

QUERY 1 10 20 30 40
UniRef90_UPI0002745A5B L D F K D V L L R P K R S T L K S R S E E V D L R T S F S F R N S S K Q T Y S G V
UniRef90_T1L391 L D F K D V L L R P K R S T L K S R S E E V D L R T S F S F R N S S K Q T Y S G V
UniRef90_U1Y1T1 L D F K D V L L R P K R S T L K S R S E E V D L R T S F S F R N S S K Q T Y S G V
UniRef90_K7IWB2 L D F K D V L L R P K R S T L K S R S S D V S D L F R E T L T F R N S S K R T Y R G T V
UniRef90_A6FA70 L G F K D V L F R P K R S T L R S R S Q V S L E R T F T P T S K Y T W T G V
UniRef90_E6U7C8 L V G I T N R D L R F I T D F D T K V S D V M T K H L V T A
UniRef90_H2LTC9 L D F K D V L L R P K R S T L K S R S E E V D L M R S F T F R N S S K G S Y T G I
UniRef90_R7FY24 L V G I T N R D L R F I T D M S M D T G E V M T K D N L V T A
UniRef90_UPI00041C51DC D R K L V G I T N R D L R F E P D F R R P V I K E V M T K E N L V T A
UniRef90_UPI00036C4A20 D N G K L Q G I T N R D L R F V H D Y S I K I K E V M T K E N L V T A
UniRef90_B1GYS8 D N G R L T G I T N R D L R F E T D N N K K V S E I M T K D N L V T A
UniRef90_UPI000416SN80 L D F K D V L L R P K R S T L K S R A D V D L V R E Y A F K N S K K T Y S G V
UniRef90_UPI0002FCDDC1 L V G I T N R D L R F I Q D Y S I K I K D V M T K E D L V T A
UniRef90_D9QSQ5 E D M K L V G I T N R D L R F E K D F D Q K L S E V M T K E N L V T A
UniRef90_O67820 E E R K L I G I T N R D L R F I K D Y S K P V I S E F M T K E N L V T A
UniRef90_M7N8G7 E E L K L V G I T N R D M R F I E D Y S G Q V I S D F M T K E N L V T A
UniRef90_A8PSE8 L D F K D V L L R P K R S T L K S R A D V D L V R E Y A F R N S K K K Y V G I
UniRef90_L1JM05 L D F K D V L I R P K R S T L R S R S E V S L D R K Y T F R N S K K T W E G V
UniRef90_R1AU24 L V G I T N R D I R F E T D T S K K I E E V M T K E S L V T A
UniRef90_UPI0003B6B3A1 L L G I T N R D I R F V K N F T I K I G E V M T K E D L K T V
UniRef90_UPI00036789D2 L V G I T N R D L R F E T D L S K R I G E M T K E N L V T A
UniRef90_UPI0003B3E450 L V G I T N R D L R F E T N F E R P V S R E I M T K E N L V T A
UniRef90_A8ML11 L V G I T N R D L R F E T N Y K K K V S E A M T K D N L V T A
UniRef90_H8Z213 L G F K D V M I R P K R S T L R S R A Q V S L E R S F S F L H S G K A W S G V
UniRef90_A0RNK5 D D N V L I G I T N R D L R F E N D F T K Q V S D A M T K P L I T A
UniRef90_B9DM03 E D R N L V G I T N R D L R F E D F S K I K S D V M T K E N L V T A
UniRef90_D9S015 L V G I T N R D I R F E D D M S K K I K D V M T K E N L V T A
UniRef90_B5E8E4 L G F S D V L I R P K R S N L K S R S Q V D L Q R R H F K F L H S R H E W T G V
UniRef90_F6DUS7 L V G I T N R D L R F E S D M D R R C G E I M T K E G L I T A
UniRef90_F6U1G1 L D F K D V L L R P K R S T L R S R S Q V D V S R H I K F R N S G Q V Y V G V
UniRef90_C6PX43 L V G I T N R D I V F E T D Y S R K I S E V M T K E N L V T A
UniRef90_H6LH13 L V G I T N R D L R F E N D P K K K I K D A M T R A N L V T A
UniRef90_I4BW07 D M K L V G I T N R D L R F I T D Y D Q P I R D V M T K E N L V S
UniRef90_G2LE20 E D G R L V G I T N R D L R F E T R L E L P I S E V M T K E N L I T V
UniRef90_Q8EU79 L V G I T N R D L R F I Q D Y S L S I S E V M T S E N Q W S T A
UniRef90_A6D4V8 L G F K D V L F R P K R S T L K S R S Q V N L T R D F T F K H S G R Q W S G T
UniRef90_S7UC29 L V G I T N R D V R F V T D M N T P V S Q L M T S E R L I T V
UniRef90_UPI00036C70C3 T M E N R K L V G I T N R D M R F I T S D Y T Q P I S A N M T K E N L V T A
UniRef90_UPI0003FDB3ED L V G I T N R D L R F E T D Y S R K I K D V M T C E N L V T A
UniRef90_H5S9E5 L V G I T N R D L R F E T R M D L R V R D V M T R E R L I T A
UniRef90_A71S9 D N G I L F R G I T N R D L R F E T D M N A L V G Q E K M T K E P L I T A
UniRef90_E1SUL4 L G F K D V L R P K R S T L S S R S Q V D I R R T F Q K H A E G S W T G I
UniRef90_U5QB60 L G F K D V M F R P K R S T L K S R S Q V K L E R T Y R F L N A K C E W E G V
UniRef90_C4LAB3 L G F K D V L F R P K R S T L S S R S Q V E L H R E F R F R H T Q T S W R G V
UniRef90_I6ZUI5 D K R R L I G I T N R D L R F E P N R S L L V I S Q L M T K E N L I T A
UniRef90_R6J8C9 D G K L Q G I T N R D L R F E T N L N K Q I K E C M I G E G L V T A
UniRef90_UPI00029A914A T L E N R K F V G I T N R D L R F I E D H Q Q P P I G S G V M T K E N L I T A
UniRef90_D8JTTO L V G I T N R D V R F A V R V D Q P V S N I M T K E N L V T V
UniRef90_A7C1J2 D N G L L V G I V T S R D L R F E T R Y D N P V S N I M T K E R L V T V
UniRef90_D1BMX8 L V G I T N R D M R F E T D L S R Q I G E C M T K D S L V T A
UniRef90_UPI0003757898 D G K L I G I T N R D I R F E D D F S Q R I E D V M T K H L I T A
UniRef90_Q1JY67 L V G I T N R D L R F E T Q L D Q P V I E N V M T K D K L V T V
UniRef90_D9PN48 L V G I T N R D V R F A T D K K Q P V I E E L M T K N H L V T A
UniRef90_F0KE96 L I G I T N R D I V F E T D Y S K K I S E V M T T T E N L V T A
UniRef90_E1QJJ0 L V G I T N R D L R F E T N L D Q K V S E V M T K D R L V T V
UniRef90_D4L5R6 D G K L V G I T N R D M R F M T D F A Q P I S A V M T H E N L V T A
UniRef90_K2H6W0 L V G I T N R D M R F V E D Y S L R I S E V M T S E D L I T A
UniRef90_UPI0003FE8055 L G F K D V L I R P K R S T L K S R S Q V V I D R K F T F K H T N S Q W E G V
UniRef90_E3CZK2 E R V R L V G I T N R D L R F E T D Y Q Q P I S A V M T R D N L I T A
UniRef90_J9ZDW2 L V G I V T N R D L R F E M D G N R K V S D V M T S R K L V T A
UniRef90_R6UM27 D G K L V G I T N R D M R F L T D Y S G R I S D V M T K D N L V T A
UniRef90_C3XH58 L I G I T N R D I R F E T D F N K L V G E V M T K S P L I T A
UniRef90_C3VXM6 D D G K L I G I T N R D T K Y R K E L D Q P V I S E V M T S K G L I T A
UniRef90_A8ZSF3 L V G L V T N R D L R F E G D L D R K V S E V M T S K L I T V
UniRef90_W6LX11 L G F K D V L I R P K R S T L G S R A Q V K L E R T F R F R H S G R S W T G I
UniRef90_C7RD70 K G M Y L K G I T N R D V R F V E D P N L V I D S I M T K E N L V V G
UniRef90_R7BYP4 L D F K D V L I R P K R S T L I T S R S Q V D I T R E I K F H H T R E V F H A V
UniRef90_W6RSX1 E D G K L I G I T N R D L K F E E N Y N T K I G D V M T K S E L I T A
UniRef90_R5WCG1 L V G I T N R D L K F E K D Y T K K I K E S M T S E N L I T A
UniRef90_R7JQA5 L V G I T N R D L K F E T D F T K K I K E S M T S E N L I T A
UniRef90_D6TLB3 L V G I T N R D M R F E T N V G R P I S E V M T R E N L I T V
UniRef90_C6BSD7 L V G I T N R D V R F I T D R N V P V I S E V M T S R N L V T V
UniRef90_W5WYF8 L Q G L L T N R D L R F E E N F N Q P I K N I M T H E N L V T A
UniRef90_B8D903 L G F K D V L I R P K R S I L K S R S Q V N L A R C F S F K Y S A S I W S G I
UniRef90_A6Q4H9 E D M H L L G I T N R D L R F E K D F S K K V I S E V M T K M P L V T A
UniRef90_E8U789 T A D D G K L L G I T N R D M R F I E D L S V P V V A D V M T K D Q L I T V
UniRef90_UPI00047AD06A L V G I T N R D L R F E T R T D I P I G S E I M T K E N L I T V
UniRef90_I4AL34 L V G I T N R D L R F Q K D L S L Q V S E I M T S K N L I T A
UniRef90_R6QHF2 E D G T L V G I T N R D M R F M T D F N V K I S E V M T K S Q L V T A
UniRef90_K2DW31 L D F K D V L I R P K R S T L R S R V D V D L V R E Y K F L H S G Y K W S G V
UniRef90_T1FNV9 L D F K D V L I Q P A S N K L A S R T E V D L T T E H V F R N S K N K Y E G V
UniRef90_F0RFY9 L I G I V T N R D L R F E K N N D R P I S E V M T S K N L V T V
UniRef90_W7CJK0 E D R I L V G I T N R D M R F I Q D Y S L I I N D V M T K E N L V T A
UniRef90_K2MIV6 L V G I T N R D V R F A S N R S Q P V I S E V M T H E N L V T V
UniRef90_UPI0004572F93 L D F K D V L V R P K R S S L K S R S E E V D L K R T F T F R N S K Q T F T G I
UniRef90_UPI0003487B4B D R K L L G I T N R D L R F Q K N M K V P V S D I M T K E N L I T A
UniRef90_I4CCF3 L K G L L T N R D L R F V E N L D L K V E I V M T K E N L I T A
UniRef90_B3E1W6 L V G L L T N R D L R F E T D Y D L P I S A R M T K R N L V T V
UniRef90_A4G886 L D F K D V L I R P K R S T L T S R F L E V D L R R E F L F H S R Q T Y R G I
UniRef90_A3UJ37 L V G I T N R D V R F A D D M N Q P V S S L M T H E G L V T V
UniRef90_UPI00047BDA08 D D G Q L V G I V T G R D M R F E K K L D P V V K N I M T K D K L V T V

QUERY
UniRef90_UPI0002745A5B
UniRef90_T1L391
UniRef90_U1Y1T1
UniRef90_K7IWB2
UniRef90_A6FA70
UniRef90_E6U7C8
UniRef90_H2LTC9
UniRef90_R7FY24
UniRef90_UPI00041C51DC
UniRef90_UPI00036C4A20
UniRef90_B1GYS8
UniRef90_A0A016SN80
UniRef90_UPI0002FCDDC1
UniRef90_D9QSQ5
UniRef90_O67820
UniRef90_M7N8G7
UniRef90_A8PSE8
UniRef90_L1JM05
UniRef90_R1AU24
UniRef90_UPI0003B6B3A1
UniRef90_UPI00036789D2
UniRef90_UPI0003B3E450
UniRef90_A8ML13
UniRef90_H8Z213
UniRef90_A0RNK5
UniRef90_B9DM03
UniRef90_D9S015
UniRef90_B5E8E4
UniRef90_F6DUS7
UniRef90_F6U1G1
UniRef90_C6PX43
UniRef90_H6LH13
UniRef90_I4BW07
UniRef90_G2LE20
UniRef90_Q8EU79
UniRef90_A6D4V8
UniRef90_S7UC29
UniRef90_UPI00036C70C3
UniRef90_UPI0003FDB3ED
UniRef90_H5S9E5
UniRef90_A71S9
UniRef90_E1SUL4
UniRef90_U5QB60
UniRef90_C4LAB3
UniRef90_I6ZUI5
UniRef90_R6J8C9
UniRef90_UPI00029A914A
UniRef90_D8JTTO
UniRef90_A7C1J2
UniRef90_D1BMX8
UniRef90_UPI0003757898
UniRef90_Q1JY67
UniRef90_D9PN48
UniRef90_F0KE96
UniRef90_E1QJJ0
UniRef90_D4L5R6
UniRef90_K2H6W0
UniRef90_UPI0003FE8055
UniRef90_E3CZK2
UniRef90_J9ZDW2
UniRef90_R6UM27
UniRef90_C3XH58
UniRef90_C3VXM6
UniRef90_A8ZSF3
UniRef90_W6LX11
UniRef90_C7RD70
UniRef90_R7BYP4
UniRef90_W6RSX1
UniRef90_R5WCG1
UniRef90_R7JQA5
UniRef90_D6TLB3
UniRef90_C6BSD7
UniRef90_W5WYF8
UniRef90_B8D903
UniRef90_A6Q4H9
UniRef90_E8U789
UniRef90_UPI00047AD06A
UniRef90_I4AL34
UniRef90_R6QHF2
UniRef90_K2DW31
UniRef90_T1FNV9
UniRef90_F0RFY9
UniRef90_W7CJK0
UniRef90_K2MIV6
UniRef90_UPI0004572F93
UniRef90_UPI0003487B4B
UniRef90_I4CCF3
UniRef90_B3E1W6
UniRef90_A4G886
UniRef90_A3UJ37
UniRef90_UPI00047BDA08

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

QUERY UniRef90_UPI0002745A5B UniRef90_T1L391 UniRef90_U1Y1T1 UniRef90_K7IWB2 UniRef90_A6FA70 UniRef90_E6U7C8 UniRef90_H2LTC9 UniRef90_R7FY24 UniRef90_UPI00041C51DC UniRef90_UPI00036C4A20 UniRef90_B1GYS8 UniRef90_UPI000416SN80 UniRef90_UPI0002FCDDC1 UniRef90_D9QSQ5 UniRef90_O67820 UniRef90_M7N8G7 UniRef90_A8PSE8 UniRef90_L1JM05 UniRef90_R1AU24 UniRef90_UPI0003B6B3A1 UniRef90_UPI00036789D2 UniRef90_UPI0003B3E450 UniRef90_A8ML11 UniRef90_H8Z213 UniRef90_A0RNK5 UniRef90_B9DM03 UniRef90_D9S015 UniRef90_B5E8E4 UniRef90_F6DUS7 UniRef90_F6U1G1 UniRef90_C6PX43 UniRef90_H6LH13 UniRef90_I4BW07 UniRef90_G2LE20 UniRef90_Q8EU79 UniRef90_A6D4V8 UniRef90_S7UC29 UniRef90_UPI00036C70C3 UniRef90_UPI0003FDB3ED UniRef90_H5S9E5 UniRef90_A71S9 UniRef90_E1SUL4 UniRef90_U5QB60 UniRef90_C4LAB3 UniRef90_I6ZUI5 UniRef90_R6J8C9 UniRef90_UPI00029A914A UniRef90_D8JTTO UniRef90_A7C1J2 UniRef90_D1BMX8 UniRef90_UPI0003757898 UniRef90_Q1JY67 UniRef90_D9PN48 UniRef90_F0KE96 UniRef90_E1QJJ0 UniRef90_D4L5R6 UniRef90_K2H6W0 UniRef90_UPI0003FE8055 UniRef90_E3CZK2 UniRef90_J9ZDW2 UniRef90_R6UM27 UniRef90_C3XH58 UniRef90_C3WXM6 UniRef90_A8ZSF3 UniRef90_W6LX11 UniRef90_C7RD70 UniRef90_R7BYP4 UniRef90_W6RSX1 UniRef90_R5WCG1 UniRef90_R7JQA5 UniRef90_D6TLB3 UniRef90_C6BSD7 UniRef90_W5WYF8 UniRef90_B8D903 UniRef90_A6Q4H9 UniRef90_E8U789 UniRef90_UPI00047AD06A UniRef90_I4AL34 UniRef90_R6QHF2 UniRef90_K2DW31 UniRef90_AVYNNP UniRef90_T1FNV9 UniRef90_F0RFY9 UniRef90_W7CJK0 UniRef90_K2MIV6 UniRef90_UPI0004572F93 UniRef90_UPI0003487B4B UniRef90_I4CCF3 UniRef90_B3E1W6 UniRef90_A4G886 UniRef90_A3UJ37 UniRef90_UPI00047BDA08

90 100 110 120

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

QUERY UniRef90_UPI0002745A5B UniRef90_T1L391 UniRef90_U1Y1T1 UniRef90_K7IWB2 UniRef90_A6FA70 UniRef90_E6U7C8 UniRef90_H2LTC9 UniRef90_R7FY24 UniRef90_UPI00041C51DC UniRef90_UPI00036C4A20 UniRef90_B1GYS8 UniRef90_A0A016SN80 UniRef90_UPI0002FCDDC1 UniRef90_D9QSQ5 UniRef90_O67820 UniRef90_M7N8G7 UniRef90_A8PSE8 UniRef90_L1JM05 UniRef90_R1AU24 UniRef90_UPI0003B6B3A1 UniRef90_UPI00036789D2 UniRef90_UPI0003B3E450 UniRef90_A8MLL1 UniRef90_H8Z2I3 UniRef90_A0RKN5 UniRef90_B9DM03 UniRef90_D9S0I5 UniRef90_B5E8E4 UniRef90_F6DUS7 UniRef90_F6U1G1 UniRef90_C6PX43 UniRef90_H6LH13 UniRef90_I4BW07 UniRef90_G2LE20 UniRef90_Q8EU79 UniRef90_A6D4V8 UniRef90_S7UC29 UniRef90_UPI00036C70C3 UniRef90_UPI0003FDB3ED UniRef90_H5S9E5 UniRef90_A7I1S9 UniRef90_E1SUL4 UniRef90_U5QB60 UniRef90_C4LAB3 UniRef90_I6ZUI5 UniRef90_R6J8C9 UniRef90_UPI00029A914A UniRef90_D8JTTO UniRef90_A7C1J2 UniRef90_D1BMX8 UniRef90_UPI0003757898 UniRef90_Q1JY67 UniRef90_D9PN48 UniRef90_F0KE96 UniRef90_E1QJJ0 UniRef90_D4L5R6 UniRef90_K2H6W0 UniRef90_UPI0003FE8055 UniRef90_E3CZK2 UniRef90_J9ZDW2 UniRef90_R6UM27 UniRef90_C3XH58 UniRef90_C3VXM6 UniRef90_A8ZSF3 UniRef90_W6LX11 UniRef90_C7RD70 UniRef90_R7BYP4 UniRef90_W6RSX1 UniRef90_R5WCG1 UniRef90_R7JQA5 UniRef90_D6TLB3 UniRef90_C6BSD7 UniRef90_W5WYF8 UniRef90_B8D903 UniRef90_A6Q4H9 UniRef90_E8U789 UniRef90_UPI00047AD06A UniRef90_I4AL34 UniRef90_R6QHF2 UniRef90_K2DW31 UniRef90_T1FNV9 UniRef90_F0RFY9 UniRef90_W7CJK0 UniRef90_K2MIV6 UniRef90_UPI0004572F93 UniRef90_UPI0003487B4B UniRef90_I4CCF3 UniRef90_B3E1W6 UniRef90_A4G886 UniRef90_A3UJ37 UniRef90_UPI00047BDA08

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

QUERY UniRef90_UPI0002745A5B UniRef90_T1L391 UniRef90_U1Y1T1 UniRef90_K7IWB2 UniRef90_A6FA70 UniRef90_E6U7C8 UniRef90_H2LTC9 UniRef90_R7FY24 UniRef90_UPI00041C51DC UniRef90_UPI00036C4A20 UniRef90_B1GYS8 UniRef90_A0A016SN80 UniRef90_UPI0002FCDDC1 UniRef90_D9QSQ5 UniRef90_O67820 UniRef90_M7N8G7 UniRef90_A8PSE8 UniRef90_L1JM05 UniRef90_R1AU24 UniRef90_UPI0003B6B3A1 UniRef90_UPI00036789D2 UniRef90_UPI0003B3E450 UniRef90_A8MLL1 UniRef90_H8Z213 UniRef90_A0RNK5 UniRef90_B9DM03 UniRef90_D9S015 UniRef90_B5E8E4 UniRef90_F6DUS7 UniRef90_F6U1G1 UniRef90_C6PX43 UniRef90_H6LH13 UniRef90_I4BW07 UniRef90_G2LE20 UniRef90_Q8EU79 UniRef90_A6D4V8 UniRef90_S7UC29 UniRef90_UPI00036C70C3 UniRef90_UPI0003FDB3ED UniRef90_H5S9E5 UniRef90_A71S9 UniRef90_E1SUL4 UniRef90_U5QB60 UniRef90_C4LAB3 UniRef90_I6ZUI5 UniRef90_R6J8C9 UniRef90_UPI00029A914A UniRef90_D8JTTO UniRef90_A7C1J2 UniRef90_D1BMX8 UniRef90_UPI0003757898 UniRef90_Q1JY67 UniRef90_D9PN48 UniRef90_F0KE96 UniRef90_E1QJJ0 UniRef90_D4L5R6 UniRef90_K2H6W0 UniRef90_UPI0003FE8055 UniRef90_E3CZK2 UniRef90_J9ZDW2 UniRef90_R6UM27 UniRef90_C3XH58 UniRef90_C3VXM6 UniRef90_A8ZSF3 UniRef90_W6LX11 UniRef90_C7RD70 UniRef90_R7BYP4 UniRef90_W6RSX1 UniRef90_R5WCG1 UniRef90_R7JQA5 UniRef90_D6TLB3 UniRef90_C6BSD7 UniRef90_W5WYF8 UniRef90_B8D903 UniRef90_A6Q4H9 UniRef90_E8U789 UniRef90_UPI00047AD06A UniRef90_I4AL34 UniRef90_R6QHF2 UniRef90_K2DW31 UniRef90_UPI00031FNV9 UniRef90_F0RFY9 UniRef90_W7CJK0 UniRef90_K2MIV6 UniRef90_UPI0004572F93 UniRef90_UPI0003487B4B UniRef90_I4CCF3 UniRef90_B3E1W6 UniRef90_A4G886 UniRef90_A3UJ37 UniRef90_UPI00047BDA08

