D E M V K Q T S R I A R G N D Y S G Q E I H V Y S G N D E I I G G Q L L A R N
U N I R E F 9 0 _ A 0 A 0 2 3 C Y K 1 R P L D E M V K Q T S R I A R G N D Y S G Q E I H V Y S G N D E I I G G Q L L A R N
U N I R E F 9 0 _ U P I 0 0 0 4 6 A B 4 4 9 I A K P L N A S V D V L K K L A D N D L D V D V Q G A D R K D D E I I G G Q L L A R A
U N I R E F 9 0 _ M 4 V H S 5 P L R A L S R A A E N I A G G N Y H A R I T D L P Q N D E I I G G Q L L A R A
U N I R E F 9 0 _ G 9 Z H B 8 P L R L L Q E G T E R I K E G N L E E D V I Q G A D R K D D E I I G G Q L L A R A
U N I R E F 9 0 _ R 5 J U T 2 K P I Y E L L E A A D K I S E G D L D V D I K G S S R S D E I I Y Q L L A R A
U N I R E F 9 0 _ Q 8 T U P 6 I T Q P L R V L T K R S A E V A Q G S L N A D I Q Q I T T K R N D E I I G G Q L L A R A
U N I R E F 9 0 _ W 4 C G 1 6 I V R P L R Q L E Q G S R R I A E G D L N F S L H S E V R N D E I I G G Q L L A R A
U N I R E F 9 0 _ U P I 0 0 0 3 7 A 9 E 6 8 I G R R I G A S A K A A R Q I A D G D L T A R V L T R A G K D E I I G G Q L L A R A
U N I R E F 9 0 _ X 0 N 2 I 6 T R P L R Q S L S A E R I A Q G D L T A S N T P V T R K D D E I I G G Q L L A R A
U N I R E F 9 0 _ E 0 S E 7 7 R I R E L Q S A T H R I A A G D F D Y N P Q V P S G D E I I G G Q L L A R A
U N I R E F 9 0 _ E 8 W L 8 9 R P L R R V E E T A H A L A A G N L N M R V P S A A P N T E V I G S L S S
U N I R E F 9 0 _ H 5 T G K 3 R P L R R V E E T A H A L A A G N L N M R V P S A A P N T E V I G S L S S

UniRef90_E7RYL2 F N R M A D E L Q
UniRef90_K2LULO F N R M T S Q L D T Q
UniRef90_UPI0003B55468 L N R M T V N L
UniRef90_V9VWLO F Q V F R D N A R
UniRef90_M1Z038 F N Q L L E K M K
UniRef90_G4HH06 F R N M M D T I
UniRef90_I4YKX4 F N R M R R S L D S A L
UniRef90_UPI0003753853 L S V F K
UniRef90_K9GLW0 L E I F R A N M
UniRef90_G0AQN8 F N N M I D K V
UniRef90_A0LDL5 I N L L V G G L
UniRef90_B8FG34 F N A M S E K
UniRef90_W4Q783 M N I L A Y N L E
UniRef90_I3IJ48 I N T M G V E L Q S Q M
UniRef90_Q049H1 F N M M L D R M Q K Y I
UniRef90_E0I8N7 F N M M V G R I K T L M
UniRef90_F7QQ23 V E V F K D S L
UniRef90_K1IHM8 F A Q M Q D N L R
UniRef90_UPI00037FFB6F L E G F R D A L
UniRef90_D2RN82 F N W M L G Q I E E L L
UniRef90_B7WRG4 L E R M Q Q S L K T
UniRef90_UPI00029AFFA3 M R Q M A I K I K E
UniRef90_C3LD98 F N Q M L A N L Q R
UniRef90_L9UN34 F N E M Q Y T I R E H L
UniRef90_S3UG35 F N A M
UniRef90_UPI0004721DA7 F N N L S R N L Q Q A
UniRef90_M1WTS3 M N H M I D K L
UniRef90_M1E9I0 F N E M L E R L E
UniRef90_K9QFQ7 F N Q M A G Q L
UniRef90_K9GQJ1 L E G L R T H A R
UniRef90_UPI000313F604 I Q K L G S D L E R
UniRef90_A9W9X9 F N R M T E Y L I E L L
UniRef90_R4VV62 F D S M
UniRef90_UPI00036E382E F N H M A R T L E H A
UniRef90_B4UGT8 F N A M V R E V R E S
UniRef90_F8IIG1 F N E L V A N L R S L I
UniRef90_E3GF28 F N K M S Q N V
UniRef90_W4CUQ3 F N D M T Q S L R
UniRef90_U5ND59 A E V F R R H A R E A
UniRef90_UPI0004056CD1 F N H M I V R I R E L L
UniRef90_UPI0002886255 I N D L A A S L Q R
UniRef90_R6GE26 M N Q M E R H V K D L M
UniRef90_UPI0002E0FD38 F N K M V D S I
UniRef90_B2JWM3 L K N M I E N L
UniRef90_S3FNS1 F N E M K D S L R E L I
UniRef90_Q4A159 F N N L S K R V Q E A
UniRef90_K2JCD5 L E V L R
UniRef90_UPI00037515DA I N M M T R R L K R S M
UniRef90_UPI00041A2ECD F N S L S I S L K Q Q
UniRef90_I3UAT5 F D A M A T Q L Q M Q
UniRef90_S6HQ81 F N S M A K S
UniRef90_R7XSF7 F N Q M A G D L