210 220 230 240

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

QUERY UniRef90_UPI0002745A5B UniRef90_T1L391 UniRef90_U1Y1T1 UniRef90_K7IWB2 UniRef90_A6FA70 UniRef90_E6U7C8 UniRef90_H2LTC9 UniRef90_R7FY24 UniRef90_UPI00041C51DC UniRef90_UPI00036C4A20 UniRef90_B1GYS8 UniRef90_A0A016SN80 UniRef90_UPI0002FCDDC1 UniRef90_D9QSQ5 UniRef90_O67820 UniRef90_M7N8G7 UniRef90_A8PSE8 UniRef90_L1JM05 UniRef90_R1AU24 UniRef90_UPI0003B6B3A1 UniRef90_UPI00036789D2 UniRef90_UPI0003B3E450 UniRef90_A8MLL1 UniRef90_H8Z2I3 UniRef90_A0RKNK5 UniRef90_B9DM03 UniRef90_D9S0I5 UniRef90_B5E8E4 UniRef90_F6DUS7 UniRef90_F6U1G1 UniRef90_C6PX43 UniRef90_H6LH13 UniRef90_I4BW07 UniRef90_G2LE20 UniRef90_Q8EU79 UniRef90_A6D4V8 UniRef90_S7UC29 UniRef90_UPI00036C70C3 UniRef90_UPI0003FDB3ED UniRef90_H5S9E5 UniRef90_A7I1S9 UniRef90_E1SUL4 UniRef90_U5QB60 UniRef90_C4LAB3 UniRef90_I6ZUI5 UniRef90_R6J8C9 UniRef90_UPI00029A914A UniRef90_D8JTTO UniRef90_A7C1J2 UniRef90_D1BMX8 UniRef90_UPI0003757898 UniRef90_Q1JY67 UniRef90_D9PN48 UniRef90_F0KE96 UniRef90_E1QJJ0 UniRef90_D4L5R6 UniRef90_K2H6W0 UniRef90_UPI0003FE8055 UniRef90_E3CZK2 UniRef90_J9ZDW2 UniRef90_R6UM27 UniRef90_C3XH58 UniRef90_C3VXM6 UniRef90_A8ZSF3 UniRef90_W6LX11 UniRef90_C7RD70 UniRef90_R7BYP4 UniRef90_W6RSX1 UniRef90_R5WCG1 UniRef90_R7JQA5 UniRef90_D6TLB3 UniRef90_C6BSD7 UniRef90_W5WYF8 UniRef90_B8D903 UniRef90_A6Q4H9 UniRef90_E8U789 UniRef90_UPI00047AD06A UniRef90_I4AL34 UniRef90_R6QHF2 UniRef90_K2DW31 UniRef90_T1FNV9 UniRef90_F0RFY9 UniRef90_W7CJK0 UniRef90_K2MIV6 UniRef90_UPI0004572F93 UniRef90_UPI0003487B4B UniRef90_I4CCF3 UniRef90_B3E1W6 UniRef90_A4G886 UniRef90_A3UJ37 UniRef90_UPI00047BDA08

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

QUERY
 UniRef90_UPI0002745A5B
 UniRef90_T1L391
 UniRef90_U1Y1T1
 UniRef90_K7IWB2
 UniRef90_A6FA70
 UniRef90_E6U7C8
 UniRef90_H2LTC9
 UniRef90_R7FY24
 UniRef90_UPI00041C51DC
 UniRef90_UPI00036C4A20
 UniRef90_B1GYS8
 UniRef90_A0A016SN80
 UniRef90_UPI0002FCDDC1
 UniRef90_D9QSQ5
 UniRef90_O67820
 UniRef90_M7N8G7
 UniRef90_A8PSE8
 UniRef90_L1JM05
 UniRef90_R1AU24
 UniRef90_UPI0003B6B3A1
 UniRef90_UPI00036789D2
 UniRef90_UPI0003B3E450
 UniRef90_A8ML11
 UniRef90_H8Z213
 UniRef90_A0RNK5
 UniRef90_B9DM03
 UniRef90_D9S015
 UniRef90_B5E8E4
 UniRef90_F6DUS7
 UniRef90_F6U1G1
 UniRef90_C6PX43
 UniRef90_H6LH13
 UniRef90_I4BW07
 UniRef90_G2LE20
 UniRef90_Q8EU79
 UniRef90_A6D4V8
 UniRef90_S7UC29
 UniRef90_UPI00036C70C3
 UniRef90_UPI0003FDB3ED
 UniRef90_H5S9E5
 UniRef90_A7I1S9
 UniRef90_E1SUL4
 UniRef90_U5QB60
 UniRef90_C4LAB3
 UniRef90_I6ZUI5
 UniRef90_R6J8C9
 UniRef90_UPI00029A914A
 UniRef90_D8JTTO
 UniRef90_A7C1J2
 UniRef90_D1BMX8
 UniRef90_UPI0003757898
 UniRef90_Q1JY67
 UniRef90_D9PN48
 UniRef90_F0KE96
 UniRef90_E1QJJO
 UniRef90_D4L5R6
 UniRef90_K2H6W0
 UniRef90_UPI0003FE8055
 UniRef90_E3CZK2
 UniRef90_J9ZDW2
 UniRef90_R6UM27
 UniRef90_C3XH58
 UniRef90_C3VXM6
 UniRef90_A8ZSF3
 UniRef90_W6LX11
 UniRef90_C7RD70
 UniRef90_R7BYP4
 UniRef90_W6RSX1
 UniRef90_R5WCG1
 UniRef90_R7JQA5
 UniRef90_D6TLB3
 UniRef90_C6BSD7
 UniRef90_W5WYF8
 UniRef90_B8D903
 UniRef90_A6Q4H9
 UniRef90_E8U789
 UniRef90_UPI00047AD06A
 UniRef90_I4AL34
 UniRef90_R6QHF2
 UniRef90_K2DW31
 UniRef90_T1FNV9
 UniRef90_F0RFY9
 UniRef90_W7CJK0
 UniRef90_K2MIV6
 UniRef90_UPI0004572F93
 UniRef90_UPI0003487B4B
 UniRef90_I4CCF3
 UniRef90_B3E1W6
 UniRef90_A4G886
 UniRef90_A3UJ37
 UniRef90_UPI00047BDA08

```

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

```


QUERY	R R T T F I R V
UniRef90_UPI0002745A5B	R R A T F I R V
UniRef90_T1L391	R R T T F I R V
UniRef90_U1Y1T1	N N A Q F I R L
UniRef90_K7IWB2	K R A T F I R V
UniRef90_A6FA70	K R T T F I R V
UniRef90_E6U7C8	A N S Q F V R I
UniRef90_H2LTC9	R R T T F I R V
UniRef90_R7FY24	Q R G Q F I R I
UniRef90_UPI00041C51DC	E N G Q F I R I
UniRef90_UPI00036C4A20	N D T Y F V R I
UniRef90_B1GYS8	E K G Q F V K I
UniRef90_A0A016SN80	K R T T F I R V
UniRef90_UPI0002FCDDC1	E Q A Q F V R M
UniRef90_D9QSQ5	E E G K F T R I
UniRef90_O67820	E K A K F V R L
UniRef90_M7N8G7	E E S Q L I R M
UniRef90_A8PSE8	K R A T F V R V
UniRef90_L1JM05	K R T T F I R V
UniRef90_R1AU24	E K A Q F I K I
UniRef90_UPI0003B6B3A1	K K A R F V K I
UniRef90_UPI00036789D2	T E T K F I R I
UniRef90_UPI0003B3E450	K K A K F I K I
UniRef90_A8ML11	E N G K F I R I
UniRef90_H8Z2I3	K R T T F I R V
UniRef90_A0RNK5	E R A E F V E L
UniRef90_B9DM03	E E A M F T R M
UniRef90_D9S0I5	K K A K F I R I
UniRef90_B5E8E4	K R T T F I R V
UniRef90_F6DUS7	V K G Q F I R I
UniRef90_F6U1G1	R R T T F I R V
UniRef90_C6PX43	E N A T F V
UniRef90_H6LHI3	E K S Q F V K I
UniRef90_I4BW07	E N A R F V K I
UniRef90_G2LE20	T N A R F V K I
UniRef90_Q8EU79	N D G K F I R I
UniRef90_A6D4V8	K R T T F I R V
UniRef90_S7UC29	Q K A R F V R L
UniRef90_UPI00036C70C3	D N A Q F I E M
UniRef90_UPI0003FDB3ED	E N G Q F V K I
UniRef90_H5S9E5	E K A R F I R I
UniRef90_A7I1S9	D K A E F V E I
UniRef90_E1SUL4	K R T T F I R V
UniRef90_U5QB60	K R T T F I R V
UniRef90_C4LAB3	K R T T F I R V
UniRef90_I6ZUI5	N K T K F V K L
UniRef90_R6J8C9	T K T Q F I R M
UniRef90_UPI00029A914A	D N S Q F V R I
UniRef90_D8JTT0	K R A K F V R I
UniRef90_A7C1J2	T K P Q F I R I
UniRef90_D1BMX8	E N T Q F I Q I
UniRef90_UPI0003757898	K K A R F I K I
UniRef90_Q1JY67	Q N A H F I R I
UniRef90_D9PN48	E N C Q F V K L
UniRef90_F0KE96	E K A T F V
UniRef90_E1QJJ0	K R A E F V R I
UniRef90_D4L5R6	E K A R F V Q I
UniRef90_K2H6W0	N D A Y F T R I
UniRef90_UPI0003FE8055	K R T T F I R V
UniRef90_E3CZK2	T E S R F V R I
UniRef90_J9ZDW2	E K A R F V R I
UniRef90_R6UM27	K N G R F I R I
UniRef90_C3XH58	E N A R I V E I
UniRef90_C3WXM6	I N G K F V K I
UniRef90_A8ZSF3	E R G R F V K I
UniRef90_W6LX11	K R T T F V R V
UniRef90_C7RD70	E K A Q F I K I
UniRef90_R7BYP4	M R T T F V R V
UniRef90_W6RSX1	E N A T M V
UniRef90_R5WCG1	E K A E F V K I
UniRef90_R7JQA5	E T G K F V K I
UniRef90_D6TLB3	E K T R F V R L
UniRef90_C6BSD7	E K A Q F T R M
UniRef90_W5WYF8	S K A K Y V R I
UniRef90_B8D903	K R T T F I R V
UniRef90_A6Q4H9	E R A E F V E I
UniRef90_E8U789	E H A Q F V R I
UniRef90_UPI00047AD06A	T K S R F V R I
UniRef90_I4AL34	K A Q F V K I
UniRef90_R6QHF2	N N A K F I K I
UniRef90_K2DW31	K C A T F I R V
UniRef90_T1FNV9	K H T T F I R V
UniRef90_F0RFY9	E K G K F V K L
UniRef90_W7CJK0	E N A Q F V K M
UniRef90_K2MIV6	E R A Q F V R I
UniRef90_UPI0004572F93	R R T T F I R V
UniRef90_UPI0003487B4B	K A K F V K I
UniRef90_I4CCF3	A K A R F L R I
UniRef90_B3E1W6	D N G R F I R I
UniRef90_A4G886	K R T T F I R V
UniRef90_A3UJ37	Q K A E F V R I
UniRef90_UPI00047BDA08	K K P Q F V K I

UniRef90_L2F5S4
UniRef90_K0A8R8
UniRef90_M1GGEO
UniRef90_C7NBM7
UniRef90_UPI0003775EE6
UniRef90_R8AT62
UniRef90_L8IEK9
UniRef90_T0T4X2
UniRef90_M5JAH1
UniRef90_S0G0X4
UniRef90_R7IQE2
UniRef90_F5S9M6
UniRef90_B3QFD6
UniRef90_G9ERD5
UniRef90_F9VK03
UniRef90_W6LQ78
UniRef90_U2KQY1
UniRef90_B8J1U4
UniRef90_UPI00037F3839
UniRef90_UPI00047D4A11
UniRef90_UPI000369FFAC
UniRef90_UPI00035DDEAD
UniRef90_C6XK57
UniRef90_UPI00036B3569
UniRef90_Q31F65
UniRef90_E7D1B3
UniRef90_UPI00047E0E56
UniRef90_E0MIW2
UniRef90_UPI00036E3F20
UniRef90_C6XUF7
UniRef90_B4S8R6
UniRef90_W3ARG7
UniRef90_E4NV66
UniRef90_A8PN64
UniRef90_G5H9I6
UniRef90_A0A024K8D9
UniRef90_C7J142
UniRef90_UPI00029A57B7
UniRef90_B0VYF5
UniRef90_G0IUN9
UniRef90_X5MP34
UniRef90_B8ERA9
UniRef90_UPI0003708971
UniRef90_H8L6R6
UniRef90_A0LRT0
UniRef90_F8GG21
UniRef90_C5BLU4
UniRef90_G5GGH9
UniRef90_UPI0003B3B4D8
UniRef90_E8RS27
UniRef90_F8AUY1
UniRef90_G2KQP8
UniRef90_B3T6J2
UniRef90_B9KHK2
UniRef90_W9HDG9
UniRef90_H5SK63
UniRef90_UPI0004784899
UniRef90_A0LC13
UniRef90_H5T7Y1
UniRef90_UPI00036720CD
UniRef90_C4UGE7
UniRef90_UPI0003B3152B
UniRef90_D5BQK8
UniRef90_I3QH11
UniRef90_Q5NYE4
UniRef90_K6WB31
UniRef90_UPI0003B59845
UniRef90_K6YV61
UniRef90_L0IGH5
UniRef90_Q2S2G2
UniRef90_A3ZQ73
UniRef90_D4IL45
UniRef90_Q0FY06
UniRef90_UPI000367D253
UniRef90_G2J7N6
UniRef90_Q38YF0
UniRef90_UPI00045DA08A
UniRef90_D2PSX7
UniRef90_G2DH95
UniRef90_I1DUP7
UniRef90_K4IR55
UniRef90_UPI0003C1AE6
UniRef90_UPI00022CAA6B
UniRef90_Q0C185
UniRef90_R7WJR4
UniRef90_UPI0003F1AEC6
UniRef90_M1FDV3
UniRef90_J4KSM4
UniRef90_D2R4W3
UniRef90_D4YLN2
UniRef90_V7HTM4
UniRef90_UPI0003FD67AF

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

UniRef90_L2F5S4 R E G E S T E N I L K R L L H E H R I E D D D G R L K G L I N D F S K A E N N P N
UniRef90_K0A8R8 K V G T S L E E A K Q L L H K H R I E D E N G V L K G L I T T M K D I E K V E Q Y
UniRef90_M1GGEO P V G T T L D E A K S H H L H M H R I E K L L G Q L A G L I T T M K D I D N I Q K Y
UniRef90_C7NBM7 P V G T T L D E A K S H L L E N R I E K E G T K L K G L I T I K D I I K N V I N Y
UniRef90_UPI0003775EE6 R Q T T A E I L L Q Q Y K I E K L P V V D S N N K L V G L I T Y K D I T K D K P F
UniRef90_R8AT62 P I I A A N M D T V G T F E I A A A L A G F E M L T A V H K H Y T T E D W A A F
UniRef90_L8IEK9 P I I V A N M D T V G T F G M A V V M S Q H S M F T A I H K H Y T L D Q W K L F
UniRef90_T0T4X2 P I V N D S G E L L G L I T I K D I L S K T I D F P N
UniRef90_M5JAH1 P V L S A A M D T V T E A R L A I R M A Q L G G M G V I H K N M L T I E Q Q I A E
UniRef90_S0G0X4 L E E S K A I M L H K H R I E K L L V V D S Q G K L K G L I T I K D I E K I K K Y
UniRef90_R7IQE2 K Q G A K A I L L A K S R K E K L P I V D D N F N L K G L I T I K D I E K Q I K Y
UniRef90_F5S9M6 S V G T S L E E A R E L M H Q H K I L N E K D E L K G L I T V K D I I K N T E F
UniRef90_B3QFD6 R E G V S Q G E A K K L L H Q H R I E K L L V V D D Q Y R C D M E K A V A H P L
UniRef90_G9ERD5 K E G A G R E E V R S L L H K H R I E K L L V V N K A F E L C G Q K A K E N P Y
UniRef90_F9VK03 P L M S A S M D T V T E S K M A I A M A V H G G I G I L H K N M S T K D Q S G K
UniRef90_W6LQ78 R E G A S R E E I V T L L H K H R I E K D R F Q L R G M V T V K D I I Q K S S D F
UniRef90_U2KQY1 H Q Q T A Q I L L Q E N K I E K L P V V D K D N H L V G L I T Y K D I T K D K P M
UniRef90_B8J1U4 P M G T S L A E A K Q H L H E H R I V D E E G H L R G L I T M K D I D K V Q K Y
UniRef90_UPI00037F3839 P L G T S Q D E A R R L L H A R R I E K L L V V D G D Y R C V G L I T V K D M E
UniRef90_UPI00047D4A11 Q K G T S N I L L Q E Y K I E K L P I V D D N N K L T G L V T Y K D K R K S H P N
UniRef90_UPI000369FFAC K E G A S L E E A K A L M H K H K V V N D A F E L R G L M T V K D I T K Q T N F
UniRef90_UPI00035DDEAD E E G A D K E E V L S L L H K H R I E K L L V V N D D F H L R G M K S R D Y P N
UniRef90_C6XK57 R E G V S Q D D A R R L L H Q H I V V D D K E R C V G T V K D M E K A A S N P N
UniRef90_UPI00036B3569 L E E G V T L E E A Q A L M H Q H R L E A F E L R G L A T V K D I Y K S T E N P N
UniRef90_Q31F65 K E K V K R E E V L E L L H Q H R V V D D N F K L K G M I T V K D K S E H P Y
UniRef90_E7D1B3 P I I S S N M D T T G T F E I A A V L A K H G L F T C I H K H Y S L D Q W K E F
UniRef90_UPI00047E0E56 Q E G A E E I L L Q Q K K I E K L P I V N K Q H K L V G L I T Y K D K R R S D M P N
UniRef90_E0MIW2 R E G V S Q E D A K K L L H Q H R I V D K K G N C T G L I T V K D M E N S K L N
UniRef90_UPI00036E3F20 A T G I E M E A K H L L H K H R I V S E K F E L V G L I T I K D I E K A H K F
UniRef90_C6XUF7 P E G T E E I L L Q D Y K I E K L P I V D A N G H L A G L I T F K D I Q K Y K N Y
UniRef90_B4S8R6 L E D A E E I L L S N K I E K L L I T D N D G N L K G L I T F K D I Q K R K Q Y
UniRef90_W3ARG7 K E G T T V E E A K Q L L A R A P I V D D E G N L K G L I T I K D I E K Q M K Y
UniRef90_E4NV66 P L V S A A M D T V T E D E M G I E L S R E G G F G V I H R F L D P E Q Q A A Q
UniRef90_A8PN64 P I A S N M D H T G T F E M T E S L A K H Q L L T A I G K F A C L E Q D W E N F
UniRef90_G5H9I6 P D L A S D I L L Q N K I E K L P V V D D K G R L I G L I T Y K D K V Q A N P N
UniRef90_A0A024K8D9 R D G V S K D D A K R L L H A H R I V D E A G R C V G L I T V K D I E K A Q L N
UniRef90_C7J142 K N G V D A D T A R Q L L H K H R I E K L L V V D D A D R C V G L I T V K D M D
UniRef90_UPI00029A57B7 N Q T T D L E K A V H K I E K L P V V D N N N K L T G L V T Y K D I T K A K D K
UniRef90_B0Vfy5 K T G L S L D K A J E L L K K H R L E K E E G K L E G M I T V K D L M K R L N Y
UniRef90_G0IUN9 K A G A E V L L Q E Y K I E K L P I V D E D Y K L T G L I T Y K D K R R D K P H
UniRef90_X5MP34 E N V A K R L L H Q H R I E K L V V D D A Y C C T G L I T V K D K A K L H P N
UniRef90_B8EA9 R E G V S Q D E A R R L L H Q H R L E K L V V V D D D F R C D M E K A T L H P L
UniRef90_UPI0003708971 P I I A S N M D G V G E L N V A K S L A E F N I M T A L T K Q H D L N Q I N N F
UniRef90_H8L6R6 R E G A S H E E I Q Q L L H Q H R I E K V L V V D D G F V K D M Q K A R D N P F
UniRef90_A0LRT0 P V G V D D T T A L E L L R R L P L I D D N G V L R G L I T V K D F T K R D Q F
UniRef90_F8GG21 K E D T S R E E V L A L L H K H R V V D D Q F E L C G L I T V K D I I K T S E Y
UniRef90_C5BLU4 K E G A D P T E V K A L L H K N R I E K D N F D L R G L I T V K D M N K A E T F
UniRef90_G5GGH9 L E G T T M E E A K R L L A K A P I V N E K G E L K G L I T I K D I E K Q S E K Y
UniRef90_UPI0003B3B4D8 R V G M N P D E A E H K V E K L P L V D D D G H L T G L I T V K D F K S E Q Y
UniRef90_E8RS27 T E G A R E L M A L H R I E R I I V V D D A Y R A V G L I T V K D M E K A Q A Y
UniRef90_F8AUy1 P V G V S A D D A V H K I E K L P L V D D R G R L R G L I T V K D F T K R E Q Y
UniRef90_G2KQP8 P V I A A N M D G V G T M A M A R A F H V Q G D G L T V A L H K H Y A L D Q L V
UniRef90_B3T6J2 P L I T G H D D A K R L L H K Y R T I E K L L V V D D G D F R C V G E K A Q A H P D
UniRef90_B9KHK2 S E G I T S Q S E A T R L L H K H R I E D E H G C C L G L I T V K D I E R F N R F
UniRef90_W9HDG9 R E G V D S A E A K R L L H Q Y R I E K L L V V D D A Y R C I G E K A Q L H P N
UniRef90_H5SK63 P E G T G L D E A K H K V E K L P I V D G A G R L V G L I T Y K D I L R R T Y
UniRef90_UPI0004784899 H E G V S Q E E A K R L L H A H R I E K L L V V D D D Y R C V G E K A V A N P N
UniRef90_A0LC13 P Q G V D M G E T V K H L F H H R I V D D Q Y K L T G L I T V K D I N H A H P M
UniRef90_H5T7Y1 T A E V S P M E L M H Q Y R I E K I L V V D E S F K I T V K D F Q K A K S K P N
UniRef90_UPI00036720CD P L G T S L E E A E K L F H K H K I V D E Y F Q L K G L I T Y K D K R I Q Y P Y
UniRef90_C4UGE7 K E G A R D M E A K R V E K V L V V D D N N F H L R G M I T V K Q K A E R K P N
UniRef90_UPI0003B3152B P L G T S L E E A E K L F H K H K I V D E N Y F L K G L I T Y K D V L K R I Q Y
UniRef90_D5BQK8 R D G A A P D E A R R L L H E H R I E K L L C L G L I T V K D M E K A Q N H P L
UniRef90_I3QH11 L E E A K N I L L K E R I E K L P V D N Y N K L V G L I T I R D I N L I E Y
UniRef90_Q5NYE4 K E G D S L E E A R R L M H K H R L D A A E L R G L I T V K D M M K S T E H P L
UniRef90_K6WB31 S V G V A K E D A R N K I E K L P V D D Q G R L K G L E T V K D F T K T E Q Y
UniRef90_UPI0003B59845 S P G T S G E E A M R L R E H K I V D G D G R L A G L I T L K D F T K T E K Y
UniRef90_K6YV61 P E G A S S D E V L E L M H E H R V E K I L V V D D A F K L K G M I T V K D F N
UniRef90_L0IGH5 P L L S A P M D T V T E A E T A I A M D E A G G M G T I H R F L T I E E Q A A E
UniRef90_Q2S2G2 P V G T T L D E A I H K A V E K L P V V D E E G Y L K G L I T F K R K R H P N
UniRef90_A3ZQ73 L A E A E Q I L T A K K V E K L L V D E E Y K L T G L I T I K D I D M M N R F
UniRef90_D4IL45 P V V D D A G R L V G L I T Y K D I T K V Q D H P N A
UniRef90_Q0FY06 N E S V T Q K E A K R L L H Q H R I E K L V V V D E N Q N C I G E K A Q L H P H
UniRef90_UPI000367D253 R D G V S Q A E A K R L L H Q H R I E K L V V V D E N Q N C I G E K A Q L H P H
UniRef90_G2J7N6 P E G A P L A Q A K A L M H R H R L D A F E L R G L I T V K D I L K A T E H P D
UniRef90_Q38YF0 P V V P A N M Q T I L D E P L A I W L A E N H Y F Y V M H R F Q P E K R P A F
UniRef90_UPI00045DA08A P I I A A N M D T V G T F E M A K V L C K F S L F T A V H K H Y S L D Q W Q E F
UniRef90_D2PSX7 K Q G L S A D D A K H K V E K L P I V D E A G K L T G L I T L K D I F V K R D Q F
UniRef90_G2DH95 N E G A D R D E V L Q L L H K Y R I E K V L V V N G E F K L R G M I T K D N P N
UniRef90_I1DUP7 L E S A P R E E A F K M H Q H R I E K V L V V D N D F K L K G L I T V R D Y Y
UniRef90_K4IR55 P E D A H Q L L A K A Y K V E K L P V D S E G K L T G L I T V K D F V K T E Q Y
UniRef90_UPI0003C1AE6 R E G T S Q D E A R A L V Q H R I E K A Y R A V G L I T V K D M E K A Q A H P L
UniRef90_UPI00022CAA6B H E G E K R E T V L K S M H E H R I E K V L V V D K K F H L K G M I T V R D F H
UniRef90_Q0C185 V V T A Q M D M K H R I E R L V I V D H D G R C L G T V K D M K A A V H P H
UniRef90_R7WJR4 Q E V T A E V A L R H K I E K L P I V D G S G K L T G L I T V K D K T E Q H P D
UniRef90_UPI0003F1AEC6 F T A V H K H Y S L E Q W K D F
UniRef90_M1FDV3 K E G A D L E S V K E L L H R H R I E K D N F Q L R G L V T A K D I Q K S K D Y
UniRef90_J4KSM4 S E G A S Q D E V K K L M Y E N R I L D G K G C L S G L V T M K D I D K S A E H
UniRef90_D2R4W3 L E Q A E K I L T A K K V E K L L V D D S Y C L T G M I T I R D I D M M K R F
UniRef90_D4YLN2 P V G V S S E E A H K I E K L P L V D D N N V I R G L I T V K D F V K S E E Y
UniRef90_V7HTM4 P V V P A N M Q T I D E K L A I W M A Q N D Y F Y I M H R F D E D D R S F D F
UniRef90_UPI0003FD67AF T D V E H L M H E H R I E K M L V V D D S F K L T G I T V K D F K K A E R K P N

UniRef90_L2F5S4 A C K D D K G R L R V G A A V I G V T G A D T E A R V E A L V V G A G V D V I V I V V
UniRef90_K0A8R8 P A K D D P F G R R L L R V A A A V I G V T G S D D A S V R A K E A L L V V D A G V D D L V L V L V
UniRef90_M1GGEO P N K D D D K G R R L L C V G A G A V I G V G T G K D D A S V R A K E A L L V V D A G V D D L V L V L V
UniRef90_C7NBM7 P N K D D E Q G R R L R V A A G I G V T H D S D I E R R A T A L L I E A G V D D A I V I V I V
UniRef90_UPI0003775EE6 A C K D E Q G R R L R V A A G I G V T H D S D I E R R A T A L L I E A G V D D A I V I V I V
UniRef90_R8AT62 V A A N Q P A E C L K Y V M V S S G S G D Q D D F I K L Q S N E V L L A L S E A L V N K F I C C L
UniRef90_L8IEK9 A A A H P E C L Q H V A V S S G S G S K D D L L E K M S N E V L L A L S E A L V N K F I C C L
UniRef90_T0T4X2 S N K D Q Y G R R L R C A A A I G V G D K E F Y R A Q L L V D A G V D D A I V I V I V
UniRef90_M5JAH1 I N K K D E S N G R R L L V A G A A G I G V T S D D T K R R I A S L V E A G A G V D D A I V I V I V
UniRef90_S0G0X4 P N K D D S Y G R R L R A G A A V I G V T G S D D M M T R V E A L L I S A K V D V D A I V I V I V
UniRef90_R7IQE2 P A K D A Q G R R L L C G A A A I G V T I K N I M E R T E A L V K A K V D V D A I V I V I V
UniRef90_F5S9M6 P N K D D E Q G R R L R V A A A T T V G G E G T E E R V K A L L I A A G V D D V I V I V I V
UniRef90_B3QFD6 A S K D A D E G R R L R V A A A T T V G G E G T E E R T E R L I E A G V D D V I V I V I V
UniRef90_G9ERD5 A C K D D S E Q L R V G A A V I G V T G E S T D E R V A E A L V D A G V D D V I V I V I V
UniRef90_F9VK03 S S L D S D K G R L L C G A A V I G V T G G D M I D R V K E A L L V N A N K E V D D I V I V I V
UniRef90_W6LQ78 P C K D E W G R R L R A G A A V I G V T G G D T E D R V T A L V N A G V D D V I V I V I V
UniRef90_U2KQY1 A C K D E K G R R L R V A A G V I G V T A D D T M E R A K A L L V E A G V D D A I V I V I V
UniRef90_B8J1U4 P N K D D S A G R R L R V A A A I G V T I G K D C E A R A E Q L L I E A G A E V D L V L V I V
UniRef90_UPI00037F3839 K A K D A A G R R L R V A A A T T V I G G D K G F E R T E A L L I D A G A E V C D L I V I V I
UniRef90_UPI00047D4A11 A S K D S L G R R L R V G A A V I G V T Y D L L E R V Q A L L V Q V D V I V I S I
UniRef90_UPI000369FFAC P N A D S Q G R R L R V G A A V I G V T G E G T E E R V E L L V K A G V D D V I V I V I V
UniRef90_UPI00035DDEAD A C K D E Q G R R L R V G A A V I G V G H G T E D R V A A L L A E A E V D D V I V I V I V
UniRef90_C6XK57 A A K D S Q G R R L L V G A A T G V G G E D G F A R A E A L I A A G V D D V I V I V I V
UniRef90_UPI00036B3569 A C K D E L G Q L R V G A A V I G V T G E G T E E R V I E K L V A A G V D D V I V I V I V
UniRef90_Q31F65 A A K D S N G R R L R V G A A V I G V T G V E T Y D R V A A L V K A G V D D V I V I V I V
UniRef90_E7D1B3 A A S N P N A L K N V A V S I G T S P S D F E N L C A I L K A I P E I D C I C L
UniRef90_UPI00047E0E56 A C K D E Y G R R L R V G A A V I G V T I T A D V I E R V Q A L R K S G V D D L V I S I
UniRef90_E0MIW2 P S K D A A G S R L R V G A A T T V I G P D G M E R A E R L I A A G V D D L V I V I V I V
UniRef90_UPI00036E3F20 P N K D D L G R R L R V G A A L G T S S D L L S R A D K L I K A G V D D V V V I V I V
UniRef90_C6XUF7 P C K D E R G R R L R V G A A V I G V T A A D N I D R V A A L V Q A G V D D V I V I V I V
UniRef90_B4S8R6 P N K D E Q G R R L C V G A A V I G V I A S A N T L T R V Q A L V D A G V D V I V I V I V
UniRef90_W3ARG7 P N K D S Q G R R L L C G A A L G I T A N V V D R A A E L V K A H V D V D A V I V I V I V
UniRef90_E4NV66 V S R A V T T A G Q S V G A I G I N E D F V E R S T A L V E A G V D D A I V I V I V
UniRef90_A8PN64 S S Q H A K S I P Y C F P T I G I K E E D I Q L A N I K I A A C P F I C I
UniRef90_G5H9I6 A C K D A K G R L R V A A G V I G V T H D T M E R V A A L Y E A N V D A I V I V I V
UniRef90_A0A024K8D9 P N A V K D A Q G R R L R V A A A S G V G D D A G F E R S L A L I D A G V D D M L V I V
UniRef90_C7J142 K A K D S L G R R L R C A A A T G V G E D G F A N R A K M L I E A G V D D V I V I V I V
UniRef90_UPI00029A57B7 P C K D S K G R R L R V A A A V I G V T A D T F E R I Q A L I V D A N G V D A I V I V I V
UniRef90_B0Vfy5 P E A V Q D D K N R V G A A I G V T G D D Y L E R A K E A L L V N A G A D L V D V I S I
UniRef90_G0IUN9 A C K D S F G R R L R V G A A V I G V T A D I E Q R V E A L L V N A G A D L V D V I S I
UniRef90_X5MP34 S C K D E Q G R R L R V G A A T S V G D G G F F E R T E A L I A A G A D V D V I V I V I V
UniRef90_B8ERA9 A S K D S E G R R L R V A A A S T V G D K G S F E R A E M L V D A G V D D V I V I V I V
UniRef90_UPI0003708971 S N I K Q I F N Y V A L S C G T R Q N S Y E R L N D I L K E Y S F F Q F I C I
UniRef90_H8L6R6 A A K D A N G G L L V G A A V I G V G G D T E A R V E G L V A A G V D D V I V I V I V
UniRef90_A0LRT0 P S K D S A G R R L L V A A A V I G T G E D G Y K R A R T L V D A G V D D V I V I V I V
UniRef90_F8GG21 P N K D E Q G R R L R V A A A I G V G E G S E E R A T A L V E A G V D D V I V I V I V
UniRef90_C5BLU4 P N K D A D G S L R V G A S V G T S P D T D D R V A A L V E A G V D D V I V I V I V
UniRef90_G5GGH9 P N K D A Q G R R L L C G A A L G I T S D V L E R C A A L V E V E V K V D D V I V I V I V
UniRef90_UPI0003B3B4D8 P N K D S E G R R L R V G A A L G F F G E A W E R A E A V R D A G V D D V I V I V I V
UniRef90_E8RS27 P A K D E S G R R L L V G A A S T V G D A G Y E R S Q F L I D A G V D D V I V I V I V
UniRef90_F8AUy1 P T K D A D G R L L V V G A A I G V G S E D A Y K R A Q E L V R A A G V D D F L V I V I V
UniRef90_G2KQP8 E F F G T A E S A N A W Y S I L G V S E K D Q E K L Q E F L K A G A K L D R D R L C I
UniRef90_B3T6J2 A C K D E R G S L R V A A A T G V G D E G V A R A E A L L D A G A D V I V I V I V
UniRef90_B9KHK2 P N K D K K A R L R V A A A A V T G K E G M E R A E A L I Q A E A D V I V I V I V
UniRef90_W9HDG9 A C K D E K G R R L R A A A T G T G D D G L A R A E A L I F D A E V D V I V I V I V
UniRef90_H5SK63 P C K D A L G R R L R V G A A V I G V G E E A L Q R A E A L V Q A G V D L L V I V I V
UniRef90_UPI0004784899 A N K D A Q G R R L R V A A A T T V G D K G F G R A E A L I D A G V D D L I V I V I V
UniRef90_A0LC13 A C K D G S G R R L I A G A A V I G V G K D N K R L A A L V E A G V D V I V I V I V
UniRef90_H5T7Y1 A C K D A Q G R R L R V G A A V S V G P G T E E R I K L L V E A G V D V L L I V I V
UniRef90_UPI00036720CD S S K D N Y G R R L R V G A A I G V A E E T L N R A K A L I A N A K A D V I V I V I V
UniRef90_C4UGE7 A C K D E H G R R L R V G A A V I G A G A G N E E R I D A L V A A G V D V L I V I V
UniRef90_UPI0003B3152B P K K D E M G R L R V G A A I G V S D D T M E R A Q A L I E A K C D A L V I V I V
UniRef90_D5BQK8 A S K D Q S G R R L V A G A T G A G V D G I A R A E A L M D A G A D V I V I V I V
UniRef90_I3QH11 P N K D S R G R L R V G A A I G I D K K T I E R V E S L V K V G A D I V I V I V
UniRef90_Q5NYE4 A A K D D L G R R L R V G A A L G V G A G T E E R A E A L V E A G V D V V I V I V I V
UniRef90_K6WB31 P T K D D A G R R L R V G A A V G F W G D S W E R A M A L V E A G V D V L I V I V I V
UniRef90_UPI0003B59845 P S K D G S G R R L V G A A V G V G A D S R E R A H A L V D A G V D V L I V I V I V
UniRef90_K6YV61 A C K D E L G R L R V G A A V I G V G A G T E E R I Q A L V E A G V D D V L I V I V
UniRef90_L0IGH5 V R E A V A E A T V G A A V I G A G D P I E R T D A V V D A G V D D C V M V I V
UniRef90_Q2S2G2 A C K D E H G R R L R V G A A V I G V T P D V M D R V A A L V E V E V G V D F V I V I V
UniRef90_A3ZQ73 P Q A S K D S L G R R L R V G A A V I G V M D F E R V Q S L I D N S V D V D V I V I V I V
UniRef90_D4IL45 C K D A K G R R L V A A G V T P D A M D R V K A L I V A E D V D A V V I V I V
UniRef90_Q0FY06 A A K D A Q G R R L R A S A A T S V T E D G F E R A E R L I D A G V D L L V I V I V
UniRef90_UPI000367D253 A S K D E Q G R R L R A A A T S V E D A A M E R S E R L I D A G V D L L V I V I V
UniRef90_G2J7N6 A C K D E H G R R L R V G A A V I G T G P D N D A F I E L L A Q A G V D A L V I V I V
UniRef90_Q38YF0 I K M M H E R N L F A S I S V G V K D D E D F I N Q L A Q D N L I P E Y I T I
UniRef90_UPI00045DA08A A G Q N P D C L E H L A A S S G T G S S D F E Q L E Q I L E A I P Q V K Y I C L
UniRef90_D2PSX7 P T K D S S G R R L R V G A A I G F Y G A E Y K R A M S L V E A G V D L V I V I V I V
UniRef90_G2DH95 A C R D D Q E R R L R V G A A V I G V G A T E E R V E R L A E A G V D V I V I V I V
UniRef90_I1DUP7 K C K D E L G R R L R V G A A V I G V G P G T D E R I A A L V E A G V D I L I V I V
UniRef90_K4IR55 P T K D E R G R R L R V A A A V G F G D A W Q R I T A L A D A G V D I L I V I V
UniRef90_UPI0003C1AE6 A A K D G Q G R R L V G A A S T V G D V G Y E R S M A L V E A G V D V I V I V I V
UniRef90_UPI00022CAA6B S C K D E L G Q L R V G A A V G A A P G N E E R I A A L V D A G I D V L I V I V
UniRef90_QQC185 A A K D A A G R R L R V A A A S T V G D A G F E R T M A L I E A G A D A I I V I V
UniRef90_R7WJR4 A T K D R D G R R L V G A A V G G D E A W S R A S A L V D A G V D V I V I V I V
UniRef90_UPI0003F1AEC6 A S Q N P D C L Q H L A A S S G M G S S D F E Q L E Q I L E A V P Q V K Y I C L
UniRef90_M1FDV3 P S K D D Q G R R L R V G A A V I G T G S D T E A R V A A L A E A G V D D V I V I V I V
UniRef90_J4KSM4 P N K D S Q G R L M V G A A I G T G S D T N K R A A L V E A G V D V I V I V I V
UniRef90_D2R4W3 P H A C K D K M G R R L R V G A A V G V H D L Q R A E R L A E G V D I L V I V I V
UniRef90_D4YLN2 P S K D S E G R R L V G A A V G F Y G D A L E R A G L A E G V D V I V I V I V
UniRef90_V7HTM4 V R R M R A K G L F A S I S V G V K P D A Y E L I D Q L A T A K I P E Y I T I
UniRef90_UPI0003FD67AF A C K D E L G R L R V G A A V G A G A G N E E R V K A L V E A G V D V L I V I V

UniRef90_L2F5S4 D T A H G H S K G G V I D R V S W V V K K N F P Q V L Q V I G G N I A T T G N E A A A L J A
UniRef90_K0A8R8 D T A H G H S K E G V L V A K V R E L R D E Y P N N L P Q V L Q V I G G N I A T T G N E A A A L J A
UniRef90_M1GGEO D S A H G H S K G G V L H A K K K V E I R K H A F P P D L C Q Q D L I A G G N I A T T G N E A A A L J A
UniRef90_C7NBM7 D S A H G H S K G G V L N A K K V E I R K R A A F P P D L I A G G N I A T T G N E A A A L J A
UniRef90_UPI0003775EE6 D T A H G H S K G G V A D M L R V L V K K A T F P E L D D V V I G G N I A T T G N E A A A L J A
UniRef90_R8AT62 D V A N G Y S E E H F V A F Y V K K V R S A R F P E N K V I C A G G N I A T T G N E A A A L J A
UniRef90_L8IEK9 D V A N G Y S E E H F V A F Y V K K V R S A R F P E N K V I M A G N I A T T G N E A A A L J A
UniRef90_T0T4X2 D T A H G H S K G G V I D M V K K V R K A E F G D D T D I I A G G N I A T T G N E A A A L J A
UniRef90_M5JAH1 D S A H G H S K E G V L D R K I V R E V R K A A F P D D V A N Q I I A G G N I A T T G N E A A A L J A
UniRef90_S0G0X4 D T S H G H S K E K N V L K K I K R H A F P D D A N Q I I A G G N I A T T G N E A A A L J A
UniRef90_R7IQE2 D S A H G H S R R N I M N A V I R E I V K S A Y P D D L Q Q V V I A G G N I A T T G N E A A A L J A
UniRef90_F5S9M6 D T A H G H S Q Q G V I D D R V R W V K T N F P D D Q V Q Q V I A G G N I A T T G N E A A A L J A
UniRef90_B3QFD6 D T A H G H S Q A R V L D R V V R W I K K H Y P D D V V Q Q V I A G G N I A T T G N E A A A L J A
UniRef90_G9ERD5 D T A H G H S Q Q G V L D R V V R W I K K H Y P D D V V Q Q V I A G G N I A T T G N E A A A L J A
UniRef90_F9VK03 D T A H G H S K G G V L D R G V R W I K K Q Q L Y P D D Q V Q Q V I A G G N I A T T G N E A A A L J A
UniRef90_W6LQ78 D T A H G H S K G G V L N R V R W V K K Q H F P D D Q V Q Q V I A G G N I A T T G N E A A A L J A
UniRef90_U2KQY1 D T A H G H S K G G V L E K I K R Q V V K A A F P N N V V Q Q V I V G N I A T T G N E A A A L J A
UniRef90_B8J1U4 D S A H G H S V N V L K A A V D M R V K R A S F P N T C Q Q Q L V I A G G N I A T T G N E A A A L J A
UniRef90_UPI00037F3839 D T A H G H S K G V I D A L K T V K A K F P E L D D V I V G N I A T T G N E A A A L J A
UniRef90_UPI00047D4A11 D T A H G H S A G V I E R V W V K K N Y P D D V L Q Q V I G G N I A T T G N E A A A L J A
UniRef90_UPI000369FFAC D T A H G H S Q Q G V L D R V R W V K K Q N F P H L D D Q V I G G N I A T T G N E A A A L J A
UniRef90_UPI00035DDEAD D T A H G H S A G V L K A V E Q I K K L S G D T V Q Q V I A G G N I A T T G N E A A A L J A
UniRef90_C6XK57 D T A H G H S Q Q G V L E R V R W V K E N Y P Q Q L D V I G G N I A T T G N E A A A L J A
UniRef90_UPI00036B3569 D T A H G H S Q Q G V L E R V R W V K E N Y P Q Q L D V I G G N I A T T G N E A A A L J A
UniRef90_Q31F65 D T A H G H S Q Q G V L D K V K W V K E N Y P Q Q L D V I G G N I A T T G N E A A A L J A
UniRef90_E7D1B3 D V A N G Y S E E H F V R L V K Q V R G T Y P S H T I I M A G N I A T T G N E A A A L J A
UniRef90_UPI00047E0E56 D T A H G H S K G G V I Q T L R T A V K E M S H D D L V R I V A V I A G N I A T T G N E A A A L J A
UniRef90_E0MIW2 D T A H G H S Q Q R V L D A V L A V K K M S N T L R I I A A G N I A T T G N E A A A L J A
UniRef90_UPI00036E3F20 D T A H G H S Q Q G V L D S V L K A L R S T Y P E L L Q Q I I G G N I A T T G N E A A A L J A
UniRef90_C6XUF7 D T A H G H S K G G V L D M V K A I K E R W P D D L L Q Q V I A G G N I A T T G N E A A A L J A
UniRef90_B4S8R6 D T A H G H S K K A V G D M V K T I K Q H Y P D D L L Q Q V I A G N I A T T G N E A A A L J A
UniRef90_W3ARG7 D S A H G H S G N V I K C S E L L K D K F P D D L Q Q I I A G N I A T T G N E A A A L J A
UniRef90_E4NV66 D V A N G Y H L E R F L T A D E F P E T P L M A G N I A T T G N E A A A L J A
UniRef90_A8PN64 D V A N G Y T Q R F V D R I E Q L L R K K Y P E K T L M A G N I A T T G N E A A A L J A
UniRef90_G5H9I6 D T A H G H S H V A N M L K K V K A K Y P D L D V V I G N I A T T G N E A A A L J A
UniRef90_A0A024K8D9 D T A H G H S A T G V M S M V E R V K R E S N S T T R I M A G N I A T T G N E A A A L J A
UniRef90_C7J142 D T A H G H S A G V L G A V E R L K A F D A N V I V A G N I A T T G N E A A A L J A
UniRef90_UPI00029A57B7 D T A H G H S K G V L N T L R E T K K R Y P E L L Q Q V V I G N I A T T G N E A A A L J A
UniRef90_B0VYF5 D T A H G H S K K N I G A L K K V K T H L N C Q Q V I A G N I A T T G N E A A A L J A
UniRef90_G0IUN9 D T A H G H S K G V I E T C K K I K T F P D L D D V I V G N I A T T G N E A A A L J A
UniRef90_X5MP34 D T A H G H S S G V L D S V R R I K Q F S N Y T Q A L I A G N I A T T G N E A A A L J A
UniRef90_B8ERA9 D T A H G H S Q A V L D Q V L R V K R E S N K T I A L I A G N I A T T G N E A A A L J A
UniRef90_UPI0003708971 D T A N G Y S E A F S K F L S V R E E H P T K T I I A G N I A T T G N E A A A L J A
UniRef90_H8L6R6 D T A H G H S Q Q G V I E R A S V V K K H Y P Q V V Q Q V V A G N I V T A D A A K A L L
UniRef90_A0LRT0 D T A H G H S R A V L E M I A R L K R D T P S V D Q V I G G N I A T T A A A G A R A L L
UniRef90_F8GG21 D T A H G H S Q S V L D R I A W I K K N F P S V V D Q V I G G N I A T T A A A G A R A M
UniRef90_C5BLU4 D T A H G H S K N V L D R V A K I K R D Y P H V D Q V I G G N I A T T A G E A A L J A L
UniRef90_G5GGH9 D S A H G H S A N V I K C L R R I K R S F P G H L D V I A G N I A T T A E G T R A L L
UniRef90_UPI0003B3B4D8 D T A N G E S A G V L D I R R L K K S D F A H V L D Q V I A G G N I A T T Y E A T R A L L
UniRef90_E8RS27 D T A H G H S S L V G Q A V I E R L K R E Y N H V L D Q V I A G N I A T T Y E A T R A L L
UniRef90_F8AUY1 D T A H G H S R A V L D M V C L K A D L P T L D V I A G N I A T T A D G A R A L L
UniRef90_G2KQP8 D V A N G Y S P F V L K R M R D K L P T T T I M A G N I A T T G E M T E E L L
UniRef90_B3T6J2 D T A H G H S T G V L A G V E R I K K L S N Y A Q Q V I A G N I A T T D G A Q A L L
UniRef90_B9KHK2 D T A H G H S A R V L M E Q I R E I K A L Y S P D A Q Q V I G G N I A T T A A G A L L
UniRef90_W9HDG9 D T A H G H S R R V M E Q I E K V R R L S N Y T Q V I A G N I A T T A A G A L L
UniRef90_H5SK63 D T A H G H S V R V I K T V E A L R Q K F P Y L P L M A G N I A T T A E A A Q D L L
UniRef90_UPI0004784899 D T A H G H S Q Q G V L D V A R L K R S N E V L D V I A G N I A T T G D A T R A L L
UniRef90_A0LC13 D T A H G H S Q H V I E M V A W T K E K Y P E L L D V I A G N I A T T P Q A V K A L L
UniRef90_H5T7Y1 D T S H G H S Q Q G V I D R V K Q V R E Q Y P N L Q Q I I A G N I A T T A E G A L J A L L
UniRef90_UPI00036720CD D T A H G H S K K V L M D T I K M E T R A K E F P D Q Q E L I A G N I A T T V E A A Q D L L
UniRef90_C4UGE7 D S S H G H S E G V L Q R I R E T R A K Y P D L Q Q I V G G N I A T T G S G A K A L L
UniRef90_UPI0003B3152B D T A H G H S Q R V L D T V R S V K K E F P E Q E L I A G N I A T T A E A A R D M
UniRef90_D5BQK8 D T A H G H S Q Q G V L E T V T K V R K L A N H V I Q Q L I G G N I A T T A D G A K A L L
UniRef90_I3QH11 D S A H G H S C Q G V L E T I K L I R N S F P E V I T L L T G N V A T T M E G A R D L L
UniRef90_Q5NYE4 D T A H G H S Q Q G V L D R I R W V K K N F P H V V E V I G G N I A T T A A A A K A L L
UniRef90_K6WB31 D T A N G H A R Q G V T E M I A R I K A D A R G S V D V I G G N I A T T R E G A Q A L L
UniRef90_UPI0003B59845 D T A H G H S Q Q G V L N T V A Q V K R E T S V S V D V I G G N I A T T R A G A Q A L L
UniRef90_K6YV61 D T S H G H S Q Q G V L D R V S A T R Q A F P D I D Q I I A G N I A T T A E G A T A L L
UniRef90_L0IGH5 D V A H G H L E R C L D A A I R D A F P D D V E D L I A G N I A T T P A G V A D L L
UniRef90_Q2S2G2 D T A H G H A E G V L E T V R Q V A A R F E E V E I V A G N I A T T A D G A R A L L
UniRef90_A3ZQ73 D S A H G H S K N V I E T V R E I K K N W P I D V V A G N I A T T A E G C A D L L
UniRef90_D4IL45 D S A H G H S A N I V S M L K R I K E V Y P S L D Q V V I A G N I A T T G G A A R Y L L
UniRef90_Q0FY06 D T A H G H S Q R V L D M V A R R V K R E S N S V V D Q V I A G N I A T T P T G T K A L L
UniRef90_UPI000367D253 D T A H G H S E R V L D T V R R V K K M S N Q V V D Q V I A G N I A T T P E A T M A L L
UniRef90_G2J7N6 D T A H G H S Q Q G V L E R V R W I K E R E A H L V L P K S F V I G G N I A T T A E A A R A L L
UniRef90_Q38YF0 D T A H G H S Q V V I D M I Q H I K K V L P K S F V I A G N I A T T P E A V R D L L
UniRef90_UPI00045DA08A D V A N G Y S E E H F V E F V K D V R K R F P Q H T I M A G N I A T T G E M V E E L L
UniRef90_D2PSX7 D T A H G H S Q A Q L E I R R K L K A D T R G V V D Q V I G G N I A T T R V G A Q A L L
UniRef90_G2DH95 D T A H G H S Q Q G V L D R V A W V K A H Y P E L L D V I G G N I A T T A E A A Q A L L
UniRef90_I1DUP7 D T S H G H S Q Q G V I D R V K Q T R A Q Y P D L Q Q V I A G N I A T T A E G A K A L L
UniRef90_K4IR55 D T A H G H A K L M L D M I R R I K A E D F H V D Q V I G G N I A T T R E G A Q A L L
UniRef90_UPI0003C1AE6 D T A H G H S V Q V S Q A V A R V I K A R E T N R V V I A G N I A T T Y D A K A L L
UniRef90_UPI00022CAA6B D S S H G H S E G V L Q R I A A T R K A Y P D L Q Q I I G G N I A T T A E G A L J A L L
UniRef90_Q0C185 D T A H G H S V S V A E A V T R A K K S N S V Q Q L I A G N I A T T G E A T K A L L
UniRef90_R7WJR4 D S A H G H S V G V L D M I A K L R K E V G D V Q L I G G N I A T T R Q G A A L L
UniRef90_UPI0003F1AEC6 D V A N G Y S E E H F V E F V K D V R K R F P K H T I M A G N I A T T G E M V E E L L
UniRef90_M1FDV3 D T A H G H S R G V L D R V R W I K E H Y P E L L D V I G G N I A T T A E A A L J A L L
UniRef90_J4KSM4 D S A H G H S K N V I E A I K K I K N D H P Q V L D Q V I G G N I A T T P E G A L J A L L
UniRef90_D2R4W3 D S A H G H S A N V I A T V K E I K K K W D I D Q V V A G N I A T T R E G C R D L L
UniRef90_D4YLN2 D T A N G H A R G V T D M I K T L K K Q F S N V D Q V I G G N I A T T R E G A Q A L L
UniRef90_V7HTM4 D T A H G H S Q T V I D M I K Y L K K Q L P K S G T F L I A G N I A T T P E G V R E L L
UniRef90_UPI0003FD67AF D S S H G H S Q Q G V L D R I K A T R E T Y P D L E I I G G N I A T T A G A L J A L L