UniRef90_D4YSF7 F N K M L D R M Q R Y I
UniRef90_W4D8Q7 F N A M T L N L R
UniRef90_R9JCW0 F E R M K N E L Q
UniRef90_UPI0003726403 V E H F R Q Q M
UniRef90_UPI00047BC740 L E Q M R V A I K
UniRef90_F6AFI0 M Q G M T R D L R T M V
UniRef90_J2KZ18 I N T M A D D I Q A M L
UniRef90_UPI00037CD63F F N H M A E E L E K N I
UniRef90_R6YS96 F N I M V E Q L
UniRef90_W4DX08 F K D M L Q S L
UniRef90_UPI000367401A L N H M S A E L
UniRef90_UPI00034542C5 F N E M A E H L E R
UniRef90_F5LGL2 F N R M A E Q L E
UniRef90_UPI00040724ED F N T M T G A L A A S
UniRef90_UPI0003716F5C L G V F R G N M
UniRef90_B2A0K8 F H Q M K N N L S T I M
UniRef90_I4ED64 F N E M A S E I R D H I
UniRef90_K9EQW5 F N R M T E Q L Q D A
UniRef90_E3FC76 F R Q M M H Q L R
UniRef90_S9T3R0 I N H M A E Q L Q R M I
UniRef90_U6BHH5 F E T M R L S L
UniRef90_G7EIT3 F N V F V S K L
UniRef90_UPI000375C3C8 I N Q M A R N L R
UniRef90_R8QX16 I N L L S N T I
UniRef90_F5LMM8 F N A M T A S I
UniRef90_Q1N8L3 I R I F R E N
UniRef90_F6B6V5 I D S M R Q Q L I Q Q
UniRef90_S9QA06 L G Q M V S H L R E L M
UniRef90_A0A023CYK1 V N
UniRef90_UPI00046AB449 L K E M R D S L
UniRef90_M4VHS5 A Q F F K V A L
UniRef90_G9ZHB8 F N H M S Q S L E D A
UniRef90_R5JUT2 F N E M R L K L K E S V
UniRef90_Q8TUP6 F K A M V E N L R S L I
UniRef90_W4CG16 F T I M
UniRef90_UPI00037A9E68 Y E K M R S E L Q L A I
UniRef90_X0N2I6 V N T M A D A L
UniRef90_E0SE77 M N A M N H K L R D M I
UniRef90_E8WL89 F T S M A A R L K
UniRef90_H5TGK3 L N T M L G Q L Q H A

UniRef90_X4ZEX3
UniRef90_I2F0V6
UniRef90_UPI00034B4AF7
UniRef90_E3IM92
UniRef90_H1QSS0
UniRef90_X1T497
UniRef90_K9PXX5
UniRef90_UPI0003626BBE
UniRef90_UPI00035D39B0
UniRef90_W4QVV7
UniRef90_U1HHZ3
UniRef90_D5HC13
UniRef90_B1R0R4
UniRef90_K4KEM7
UniRef90_E0RIU5
UniRef90_S3YHQ5
UniRef90_N6YY02
UniRef90_UPI0002DBFC88
UniRef90_UPI000248DB8F
UniRef90_V6K4N5
UniRef90_A0A023NVC8
UniRef90_UPI0002376D2F
UniRef90_U3B3P4
UniRef90_A3XG02
UniRef90_Q1H3F4
UniRef90_C6IY77
UniRef90_I0KDD1
UniRef90_W4CWX0
UniRef90_K2PEZ6
UniRef90_D7WBP0
UniRef90_A7HER8
UniRef90_UPI00035EB3A8
UniRef90_I1X123
UniRef90_K2QUJ5
UniRef90_K2CPP1
UniRef90_F6FRL6
UniRef90_N9XTH7
UniRef90_S7R2H4
UniRef90_K9SC22
UniRef90_H5YJ67
UniRef90_W0U1Z3
UniRef90_W4VZG2
UniRef90_UPI00036FF194
UniRef90_S0FNJ1
UniRef90_R5XAN6
UniRef90_UPI0004718573
UniRef90_D3EE67
UniRef90_H0RXS2
UniRef90_U4QDX7
UniRef90_B1M622
UniRef90_E0M3T2
UniRef90_UPI000362BAF9
UniRef90_D0D0H7
UniRef90_UPI000423C07D
UniRef90_B8G0E6
UniRef90_E0SCJ7
UniRef90_A0A024IRU3
UniRef90_UPI00037101A3
UniRef90_S0G0H4
UniRef90_I0XVB8
UniRef90_Q04X71
UniRef90_D5C6Y8
UniRef90_U7URW1
UniRef90_T4VYH9
UniRef90_G7M4X7
UniRef90_S2KFU4
UniRef90_M1LT49
UniRef90_F6CHL5
UniRef90_UPI0003817686
UniRef90_A31B44
UniRef90_R7GWJ3
UniRef90_B0KC51
UniRef90_UPI0002558BCC
UniRef90_D0KKI7
UniRef90_UPI0003B4F816
UniRef90_Q2W3F0
UniRef90_B9CLP8
UniRef90_UPI000370394C
UniRef90_B8DL66
UniRef90_A0LJL6
UniRef90_UPI0002490E39
UniRef90_B8I318
UniRef90_D5U8H7
UniRef90_G2LKC7
UniRef90_A0LUW0
UniRef90_UPI0003B3886B
UniRef90_P54576
UniRef90_A5G5C4
UniRef90_G4HC10
UniRef90_R6KQI0
UniRef90_S9TSI3
UniRef90_UPI0003B77698

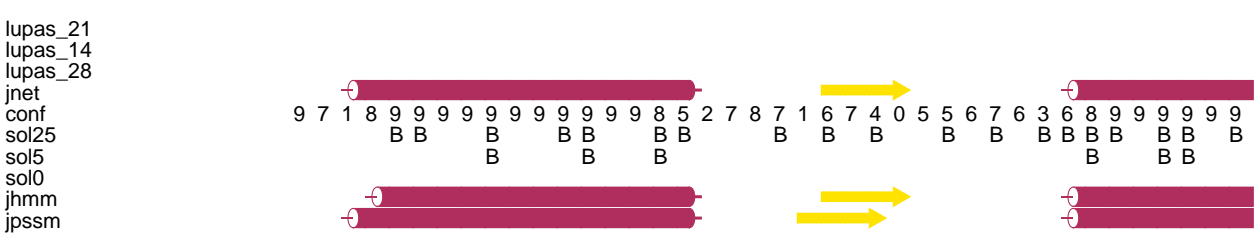
1 10 20 30 40
S I T R V V T E I K Q T A S R R M A D G T D L S V R R F H V D T K D D E L V L K V I A N S
V L Q P I H L I T T K A S R Q R T V G A E N D D L A G V R L L T P D P P K K D D E L V L S G Q T L F Q A S S
P L E A A L T G A A R H R D V I G A R E G D D L A G V R L L T P D P P K K D D E L V L S G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

UniRef90_X4ZEX3 F N H I A E S F K S V L
 UniRef90_I2F0V6 F N Q M L D R L Q Q S
 UniRef90_UPI00034B4AF7 F N H M V N K I
 UniRef90_E3IM92 F M W M T R R L R D A
 UniRef90_H1QSS0 F N S M T S S L
 UniRef90_X1T497 F N N M L D G L Q A
 UniRef90_K9PXX5 V E L M A S Q L E
 UniRef90_UPI0003626BBE F N Q M S D R L Q K A
 UniRef90_UPI00035D39B0 F N A M T R Q L D E A
 UniRef90_W4QVV7 V N A L S K S L Q
 UniRef90_U1HHZ3 M E T M R D N L R R M V
 UniRef90_D5HCI3 F N A M V T A S R E
 UniRef90_B1R0R4 V N K M A Y N I N Q L M
 UniRef90_K4KEM7 F D L M T E Q L Q S A
 UniRef90_E0RIU5 I N D L A M E L K R
 UniRef90_S3YHQ5 F N K T L D R L E E S
 UniRef90_N6YY02 F D R M A E R L Q D L L
 UniRef90_UPI0002DBFC88 F N R S A E A L E A
 UniRef90_UPI000248DB8F Y N L M V T R L S E M I
 UniRef90_V6K4N5 F N D T A A L E E S I
 UniRef90_A0A023NVC8 F D R M R T E L
 UniRef90_UPI0002376D2F F N T M A E Q L
 UniRef90_U3B3P4 F T S M Q E G I
 UniRef90_A3XG02 L D S L L D Q I Q E
 UniRef90_Q1H3F4 F D Y M A T R L Q T L L
 UniRef90_C6IY77 F N R M I S R I R E L L
 UniRef90_I0KDD1 F N Q M T Q S L H N A
 UniRef90_W4CWX0 F N S M V G R L Q E L M
 UniRef90_K2PEZ6 A D I F R K A
 UniRef90_D7WBP0 F N T M A E Q V R R Q M
 UniRef90_A7HER8 F D E M A H S L E A
 UniRef90_UPI00035EB3A8 F E Q M S S E L K Q
 UniRef90_I1XI23 F N E M T R R L R S Q
 UniRef90_K2QUJ5 M Q I F R E A
 UniRef90_K2CPP1 F N L M V G Q L R E
 UniRef90_F6FRL6 F N E M A T N L Q D Q I
 UniRef90_N9XTH7 F N D M A A N M Q T L I
 UniRef90_S7R2H4 F N H M R Q R L Q T A
 UniRef90_K9SC22 F T S M I H S I R
 UniRef90_H5YJ67 F N R M T E Q L R
 UniRef90_W0U1Z3 F N D M A A S L K
 UniRef90_W4VGZ1 I N T M S N N L R
 UniRef90_UPI00036FF194 F N R F M G T L E R S
 UniRef90_S0FNJ1 F N K M V E E L
 UniRef90_R5XAN6 F N D M A D A L
 UniRef90_UPI0004718573 L E G F R H T L
 UniRef90_D3EE67 F N K M I E Q I
 UniRef90_HORXS2 V A K F R D N V I A Q
 UniRef90_U4QDX7 I E I F R A S
 UniRef90_B1M622 V Q V F K D N L
 UniRef90_E0M3T2 M G A M N Q S L R
 UniRef90_UPI000362BAF9 F N H L A A S L E
 UniRef90_D0D0H7 L E E L R D A L G R A
 UniRef90_UPI000423C07D L G N L R D R L R E Q
 UniRef90_B8G0E6 I N H M K N S I K Q
 UniRef90_E0SCJ7 M M S M T E K L R Q L I
 UniRef90_A0A024IRU3 V Q V F R E S
 UniRef90_UPI00037101A3 F N I M T Q E I Q A Q
 UniRef90_S0G0H4 F N R F M D K L
 UniRef90_I0XVB8 F N K M V G S I
 UniRef90_Q04X71 F N N M V
 UniRef90_D5C6Y8 F N H M S A E L
 UniRef90_U7URW1 F N G M L D T I E E S L
 UniRef90_T4VYH9 M V K M S N E L K
 UniRef90_G7M4X7 L N
 UniRef90_S2KFU4 F N D M A G T I D A Q L
 UniRef90_M1LT49 F N H M
 UniRef90_F6CHL5 F R R M A R Q L
 UniRef90_UPI0003817686 F N L L A S S L E E A M
 UniRef90_A3IB44 L N R M T A S L Q S M I
 UniRef90_R7GWJ3 F H H M M D E I N R L I
 UniRef90_B0KC51 F N L M I D G I K
 UniRef90_UPI0002558BCC F N Q F V E K I Q Q L I
 UniRef90_DOKKI7 F N Q L A N T L E
 UniRef90_UPI0003B4F816 F N
 UniRef90_Q2W3F0 V Q V F R N N
 UniRef90_B9CLP8 F D D M A T A L E
 UniRef90_UPI000370394C F N R F L G T L Q Q M
 UniRef90_B8DLE6 F L W M V A R L R D A
 UniRef90_A0LJL6 F N D M V E D L R E S
 UniRef90_UPI0002490E39 F N K M A D S
 UniRef90_B8I3I8 F N K M M N Q I R E L M
 UniRef90_D5U8H7 F N V M S E K L
 UniRef90_G2LKC7 Y N R M L A Q V R A M