UniRef90_L2F5S4 Y D A G A D A V K I G G I G G P G S S C T T T R R V V A G G V G V P P P P 170 180 190 200

UniRef90_K0A8R8 I E A G A S V I K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_M1GGEO L L A G A D A I K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_C7NBM7 I E A G V N A V K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_UPI0003775EE6 V D A G A D A V K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_R8AT62 I L S G A D I L K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_L8IEK9 I L S G A D I L K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_T0T4X2 I A A G V D G V K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_M5JAH1 Y E A G V D V V K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_S0G0X4 I D A G A D A V K I G G I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_R7IQE2 I E A G A D A V K I G G I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_F5S9M6 V A A G A D A V K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_B3QFD6 I D S G A D A V K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_G9ERD5 Y E A G A D A V K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_F9VK03 V H A G A D A V K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_W6LQ78 V E A G A D A V K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_U2KQY1 V D N G A D A V K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_B8J1U4 L E A G A D T V K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_UPI00037F3839 I D A G A D G L K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_UPI00047D4A11 A E A G A D A V K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_UPI000369FFAC V E A G A D A V K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_UPI00035DDEAD V E A G A D A V K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_C6XK57 I D V G A D A V K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_UPI00036B3569 V E A G A D G V K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_Q31F65 V K A G A D A V K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_E7D1B3 I L S G A D V I K V G V I G G P G S S C T T T R R K K A G G V G V P P P P

UniRef90_UPI00047E0E56 A D A G A D G V K V G V I G G P G S S C T T T R V I A G G V G V P P P P

UniRef90_E0MIW2 I D A G A D T V K V G V I G G P G S S C T T T R R M V A G G V G V P P P P

UniRef90_UPI00036E3F20 V K A G A N A V K V G V I G G P G S S C T T T R R M V A G G V G V P P P P

UniRef90_C6XUF7 A A A G A D A V K V G V I G G P G S S C T T T R R I V A G G V G V P P P P

UniRef90_B4S8R6 I A A G A D A V K V G V I G G P G S S C T T T R R I V A G G V G V P P P P

UniRef90_W3ARG7 I K A G A D C K I G G I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_E4NV66 A A A G A D C K V G V I G G P G S S C T T T R R K V A G G V G V P P P P

UniRef90_A8PN64 I L A G A D I V K V G V I G G P G S S C T T T R R L K T G G V G V P P P P

UniRef90_G5H9I6 V E A G A D G V K V G V I G G P G S S C T T T R R I I A G G V G V P P P P

UniRef90_A0A024K8D9 I E A G A D A V K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_C7J142 I E A G A D C K I G G I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_UPI00029A57B7 V D A G A D G V K V G V I G G P G S S C T T T R R V I A G G V G V P P P P

UniRef90_B0VFY5 I E N G A D A V K V G V I G G P G S S C T T T R R V I A G G V G V P P P P

UniRef90_G0IUN9 A D A G A D G V K V G V I G G P G S S C T T T R R V I A G G V G V P P P P

UniRef90_X5MP34 I E A G A D A I K V G V I G G P G S S C T T T R R I V A G G V G V P P P P

UniRef90_B8ERA9 I D A G A D G V K V G V I G G P G S S C T T T R R I V A G G V G V P P P P

UniRef90_UPI0003708971 I L S G A D I V K V G V I G G P G S S C T T T R R I Q T G G V G V P P P P

UniRef90_H8L6R6 R D A G V D A V K V G V I G G P G S S C T T T R R V V T G I G G V G V P P P P

UniRef90_A0LRT0 V E A G A D G V K V G V I G G P G S S C T T T R R V V T G I G G V G V P P P P

UniRef90_F8GG21 V D N G V D A V K V G V I G G P G S S C T T T R R I V A G G V G V P P P P

UniRef90_C5BLU4 V E A G A D G V K V G V I G G P G S S C T T T R R I V A G G V G V P P P P

UniRef90_G5GGH9 I D A G A D C K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_UPI0003B3B4D8 V E A G A D A V K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_E8RS27 I D A G A D G V K V G V I G G P G S S C T T T R R M V A G G V G V P P P P

UniRef90_F8AUY1 V E A G A D A V K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_G2KQP8 I L S G A D V I K V G V I G G P G S S C T T T R R V K M T G G V G V P P P P

UniRef90_B3T6J2 I D A G A D C K I G G I G G P G T C T T T R M V A G G V G V P P P P

UniRef90_B9KHK2 V E A G V D A V K V G V I G G P G S S C T T T R R V T G I G G V G V P P P P

UniRef90_W9HDG9 I D V G V D A V K V G V I G G P G S S C T T T R R M V A G G V G V P P P P

UniRef90_H5SK63 I E A G A N I V K V G V I G G P G S S C T T T R R V V T G V G G V P P P P

UniRef90_UPI0004784899 I D S G A D A I K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_A0LC13 V E A G A D G I K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_H5T7Y1 A K A G V D A V K V G V I G G P G S S C T T T R R I V T G G C V G V P P P P

UniRef90_UPI00036720CD I E L G I D A V K V G V I G G P G S S C T T T R R I V T G G V G V P P P P

UniRef90_C4UGE7 A E A G V S A V K V G V I G G P G S S C T T T R R I V T G G V G V P P P P

UniRef90_UPI0003B3152B I K L G V D A V K V G V I G G P G S S C T T T R R L V S G T G I V P P P P

UniRef90_D5BQK8 M D A G A D A V K V G V I G G P G S S C T T T R R M V A G G V G V P P P P

UniRef90_I3QH11 I D A G S V L K V G V I G G P G S S C T T T R R V I A G G V G V P P P P

UniRef90_Q5NYE4 V D C G A D A V K V G V I G G P G S S C T T T R R I V A G G V G V P P P P

UniRef90_K6WB31 V D A G A D G I K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_UPI0003B59845 I D A G A D A V K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_K6YV61 A D A G V D A V K V G V I G G P G S S C T T T R R L V T G G C V G V P P P P

UniRef90_L0IGH5 A E A G A D C C K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_Q2S2G2 I D A G V D C I K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_A3ZQ73 I E A G V D A V K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_D4IL45 I E N G A D G V K V G V I G G P G S S C T T T R R I V A G G V G V P P P P

UniRef90_Q0FY06 I D A G A D G V K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_UPI000367D253 I D A G A D A V K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_G2J7N6 V E R Q A D G V K V G V I G G P G S S C T T T R R V V T G G V G V P P P P

UniRef90_Q38YF0 E R A G A D A T K V G V I G G P G S K V I T K L K T G F G T G G W Q A L R M E C A D A

UniRef90_UPI00045DA08A I L S G A D I I K V G V I G G P G K V T T R K K T G V G V Y P P P P

UniRef90_D2PSX7 V E A G A D G V K V G V I G G P G S S C T T T R R V V S G V G V P P P P

UniRef90_G2DH95 V D A G A D A V K V G V I G G P G S S C T T T R R I V A G G V G V P P P P

UniRef90_I1DUP7 A Q A G A N A V K V G V I G G P G S S C T T T R R I V A G G V G V P P P P

UniRef90_K4IR55 I D A G V D A V K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_UPI0003C1AE6 I D A G A D A V K V G V I G G P G S S C T T T R R I V A G G V G V P P P P

UniRef90_UPI00022CAA6B I K A G V N A V K V G V I G G P G S S C T T T R R I V T G V G V P P P P

UniRef90_QQC185 I D A G A D A V K V G V I G G P G S S C T T T R R I V A G G V G V P P P P

UniRef90_UPI0003R7WJR4 I D A G V D A V K V G V I G G P G S S C T T T R R V V A G G V G V P P P P

UniRef90_UPI0003F1AEC6 I L S G A D I I K V G V I G G P G S S C T T T R K K T G V G V Y P P P P

UniRef90_M1FDV3 V D A G A D A V K V G V I G G P G S S C T T T R I V A G G V G V P P P P

UniRef90_J4KSM4 V N A G A D A I K V G V I G G P G S S C T T T R I V A G G V G V P P P P

UniRef90_D2R4W3 I A A G A D A V K V G V I G G P G S S C T T T R R V I S G V G V P P P P

UniRef90_D4YLN2 I D A G A D A T K V G V I G G P G S S C T T T R R V I V A G G V G V P P P P

UniRef90_V7HTM4 E N A G A D A I K V G V I G G P G S K A C C I T K V K T G F G T G W Q A L R L C S K A

UniRef90_UPI0003FD67AF A D A G C S A V K V G V I G G P G S I C T T R I V T G V G V P P P P

UniRef90_L2F5S4 L K G S I P L I 210 A D G G G I R F S G D M A K A I A A G A S C I M V V G S L L A G T
UniRef90_K0A8R8 A R K H G L S L I A D G G G I K F Y S S G D V V K A L L A A G A H A V M L V G S L L A G T
UniRef90_M1GGEO A R E M D K R G C L I S D D G G G K K F L S G D V V K A L L A A V G A N T V M L V G S L L A G T
UniRef90_C7NBM7 C K D K M G T I G L I A D G G G I L K F L S G D V V K A L L A A G A D C V M L V G S M L A G T
UniRef90_UPI0003775EE6 L K G T G G V G L I A D G G G I R Y S G D I V K A L L A A G A S S V M M G S M L A G T
UniRef90_R8AT62 A H G L L K G Q I V S D G G G C T C C P G D V V A K A F G G G A D F V M L G G M L A G H
UniRef90_L8IEK9 A H G L L K G H I V S G G G C T C C P G D V V A K A F G G G A D F V M L G G M F S G H
UniRef90_T0T4X2 C K K A G I P F I A D G G G I T K Y S S G D I V K A I A A G A S A V M L G S L F A G C
UniRef90_M5JAH1 A R E M G K T I I A D G G G I K Y S S G D I V K A L L A A G A G N A V M L G S M L A G T
UniRef90_S0G0X4 S R K T G V P I I A D G G G I L A K A L L A G A G A H S V M L G S L L A G T
UniRef90_R7IQE2 A K E Y G I P I I A D G G G I K F S S G D M T K A I A A G A N V C M M G S L F A G C
UniRef90_F5S9M6 L K K G T G V S V I A D G G G I R F S S G D L A K A L L A A G A D C V M L G G M F A G T
UniRef90_B3QFD6 C K K A D V V I A D G G G I K Y S S G D L A K A L L A A G A D I A M V G S L L A G T
UniRef90_G9ERD5 L K G K I P L I A D G G G I R F S S G D V C K A L L A A G A S T V M L G S M F A G T
UniRef90_F9VK03 A T E H N I V A D G G G I K Y S S G D L V K A I A A G A S A V M L G S L F A G C
UniRef90_W6LQ78 L R D C D N I P V I A D G G G V L R Y S S G D L A K A I A A G A H T V M I G S L F A G T
UniRef90_U2KQY1 L Q G T G V P L I A D G G G L R Y S S G D I V K A L L A A G A S C V M I G S L V A G T
UniRef90_B8J1U4 A R E M D R C C I A D G G G L K R T S S G D I V K A L L V V G A H S V M V G S L L A G T
UniRef90_UPI00037F3839 A K K H G V P V I A D G G G L R F S S G D I A K A I A A G A S T V M V G S L L A G T
UniRef90_UPI00047D4A11 V E G M G V P V I A D G G G I R F S S G D I A K A I A A G A S S T V M L G S M L A G T
UniRef90_UPI000369FFAC L K G T G V P I I A D G G G I R Y S S G D I A K A I A A G A S S V M M G M F A G T
UniRef90_UPI00035DDEAD L E K M D V P L I A D G G G I R F S S G D V A K A L A A G A H T V M L G G L L A G T
UniRef90_C6XK57 A A D Q G V P I I A D G G G I K F S S G D F A K A L A A G A S C A M L G S M L A G T
UniRef90_UPI00036B3569 L E G T G V P L I A D G G G I R Y S S G D V A K A L A A G A S T C M M G S M F A G T
UniRef90_Q31F65 L K D K G L P L I A D G G G I R F S S G D V A K A L L V S G A S A V M L G G M F A G T
UniRef90_E7D1B3 A H G L G G H I I S D G G G C T N P G D V A K A L G A G A D F V M L G G M F A G H
UniRef90_UPI00047E0E56 L K G D A G T P I I A D G G G I R F S S G D I A K A I A A G A S S V M A G S L L A G T
UniRef90_E0MIW2 A H D A G I P I I A D G G G I K Y S S G D L A K A L A A G A S V A M V G S L L A G T
UniRef90_UPI00036E3F20 L H K S N I P V I A D G G G I K Y S S G D I V K A I S A G A S H T V M I G S L F A G T
UniRef90_C6XUF7 L L G T G T P V I A D G G G I K Q T G D L V K A I A A G A S A I M A G S L F A G T
UniRef90_B4S8R6 A A K T G T P I I A D G G G I K Y S S G D L A K A I A A G A D S V M L G S I F A G T
UniRef90_W3ARG7 S S K Y G T P I I A D G G G I Q R T S S G D V V K A I A A G G N T V M M G S V F A G C
UniRef90_E4NV66 A D E L G V T C C A D G G G I R T S P G D V A K A F M A G A D T V M L G G F A G T
UniRef90_A8PN64 V H G L G G H I I A D G G G C V S P G D V A K A F A G G A D F V M L G G M F A G H
UniRef90_G5H9I6 L E G K D V P V I A D G G G L R Y S S G D V V K A L A A G A D S V M A G S L F A G V
UniRef90_A0A024K8D9 G D K H K I P V I A D G G G I K R T S S G D M A K A L A A G A S C V M V G S L L A G T
UniRef90_C7J142 C K E K G I P C I A D G G G I R F S S G D V V K A I L A G A G A D V M V G S L L A G T
UniRef90_UPI00029A57B7 L K G T G V P L I A D G G G L R Y S S G D I V K A L A A G A S H S V M A G S L F A G V
UniRef90_B0VYF5 A G K Y N I P V I A D G G G I K F S S G D I V K A L A A G A S A V M I G S L L A G C
UniRef90_G0IUN9 L K G R D V P V I A D G G G I K Y S S G D L V K A L A A G A S S V M I G S L L A G T
UniRef90_X5MP34 A K G S G R P V I G D G G G I K Y S S G D M A K A V A A G A D V A M L G S L F A G T
UniRef90_B8ERA9 A R A Q N I P I I A D G G G I L A K A L A A G A D T V M L G S L L A G T
UniRef90_UPI0003708971 A H G L G A H I I A D G G G C T C C P G D V L A K A F G G G A D F V M L G G M L A G H
UniRef90_H8L6R6 L Q D E T P L I A D G G G I R Y S S G D I P K A I A A G A S T V M L G S M F A G T
UniRef90_A0LRT0 C R P A G S P V I A D G G G L Q R Y S S G D I A K A I A V G A D A V M L G S L L A G V
UniRef90_F8GG21 L K G S G V P T I A D G G G I R Y S S G D I A K A I A A G A D L V M L G G L F A G T
UniRef90_C5BLU4 L K D T N V P V I A D G G G I R F S S G D I A K A L V A G A H A I M M G S M F A G T
UniRef90_G5GGH9 A R E Y N I P V I A D G G G I K Y S S G D I T K A L A V G A G N V C M I G S L F A G C
UniRef90_UPI0003B3B4D8 T K P V G V P L I A D G G G L Q Y S S G D I A K A L V A G A D T V M L G S L L A G T
UniRef90_E8RS27 A R D T G V P I I A D G G G L K L S S G D L A K A I A A G A S T A M L G S M F A G T
UniRef90_F8AUY1 A R E H G L V C G D G G G M Q T V P G D L A K A I A V G A D T V M L G S L L A G V
UniRef90_G2KQP8 A H G L G G L V C G D G G G C T V P G D L A K A F G A G S D F V M L G G M L A G H
UniRef90_B3T6J2 C Q K A D T P F I A D G G G I T K Y S S G D M A K A I A A G A S C C M I G S L F A G T
UniRef90_B9KHK2 C K R G T G V P V I A D G G G I K Y S S G D I A K S I A A G A D V V M I G S L F A G T
UniRef90_W9HDG9 C H R Q T G V P V V S D G G G I K Y S S G D L A K A I A A G A D C A M L G S M F A G T
UniRef90_H5SK63 T R P A R V G L V A D G G G I R Y S S G D I T K A L A A G A D A V M L G N L L A G T
UniRef90_UPI0004784899 A R R E D V P V I A D G G G I K F S S G D L A K A I A A G A D A V M L G S L L A G T
UniRef90_A0LC13 A D K A N V P I I A D G G G V L K F S S G E V L A K A I A A G A S C V M V G S M F A G T
UniRef90_H5T7Y1 V D K L G I P V I A D G G G I R F S S G D I A K A L A A G A S S V M V G S M L A G T
UniRef90_UPI00036720CD T Y G K N I P L I A D G G G I K Y S S G D I T K A I V A G A S S V M L G N L L A G T
UniRef90_C4UGE7 L E G T G I P V I A D G G G I R F S S G D I A K A I A A G A S C V M V G S M L A G T
UniRef90_UPI0003B3152B T E S E G I P L I A D G G G I K F S S G D I T K A I A A G A S S V M M G N T L A G T
UniRef90_D5BQK8 C H A N D R V V I A D G G G I K Y S S G D L A K A I A A G A D S V A M I G S L L A G T
UniRef90_I3QH11 A K K R N V N V I S D G G G I R Y S S G D V V K A I A A G A S S V M I G S L F A G T
UniRef90_Q5NVE4 L A G T N V P L I A D G G G I R Y S S G D I S K A I A A G A N V M L G G L F A G T
UniRef90_K6WB31 A R P A G V P V I G D G G G L Q Y S S G D I A K A L V A G A D T V M L G S L L A G C
UniRef90_UPI0003B59845 A R P A G V P V I G D G G G L Q Y S S G D I A K A L S A G A S T V M L G S L L A G C
UniRef90_K6YV61 L K D R D I P V I A D G G G I R F S S G D L A K A L V A G A S C V M V G S M L A G T
UniRef90_L0IGH5 A D E Y G V R T I A D G G G I R C G D A V P K A L L A G A D A V M M G S L F A G T
UniRef90_Q2S2G2 A R P D G V P V I A D G G G I K Q T G D I P K A L A A G A S A V M I G S L F A V
UniRef90_A3ZQ73 A A K H G I P V I A D G G G V L R Y S S G D I C K A I A S G A S S V M I G G L F A G L
UniRef90_D4IL45 A R E S G V P V I A D G G G L R Y S S G D L V K A L A A G A G D C V M I G S M F A G T
UniRef90_Q0FY06 A A K Q G V P V I A D G G G I K F S S G D L A K A L A A G A S A M V G S L L A G T
UniRef90_UPI000367D253 A A K A D I P V V A D G G G I K Y S S G D L A K A L A A G A S C A M V G S L L A G T
UniRef90_G2J7N6 L A A D T D V P L I A D G G G V L R Y S S G D A A K A L A A G A H S V M M G S L L A G T
UniRef90_Q38YF0 A T K P I I A D G G G I R T N G D I A K S L R F G A N M V M I G S L F A G H
UniRef90_UPI00045DA08A A H G L K G H I I S D G G G C S C P G D V A K A F G A G A D F V M L G G M L A G H
UniRef90_D2PSX7 C K P A G V P V I G D G G G L Q R Y S S G D I A K A L V A G A D T V M L G S L L A G C
UniRef90_G2DH95 L E D S G V P L I A D G G G L R Y S S G D I A K V L A S G A Y S V M V G G M F A G T
UniRef90_I1DUP7 V A G T D V T I I A D G G G I R F S S G D I A K A L V A G A N C V M V G S M F A G T
UniRef90_K4IR55 C R P A G I P L V A D G G G I H Y S S G D I A K A I V A G A D S T M L G G L L A G T
UniRef90_UPI0003C1AE6 G R E S G V P I I A D G G G I K F S S G D L A K A I A A G A S T A M M G S M F A G T
UniRef90_UPI00022CAA6B X K K H H I P V I A D G G G L R F S S G D L A K A I A A G A S C V M V G S M F A G T
UniRef90_Q0C185 A L A S G V P I I A D G G G L K F S S G D F A K A L A A G A S T A M M G S M F A G T
UniRef90_R7WJR4 A R P A G V P V I A D G G G L Q F S S G D F A K A L A A G A S T A M L G S L L A G T
UniRef90_UPI0003F1AEC6 A H G L K G H I I S D G G G C S C P G D V A K A F G A G A D F V M L G G M L A G H
UniRef90_M1FDV3 L K N S D V P L I A D G G G L R F S S G D I A K A I A A G A H C V M I G S L L A G T
UniRef90_J4KSM4 L K G K K V N I I A D G G G I R F S S G D I S K A I A A G A D S V M L G G L F A G T
UniRef90_D2R4W3 A R P S G T P I I A D G G G I R F S S G D M T K A L A A G A H C V M I G G L F A G L
UniRef90_D4YLN2 A R E A G I P V I G D G G G I Q R T S S G D T G K A L V A G A D S V M L G S L L A G C
UniRef90_V7HTM4 A S K P L I A D G G G I R T N G D I A K S I R F G A S M C M I G S M F A G T
UniRef90_UPI0003FD67AF L K D R G I P V I A D G G G I R F S S G D I A K A L V A G A S C V M V G S M F A G T