 UniRef90_A0LUW0 F N T M V S R I E E A
 UniRef90_UPI0003B3886B F N G M A D S L Q S Q I
 UniRef90_P54576 F N L M V E N M K E M V
 UniRef90_A5G5C4 F I S M A A K L K
 UniRef90_G4HCI0 I N Q M A K Q L K L S L
 UniRef90_R6KQI0 F N Q M
 UniRef90_S9TSI3 L A S F R D S L
 UniRef90_UPI0003B77698 F N H M A A S L Q A

UniRef90_UPI00029AE818 1 K P I N A L N T A A L R V S S G T D Y D A G I T L D G R K D E E I L A S E L L G A R T S
UniRef90_UPI00036E6271 P V R E L R R T A Q T R I T S D T D F D S R R E I P V A G R G K D E E I L A S E L L G A R T S
UniRef90_F6BT51 R G I L G L R D S M R F L H S A G N D L L T A E E A A K L V D N S G R G K D E E I L A S E L L G A R T S
UniRef90_K9QIG5 T N I V F R Q F S S G N L D I R A K L V D N S G R G K D E E I L A S E L L G A R T S
UniRef90_C4XS14 P L K D L I D T V R A I D A T G R N F M D A R R V P E V V G S A G D D E I L A S E L L G A R T S
UniRef90_A9W6K6 P I R S S M N A A A K R A A A S G D L L S Q R L A L I G S A G D D E I L A S E L L G A R T S
UniRef90_U1Q1H3 R P L R G L T D M M T G M S S R G Q L L S V A I L P G Q D R R G K D E E I L A S E L L G A R T S
UniRef90_V4PI00 K R K V I T Q A A Q Q L A S R G D L L S T G E E V K N I H G R K D E E I L A S E L L G A R T S
UniRef90_UPI0003728DC0 P L R R L V R H T R L V A S E G N L Q Q D L I K M T G S P H H G R K D E E I L A S E L L G A R T S
UniRef90_B9Y5W8 R P L H Q I N Q T V K Q I T S A G N L L D R R L R L L D G G P H H G R K D E E I L A S E L L G A R T S
UniRef90_UPI000405D1E3 P I R S I T K K A N Q I T A G Q N N L L N E R I P L I K P N D E I L A S E L L G A R T S
UniRef90_D1BF02 S K L V S I T S N V I A K R M T T L L D M T W K C E V R N R R K D E E I L A S E L L G A R T S
UniRef90_A6NYT5 S L A S V I A N I T G T I S R L A A N D L L S E R A I V D N G N R K D E E I L A S E L L G A R T S
UniRef90_H4F516 M V Q P I G S L I V G S L Q S R L A A N D L L S E R A I V D N G N R K D E E I L A S E L L G A R T S
UniRef90_G2TG22 T D P L D E L T E A V Q H A E A G N D Y S V R S N D T H S D E E I L A S E L L G A R T S
UniRef90_UPI00037B3068 V T K P V E A L A D A M A F A E A G N Y S H R V R E I A T E F E F G E I L A S E L L G A R T S
UniRef90_E8X1N2 I S D P A R R I L A D S M N K V S A S G D L D V R L R E A K D S F E F G E I L A S E L L G A R T S
UniRef90_UPI00047CAE7B P I G R M V K Y L S F S S G D D F T A E I P K L N S R K D E E I L A S E L L G A R T S
UniRef90_C3L262 Q P I G L R E A S T K I S N N D L D F N I Q H H N S R K D E E I L A S E L L G A R T S
UniRef90_UPI00045D1E3 S I T R P V G R L T A L F K R L A S G D L T V A A T F G N Y K S E F K D L A D S G
UniRef90_W4B4W6 K P L K K L S R A M R R L Q T S G D D F T Q R V F F E G S R N D E I L A S E L L G A R T S
UniRef90_K4ZFJ3 T R L R L N A A M G K M A S G D L L A V V I P G G A S R G N D E I L A S E L L G A R T S
UniRef90_W4D8M7 R P I A D M K K Q A Q A M A K G N F S R K V V K V Y G A N D E I L A S E L L G A R T S
UniRef90_Q07JN0 S I V R P I N D I L M Q A T N A I S A G N L L S H Q V P D E A M G A E E I L A S E L L G A R T S
UniRef90_K6DTF6 P L K R L H R R I E Q F A A G D L L N V K I E D E A M G A E E I L A S E L L G A R T S
UniRef90_UPI000476207D V A T P L R R L S T A A R S L A A R G D F E V D I E T M D R G R D E I L A S E L L G A R T S
UniRef90_E6WZE5 S I V R P L Q V A V D A A E K V A S G N D L A T R I V P E S T S R D E I L A S E L L G A R T S
UniRef90_A0LNE0 K P I G L T A V A K Q I S N G D Y S S E V P E S T S R D E I L A S E L L G A R T S
UniRef90_UPI000377C04A P V R K V S A A A Q R I S P T D L A T R V P V P D T G D E I L A S E L L G A R T S
UniRef90_A9B1M1 R P L G T A M G V A A R V A D G D L T V T P P D I R S G G D E I L A S E L L G A R T S
UniRef90_UPI000344915B S F S S P L L E M K R V T E Q I S Q G N H E N E L L N T K R R D D E I L A S E L L G A R T S
UniRef90_Q39S47 T L T R P L A R L A D G A E R L R A G N D R S V Q L P I P P R Q D D E I L A S E L L G A R T S
UniRef90_UPI00035D40C0 T I T R P I A D M R R Q A V E L R K A G N F S R K V P K V Y S R D D E I L A S E L L G A R T S
UniRef90_U3A111 P L Q R I S D V T L R L A D G E L D I D V P Y T E R T D E I L A S E L L G A R T S
UniRef90_V5PSP2 S I T R P I A R A V I Q V A Q R V A S G D L L T S R I E V T R S G K D E I L A S E L L G A R T S
UniRef90_U4WNJ6 T S P L R M L R S L M R K V E R G D L K V S F P V R Q W D E I L A S E L L G A R T S
UniRef90_C6D6B6 S L T R R V S Q A L S E V A T R V A S G D D F T A R A G L N T K D E I L A S E L L G A R T S
UniRef90_S7UXE9 P L S Q I M R A M K K L A A N G D L T A R V A D V D N T K D E I L A S E L L G A R T S
UniRef90_UPI0002DEFEB3 S R R L R T L Q N A V R K M G E G D L K A A I H I G P E D E I L A S E L L G A R T S
UniRef90_B9M7W7 T I S T R P L A E V Q A V A A R T A D G D L T A Q V K A R R D D E I L A S E L L G A R T S
UniRef90_K9D7K5 I S T R P V L Q K L A K A D M K N V Y R G D L T V R T P K A R V E T N D E F I G G Q L L A S E L L G A R T S
UniRef90_UPI00036F56CE I T R P L I S M S S T C R E I N K G N Y S Y R F E S V K R K D E I L A S E L L G A R T S
UniRef90_E7GHK1 R P L T V A N L Q L K T A S D G D L S T S I P Y T A F S K D E I L A S E L L G A R T S
UniRef90_W8TMY4 L T Q P I V S M T E L I G E A S D G D F T V Q A A E D S K N E I I G G V L A S E L L G A R T S
UniRef90_R9IUT8 R K L E I A A Q S I K A G N L D F T I E A D G K D E I L A S E L L G A R T S
UniRef90_R9INR5 R R I L S N A S I E M A K G D F D Q R V P P S R R L E E L L G A L L A S E L L G A R T S
UniRef90_Q72TU4 I S H P L R A F T Q A T D Q V I A D G D F Q V V F R D S R D D E I L A S E L L G A R T S
UniRef90_S9NWE0 K P V S R K L M T A M Q S I A D G N E M D T R A E V V S K D E I L A S E L L G A R T S
UniRef90_F8GL47 L T Q P M Q Q L I K A T D A I R K G K Y D T R V S L H T S D E I L A S E L L G A R T S
UniRef90_R7FRH9 P L R S M T G T V E K V I G E G D L L S L R T E V T T A D D E I L A S E L L G A R T S
UniRef90_E2CP64 L I N P I L L M A N S M K Q I A T G D L L N T V V H Y K S D D E I L A S E L L G A R T S
UniRef90_UPI000375E5B4 K P I M R L K L A A Q N I Q A G N L D F E L P V E Y S G D E I L A S E L L G A R T S
UniRef90_D4LPL0 P I L R L A T A T R Q L A G G A Y D M E L K I S G K D E I L A S E L L G A R T S
UniRef90_A4J7U0 V V Q P L A S L A R T I T Q L V E G T R D V V V P G T D R R D E I L A S E L L G A R T S
UniRef90_B7APK8 K S L S S T A Y K I S R G N L N V K T G I D R D D E I L A S E L L G A R T S
UniRef90_Q2SQT7 Q P I G L L Q Q D M K R F A A G E L L S H R S A V A S K D E I L A S E L L G A R T S
UniRef90_B7KU87 K P I V R L M E E M K K V A A G D L L R A E P L V V K T R D E I L A S E L L G A R T S
UniRef90_Q2BM86 I V K P L K Q M K T I T K K F A S G D L N E R V P E S D I P E L L N Q L A I S Q
UniRef90_C4XJR6 T K P I R L L E Q G M N R F A S G E L D T R V S Q Q E R R K D E I L A S E L L G A R T S