UniRef90_L2F5S4
UniRef90_K0A8R8
UniRef90_M1GGEO
UniRef90_C7NBM7
UniRef90_UPI0003775EE6
UniRef90_R8AT62
UniRef90_L8IEK9
UniRef90_T0T4X2
UniRef90_M5JAH1
UniRef90_S0G0X4
UniRef90_R7IQE2
UniRef90_F5S9M6
UniRef90_B3QFD6
UniRef90_G9ERD5
UniRef90_F9VK03
UniRef90_W6LQ78
UniRef90_U2KQY1
UniRef90_B8J1U4
UniRef90_UPI00037F3839
UniRef90_UPI00047D4A11
UniRef90_UPI000369FFAC
UniRef90_UPI00035DDEAD
UniRef90_C6XK57
UniRef90_UPI00036B3569
UniRef90_Q31F65
UniRef90_E7D1B3
UniRef90_UPI00047E0E56
UniRef90_E0MIW2
UniRef90_UPI00036E3F20
UniRef90_C6XUF7
UniRef90_B4S8R6
UniRef90_W3ARG7
UniRef90_E4NV66
UniRef90_A8PN64
UniRef90_G5H9I6
UniRef90_A0A024K8D9
UniRef90_C7J142
UniRef90_UPI00029A57B7
UniRef90_B0VYF5
UniRef90_G0IUN9
UniRef90_X5MP34
UniRef90_B8ERA9
UniRef90_UPI0003708971
UniRef90_H8L6R6
UniRef90_A0LRT0
UniRef90_F8GG21
UniRef90_C5BLU4
UniRef90_G5GGH9
UniRef90_UPI0003B3B4D8
UniRef90_E8RS27
UniRef90_F8AUY1
UniRef90_G2KQP8
UniRef90_B3T6J2
UniRef90_B9KHK2
UniRef90_W9HDG9
UniRef90_H5SK63
UniRef90_UPI0004784899
UniRef90_A0LC13
UniRef90_H5T7Y1
UniRef90_UPI00036720CD
UniRef90_C4UGE7
UniRef90_UPI0003B3152B
UniRef90_D5BQK8
UniRef90_I3QH11
UniRef90_Q5NYE4
UniRef90_K6WB31
UniRef90_UPI0003B59845
UniRef90_K6YV61
UniRef90_L0IGH5
UniRef90_Q2S2G2
UniRef90_A3ZQ73
UniRef90_D4IL45
UniRef90_Q0FY06
UniRef90_UPI000367D253
UniRef90_G2J7N6
UniRef90_Q38YF0
UniRef90_UPI00045DA08A
UniRef90_D2PSX7
UniRef90_G2DH95
UniRef90_I1DUP7
UniRef90_K4IR55
UniRef90_UPI0003C1AE6
UniRef90_UPI00022CAA6B
UniRef90_Q0C185
UniRef90_R7WJR4
UniRef90_UPI0003F1AEC6
UniRef90_M1FDV3
UniRef90_J4KSM4
UniRef90_D2R4W3
UniRef90_D4YLN2
UniRef90_V7HTM4
UniRef90_UPI0003FD67AF

E E A P G D V E L F Q G R Y Y K A Y R 250
E E S P G G E T I L Y Q G R T Y K T Y R G M G S S L E G A M S G S N G S S D R Y F V P
E E S P G G E T I L Y Q G R T Y K T Y R G M G S S L E G A M S D R Y F Q E A D N K K F V P
D E E A P G G E T I L Y N G R K F K T Y Y A G M G S S L T D A M D R Y F Q D D R Y E K K L V P
E E S P G G E T I L F N G R K F K T Y Y G M G S S L L S A M Q Q G S K G D R Y F Q Q D V P
Q E C A G E R L I E Q D G Q Q T F M Q F Y G M S S D T A M N R H V G G V A K Y R A S
T E C A G E L V I E R N G Q K L K L F Y G M S S W H A A A R V P W G G F K C Q A P
D E T P G G E M I I Y Q G R S Y K L Y R G M G S S L I G A M A L G S K D R Y F K K L V P
A E A P G G E V F T D E Q G R S Y K S Y R G M G S S V I E A A M E N G S K D R Y F Q Q M V P
H E A P G G E I V I Y Q G R S Y K A Y R G M G S S V I E A A M K K G S K D R Y F Q Q K V P
D E A P G G E F E L Y Q G R K Y K V Y R G M G S S I I A A M D R Y F Q T E A K K L V P P
D E A P G G E I E L Y Q G R A Y K S Y R G M G S S L V I G A M S Q G S A D R Y F Q Q Y V P
D E T P G G E V F L W Q G R S Y K A Y R G M G S S L V I G A M A R G S S A D R Y F Q Q Q V P
E E S P G G E I E L Y Q G T T Y K S Y R G M G S S V I G A M A S A Q G S S D R Y F V V P P
UniRef90_F9VK03 D E E S P G G E K V V F G G E N S Y K S Y R G M G S S L L G A M T R Q Y H G S S D R Y F V P
UniRef90_W6LQ78 D E E A P G G E V E L F Q G R S Y K S Y R G M G S S L L G A M D R Q Y F G S S D R Y F V P
UniRef90_U2KQY1 E E S P G G E T I I F N G R K F K S Y R G M G S S L L E A M E Q K N G S R D R Y F V P
UniRef90_B8J1U4 E E S P G G E T I L Y Q G R K F K T Y R G M G S S L L D A M D R Y F Q E R S K K L V P
UniRef90_UPI00037F3839 E E A P G G E T F I Y Q G R A F K S Y R G M G S S V I G A M A R G S A D R Y F Q Q Q V P
UniRef90_UPI00047D4A11 D E A P G G E V T I F E G R K F K T Y R G M G S S L I E A M E D G S K D R Y F Q Q D V P
UniRef90_UPI000369FFAC E E A P G G E V L L Y Q G R S Y K S Y R G M G S S I I G A M A K A G S A D R Y F Q E V P
UniRef90_UPI00035DDEAD D E A P G G E V E L F Q G R S Y K S Y R G M G S S I I G A M A Q G S A D R Y F Q E V P
UniRef90_C6XK57 D E A P G G E V F L F Q G R S Y K S Y R G M G S S I I G A M G R G S A D R Y F Q Q G V P
UniRef90_UPI00036B3569 E E A P G G E V L L F Q G R S Y K S Y R G M G S S L L G A M E S Q K Q G S A D R Y F Q D V P
UniRef90_Q31F65 E E S P G G E V E Y Y Q G R A Y K S Y R G M G S S L L G A M S Q K Q G S S D R Y F V P
UniRef90_E7D1B3 D Q S G G D V T I E K N G K K V K M F Y G M S S A T A M E R Y H G G V A E Y R A S
UniRef90_UPI00047E0E56 E E A P G G E M M I Y E G R K F K S Y R G M G S S V I E A M E D G S K D R Y F K K L V P
UniRef90_E0MIW2 D E S P G G E V Y L H Y G R S Y K A Y R G M G S S V I G A M A R G S A D R Y F Q S V P
UniRef90_UPI00036E3F20 A E S P G G Q V V L Y Q G R R Y K I Y R G M G S S V L G A M K E G G K D R Y F Q F V T
UniRef90_C6XUF7 E E S P G G E T I I Y E G R K F K S Y R G M G S S V I G A M S Q G S K D R Y F Q D V P
UniRef90_B4S8R6 D E S P G G E T I L Y E G R R F K A Y R G M G S S L V G A M S E P E G S S D R Y Y V P
UniRef90_W3ARG7 D E A P G G E F E L Y Q G R K Y K V Y R G M G S S M G A M D R Y F Q A N A K K L V P
UniRef90_E4NV66 A E A P G G E I V E I D G H H Y K R S R G M A T T A A A E D R D D K H N N R V D A D
UniRef90_A8PN64 H E C A G E K V E E N G W F M R F Y G M S S R E A A H K H G K M N R Y R A S
UniRef90_G5H9I6 E E S P G G E T I I Y N G R K F K T Y R G M G S S L I E A M Q H G S K D R Y F Q D V P
UniRef90_A0A024K8D9 D E S P G G E V Y L Y Q G R S Y K A Y R G M G S S V I G A M G S G S A D R Y F Q Q V P
UniRef90_C7J142 E E A P G G E V F L Y Q G R S Y K S Y R G M G S S L V I G A M A R G S A D R Y F Q Q V P
UniRef90_UPI00029A57B7 E E S P G G E T I I Y N G R K F K T Y R G M G S S I I E A M Q K G S K D R Y F Q D V P
UniRef90_B0VYF5 D E S P G G E S I I Y N G R R F K S Y R G M G S S L L E A M K Q G S K D R Y F Q D V A
UniRef90_G0IUN9 E E A P G G E I I I F D G R R F K S Y R G M G S S L L E A M E S G S K D R Y F Q D V P
UniRef90_X5MP34 D E S P G G E V F L Y Q G R S Y K A Y R G M G S S I I G A M A R G S A D R Y F Q Q V P
UniRef90_B8ERA9 K E S P G G E V Y L Y Q G R S Y K S Y R G M G S S V I G A M S R G S A D R Y F Q Q V P
UniRef90_UPI0003708971 D E G G G A I V E E N K F Y G S S E E A N I K H Y G G I A D Y R S S
UniRef90_H8L6R6 E E S P G G E V E L F Q G R S Y K S Y R G M G S S L I G A M A L G S K D R Y F Q D V P
UniRef90_A0LRT0 E E S P G G E I V F I N G R K Y K T Y R G M G S S L L G A M Q S R G S Q D R Y E K L V P
UniRef90_F8GG21 A E A P G G E I E L F Q G R S Y K S Y R G M G S S L L S A M Q Q G S S D R Y F Q E V P
UniRef90_C5BLU4 E E A P G G E V E L Y Q G R T Y K S Y R G M G S S L I G A M S K T Q G S S D R Y F V P
UniRef90_G5GGH9 D E S P G G D Y E L Y Q G R K Y K V Y R G M G S S M S A M D R Y F Q S E A K K L V P
UniRef90_UPI0003B3B4D8 A E S P G G E I V F Q N G K F K A Y R G M G S S L V G A M Q T R G K P S D D K L V P
UniRef90_E8RS27 E E A P G G E I I L Y Q G R S Y K S Y R G M G S S V I G A M A R G S A D R Y F Q K V P
UniRef90_F8AUY1 D E S P G G E L I F I N G K Y K A Y R G M G S S L D G A M R S R G T T S D D K L V P
UniRef90_G2KQP8 D Q C E G D V V D E D G H K Y V T F Y G M S S D T A M K K H V G G V A K Y R A S
UniRef90_B3T6J2 D E S P G G E V F L Y Q G R S Y K S Y R G M G S S L I G A M A R G S A D R Y F Q Q V P
UniRef90_B9KHK2 D E S P G G D T M I Y N G R A Y K C Y R G M G S S V V A M K R Y F Q E G G G K F I P
UniRef90_W9HDG9 D E S P G G E V I L Y Q G R S Y K S Y R G M G S S V I G A M A R G S A D R Y F Q Q V P
UniRef90_H5SK63 E E S P G G E T L L Y E G R K F K V Y R G M G S S V I E A M Q A G S A D R Y A Q E V P
UniRef90_UPI0004784899 D E S P G G E V Y L Y Q G R S Y K S Y R G M G S S V I G A M S Q G S A D R Y F Q Q V P
UniRef90_A0LC13 D E S P G G E V F I Y Q G R S Y K T Y R G M G S S I I G A M A K G S K D R Y E K L V P
UniRef90_H5T7Y1 E E A P G G E V E L Y Q G R Y Y K S Y R G M G S S L A A M N Q S H G S S D R Y F V P
UniRef90_UPI00036720CD D E S P G G E V V I Y Q G R S Y K T Y R G M G S S I I E A M R E G S R D R Y F Q D V P
UniRef90_C4UGE7 E E S P G G E I E L Y Q G R S Y K T Y R G M G S S L I G A M S K G S S D R Y F Q T V P
UniRef90_UPI0003B3152B N E S P G G E L V I F Q G R S Y K T Y R G M G S S L I E A M R K G S R D R Y F Q D V P
UniRef90_D5BQK8 D E T P G G E V Y L H Q G R S Y K S Y R G M G S S T I G A M A R G S A D R Y F Q Q V P
UniRef90_I3QH11 E E A P G G E E V I F Q G R K F K T Y V G M G S S L I A M K R G S A D R Y F Q F V P
UniRef90_Q5NYE4 E E A P G G E T V L Y Q G R S Y K S Y R G M G S S L A A M Q Q G A A D R Y F Q E V P
UniRef90_K6WB31 E E S P G G E L V F I N G K Q Y K S Y R G M G S S L L G A M A S R G R G S D D D K V P
UniRef90_UPI0003B59845 E E S P G G E L V F I N G K Q Y K S Y R G M G S S L L G A M Q G R G S S G D D K L V P
UniRef90_K6YV61 E E A P G G E V E L Y Q G R Y Y K S Y R G M G S S L I G A M N Q S H G S S D E K M V P
UniRef90_L0IGH5 A E A P G A T V E I D G T R Y K R S R G M A T T A A N E A R T D T D E F P D A D
UniRef90_Q2S2G2 E E S P G E T I I Y E G R K Y K S Y R G M G S S V I E A M Q D R G S K D R Y F Q D V P
UniRef90_A3ZQ73 H E S P G G D V I L Y Q G R T F K V Y R G M G S S V I G A M V K G S K E R Y R Q G V P
UniRef90_D4IL45 E E A P G G E T I I F N G R K F K S Y R G M G S S I I D A M K A G S A D R Y F Q Q V P
UniRef90_Q0FY06 D E S P G G E V Y L Y Q G R S Y K A Y R G M G S S V I G A M A R G S A D R Y F Q Q V P
UniRef90_UPI000367D253 D E S P G G E V Y L H Q G R S Y K A Y R G M G S S V I G A M A L G S A D R Y F Q Q V P
UniRef90_G2J7N6 E E A P G G E V F L Y Q G R S Y K S Y R G M G S S V I G A M Q K G S A E R Y F Q D V P
UniRef90_Q38YF0 T E S P G G E L V E E D G Q Q F K E Y F G S A S E F Q K G T H Q N V
UniRef90_UPI00045DA08A S E S G G E L I E R D G K K Y K L F Y G M S S E M A M K K Y A G G V A E Y R R C
UniRef90_D2PSX7 E E S P G G D L V F V N G K Q F K A Y R G M G S S L I G A M S S A G G L R D E K L T A
UniRef90_G2DH95 D E S P G G E V E I F Q G R S Y K S Y R G M G S S L I G A M S S G K Q G S S D R Y F V P
UniRef90_I1DUP7 E E A P G G E V E L Y Q G R Y Y K S Y R G M G S S L I G A M A Q R N G S S D R Y F V P
UniRef90_K4IR55 E E A P G G E K V L L H G K Q Y K V Y R G M G S S L I G A M A P R G K K S Y D K V V P
UniRef90_UPI0003C1AE6 E E A P G G E V F L Y Q G R S Y K A Y R G M G S S V I G A M A R G S A D R Y F Q K V P
UniRef90_UPI00022CAA6B E E A P G G D I E L Y Q G R A Y K S Y R G M G S S L I G A M T K G S S A D R Y F Q S V P
UniRef90_Q0C185 E E A P G G E V F L Y Q G R S Y K A Y R G M G S S L I G A M A R G S A D R Y F Q S V P
UniRef90_R7WJR4 A E S P G G E L I L N G K Q Y K S Y R G M G S S L I G A M Q T R G S K S Y S K V P
UniRef90_UPI0003F1AEC6 N E S G G E L I E R D G K K Y K L F Y G M S S E M A M K K Y A G G V A E Y R A S
UniRef90_M1FDV3 D E A P G G E I E L F Q G R S Y K A Y R G M G S S T I G A M G Q G S S D R Y F Q D V P
UniRef90_J4KSM4 E E A P G G E L E L F Q G R S Y K T Y R G M G S S L I G A M T E R Q D A N R Y M Q V P
UniRef90_D2R4W3 A E S P G K T I L Y Q G R T F K A Y R G M G S S L I G A M V K G S S E R Y R Q S V P
UniRef90_D4YLN2 K E A P G G E L L L V N G K Y K T Y R G M G S S L I G A M A P R K R G S Y S K D R Y
UniRef90_V7HTM4 A E T P G G E I V E E D G Q K Y K V Y F G S A S Q Y Q K G Q Y K N V
UniRef90_UPI0003FD67AF E E A P G G E I E L Y Q G R S Y K S Y R G M G S S L I G A M S Q G S S D R Y F Q T V P

280

UniRef90_L2F5S4
UniRef90_K0A8R8
UniRef90_M1GGEO
UniRef90_C7NBM7
UniRef90_UPI0003775EE6
UniRef90_R8AT62
UniRef90_L8IEK9
UniRef90_T0T4X2
UniRef90_M5JAH1
UniRef90_S0G0X4
UniRef90_R7IQE2
UniRef90_F5S9M6
UniRef90_B3QFD6
UniRef90_G9ERD5
UniRef90_F9VK03
UniRef90_W6LQ78
UniRef90_U2KQY1
UniRef90_B8J1U4
UniRef90_UPI00037F3839
UniRef90_UPI00047D4A11
UniRef90_UPI000369FFAC
UniRef90_UPI00035DDEAD
UniRef90_C6XK57
UniRef90_UPI00036B3569
UniRef90_Q31F65
UniRef90_E7D1B3
UniRef90_UPI00047E0E56
UniRef90_E0MIW2
UniRef90_UPI00036E3F20
UniRef90_C6XUF7
UniRef90_B4S8R6
UniRef90_W3ARG7
UniRef90_E4NV66
UniRef90_A8PN64
UniRef90_G5H9I6
UniRef90_A0A024K8D9
UniRef90_C7J142
UniRef90_UPI00029A57B7
UniRef90_B0VYF5
UniRef90_G0IUN9
UniRef90_X5MP34
UniRef90_B8ERA9
UniRef90_UPI0003708971
UniRef90_H8L6R6
UniRef90_A0LRT0
UniRef90_F8GG21
UniRef90_C5BLU4
UniRef90_G5GGH9
UniRef90_UPI0003B3B4D8
UniRef90_E8RS27
UniRef90_F8AUY1
UniRef90_G2KQP8
UniRef90_B3T6J2
UniRef90_B9KHK2
UniRef90_W9HDG9
UniRef90_H5SK63
UniRef90_UPI0004784899
UniRef90_A0LC13
UniRef90_H5T7Y1
UniRef90_UPI00036720CD
UniRef90_C4UGE7
UniRef90_UPI0003B3152B
UniRef90_D5BQK8
UniRef90_I3QH11
UniRef90_Q5NYE4
UniRef90_K6WB31
UniRef90_UPI0003B59845
UniRef90_K6YV61
UniRef90_L0IGH5
UniRef90_Q2S2G2
UniRef90_A3ZQ73
UniRef90_D4IL45
UniRef90_Q0FY06
UniRef90_UPI000367D253
UniRef90_G2J7N6
UniRef90_Q38YF0
UniRef90_UPI00045DA08A
UniRef90_D2PSX7
UniRef90_G2DH95
UniRef90_I1DUP7
UniRef90_K4IR55
UniRef90_UPI0003C1AE6
UniRef90_UPI00022CAA6B
UniRef90_Q0C185
UniRef90_R7WJR4
UniRef90_UPI0003F1AEC6
UniRef90_M1FDV3
UniRef90_J4KSM4
UniRef90_D2R4W3
UniRef90_D4YLN2
UniRef90_V7HTM4
UniRef90_UPI0003FD67AF

UniRef90_L2F5S4	S	K	P	E	F	V	R	V
UniRef90_K0A8R8	E	E	T	Q	F	I	R	M
UniRef90_M1GGEO	N	T	S	Q	L	V	I	T
UniRef90_C7NBM7	E	N	G	K	F	V	K	I
UniRef90_UPI0003775EE6	E	A	K	F	T	R	I	V
UniRef90_R8AT62	K	R	T	T	F	I	R	V
UniRef90_L8IEK9	R	R	A	T	F	I	R	V
UniRef90_T0T4X2	E	K	A	E	F	I	K	I
UniRef90_M5JAH1	E	S	A	R	F	V	Q	I
UniRef90_S0G0X4	E	K	A	R	F	V	K	I
UniRef90_R7IQE2	Q	T	G	R	F	V	K	I
UniRef90_F5S9M6	E	K	A	E	F	V	E	I
UniRef90_B3QFD6	T	K	A	E	F	V	R	I
UniRef90_G9ERD5	T	K	T	E	F	V	Q	V
UniRef90_F9VK03	N	N	S	R	F	V	I	T
UniRef90_W6LQ78	T	R	P	L	F	T	R	V
UniRef90_U2KQY1	D	A	K	F	T	R	I	V
UniRef90_B8J1U4	E	N	T	T	F	C	E	I
UniRef90_UPI00037F3839	E	R	A	R	F	V	R	I
UniRef90_UPI00047D4A11	K	A	R	F	V	K	I	V
UniRef90_UPI000369FFAC	S	K	A	E	F	V	E	I
UniRef90_UPI00035DDEAD	S	K	P	S	F	V	R	I
UniRef90_C6XK57	E	K	A	R	F	I	Q	I
UniRef90_UPI00036B3569	T	K	S	Q	F	V	E	I
UniRef90_Q31F65	T	K	P	S	F	V	R	V
UniRef90_E7D1B3	E	A	K	F	V	K	I	V
UniRef90_UPI00047E0E56	D	R	A	K	F	V	R	I
UniRef90_E0MIW2	S	K	P	R	F	I	K	I
UniRef90_UPI00036E3F20	K	A	K	F	V	V	R	I
UniRef90_C6XUF7	H	N	T	C	F	V	R	I
UniRef90_B4S8R6	K	T	S	E	F	V	K	I
UniRef90_W3ARG7	E	N	A	E	F	M	R	V
UniRef90_E4NV66	K	R	T	T	F	L	R	V
UniRef90_A8PN64	K	K	A	R	F	V	R	I
UniRef90_G5H9I6	D	N	S	V	F	V	R	I
UniRef90_A0A024K8D9	E	G	A	Q	F	R	R	I
UniRef90_C7J142	G	A	R	F	T	R	I	V
UniRef90_UPI00029A57B7	E	K	A	E	F	T	E	I
UniRef90_B0Vfy5	E	K	G	K	F	V	K	I
UniRef90_G0IUN9	E	T	A	K	F	H	R	I
UniRef90_X5MP34	S	R	A	Q	F	V	R	I
UniRef90_B8ERA9	K	C	T	T	F	I	R	V
UniRef90_UPI0003708971	K	K	A	Q	F	V	K	V
UniRef90_H8L6R6	Q	A	K	L	I	R	I	V
UniRef90_A0LRT0	D	R	A	E	F	V	E	I
UniRef90_F8GG21	T	R	P	Q	F	V	R	V
UniRef90_C5BLU4	R	E	A	R	L	I	K	I
UniRef90_G5GGH9	T	K	G	R	F	V	R	I
UniRef90_UPI0003B3B4D8	K	R	A	K	F	V	R	I
UniRef90_E8RS27	R	D	A	R	L	V	R	I
UniRef90_F8AUy1	K	R	T	T	F	V	R	V
UniRef90_G2KQP8	K	N	A	E	F	H	R	I
UniRef90_B3T6J2	T	N	C	K	F	T	I	T
UniRef90_B9KHK2	T	R	C	N	F	V	K	I
UniRef90_W9HDG9	Q	A	R	F	V	R	I	V
UniRef90_H5SK63	Q	K	A	R	F	V	R	I
UniRef90_UPI0004784899	A	K	A	Q	F	V	Q	I
UniRef90_A0LC13	T	K	P	K	F	V	K	V
UniRef90_H5T7Y1	K	N	A	K	F	I	K	I
UniRef90_UPI00036720CD	T	K	A	E	F	V	R	I
UniRef90_C4UGE7	K	K	A	R	F	I	H	V
UniRef90_UPI0003B3152B	A	N	A	N	F	L	R	I
UniRef90_D5BQK8	K	T	G	Q	F	V	R	I
UniRef90_I3QH11	E	R	A	Q	F	V	E	I
UniRef90_Q5NYE4	S	Q	G	R	F	V	R	I
UniRef90_K6WB31	D	N	G	Q	F	V	R	I
UniRef90_UPI0003B59845	T	K	P	Q	F	V	K	V
UniRef90_K6YV61	E	S	A	E	F	I	R	V
UniRef90_L0IGH5	E	S	A	Q	F	V	R	I
UniRef90_Q2S2G2	R	D	A	K	F	I	R	V
UniRef90_A3ZQ73	Q	A	R	F	I	R	I	V
UniRef90_D4IL45	E	K	A	E	F	V	R	I
UniRef90_Q0FY06	E	R	A	R	F	V	R	I
UniRef90_UPI000367D253	A	N	A	R	F	V	E	I
UniRef90_G2J7N6	K	V	D	Y	V	L	V	I
UniRef90_Q38YF0	E	K	G	R	F	V	R	I
UniRef90_UPI00045DA08A	T	K	P	R	F	V	R	V
UniRef90_D2PSX7	T	K	P	E	F	V	R	V
UniRef90_G2DH95	R	K	G	R	F	I	R	I
UniRef90_I1DUP7	Q	R	A	K	F	L	R	I
UniRef90_K4IRS5	T	K	T	K	F	N	R	I
UniRef90_UPI0003C1AEA6	Q	K	A	E	F	V	Q	I
UniRef90_UPI00022CAA6B	D	A	Q	F	V	Q	I	V
UniRef90_Q0C185	R	R	T	T	F	I	R	V
UniRef90_R7WJR4	N	K	P	R	F	V	R	I
UniRef90_UPI0003F1AEC6	N	D	S	E	F	I	E	I
UniRef90_M1FDV3	T	E	T	R	F	I	Q	V
UniRef90_J4KSM4	A	Q	G	R	F	V	R	I
UniRef90_D2R4W3	K	V	D	Y	V	L	V	I
UniRef90_D4YLN2	T	K	A	E	F	V	K	L
UniRef90_V7HTM4	E	K	A	E	F	V	K	L
UniRef90_UPI0003FD67AF	T	K	A	E	F	V	K	L

1 10 20 30 40
UniRef90_K1LBD1 D D P T L V G I I T A R D V R Y T K N K D K Q V S Q V M T G N D M I T S
UniRef90_UPI0004797DEE L L V G I V T N R D M R F E S D Q T A K V V A D V M T S R N L V T A
UniRef90_E8SGN9 F D Y E D I Q L I V P N K S I N V K S R S E I D T S V Q F G P K R F K L
UniRef90_R5BSQ5 L V G I V T N R D M R F E V D H S R P V S E V M T K G P L V T A
UniRef90_W77453 D G K L L G I I T N R D M R F E V D H S R P V S E V M T K G P L V T A
UniRef90_F0SM06 E D G K L L G I I T N R D M R F E V D H S R P V S E V M T K G P L V T A
UniRef90_A9WN11 L L G I V T N R D T R F V L E P D F P T R L V H E V M T K M
UniRef90_J6J593 L D F K D V L L R P K R S T L G S R A D V D V I T R T L K F V H T G A E W T G F
UniRef90_K9HKW9 L V G I I T N R D V R F A S D M A Q P V A S L M T S D N L V T V
UniRef90_C0R829 A L T F D D V S L I P R K S S V L P S E V S L K T K L T K N I S L N I
UniRef90_W7ZN00 D R G I L I G I I T N R D M R F E V D Q D R H V S E V M T P A P L I T A
UniRef90_Q3IQG5 L S Y D D V L L V P Q R S P V D S R D N V E L T T T L A D G L T L S L
UniRef90_UPI000255F1F3 L L G I I T N R D T R F I P R A E R T V S E S A M T R M P L I T A
UniRef90_R4V876 L V G I V T S R D L R F E T R L D L S V T A A M T P E R L V T V
UniRef90_A5CWV9 T G R D V R F K T R L N E L V K N V M T P Q N L I T V
UniRef90_F7YZI2 F D Y E D I Q L I P E K C I I V N S R S E C D T S V E L G R K F R
UniRef90_I4CQK8 L V G I V T G R D L R F T P N A G D S V A A I M T K D K L V T V
UniRef90_A9HID1 L V G M L T N R D V R F A T D P A L R V D S L M T R E N L V T V
UniRef90_R5RZN3 L L G I V T N R D L R F Q D N K K I P V S Q D N M T K D N L I T A
UniRef90_D0RPI9 L L G I I T N R D L R F S R N D K A K V V K D L M T K N V I T T
UniRef90_R7KSY2 D D K R V L G M V T S R D L R F E T R M D P V S Q I M T P D R L V T V
UniRef90_Q1QZL7 L M G I V T G R D M R F P D K G D S V A E I M T R E K L V T V
UniRef90_D5VTD0 D E K V V G I I T H R D I K A I K D K G V K V K E V M T K N V V T A K
UniRef90_C2CZW8 F D Y E D I Q L I V P N K C I I K S R S D A D T S L K F G P K T F
UniRef90_UPI0003663F04 D G A L V G I I T N R D M R F E V D H T K R V R E I M T T A P L I T A
UniRef90_UPI00037A40CD L V G I V T S R D V R F E T R F D E P V S R V M T K D R L V T V
UniRef90_K1E5Z3 D N V L I G I I T N R D L R F T P V A E W S V R D V M T P M P L I T A
UniRef90_I7KGB5 F D Y E D V Q L I P N L G I L E S R S Q A D T S V K L G R Y T F K
UniRef90_A0A010BWM7 T G R D T R F E T N L E Q P V S N I M T Q D R L V T V
UniRef90_A1SYT7 Q L V G I I T G R D V L F E T D L N K L V S S V M T K K D L V T A
UniRef90_UPI00025552EA L V G I V T N R D L R F C Q D D T Q A V V A D V M T R D P V T G T
UniRef90_E4TLP7 L L G I V T N R D L R F Q D G K V S V E K V M T S G K L I T A
UniRef90_E4NCI3 L L G I V T N R D M A F E T D R S R K V G Q D I M T P M P L I T G
UniRef90_UPI00036D65F5 L V G I L T E R D V L F E P N C S K L V G D I M T K D V V G T D
UniRef90_D3RQ06 L V G I V T G R D L R F E T R M G E P V S A I M T K E R L V T V
UniRef90_A0A011RQ42 F D Y E D I Q L I P A K S T V R S R S E C D T S V I T L G K H T F Q M
UniRef90_R5EWC1 L L G I I T G R D T R F L T N G D V K V H E V M T K E R L V T V
UniRef90_A3TQ49 L L G I I T N R D L R F T P V A E W A T T L V R D V M T N M
UniRef90_D2MN71 F D Y E D I Q L I P N K C I I V K S R S E C N P S L L F G Q H R F Q L
UniRef90_D5RMA1 L V G I L T Y R D V R F A T D P N T R V Y G L M T R E N L V T V
UniRef90_S5Y1M6 L V G I V T N R D M R F A S D E K T P V S V M M S S E N L A I L
UniRef90_UPI0003675976 F D Y E D I Q L I P A K G I V D S R S Q C D T S I E F G G H T F K
UniRef90_W1VIY5 L L G I I T N R D L R F V P A D T W R V R D C M T R E R L I T G
UniRef90_E0DCW5 L V G I C I T N R D M R F E A D Y S R K V S E I M T P M P L F V A
UniRef90_M1NVU0 D G V L L G I C I T N R D M R F E S D P N R K V S E V M T P M P L V V A
UniRef90_D0WP22 D D K L L G I I T N R D L R F I P E S E F A V R T V R E T M T P M
UniRef90_UPI00046AF808 F D Y E D I Q L I P N K C I I I D S R S K A D T T V K L G K Y N F K M
UniRef90_UPI0003FCED67 L V G I I T N R D M R F V P D A T T K V H E V M T S G D L V T G
UniRef90_UPI00045EBD82 E D R L L G I I T N R D L R F V A D Y A T R V R D V M T V M P L V T G
UniRef90_C3PL74 L V G I C I T N R D M R F E A D F S R K V S E I M T P M P L V V A
UniRef90_Y0I3D0 L V G I V T E R D L L F A G S N G T I A D V M T K D V V T A K
UniRef90_A9A5Y7 D N K L L G I I T N R D L R F V P T E E W S T R R V S D C M T P M
UniRef90_C0W0V0 D D G D L V G I V T D R D F R F E R K L D A T V A S I M T K D R L V T V
UniRef90_S4LA74 E K N V L V G M V T S R D M W Y L E D E S T P A H K M M T P R E K L J A V
UniRef90_Q2BK62 L I G I V T N R D L R F T P V A E W A T T V A D V M T P A
UniRef90_UPI000174463A T F D Y E Q V Q L I P A K C I V I T S R S Q A D T S I E F G G R E F K L
UniRef90_D1BXB6 F D Y E D I Q L I P A K C I I V R S R T E C D P T V V L G E H R F K I
UniRef90_D4YHH8 L S G I L T K R D L E F S D N K G L V K D I M T K D
UniRef90_Q03GJ0 L V G I I T S R D L R F A P D N T Q L V E E V M T R D P V V E V
UniRef90_Q6L1U7 L V G I I T N R D V R F A H N K E Q K V A D L M T S P V I T A A
UniRef90_R6SHN0 D Q K L I G I I T N R D V R F A H N K E Q K V A D L M T S P V I T A A
UniRef90_UPI0003604EBB L V G I V T N R D M R F A S D D A T P V S A M M T S D N L A V L
UniRef90_G5ZYR4 S Y T Y D D I I C L P R Y I D F P A D A V D L S S Q L T R N I R V A A
UniRef90_K2HEX4 L V G I V T N R D M R F A T D D A T P V H A M M T R E N I A M L
UniRef90_D8QUP9 L V G L L T G N D F E F C S D M A K T V G E V M A T D I I T I N
UniRef90_D5AUM1 L V G I I T R D I K Y I K N K K T V L K D C M T K K L I V G D
UniRef90_K2EQP5 L V G I V T S R D L R F E T R F D A P V T S V M T K E Q L I T V
UniRef90_A6UWA2 D E V L G I I S S T D V R P H L E V E D D S L P V S E I M T K E V V T K L
UniRef90_F1LE24 L V G I I T S R D I Q F V E D D S L P V S E I M T K E V V T K L
UniRef90_U2ESL5 D E V L G I I S S T D V R P H L E V E D D S L P V S E I M T K E V V T K L
UniRef90_S6EC97 L V G I I T S R D I Q F V E D D S L P V S E I M T K E V V T K L
UniRef90_U1NX91 D E G Y L V G I V T N R D L R F E K D R S K R I D E V M T K K N I V T T
UniRef90_UPI0003B61804 A I T F D D V L L V P S Y N H H E S R R V V E T T S T D R L G K L V L N L
UniRef90_R6LK37 E E I V G I I S R D V N P I I K S G K D R L V K D I M T S D V V T T S
UniRef90_I7HWU7 L I G I I T S R D V Q F H E N N K D P V S Q V M T K S K K G K L
UniRef90_R9SLF4 L V G I I T S R D I Q F L D L D D T P V G E V M T P G S L V T A
UniRef90_H8WZU4 E V L G I I S G T R P Y L E V G E R D A V R E A M T D E V I T A P
UniRef90_Q6C897 L V G I V T S R D V Q F H E D D S S K V S E V M T T D V I T G A
UniRef90_D8J3H4 L V G I V S N R D I D F I E D R Q T K L K E V M S K N L I T A
UniRef90_G8YSI8 L V G I V T S R D V Q F H E D D S S K V S E V M T T D V I T G A
UniRef90_G4YTT3 L V G I V S N R D I D F I E D R Q T K L K E V M S K N L I T A
UniRef90_C0AQW2 D E G T L L G I C I T N R D M R F E R D Y S R K V S D I M T A M P L V V A
UniRef90_W5XR76 F D D V L L V P K K T H L A S R K D A D I G V E L K G L G R L S V
UniRef90_Q1IAJ4 V G M V T S R D Y R V S R L D K D V K V K E F M T P D Q L I Y A
UniRef90_R6QAC4 M T P R I E L V V A P A G V T L K E A N E I L Q R S K K G K L
UniRef90_UPI000154EB84 A V Q F E V G F L T P V R N V M T K R D E V V A T A G V T L K E A N E I L G K L
UniRef90_H3A423 F D Y D N I L L L P R K C R V A S R S E C D T S V E L G S R S F R I
UniRef90_UPI0002375373 L L G I I T S R D F Q F L E D D S M K V K D V M T T E L V T G K
UniRef90_UPI0003F059F4 L M Q D E R K G K L
UniRef90_Q6FM59 T Y D F D D M M L L P R E C T V L S R A D C D V S A K L G K F T F K I
UniRef90_F2UFU1
UniRef90_Q4N8V1

UniRef90_K1LBD1
UniRef90_UPI0004797DEE
UniRef90_E8SGN9
UniRef90_R5BSQ5
UniRef90_W77453
UniRef90_F0SM06
UniRef90_A9WN11
UniRef90_J6J593
UniRef90_K9HKW9
UniRef90_C0R829
UniRef90_W7ZN00
UniRef90_Q3IQG5
UniRef90_UPI000255F1F3
UniRef90_R4V876
UniRef90_A5CWW9
UniRef90_F7YZ12
UniRef90_I4CQK8
UniRef90_A9HID1
UniRef90_R5RZN3
UniRef90_D0RPI9
UniRef90_R7KSY2
UniRef90_Q1QZL7
UniRef90_D5VTD0
UniRef90_C2CZW8
UniRef90_UPI0003663F04
UniRef90_UPI00037A40CD
UniRef90_K1E5Z3
UniRef90_I7KGB5
UniRef90_A0A010BWM7
UniRef90_A1SYT7
UniRef90_UPI00025552EA
UniRef90_E4TLP7
UniRef90_E4NCI3
UniRef90_UPI00036D65F5
UniRef90_D3RQ06
UniRef90_A0A011RQ42
UniRef90_R5EWC1
UniRef90_A3TQ49
UniRef90_D2MN71
UniRef90_D5RMA1
UniRef90_S5Y1M6
UniRef90_UPI0003675976
UniRef90_W1VIY5
UniRef90_E0DCW5
UniRef90_M1NVU0
UniRef90_D0WP22
UniRef90_UPI00046AF808
UniRef90_UPI0003FCED67
UniRef90_UPI00045EBD82
UniRef90_C3PL74
UniRef90_Y0I3D0
UniRef90_A9A5Y7
UniRef90_C0W0V0
UniRef90_S4LA74
UniRef90_Q2BK62
UniRef90_UPI000174463A
UniRef90_D1BXB6
UniRef90_D4YHH8
UniRef90_Q03GJ0
UniRef90_Q6L1U7
UniRef90_R6SHN0
UniRef90_UPI0003604EBB
UniRef90_G5ZYR4
UniRef90_K2HEX4
UniRef90_D8QUP9
UniRef90_D5AUM1
UniRef90_K2EQP5
UniRef90_A6UWA2
UniRef90_F1LE24
UniRef90_U2ESL5
UniRef90_S6EC97
UniRef90_U1NX91
UniRef90_UPI0003B61804
UniRef90_R6LK37
UniRef90_I7HWU7
UniRef90_R9SLF4
UniRef90_H8WZU4
UniRef90_Q6C897
UniRef90_D8J3H4
UniRef90_G8YSI8
UniRef90_G4YTT3
UniRef90_C0AQW2
UniRef90_W5XR76
UniRef90_Q1IAJ4
UniRef90_R6QAC4
UniRef90_UPI000154EB84
UniRef90_H3A423
UniRef90_UPI0002375373
UniRef90_UPI0003F059F4
UniRef90_Q6FM59
UniRef90_F2UFU1
UniRef90_Q4N8V1