UniRef90_UPI00036EAE21 V K P I Q K L Q E S L D V F A Q N G D F Q T R V S H F N R K D E I L A S E L L G A R T S
UniRef90_UPI00047D2137 R P M R K I A E A A R Q V V A G G D F T I R L Q K D G K K D E I L A S E L L G A R T S
UniRef90_UPI000289DD7C S V I T P I R R I T H A L K Q V T L G R Y N Q Q M N E S A S K D E I L A S E L L G A R T S
UniRef90_UPI0004753149 P L A E L T G A L R K L A T G Q L D L V L P G L D R R D E I L A S E L L G A R T S
UniRef90_UPI00034D9B2A V T G P L N G I A R A M G D M A A G N L D R E V P H T D L T D E I L A S E L L G A R T S
UniRef90_F1ZBX0 S V A Q P I E A L R D Q M T R T A D G D L T Q P V A I A D D R G E I L A S E L L G A R T S
UniRef90_UPI00035FFF79 S L T Q P L S R A T K A E A A K A G D V D N D V E T T A N D E S G R L L R A
UniRef90_W4S4J7 I S G P L V K Q L T E A A E L S K G R F D L K I E V K S D D E I L A S E L L G A R T S
UniRef90_UPI0001850905 S I I T P L K E L Q Y A S N E I R E G N L D Y T I D N H F H D E I L A S E L L G A R T S
UniRef90_A6TL12 I I A N I I D E T A K I A E G N L H L T T L K D I E T R D E I L A S E L L G A R T S
UniRef90_M8BK7 K R L S H L S E R I N Q V A S G D L K T K I V V D G K D E I L A S E L L G A R T S
UniRef90_Q9KBL7 L K N A A R R I E G G D L N F T L P E A E T H D E I L A S E L L G A R T S
UniRef90_J1FRJ8 R T M S R G V Q Q I A E G K L S I R L P E A R G K D E I L A S E L L G A R T S
UniRef90_F5LG45 L A R R I R T L K E A A G Q I A A N G D L T Q Q L P E A R G K D E I L A S E L L G A R T S
UniRef90_UPI0003FEB96 R P L E Q L Q S V T E K I A Q G D F N A R A Q V N S D D E I L A S E L L G A R T S
UniRef90_R5I528 R P L E Q L Q S M L A V A T K G D F T M R Y E Y G N N E V A G R L A R C
UniRef90_J1H1Q2 R R L A L A T R R L A D G D F D I R V R V G A P D E I L A S E L L G A R T S
UniRef90_W8WVV2 I T R P L K T V T H L V H I A S D G D L T K Q L D M Q R K D E I L A S E L L G A R T S
UniRef90_UPI00036FD73F S G P L N G K V A H L V N Q V A D G D L R Q T I G I R T R K D E I L A S E L L G A R T S
UniRef90_D6Z0W8 S R K I N G L I T A T R R I I G G D Y S Q A I K T D S R D E I L A S E L L G A R T S
UniRef90_N1W3T3 S T P I L K L V D A S E E I R R G N Y H I E L H A T T H D E I L A S E L L G A R T S
UniRef90_D0LY37 R P V R R M G D V A E R V E R G D L S A I V D H A D D R G D E I L A S E L L G A R T S
UniRef90_U2SIX7 R P V A K I S D T A T E I Q K G D F S K R I E I D D G Q D E I L A S E L L G A R T S
UniRef90_DOMDR2 R P V D Q L R Q A A Q A V E R G D L S A R V H I E S Q Q D E I L A S E L L G A R T S
UniRef90_E4RMG0 I L R P I K E L G K G I K E V A A R N F S Q K V E V A S E D E I L A S E L L G A R T S
UniRef90_W4D7Z6 L T R P I Q L L Q H K M R L T A S G Y L E A K V K P D G T D E I L A S E L L G A R T S

UniRef90_UPI00029AE818 F N [] M T S S L R
 UniRef90_UPI00036E6271 F N G M [] D R [] L E E A
 UniRef90_F6BT51 [] V E [] L F R V [] S
 UniRef90_K9QIG5 F N N M A L Q [] L Q T S [] L
 UniRef90_C4XS14 F N A M [] D K I R T [] L []
 UniRef90_A9W6K6 F N T M T Q E L R R Q
 UniRef90_U1Q1H3 F D N M [] A S L E R S
 UniRef90_V4PI00 [] V E [] L F R K G L T E A
 UniRef90_UPI0003728DC0 F N A M T [] L S L R E [] L []
 UniRef90_B9Y5W8 M D Q [] L A [] J E L R
 UniRef90_UPI00035EE660 F R [] L M T E N L R A M [] V
 UniRef90_A5UWJ9 F N A M [] L D R L K Q
 UniRef90_UPI000405D1E3 [] I N K [] L L D R L E S A [] L
 UniRef90_D1BF02 F N T M A A E L A R
 UniRef90_A6NYT5 [] L N E M A Q R L S D T M
 UniRef90_H4F5I6 [] V Q [] V L K D N A [] I R A [] V