UniRef90_K1LBD1 A A K D Q N G Q L I V A A A I I G V T N D T F K R A Q A L I D A G V D A L V I V
UniRef90_UPI0004797DEE P D K D D S G R L R V G A A I I G V T N D T F K R A Q A L I D A G V D A L V I V
UniRef90_E8SGN9 V K I K M Q S K G R L L Y A S I S V G V G E G E F E F F I D A L K A E S N L T P E A V I T I
UniRef90_R5BSQ5 A C K D D G K G R L R V A A A G V G V G I T D D D A D G A F F I D A L K A E S N L T P E A V I T I
UniRef90_W77453 P N K D P D G R L I C G A A A V G V G E G E D S Y S R R A M S L L A E A S G V D D V L M V
UniRef90_F0SM06 P R A S K D E G R L R V A A A V G V G E G E D S Y S R R A M S L L A E A S G V D D V L M V
UniRef90_A9WN11 P T K D D E G R L R V G A A A V G F F G D G W F E R R A M R L L I D A G V D D A L F V
UniRef90_J6J593 F K A E L A A N V F Y A I I G T T R D D L D K L A A V R A R V P V T K I C I
UniRef90_K9HKW9 P H A S K D P S G R L R V A A A T G V G K D G L A R A E A L L A A G V D D L L V I
UniRef90_C0R829 S N K D L N G R L R V G A A V S I D V D T T E R V E E L V K A H A G V D D L L V I
UniRef90_W7ZN00 P N K D R D G R L L V G A A V S I G E D A W A R A M T L A E V G V D D L V I V
UniRef90_Q3IQG5 V A S V A D D G R L P V A A A V G I A E P H T E R R A A A L V E A G V D M L V V
UniRef90_UPI000255F1F3 P A K D E E G R L R V G A A V G F F G D G Y E R S M A L V E A G A D V G D L L V V
UniRef90_R4V876 A C K D E F G R L R A G A A V S T G E G T E E R I V E A L L A E A G V D L L V V
UniRef90_A5CWV9 P N K D S E E R L R V G A A V G V G A E T E S K A F I D A L I E A G V D L V I V
UniRef90_F7Y12 V K E M K S E R G L Y A S I S T G V G K P E E Y A F I E E L A T R N L E P E Y I T I
UniRef90_I4CQK8 A S K D S Q G R L R V G A A V G T G A D T G E R V E A L A A A G V D V V V V
UniRef90_A9HID1 A N K D S M G R L R C G A A A V G V G E D D G F T R A R A L I E A G V D V V V V
UniRef90_R5RZN3 A S K D S K G R L L V A A A V G V G K S D T L D R L E M L V S A G A G V D A V V I
UniRef90_D0RPI9 P S K D K K K S L I V G A A V G V G E D G L K R A K S L I S A N C D F L V V
UniRef90_R7KSU2 A A K D S H G R L L V G A A V G V G A G T E E R I E L M L E A G V D V I V V
UniRef90_Q1QZL7 A A K D G D G R L L A G A A V G T G P E T P D R I L A A L L A E A G V D V I V V
UniRef90_D5VTD0 P Q A A R D R K G R L I V A A A C G P H D F K R A E A L I E A E V D A L V I
UniRef90_C2CZW8 I E M M H A K D L Y A S I S V G I K D D E Y K F I D E L A E H N N K P E Y I T I
UniRef90_UPI0003663F04 P T K D A D G R L L C G A A V G V G A D S H E R A M A L V D A G V D V L V V
UniRef90_UPI00037A40CD P C K D S A G R L L R V G A A V G T G A D T E E R V S A L V E A G V D L V V V
UniRef90_K1E5Z3 P N K D A Q Q R L L V G A A I G Y F G D A W E R A T T L I D A G V D V L V A
UniRef90_I7KGB5 V K S M Q S E Q L I A S I S V G I K P E E Y Q F I D D L K S A G L V P E F I T V
UniRef90_A0A010BWM7 S C K D D L G R L R V G A A V G T G A D T P S R V E A L L V E A G V D V I V V
UniRef90_A1SYT7 A C K D E L G R L R V G A A V G A G A G N E E R V A A L V A A G V D V L L I
UniRef90_UPI00025552EA P K A A T D K G G R L I V G A A V A S P M D Y P V R M P A L L K N A K V D F V V L
UniRef90_E4TLP7 A C K D E Y G R L R V G A A V G V T G D I E E R I D A L V K A G V D V V T I
UniRef90_E4NCI3 P N K D S E G R L L V G A A V G A S A E A F D R A A L V D A G A G V D F L V V
UniRef90_UPI00036D65F5 P N K D N K G R P I V G A A V G V K G D F M E R T E A L I D A G T D V G V D V I V
UniRef90_D3RQ06 P K A D D H E R L R C G A A V S V G K G T E E R I A A L V E A G V D V V V V
UniRef90_A0A011RQ42 V E M M H G R G R L F A S I S L G V K T E E Y G F V E E L A K D S L V P E Y I T I
UniRef90_R5EWC1 A C K D A L G R L R V G A A I V G A G A G N E D R A K A L V E A G V D V L L V
UniRef90_A3TQ49 P S K D A S G R L L V G A A I G Y F G D A W E R A T T L V D A G V D V L V P
UniRef90_D2MN71 V Q R M K S Q N L I S S I S V G V K P S E F D F I K E L N Q Q N L H P D Y I T I
UniRef90_D5RMA1 A A K D A M G R L R V A A A T G T G E D G I R R A E L L V E A E V D V V V V
UniRef90_S5Y1M6 M C K D D L G R L R V A A A S T V G E E G F E R S M A L I E A G V D L V V I
UniRef90_UPI0003675976 V E M M Q Q G R L F A S I S L G I K K A E Y D F V R E L A H K N L V P E Y I T I
UniRef90_W1VIY5 A T K D E E G R L V V G A A V G Y W K D T W D R A G A L A D A G V D V L V V
UniRef90_E0DCW5 P N K D A S G R L L V G A A I G V G E E S F Q R A G A L V D A G V D V L V V
UniRef90_M1NVU0 P N K D S S G R L L V A A G I G T G E E S W Q R A G L L V E A G V D V L V I
UniRef90_D0WP22 P N K D A G R L L V G A A V G Y L S D S W E R A G A L A E E G V D V L V I
UniRef90_UPI00046AF808 I K K M H S K N L I A S I S V G V K E Y E Y E F V S S L K D D A P E F I T I
UniRef90_UPI0003FCED67 P D K D E Q G R L R V G A A I G F F G D A F D R A V A L R D A G V D V L V V
UniRef90_UPI00045EBD82 P T K D A E G R L V V A A A V G F F G D A W E R A V A L V D A G V D V L V V
UniRef90_C3PL74 P N K D A S G R L L V A A G I G T G E E S Y Q R A G Q L V D A G V D V L V V
UniRef90_Y0I3D0 M Q Q D E H G R L L V A A A I G I S K D T D I R A Q K L V E A G V D V L V V
UniRef90_A9A5Y7 P N K D K K G R P L V G A A V G V K G D F L E R S E S L L N A G A D V L V V
UniRef90_C0W0V0 P N K D K E G R L I V G A A I G Y W G D S W D R A V A L A E A G V D V L V V
UniRef90_S4LA74 V K K S Q D A S F A V G C A V G V G Q Q G W E R A D M L V E A G V D A L V V
UniRef90_Q2BK62 A A K D A K G R L I V G A A V G T G P E T G D R V A A L V E A G V D V V I V
UniRef90_UPI000174463A T S K D G Q G R L R A G A A V G V S E D C V D R A L A M Q A A G A D A I F I
UniRef90_D1BXB6 P N K D G Q G R L L V G A A I G Y Y G D A W Q R A T T L I D A G V D V L V A
UniRef90_D4YHH8 I K H M N A E G L F A S I S V G V K D D E Y A L I D Q L A E E N L T P D Y I T I
UniRef90_Q03GJ0 V K K M K D K G L I S S I S V G V K D D E Y A L I D Q L A E E N L T P D Y I T I
UniRef90_Q6L1U7 P D A S R D N D G K L M V G A A V G P F E D I N R A L A L Q D A G V D F I V V
UniRef90_R6SHN0 A N A A R D K K G R L L V G A A V A S E D V L N R V E L L V K A G V D V L V V
UniRef90_UPI0003604EBB P Q A A T D A S G R L L V G A A V A S D V E R L G P L F E A R V D F V V V
UniRef90_G5ZYR4 P S K D D A G R L L V A A A T G A G L D G V A R A E A L I A A G A D V I V V
UniRef90_K2HEX4 P C K D G L G R L R V G A A S T V G D A G F E R S A A L I D A G V D I V V V
UniRef90_D8QUP9 V R A A K D G R L V V G A A I G T R E A D K E R L K L L V E A G V D V V I L
UniRef90_D5AUM1 A C K D E K G R L R V A A A S T V G D A G Y E R S V A L I E A G C D L I V I
UniRef90_K2EQP5 Y N I D S H G N L F V G A A V G I G P E A I E R A E A V I R K G A N V D A I A I
UniRef90_A6UWA2 P N A A R D E K G R L I V A G A C G P S D L N R A H A L I D A N V D A I A I
UniRef90_F1LE24 V D S N P Q I M S Q I G I S T S D F D K L R T V C D M I P E L E Y I C L
UniRef90_U2ESL5 P N K D A Q G S L R V G A A V G P G P E T F A R V Q A L A E A G V D V V V V
UniRef90_S6EC97 S K S A T T K Q L L C G A T V G T M P A D R E R L K L L A E A G L D V V V V
UniRef90_U1NX91 D D A A R D D E G A L R V G A A V G P G E M D R A L A A D E A G A D V L F I
UniRef90_UPI0003B61804 P S K D S R K L L C G A A I G T H N D D K Y R L D L V Q S G V D V V V L
UniRef90_R6LK37 A C K D S K G R L R V A A G V G V T A D T L E R M Q A L V D A G A D A I V I
UniRef90_I7HWU7 F K K C K G P V F V S V G C T E N E L Q R A E A L R D A G A D F F C V
UniRef90_R9SLF4 A N A A R D K K G R L L V A A T G P F D L D R A M A L D E A G A D I I S I
UniRef90_H8WZU4 P N S S K S P E T L C G A A I G T R P D D R E R L E K L V E A G L D V V I L
UniRef90_Q6C897 G N A I H A E D R L R V G A A V G P F D D D R A V A A D E A G A D V L F I
UniRef90_D8J3H4 P L A S K S F D S L C G A A I G T L D A D R E R L D K L V A A G L D V V V L
UniRef90_G8YSI8 P S K D A N K Q L L V G A A I G T R P N D R E R C T E L V K A G V N L I V I
UniRef90_G4YTT3 A C K D E H G R L R V G A A V G A G A G N E E R V A A L V A A G V D L I L V I
UniRef90_C0AQW2 P N S A K D A S G R L L V A A G I G T G D E S Y D R A G M L V D A G V D V L V V
UniRef90_W5XR76 V H A D S Q G R L K V G G S I G I V D D Y L Q R A A G L A A C D V D F L T L
UniRef90_R6QAC4 K N E L L D A Q K R Y V V G A G I N T R D Y E R V P A L V E A G V D L L C I
UniRef90_UPI000154EB84 A S K D S H K Q L L C G A A V G T R E D D K Y R L D L T Q A G A D V I V L
UniRef90_H3A423 A S K D S K K Q L L C G A A I G T Q E D D K Y R L D L L V Q A G V D A V V L
UniRef90_UPI0002375373 V R D M Q A K G C Y A S I S L G V K R S D Y D T V D A L V A Q G L A P E Y V S I
UniRef90_UPI0003F059F4 A S K D S K K Q L L C G A A I G T H E S D K N R L D L L V Q A G V D V I L
UniRef90_Q6FM59 P K S A T T K Q L L C G A A I G T D A D K E R L R L L V E A G L D V V I L
UniRef90_F2UFU1 A S K D A L G Q L L V G A A I G T R P D D R D R V R T L A E A G V D V I V I
UniRef90_Q4N8V1 A H K M R S L G L Y V S I A V G V K E E S Y K V V S D L K E S N L V P E F I T I

UniRef90_K1LBD1 D T A H G H S A G G V I R K I V E I I R D K A Y P D I V A I V A G G N I V T A E E A G T R A A L L
UniRef90_UPI0004797DEE D S S H G H S R D Q R V I D M I K A S I I S K E D F P D G D V A D F V V V A G G N I V T A E E A G T R A A L L
UniRef90_E8SGN9 D I A H G H S R D R Q V I D G M I K A Y K V K Q V H L K V K E H L K V K Q F P D K A F V V V A G G N I V T A E E A G T R A A L L
UniRef90_R5BSQ5 D C A H G H S R D R Q V I D G M I K A Y K V K Q V H L K V K E H L K V K Q F P D K A F V V V A G G N I V T A E E A G T R A A L L
UniRef90_W77453 D T A H G H S R R S V L E M V K A R R L K K Q L K K Q L G D V D D V I V G G N V A T R V E G A Q A M
UniRef90_F0SM06 D S A H G H S R A N V L A T A Q R R L K K Q K K Q W D V D V I V A G G N V A T R E G A Q A M
UniRef90_A9WN11 D T A N G H S A Q G V L E M I V R R L K K S D A A H V D V I V A G G Q A A T L E G A Q A M
UniRef90_J6J593 D V A N G Y S Q G H F L E E V V T R E V R E K N S P D A V I M A G G A I V T G E M A E A L L
UniRef90_K9HKW9 D T A H G H S A G V I M T A V R E I K R K S N E N A Q D L I V A G G N I V T P E E A A K A L L
UniRef90_C0R829 D S A H G H S A G T R I V L E L V K T I V K N K Y P N E N A Q D L I V A G G N I V T P E E A A K A L L
UniRef90_W7ZN00 D T A H G H S Q S R G V L Q M V S K V K A S A F V G D E V T Q L I V A G G N V A T R A D G A L A L L
UniRef90_Q3IQG5 D V A H G H S M E R T L D M V T A E R L K K A S A F P E T A L I V A G G N V A T P D G G V A L L
UniRef90_UPI000255F1F3 D T A N G H T Q G V L D R V I S A W L K K Q H F P Q V S Q S I V V G G N I V A T A T G D G A A E A L L
UniRef90_R4V876 D T A H G H S R Q G V L D R V I S A W L K K Q H F P Q V S Q S I V V G G N I V A T A T G D G A A E A L L
UniRef90_A5CWW9 D T A H G H S R Q G V L D R V I S A W L K K Q H F P Q V S Q S I V V G G N I V A T A T G D G A A E A L L
UniRef90_F7YZI2 D I A H G H S N A V I L D M I H H I L K K K H L P P E T T F V I V A G G N I V T G T P E A A V R E L L
UniRef90_I4CQK8 D T A H G H S R G V I D R V R W V K K A N F P Q V I Q V V I V A G G N I V A T A E A A L D L L
UniRef90_A9HID1 D T A H G H S R G V I D T V A R V K A V D P D R I Q Q I V V A G G N V A T P E A A V A L L
UniRef90_R5RZN3 D T A H G H S V G V L E V I V S K A C E A F R D I Q Q I V V A G N V A T P E E A A L D L L
UniRef90_D0RPI9 D T A H G H S K A V L D I V K K I R N L S K K I T Q L I V A G N I A T E E E A A L D L L
UniRef90_R7KSY2 D T A H G H S Q G V L D R V A W V K K E N Y P Q Q L Q Q V I G G N I A T A A A A R A L L
UniRef90_Q1QZL7 D T A H G H S Q G V I E R V R V W K K E H Y P Q Q V V V I G G N I A T A A A A K A L L
UniRef90_D5VTD0 D C A H A H N L K V V E N T K K F K E D G T D T K L I V G N I A T K E A A E D L L
UniRef90_C2CZW8 D V A H G H S D F V L K M T H Y I L K K E L P D S D F L I A G G N L A T G T P E A A V R E L L
UniRef90_UPI0003663F04 D T A H G H S K A V A E T M V A T L K Q E L G D V D F L I A G G N V A T A T K S G A Q S L L
UniRef90_UPI00037A40CD D T A H G H S K G V I D R V A A I L K K Q Y G D V L Q Q V V G G N I V A T A T G D A A L A L L
UniRef90_K1E5Z3 D T A H G H V R L L L E M C Y I K K K D T R H D V I V G G N V A T A T R E A G A Q A F L L
UniRef90_I7KGB5 D V A H G H A V P V I D M V E R Y I K K T L P D S F V I V A G G N I V A T A T G D A A V R D L L
UniRef90_A0A010BWM7 D T A H G H S A G V I E R V R W V K K Q N F P Q D V D V I V G G N I A T A T G D A A L A L L
UniRef90_A1SYT7 D S S H G H S Q G V L D R I K A T R L A F P D L I V G G N V A T A T G D G A L A L L
UniRef90_UPI00025552EA D T A H G D S K N V M D A V R G I K E Q F G I P V V G G N V A S K G D G T R R L L
UniRef90_E4TLP7 D T A H G H S K G V I D T A T R I K K A Y P D L E M I V G N I A T P E A A K A L L
UniRef90_E4NCI3 D T S H G H S H N A I S W T S K I K A A V P D L D V V G G N V A T A T R D G A R A L L
UniRef90_UPI00036D65F5 D I A H G H S E N A I N T V K N I K K A F S D C E L V I G G N V A T A T R N G A E D L L
UniRef90_D3RQ06 D T A H G H S Q G V L D R V R W V K T H Y P D L Q L I G G N I A T A D A A R A L L
UniRef90_A0A011RQ42 D V A H G H S D L V I D M I R H V L K E H M P E T T F L I A G G N V A T A T P E A A V R E L L
UniRef90_R5EWC1 D S S H G H S Q G V L D R L K W L R K E Y P E L P I V I A G G N V A T A A G A Q A L L
UniRef90_A3TQ49 D V A N G H A R L M L D M I K R L K S D T K H V Q I L A G N V A T A R A G A Q A L L
UniRef90_D2MN71 D T A H G H S A N F V L E M I H H I L K K H L P N S S F Q V I V A G N I A T P E A A V R E L L
UniRef90_D5RMA1 D T A H G H S A G V L K A V E R V K R M S N S V S Q V V A G N V A T P E A A K A L L
UniRef90_S5Y1M6 D T A H G H S A G V A K A V E R V K S F S N S V S Q V V A G N V A T A S A A K A L L
UniRef90_UPI0003675976 D V A H G H S D G V I R M I K F V K H L P D S V Q L I A G G N V A T A T R E A A V R D L L
UniRef90_W1VIY5 D T A N G G A K L A L E M I S R V L K K D F A G D S V Q I V I A G G N V A T P R E G A Q A L L
UniRef90_E0DCW5 D S A H A H S R G V L E M V S R V K A E F G D A D I V I G G N L A T R A A A Q A M
UniRef90_M1NVU0 D S A H A H N N R V L E M V S R V K S E W F D G V E I V G G N V A T R G A A Q A M
UniRef90_D0WP22 D S A N G E A K L A L D M I S R R L R K S D F D G V E I V G G N V A T R E G A Q A M
UniRef90_UPI00046AF808 D I A H G H A D S V I K M I K H I K K E M P E T F V I V A G N V G T P E A A V R E L L
UniRef90_UPI0003FCED67 D T A N G H S R G E I D M I R R R I K K S D F A G V Q V I G G N I A T R E G A A A L L
UniRef90_UPI00045EBD82 D T A N G H A R L M L D M V R R I K A S D T R H V I D Q V I V G G N I A T R E G A A A L L
UniRef90_C3PL74 D S A H A H N N R V L E M V S R V Q K D F G D I T D V I G G N L A T R E A T A R D M
UniRef90_Y0I3D0 D T A H G H S K G V I D Q V R N I K K A T Y P E I T L V A G N I A T A E Q T K D L L
UniRef90_A9A5Y7 D I A H G H S E N A I S T M V K N I K K A F P D C E L I V A G N I A T A Q G A E D L L
UniRef90_C0W0V0 D T A N G G A K L A L E M S K I K A Q F A G V I D L I G G N V A T T E G A Q A L L
UniRef90_S4LA74 D T A H G H S R L V L D T A E Y L K K N Y P E V Q V T L I V G N I V S A R E A A L C L L
UniRef90_Q2BK62 D T A H G H S K G V I D R V A W V K E N F P Q V I Q V I V G G N I A T S A E A L A L L
UniRef90_UPI000174463A D A A T G H T S R V M N V I S R L R E A L G D T P V V A G N V A T K D G A K D L L
UniRef90_D1BXB6 D T A H G H V R M L I E M V E R L K K Q D T R D V I V G G N V A T R E G A Q S F L L
UniRef90_D4YHH8 D I A H G H S E T V I D M I K Y I K E Q I P E T F V I V A G N V A T P E A A V R D L L
UniRef90_Q03GJ0 D V A H G H A Q S V I D M I H Y I L K E K L P A A F V I V A G N V G T Q E G V R E L L
UniRef90_Q6L1U7 D T A H A H N M N V N S I R E M R K K I L P N I D V I A G N I A T G D A A N D L L
UniRef90_R6SHN0 D S A H A H S K N V L N T I V K K I K E K F P N I D V I V G G N I V T K E A A K D L L
UniRef90_UPI0003604EBB D T A H G D S R N V L E T I K L I K A R H P X L P V V G G N V A T G A G T R R L L
UniRef90_G5ZYR4 D T A H G H S A G V L Q A V A D I R K L S N T V Q I V I V G N I A T A D G A Q A L L
UniRef90_K2HEX4 D T A H G H S E G V G H A V E R A R K L S N E T Q I V A G N I A T A E G A R A L L
UniRef90_D8QUP9 D S S Q G D S Y Q R E M L G Y A K K W F P E V D V I V A G N V V T M Q Q A R N L L
UniRef90_D5AUM1 D T A H G H S E G V A K A V I K L F A P E G V D C A G N V A T A E S A T K A L L
UniRef90_K2EQP5 D T A H G D S K A V Y E T L Q A L K D S F P E T D V V V G N V S E G S A K R L L
UniRef90_A6UWA2 D C A H A H N M T V V N N V K L K K E G T N K L I V G N I A T K E A A L D L L
UniRef90_F1LE24 D V A N G Y S E V F V D F I R R V L R E Q F P T H T I E A G N V V T G E M V E E L L
UniRef90_U2ESL5 D T A H G H S E G V L D M T V R Q L K Q R F G D L Q I I V G G N V G T A E G A K A L L
UniRef90_S6EC97 D S S Q G N S V F Q I E M K V K K E N F T E L E V I G G N V V T R E Q A A S L L
UniRef90_U1NX91 D C A H A H N R S V I D S A R T V K H E V E A D V V V G N V G T R E A A E A L L
UniRef90_UPI0003B61804 D S S Q G N S V F Q I N M I K Y L K E K Y P S L Q V I V G G N V V T A A Q A K N L L
UniRef90_R6LK37 D T A H G H S K G V I E K L K E A K A H F P H I D I V I V G N I A T G E A A K A L L
UniRef90_I7HWU7 D V A H A H A K Y V G K T L K S L K Q L L G S R C M A G N V A T Y A G A D Y L L
UniRef90_R9SLF4 D C A H A H N M H V I N F I E T M R E N I D A K L C V I G N I A T A E A A E D I L L
UniRef90_H8WZU4 D S S N G S S T F Q I N M L K W I K E K Y P E L Q V I V A G N V V T R E Q A A L L L
UniRef90_Q6C897 D S S Q G N S M F Q I E M L Q A W I K K T F P D L Q V V A G N V V T R E Q A A S L L
UniRef90_D8J3H4 D C A H A H N M V I D S A R A I T E N V E A D V V V G N V G T R E A A S E I L L
UniRef90_G8YSI8 D S S N G S S T F Q L N M L K W I K S K Y P E L Q V I V A G N V V T R E Q A A L L L
UniRef90_G4YTT3 D S S Q G D S T F Q V D L I K W I K S T Y P H I D V I G G N V V T R M Q C K R L L
UniRef90_C0AQW2 D S S H G H S E G V L Q R I R D T R A L Y P N L P I V I G G N V A T A E G A L A L L
UniRef90_W5XR76 D S A H A H N N R V L E M V S R V K K D F G S I D V I G G N L A T R S A A K A M
UniRef90_Q1IAJ4 D I A H G H S T H A L A A A N V K E R L G D I P K V A G N V A T P E G V L D L L
UniRef90_R6QAC4 D S S E G Y S E W Q K M T L D W V R E T Y G D V K V I V A G N V V D A G V F R F L L
UniRef90_UPI000154EB84 D S S Q G N S V Y Q I A M V H Y I K Q K Y P H L Q V I V G G N V V T A A Q A K N L L
UniRef90_H3A423 D S S Q G N S V F Q I N M I R Y I K E K Y L E L Q V I V G G N V V T A A Q T K N L L
UniRef90_UPI0002375373 D I A H G H A D S V R N M I E H L K A R L P R A F V I V A G N V A T P E A A V I D L L
UniRef90_UPI0003F059F4 D S S Q G N S T F Q I N M I R Y I K E K Y P D L Q V I V G G N V V T A A Q A K N L L
UniRef90_Q6FM59 D S S Q G N S V F Q I N M I K W I K K E F P E L Q V I V A G N V A T R E Q A A N L L
UniRef90_F2UFU1 D S S Q G N S V F Q I D M I K F I K S T F P D V L Q V I V A G N V V T A A Q A K N L L
UniRef90_Q4N8V1 D I S H G H N P R V K G M I E H I R A N F N E T F V I V A G N V T T P Q G I K D M

	170	180	190	200
UniRef90_K1LBD1	F D V G V D V V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_UPI0004797DEE	I D A G C D G V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_E8SGN9	E N A G A D A T K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_R5BSQ5	V G A G A D G V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_W7T453	V D A G A D G V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_F0SM06	L D A G A D G V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_A9VN11	I D A G A D G V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_J6J593	I L A G A D I V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_K9HKW9	I E A G A D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_C0R829	I N A G A D C L K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_W7ZN00	V E A G V D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_Q3IQG5	A E A G A D C V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_UPI000255F1F3	V D A G A D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_R4V876	A K A G A D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_A5CWWW9	I K A G A D C V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_F7YZ12	E H A G A D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_I4CQK8	V K A G A D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_A9HID1	I E A G A D C V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_R5RZN3	A D A G V S A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_D0RPI9	A K L K V D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_R7KSY2	V D A G A D G V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_Q1QLZL7	A E A G A D G V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_D5VTD0	I K A G A D A L K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_C2CZW8	E N A G A D A T K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_UPI0003663F04	V D A G A D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_UPI00037A40CD	V A G A D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_K1E5Z3	I D T G V D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_I7KGB5	E N A G A D A T K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_A0A010BWM7	L D A G A D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_A1SYT7	V E A G C S S V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_UPI00025552EA	I E A G A D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_E4TLP7	V A G A D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_E4NCI3	L D A G V D G V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_UPI00036D65F5	I K A G V D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_D3RQ06	A E A G A D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_A0A011RQ42	E N A G A D A T K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_R5EWC1	A D A G V S A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_A3TQ49	V D A G A D G V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_D2MN71	E N A G A D A T K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_D5RMA1	I E A G A D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_S5Y1M6	V E A G A D A I K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_UPI0003675976	E N V G A D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_W1VIY5	I D A G V D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_E0DCW5	I E A G A D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_M1NVU0	I D A G A D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_D0WP22	I D A G V D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_UPI00046AF808	E N A G A D A T K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_UPI0003FCED67	I E A G A D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_UPI00045EBD82	V D A G V D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_C3PL74	I E A G A D A I K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_Y0I3D0	F E A G A D I V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_A9A5Y7	I K A G V D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_C0W0V0	I D A G V D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_S4LA74	A E I G V D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_Q2BK62	A E A G A D G V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_UPI000174463A	C D A G A S A I K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_D1BXB6	V D A G A D A T K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_D4YHH8	E N A G A D A T K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_Q03GJ0	E N A G A D A T K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_Q6L1U7	I D A G V D G L R	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_R6SHN0	I E A G C D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_UPI0003604EBB	I E A G A D I K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_G5ZYR4	I D A G V D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_K2HEX4	I G S G A D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_D8QUP9	I E A G A D A L R	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_D5AUM1	L G A G A D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_K2EQP5	A E A G A D G I K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_A6UWA2	I N A G A D A L K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_F1LE24	I L S G A D V V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_U2ESL5	V E A G V D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_S6EC97	I A A G V D G L R	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_U1NX91	V E F A D D A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_UPI0003B61804	I D A G V D A L R	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_R6LK37	V E A G A D G V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_I7HWU7	A S C G A D I K A	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_R9SLF4	V A K G A D G L R	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_H8WZU4	I E A G A D A L R	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_Q6C897	I E A G A D G L R	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_D8J3H4	V E F A D D G L K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_G8YSI8	I E A G A D A L R	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_G4YTT3	I D A G A D G L R	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_C0AQW2	A D A G V S A V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_W5XR76	I E A G A D A I K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_Q1IAJ4	A K A G A S V I K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_R6QAC4	A E C G A S F V K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_UPI000154EB84	I D A G V D G L R	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_H3A423	I D A G V D A T K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_UPI0002375373	E N W G A D A T K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_UPI0003F059F4	I D A G V D A L R	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_Q6FM59	I A A G A D G L R	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_F2UFU1	I D A G A D G L R	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G
UniRef90_Q4N8V1	E D W G A D A I K	V G V G V G V G V	G P P G S C C C C	T T T R V V V A G