 UniRef90_G2TG22 A L I F R D N A R K A
 UniRef90_UPI00037B3068 Y N R F M E A L
 UniRef90_E8X1N2 F N H M A Q D L E
 UniRef90_UPI00047CAE7B F N N M [] V V [] G L K E A
 UniRef90_C3L262 [] L V N M Q E S M R
 UniRef90_W4B4W6 F E S M R A A [] L E R Q M
 UniRef90_K4ZFJ3 F N [] V M [] V E Q
 UniRef90_W4D8M7 Y N L M [] V Q R [] K S [] L []
 UniRef90_Q07JN0 [] I A V I R D N
 UniRef90_K6DTF6 F N N L T K K [] L Q E A
 UniRef90_UPI000476207D [] I N K M A E D L A A S
 UniRef90_E6WZE5 F D K A [] I R H [] I K Q L M
 UniRef90_A0LNE0 F G E M
 UniRef90_UPI000377C04A [] L R S M T E S [] L
 UniRef90_A9B1M1 F A M M [] V D K V R E
 UniRef90_UPI000344915B [] I N R M L T R I E Q A
 UniRef90_Q39S47 F G R M [] V E N L R R Q
 UniRef90_A0A011NIF5 M N A M A [] I S L
 UniRef90_K6BX68 [] I Q [] L L S D N L E R
 UniRef90_UPI00035D40C0 F N D L T [] L S L A R Q
 UniRef90_C4L016 F N E [] L T D E [] L M E A
 UniRef90_U3A111
 UniRef90_V5PSP2 [] L K H M N E S [] L D Q
 UniRef90_U4WVJ6 F N Q M A E N M R T [] M
 UniRef90_C6D6B6 F N M M [] V S H [] L
 UniRef90_S7UXE9 F D A M I [] P K L E E R [] L
 UniRef90_UPI0002DEFEB3 [] I N D V A Q N L Q
 UniRef90_B9M7W7 F Q G M A Q A [] L H R S
 UniRef90_K9D7K5 [] I N E
 UniRef90_UPI00036F56CE F N Q M
 UniRef90_E7GHK1 F E S [] L L R N M
 UniRef90_W8TMY4 [] I E H M Q D S [] L K N [] L L
 UniRef90_R9IUT8 F N K M T G K I
 UniRef90_R9INR5 F E E M R F R L K E S
 UniRef90_Q72TU4 F N H M A E Q [] L Q E S
 UniRef90_S9NWE0 F E [] L M
 UniRef90_F8GL47 F N Q M T D K [] L R
 UniRef90_R7FRH9 F N R M [] L D R
 UniRef90_E2CP64 [] L A [] V F K S N
 UniRef90_UPI000375E5B4 F N H M
 UniRef90_D4LPL0 F N H M [] L D
 UniRef90_A4J7U0 [] I N E M T S K [] L A R
 UniRef90_B7APK8 F E E M R [] I L K
 UniRef90_Q2SQT7 F H Q [] L A Q T [] L K
 UniRef90_B7KU87 [] V D [] V L K
 UniRef90_Q2BM86 F D I M [] V E R [] L
 UniRef90_C4XJR6 F N E M A D S I Q R
 UniRef90_UPI00036EAE21 F N E M A T S L
 UniRef90_E0UEL3 F N R M A N G L E
 UniRef90_UPI00047D2137 F D K M A D Q L Q
 UniRef90_UPI000289DD7C F N A M [] V M K I E E [] L []
 UniRef90_A0A010YZ43 F N T M T E E L A T
 UniRef90_UPI0004753149 Y E T [] L R R K [] L Q A
 UniRef90_UPI00034D9B2A [] I D
 UniRef90_F1ZBX0 [] L V [] E [] I K R S [] V
 UniRef90_UPI00035FFF79 F A S [] L L A R L R Q [] L L
 UniRef90_W4S4J7 M K A M Q S Q L R A [] L L
 UniRef90_UPI0001850905 F D Q M R [] I N I
 UniRef90_A6TL12 F E G M R G K L K E S [] L
 UniRef90_M8BKB7 [] L D [] V L R E N N R Q
 UniRef90_Q9KBL7 F N Q M [] V A N L R S [] L []
 UniRef90_J1FRJ8 F E K M R [] I K L K Q
 UniRef90_F5LG45 [] I N E M A G Q L E E M []
 UniRef90_UPI0003FEB96E F R [] L M T G N [] I R
 UniRef90_R5I528 F N K M A G N M Q S [] L []
 UniRef90_J1H1Q2 F N D M [] V E K [] L
 UniRef90_W8WWW2 F N R L A H S L A R
 UniRef90_A6VTN0 A N H V S [] V S L
 UniRef90_UPI00036FD73F [] I D S M V E N L R R
 UniRef90_D6Z0W8 F N H L Q E S V A R Q []
 UniRef90_N1W3T3 F V S M G R G L E E
 UniRef90_D0LY37 [] I N E M [] V G G L K A K [] L
 UniRef90_U2SIX7 F N E M L N S L E
 UniRef90_DOMDR2 F N A M
 UniRef90_E4RMG0 F N E M [] I S K [] L Q E
 UniRef90_W4D7Z6 F N [] I M [] V E Q [] L K E [] L L

	1		10		20		30		40																															
UniRef90_UPI0003659096		P	M	V	Q	I	I	G	A	M	T	R	L	A	D	G	D	T	K	I	D	V	M	T	G	D	R	R	D	E	I	G	Q	L	I	G	R	A		
UniRef90_F3HHE4		P	V	K	R	V	A	A	A	T	H	R	L	A	A	G	K	Y	S	S	R	V	A	V	S	S	N	D	E	V	G	Q	L	A	R	D				
UniRef90_UPI00037BD47C	R	P	I	K	Q	I	V	S	C	L	K	E	L	S	D	G	N	L	T	V	D	I	F	G	T	E	R	K	D	E	V	G	E	I	A	Q	M			
UniRef90_L8XXJ0	R	P	I	K	R	L	K	Q	A	A	D	R	V	A	K	G	D	W	E	V	D	P	A	L	E	K	G	T	V	E	F	S	Y	L	G	Q	S			
UniRef90_A8TK38		P	I	G	G	L	T	S	V	M	L	R	L	A	A	H	D	L	E	A	E	V	P	S	R	N	Q	S	D	E	I	G	V	M	A	G	A			
UniRef90_UPI00047E47AB		P	I	L	Q	L	A	N	G	A	R	H	V	A	Q	G	E	F	N	Q	R	L	T	I	T	R	N	D	E	F	G	R	L	S	N	L				
UniRef90_R6DQC6	V	I	S	P	V	K	K	M	T	K	V	I	T	A	M	A	G	G	D	F	T	V	S	M	K	V	K	G	K	D	E	I	A	V	M	G	R	S		
UniRef90_M1XS48	L	T	G	P	L	Q	E	L	E	S	S	T	E	A	V	A	E	G	T	L	D	V	D	S	T	A	L	E	Q	D	D	E	V	G	S	L	A	A	S	
UniRef90_UPI0003B716A2	R	P	V	R	E	L	R	D	T	A	R	R	L	A	D	G	D	L	D	A	R	T	S	P	G	G	A	D	E	V	A	Q	L	T	V	T				
UniRef90_F8JXL0		P	V	R	R	L	R	R	A	A	G	E	L	A	A	G	R	L	D	T	R	L	E	V	R	G	G	D	E	L	A	D	L	S	R	A				
UniRef90_W9GQX4		R	P	I	Q	E	L	V	D	A	T	G	R	W	R	S	G	D	Y	A	A	R	V	A	G	K	G	A	P	P	E	I	A	T	L	A	R	A		
UniRef90_A0A023D8J8		R	P	L	S	R	I	A	V	V	A	E	R	T	S	M	G	A	E	G	V	E	E	F	D	T	R	R	P	G	E	L	G	A	L	A	M	S		
UniRef90_UPI0003129E47	I	T	Q	P	L	L	K	L	S	Q	A	S	E	A	I	A	L	G	E	L	D	Q	K	V	V	E	S	E	V	E	E	L	A	V	L	A	R	S		
UniRef90_G8AVA4		R	P	F	D	A	L	R	R	V	M	L	D	L	S	E	G	R	K	V	A	S	I	P	G	L	G	R	G	D	E	L	G	D	M	A	R	T		
UniRef90_D3Q1M5		R	P	I	R	Q	I	S	A	A	S	R	R	L	S	A	E	N	L	A	E	R	V	P	V	R	G	P	A	D	E	L	A	E	L	A	D	T		
UniRef90_K5TIT0		K	P	I	N	D	I	K	E	A	M	V	Q	I	A	E	G	D	L	S	Q	R	I	S	I	N	S	Q	D	E	I	G	Q	L	A	G	G			
UniRef90_D0LZR3	L	T	L	A	V	H	D	L	A	K	G	A	R	I	A	D	G	D	L	N	Q	P	V	P	V	R	Q	S	D	E	L	G	A	L	A	E	V			
UniRef90_F0C244	S	L	V	R	P	L	T	Q	A	T	R	A	A	E	A	I	A	N	G	N	L	D	N	D	V	R	T	Q	S	N	D	E	T	G	R	L	L	Q	A	
UniRef90_B5NNY7		R	P	L	S	N	L	N	N	S	T	H	L	I	A	N	G	D	Y	S	K	R	L	N	I	K	T	N	D	E	L	G	E	L	A	H	N			
UniRef90_R9M9P5	S	I	T	R	P	L	A	Q	A	V	D	I	S	N	R	V	A	A	G	D	M	S	V	E	I	G	N	T	G	A	D	E	T	G	L	L	L	N	S	
UniRef90_A3IBS5																																								
UniRef90_K9ZFM3		P	V	I	E	L	T	E	L	V	Q	E	F	A	Q	G	N	L	K	K	Q	A	S	V	L	S	N	D	E	I	G	Q	L	E	L	S				
UniRef90_S0FGZ8	L	I	R	Y	I	E	E	I	S	A	T	L	Q	K	V	A	H	E	N	F	D	I	K	I	P	S	I	R	S	T	D	E	L	G	D	L	A	D	N	
UniRef90_UPI00036AD052	V	L	R	P	L	R	E	V	T	A	T	A	H	R	L	S	V	E	S	L	G	E	R	I	N	H	Q	G	A	R	D	E	V	A	E	L	A	D	T	
UniRef90_K9H787																																								
UniRef90_UPI0002D9E62A		K	P	L	I	T	M	K	E	A	T	Y	Q	L	S	K	G	N	F	S	V	S	F	P	K	A	S	K	D	E	L	G	D	L	A	K	S			



UniRef90_UPI0003659096 L E V F R Q K
 UniRef90_F3HHE4 F N Q L A Y T L E R
 UniRef90_UPI00037BD47C T L I F K Q N M
 UniRef90_L8XXJ0 F N Q M V E E L Q K A
 UniRef90_A8TK38 V Q V F K D N M I D A
 UniRef90_UPI00047E47AB F N H M T E Q L A I A
 UniRef90_R6DQC6 V E Q F I E S M K Q M I
 UniRef90_M1XS48 F E R M H E M L R
 UniRef90_UPI0003B716A2 I N E M A D A I Q T S M
 UniRef90_F8JXL0 F N H M A A T L E E
 UniRef90_W9GQX4 F N A M A D E V E
 UniRef90_A0A023D8J8 F N R L R R S M E S A M
 UniRef90_UPI0003129E47 F N R M
 UniRef90_G8AVA4 L E G F R E N L
 UniRef90_D3Q1M5 V N G M L D R I Q R
 UniRef90_K5TIT0 F N Q F V T K I Q A
 UniRef90_D0LZR3 F N E M Q A N L R
 UniRef90_F0C244 M D R M Q G Q V R
 UniRef90_R5NNY7 M N I M A D S I E E
 UniRef90_B9M9P5 M K K M I D H I K M
 UniRef90_A3IBS5 F E E M A Y D L Q Q
 UniRef90_K9ZFM3 F N R M A A Q L K A S
 UniRef90_S0FGZ8 I N Q M T L R L K
 UniRef90_UPI00036AD052 F D A M L D R L Q A A
 UniRef90_K9H787 F N R M T S Q I A N Q
 UniRef90_UPI0002D9E62A I E S L A T E L

lupas_21
 lupas_14
 lupas_28
 jnet
 conf 9 9 9 9 9 9 9 8 8 5 1 8
 sol25 B B B B
 sol5 B B B
 sol0 B B
 jhmm
 jpssm