UniRef90_K1LBD1 A K E Y N K T I I 210 A D G G G I K Y S G D I V K A L A A G G S H A V M L G S M L A G T
UniRef90_UPI0004797DEE A T E R G V P V I A D G G G I Q R Y S G D I A K A L V A G G A S A V M M G Q L F A G T C
UniRef90_E8SGN9 A R K I A D G G G I R T Y S G D I A K A L V R F G G A S M V M I G G S M F A A H
UniRef90_R5BSQ5 I K G T G A T P L I A D G G G I R Y S G D I V K A L V A G G G D C M V M I C G G S M F A A G T
UniRef90_W77453 C R P A G V P V I A D G G G I R Y S G D I A K A L A A G G A S A V M I G G G L L A G G T
UniRef90_F0SM06 L L G S E G V P L I A D G G G I Q R Y S G D I A K A L V A S G A H D T V M L G G S L L A G A G T
UniRef90_A9WN11 A G P A G V P L I A D G G G I R Y S G D I G K A L V A G A D T V M L G G S L L A G A G T
UniRef90_J6J593 A H G L R G H V C S D G G G C T V P G D V A K A F G A G A D D F V M L G G S M L A G A G T H
UniRef90_K9HKW9 A R K H G V P V I A D G G G I K F F S G D F A K A I A A G A D D C V M V M I G G S L L A G A G T
UniRef90_C0R829 C K P H G V P V I A D G G G I R Y S G D V A K A I A A G A D S T V M I G G S L L A G A G T
UniRef90_W7ZN00 C K P H G V P V I A D G G G I R Y S G D V A K A I A A G A D S T V M I G G S L L A G A G T
UniRef90_Q3IQG5 A S A A D V V T V I A D G G G I Q Q S G D A V K S L V A G A D A V M M G G S Y F A G T C
UniRef90_UPI000255F1F3 T I P A G V P L I A D G G G I R Y S G D H S G D I G K A L V A G A D S V M M G G S L L A G A G T
UniRef90_R4V876 L K G R D I P L I A D G G G I R Y S G D M A K A I A A G A Y H C V M M G G S M F A G T
UniRef90_A5CWW9 L K K D T G L P L I A D G G G I R Y S G D I A K A L V A G A Y T M V M I G G S M L A G H
UniRef90_F7YZ12 A S K I A D G G G I R T H S G D I A K A S V R F G A T M V M I G G S L F A G H
UniRef90_I4CQK8 L E G T G V P M I A D G G G I R F S G D L S K A I V A G A N A V M M G G S M F A G T
UniRef90_A9HID1 C H E L D V P P A I A D G G G I R T S G D I V K A I G A G A D T V M I G G S L L A G T
UniRef90_R5RZN3 L E G T G V P V I A D G G G I R Y S G D I V K A I G A G A D T V M I G G S L L A G T
UniRef90_DORPI9 L K K F D V K V I A D G G G I R Y S G D I A K A I G A G A D A V M M G G S L L A G T
UniRef90_R7KSY2 L E G T G V P L I A D G G G I R F S G D I A K A L A A G A Y A V M M G G M F A G T
UniRef90_Q1QZL7 L K P Y D I P L V A D G G G I R F S G D L A K A L A A G A S T V M M G G L L A G T
UniRef90_D5VTD0 A K D Y D L S V I A D G G G I R Y S G D I A K A I A A G A D A V M L G G S L L A G T
UniRef90_C2CZW8 A R K I A D G G G I R F S G D I A K A S V R F G A S M V M I G G S L L A G H
UniRef90_UPI0003663F04 C R P A G V P L V A D G G G I R Q Y S G D I A K A L V A S G A S S V M L G G S L F A G T
UniRef90_UPI00037A40CD L K K S G V P L I A D G G G I R Y S G D F A K A I A A G A A A V M V G G S M L A G T
UniRef90_K1E5Z3 A R P A G V P V I A D G G G I R Q R H S G D I A K A L V R F G A D S V M V G G S L L A G C
UniRef90_I7KGB5 A K K I A D G G G I R H N G S G D I A K A S I V R F G A T M C M I G G S L F A G H
UniRef90_A0A010BWM7 L K D Q I P L I A D G G G I R F S G D M A K A I G A G A S T I M V G G S L L A G T
UniRef90_A1SYT7 L E G T G V P V I A D G G G I R F S G D I A K A L A A G A S C V M M G G S M F A G T
UniRef90_UPI00025552EA G A K H G V P V I A D G G G I K F S G D I T K A I G A G A S V V M V G G N L F A G L
UniRef90_E4TLP7 I K D T G V P I I A D G G G I R F S G D I V K A L A A G A D S V M I G G S L L A G T
UniRef90_E4NCI3 C Q D A G V P I I A D G G G I L T R N S G D A T K A L A A G A D T V M L G G S L L A G C
UniRef90_UPI00036D65F5 G K E H D I P I I A D G G G I R N S G D A T K A L A A G A S I M V G G S I L L A G T
UniRef90_D3RQ06 L K G T G L P L I A D G G G I R F S G D I A K A I A A G A N S V M I G G S L F A G T
UniRef90_A0A011RQ42 A R K I A D G G G I R T H S G D I A K A S R F G A S M V M I G G S L F A G H
UniRef90_R5EWC1 L K G T D I T V I A D G G G I R Y S G D I A K A I A A G A N C V M V G G S M F A G T
UniRef90_A3TQ49 C R A A G V P V V A D G G G I R Q T S G D I A K A L V A G A D S V M I G G S L F A G C
UniRef90_D2MN71 A R K I A D G G G I R T H S G D I T K S I R F G A S M V M I G G S L F A G H
UniRef90_D5RMA1 A H E K G V P A I A D G G G I R S S G D L A K A I A A G A D C V M M G G S L F A G T
UniRef90_S5Y1M6 A G E T P V I A D G G G I K F S G D F A K A I A A G A S C A M V G G S A I A G T
UniRef90_UPI0003675976 A R K I A D G G G I R N G S G D I A K S R F G A S M V M I G G S M L A G H
UniRef90_W1VIY5 C T P A G V P L I A D G G G I R Q Y S G D I A K A M V A G A D T V M I G G S L L A G C
UniRef90_E0DCW5 A R A A G V P I I A D G G G I M Q F S G D I A K A T A A G A S S V M L G G S M L A G T
UniRef90_M1NVU0 A R K A G V P L I A D G G G I M Q F S G D I A K A I A A G A D T V M L G G S M L A G T
UniRef90_D0WP22 C G P A G V P L I A D G G G I R Q Y S G D I G K A I V A G A D T V M L G G S L L A G C
UniRef90_UPI00046AF808 A R K I A D G G G I R T Y S G D I A K S I R F G A T M V M I G G S L F A G H
UniRef90_UPI0003FCED67 A R G T G V P I I A D G G G I L Q Q H S G D I A K A L V A G A D S V M L G G S L L A G T
UniRef90_UPI00045EBD82 A K P A G V P V I A D G G G I L Q Y S G D I A K A L V A G A D S V M L G G S L L A G C
UniRef90_C3PL74 A G P A G V P V I A D G G G I M Q Y S G D V A K A L A A G A D T V M L G G S M L A G T
UniRef90_Y0I3D0 A R K H G K A I A D G G G I K F S G D I T K A L A A G A H A V M L G G S L L A G T
UniRef90_A9A5Y7 G N D H G I P I I A D G G G I R T S G D A T K A L A A G A S V M V G G S M L A G T
UniRef90_C0W0V0 C I P A G V P L I A D G G G I R Q Y S G D I A K A L V A G A N T V M V G G S M L A G C
UniRef90_S4LA74 L R G S S V R I I A D G G G I M R Y S G D I V K A L V A G A H C I V M L G G S M L A G T
UniRef90_Q2BK62 M S E R G V P V I A D G G G I R Y S G D L A K A V A G A S A I M V G G S M L A G T
UniRef90_UPI000174463A C R P R G V T V I A D G G G I R F S G D V V K A I A A G A D L V M L G G S L L A G T
UniRef90_D1BXB6 A R A A G V P V I A D G G G I M R H S G E I G K A I V A G A S A V M L G G S M L A G T
UniRef90_D4YHH8 A R K I A D G G G I R T N G D I A K S V R F G A S M V M I G G S L L A A H
UniRef90_Q03GJ0 A R K I A D G G G I R T H S G D I A K S I R F G A T M V M I G G S L F A G T
UniRef90_Q6L1U7 A E K N D G I V I A D G G G I R Y S G D I V K A I A A G A S T V M L G G S L L A G T
UniRef90_R6SHN0 C K D K K I G V I A D G G G I K Y S G D I T K A I A A G A D C V M V G G L F A G C
UniRef90_UPI0003604EBB A R E Y N I P V I A D G G G V K Y S G D I T K A I A A G A H V V M V G G L F A G L
UniRef90_G5ZYR4 A A K A G V P T I A D G G G I K Y S G D L A K A V A A G A S V A M I G G S L L A G T
UniRef90_K2HEX4 A G D A G V P V I A D G G G I K F S G D F A K A I A A G A S C A M I G G S M I A G T
UniRef90_D8QUP9 A R K F G I P V I A D G G G I S N S G H I V K A L T L G A S T V M M G G S F L A G T
UniRef90_D5AUM1 A G D A G V P V I A D G G G I K F S G D F A K A I A A G A S C A M V G G S A I A G T
UniRef90_K2EQP5 T R G M D V P I C A D G G G I E F S G D I T K A L A A G A S T V M L G G S L L A G T
UniRef90_A6UWA2 A K E H G V P V I A D G G G I K F S G D I A K A L A A G A D A V M L G G S L L A G T
UniRef90_F1LE24 S H G L N G H V M S D G G G C T R N S P G D V A K A F G G G A D F V M I G G L A G H
UniRef90_U2ESL5 L E G T G V P L I A D G G G I R Y S G D V A K A I A A G A Y A V M I G G M F A G T
UniRef90_S6EC97 A K E F G V P C I A D G G G I V Q N I G H I T K A L A L G A S T A M M G G M L A G T
UniRef90_U1NX91 A S R H C V P V I A D G G G I R Y S G D A I K A I A A G A D A T M L G G S Y F A G T
UniRef90_UPI0003B61804 A R R F C V P V I A D G G G I Q T V G H I A K A I A L G A S T V M M G G S L L A G T
UniRef90_R6LK37 L K G T G V P L I A D G G G I R Y S G D V V K A L A A G G Y S V M I G G S L V A G T
UniRef90_I7HWU7 D R S I V A D G G G I K T S G D I V K A I A F G A D F V M I G G S M L A G S
UniRef90_R9SLF4 A K D Y N I P V I A D G G G I R Y S G D I V K A I G A G A D F V M I G G N A L A G T
UniRef90_H8WZU4 A N K F G V P C I A D G G G I G N I G H I S K A L A L G A S C V M M G G L L A G T
UniRef90_Q6C897 A N Q F G V P C I A D G G G I V N I G H I T K A V A L G A S V V M M G G S L L A G T
UniRef90_D8J3H4 A S E Y D V P V I A D G G G I R Y S G D A I K A I A A G A D A V M M G G S Y F A G T
UniRef90_G8YSI8 A N Q F G V P C I A D G G G I G N I G H I T K A L A L G A S C V M M G G L L A G T
UniRef90_G4YTT3 A R Q F G V P V I A D G G G I A S S G D I V K A L T V G A S A V M C G G S L F A G T
UniRef90_C0AQW2 L K D R N I P V I A D G G G I L R S S G D I A K A L A A G A A C V M V G G S M F A G T
UniRef90_W5XR76 A S A A G V P I I A D G G G I M Q S S G D V A K A L A A G A D S V M L G G S M F A G T
UniRef90_Q1IAJ4 A R E A G V S I I A D G G G I R S S G D V K A L A A G A H A V M L G R Y F A G T
UniRef90_R6QAC4 A T G I Y I P C S D G G G I V Y D I G H M T L A A M G A D F I M L G G Y F A R F
UniRef90_UPI000154EB84 A R R F G V P V I A D G G G I Q T V G H I V V K A L A L G A S T V M M G G S L L A A T
UniRef90_H3A423 A R R F G V P V I A D G G G I Q T V G H I A K A I A R F G A S T V M M G G S L L A A T
UniRef90_UPI0002375373 A T R P I A D G G G I R S H G D I A K S I R F G A S M V M I G G S L F A G H
UniRef90_UPI0003F059F4 A R R F G V P V I A D G G G I G T V G H I T K A L A L G A S T V M M G G S L L A G T
UniRef90_Q6FM59 A N E F G V P C I A D G G G I V N I G H I T K A L C L G A S T V M M G G S M L A G T
UniRef90_F2UFU1 A R R F G V P C I A D G G G I Q N V G H I I K A L A L G A S A V M M G G S L L A G T
UniRef90_Q4N8V1 A T R A V V I C D G G G V S K S G D I A K A I H M G A D W I M S G Y L F S G T

UniRef90_K1LBD1 DEESPGGEFEELYQGRRYKSYRGMGSSLAAAMKHGSSDRRYFQMVIP
UniRef90_UPI0004797DEE AESSPGGETVIEIEGKQFKSYRGMGSSLGAMQTRGSSQAKKSYFQKKNV
UniRef90_E8SGN9 EESSPGGETVIEIEGKQFKSYRGMGSSLGAMQTRGSSQAKKSYFQKKNV
UniRef90_R5BSQ5 EESSPGGETIIFYNGKQFKSYRGMGSSLDAAMAAGSEYKDRYFQKKNV
UniRef90_W77453 AEAAPGGDLILVYNGKQFKSYRGMGSSLGAMQTRGSSQAKKSYFQKKNV
UniRef90_F0SM06 DEESPGGELILYQGRGKQFKSYRGMGSSLGAMQTRGSSQAKKSYFQKKNV
UniRef90_A9WN11 EEAAPGGEILIFVYNGKQFKSYRGMGSSLGAMQTRGSSQAKKSYFQKKNV
UniRef90_J6J593 DEECGGEKFAEENGRKVMFYRGMGSSDTAMTKYYGGVIANYRAS
UniRef90_K9HKW9 DEESPGGEVVLFYNGKQFKSYRGMGSSVIGAMARSGSADRYFQKKNV
UniRef90_C0R829 KESSPGSEELIFYNGKQFKSYRGMGSSVIGASAMKRGSKSRYKKNV
UniRef90_W7ZN00 AESSPGGDLILVYNGKQFKSYRGMGSSLGAMQTRGSSQAKKSYFQKKNV
UniRef90_Q3IQG5 DEESPGGETVIEIEGKQFKSYRGMGSSTAAGAAEDRSDKDVVAVAD
UniRef90_UPI000255F1F3 AESSPGGDLVIFYNGKQFKSYRGMGSSLGAMQTRGSSQAKKSYFQKKNV
UniRef90_R4V876 EEAAPGGEVVELFYNGKQFKSYRGMGSSLIGAMSGSSQKSSDRYFVVP
UniRef90_A5CWVW9 EESSPGGEVVELFYNGKQFKSYRGMGSSLGAMMNAHGFQKSSDRYFVVP
UniRef90_F7YZI2 EESSPGGETIEIEMDYGKLYKEYFGSSAS EFGQKSSDRYFVVP
UniRef90_I4CQK8 EEAAPGGEIEELFYNGKQFKSYRGMGSSLGAMMSQAQSSSDRYFVVP
UniRef90_A9HID1 EEAAPGGEVFLIYNGKQFKSYRGMGSSLGAMARSGSADRYFQKKNV
UniRef90_R5RZN3 EESSPGGETIIFYNGKQFKSYRGMGSSLLEAMEHGRSADRYFQKKNV
UniRef90_DORPI9 DETPGGEIFFFYQGRSYKSYRGMGSSLIAAMSRGSSADRYFQKKNV
UniRef90_R7KSY2 DEEAPGGEVVLFYNGKQFKSYRGMGSSLGAMTKQSSADRYFQKKNV
UniRef90_Q1QZL7 EEAAPGGEIEELFYNGKQFKSYRGMGSSLGAMMSQSSQSSDRYFVVP
UniRef90_D5VTD0 DEEAPGGRRLMILYNGKQFKSYRGMGSSLGALAGQSSGVKYSKLVVP
UniRef90_C2CZW8 DEESPGGNVLSIDGKQFKSYRGMGSSAS EYKQKSSDRYFVVP
UniRef90_UPI0003663F04 AEAAPGGDLVIFYNGKQFKSYRGMGSSMGA MQSYSKDRYFQKKNV
UniRef90_UPI00037A40CD EEAAPGGEVVELFYNGKQFKSYRGMGSSLGAMSGSSNGSKDRYFVVP
UniRef90_K1E5Z3 DEESPGGEILIFYNGKQFKSYRGMGSSLGAMSSRGRKSSDDQKLVVP
UniRef90_I7KGB5 DETPGGDLVIFYNGKQFKSYRGMGSSAS EFGQKSSDRYFVVP
UniRef90_A0A010BWM7 EEAAPGGEVEFFQGRYYKAYRGMGSSLGAMAGATGSSADRYFVVP
UniRef90_A1SYT7 EESSPGGEIEELFYNGKQFKSYRGMGSSLVAGAMSSQSSSDRYFQKKNV
UniRef90_UPI00025552EA KEESPGSEIIFYNGKQFKSYRGMGSSLVAGAGDRYQSDRDETPVVP
UniRef90_E4TLP7 EEAAPGGEMLIFEGRKFKSYRGMGSSLIEAMNMGSKDRYFQKKNV
UniRef90_E4NCI3 EESSPGGEILIFYNGKQFKSYRGMGSSLGAMQTRGSKADEKLVIA
UniRef90_UPI00036D65F5 DETPGGTITIKNGKQFKSYRGMGSSLGASMGRTDDINDYVA
UniRef90_D3RQ06 DEEAPGGEVEIFYQGRSYKSYRGMGSSLGAMSSSEGSSDRYFVVP
UniRef90_A0A011RQ42 DQSPGGEKMEVIEDGKQFKSYRGMGSSAHGASDRYFQKKNV
UniRef90_R5EWC1 EEAAPGGEIEIFYNGKQFKSYRGMGSSLGAMASRSGKKSYSKDVVP
UniRef90_A3TQ49 EESSPGGEIEIFYNGKQFKSYRGMGSSAS EYQKSSDRYFQKKNV
UniRef90_D2MN71 DEEAPGGEVFLFYNGKQFKSYRGMGSSLGAMARSGSADRYFQKKNV
UniRef90_D5RMA1 DEEAPGGEVFLFYNGKQFKSYRGMGSSLGAMARSGSADRYFQKKNV
UniRef90_S5Y1M6 DEESPGGEIIFYNGKQFKSYRGMGSSLGAMARSGSADRYFQKKNV
UniRef90_UPI0003675976 EQSPGGLIIEIDGKHKQKQYRGMGSSAAQKSGKR ENVVP
UniRef90_W1VIY5 TESSPGGDLVIFYNGKQFKSYRGMGSSLGAMSSRGRKSYDKLVVP
UniRef90_E0DCW5 TESSPGGDLVIFYNGKQFKSYRGMGSSMGA MQSSRGLTGEKRSFVP
UniRef90_M1NVU0 AEAAPGGEIVVLYNGKQFKSYRGMGSSMGA MQSSRGLVRSSEDKLVVP
UniRef90_D0WP22 EETPGGEIVVLYNGKQFKSYRGMGSSLGAMSSRGRKSYDKLVVP
UniRef90_UPI00046AF808 IESSPGKIVEVDGEMFKEYFGSSAS EYQKSSDRYFQKKNV
UniRef90_UPI0003FCED67 DEESPGGDLIFYNGKQFKSYRGMGSSLGALQTRGPKPSDDDLIA
UniRef90_UPI00045EBD82 DEESPGGDLIFYNGKQFKSYRGMGSSLGAMQTRGPKPSDDDLIA
UniRef90_C3PL74 TEAAPGDLVIFYNGKQFKSYRGMGSSMGA MQSSRGLSGEKRSVVP
UniRef90_Y0I3D0 EESSPGGATIELFYNGKQFKSYRGMGSSLGAMMEKSSNDRLKFFVP
UniRef90_A9A5Y7 DEESPGGTVLTKNNGKQFKSYRGMGSSLGASMEKSSNDRLKFFVP
UniRef90_C0W0V0 EESSPGGEVFLFYNGKQFKSYRGMGSSLGAMSSRGRKSYDKLVVP
UniRef90_S4LA74 NETPGGDIIVHVGHAQKMYRGMGSSQGA MEKQGEENAKKFFVP
UniRef90_Q2BK62 DEEAPGGEVVELFYNGKQFKSYRGMGSSLGAMGQSSSSDRYFVVP
UniRef90_UPI000174463A AESSPGGAMVKWQGRTFKEYRGMGSSLKAMRKGAAGDRYQKNVVP
UniRef90_D1BXB6 AESSPGGETIIFYNGKQFKSYRGMGSSLGAMSSRGRKSSDDSLVVP
UniRef90_D4YHH8 VESSPGGETVIEEDGVTYKEYFGSSAS EFGQKSSDRYFQKKNV
UniRef90_Q03GJ0 IESSPGGETKVEDGVKYKEYFGSSAS EFGQKSSDRYFQKKNV
UniRef90_Q6L1U7 DEESPGGEMILYNGKQFKSYRGMGSSLGASDRYFQKKNV
UniRef90_R6SHN0 DEEAPGGEEMILYNGKQFKSYRGMGSSLVAMKRGSSADRYFQKKNV
UniRef90_UPI0003604EBB KEAAPGGEFLIYNGKQFKSYRGMGSSLVAMKRGSSADRYFQKKNV
UniRef90_G5ZYR4 DETPGGEVFLFYNGKQFKSYRGMGSSLGAMARSGSADRYFQKKNV
UniRef90_K2HEX4 DEESPGGDLIFYNGKQFKSYRGMGSSLGAMARSGSADRYFQKKNV
UniRef90_D8QUP9 EEAAPGGEYFDRDGQRLLKQYRGMGSSLLEAMARYLGEKAKMIA
UniRef90_D5AUM1 DEESPGGEVILYNGKQFKSYRGMGSSLGAMARSGSADRYFQKKNV
UniRef90_K2EQP5 KESSPGGDIIMRGGVPKRYRGMGSSLGAMARKSGAGREYGVVP
UniRef90_A6UWA2 DEEAPGGLITLNGRKYKQYRGMGSSLVGMTTQSEMKAHVKMPVP
UniRef90_F1LE24 DQCGGGEVVEKDKKQFKSYRGMGSSDTPLTRQ
UniRef90_U2ESL5 EEAAPGGEIEELFYNGKQFKSYRGMGSSLGAMSGDSSSADRYFVVP
UniRef90_S6EC97 AEAAPGGEYFYRDGKRLKAYRGMGSSLIDA VQRYFSENDDVFFVA
UniRef90_U1NX91 DEEAPGGEVVLTYNGKQFKSYRGMGSSLVAGAMQRYMKDSEEEFVA
UniRef90_UPI0003B61804 SEAPGGEYFFSDGRLKRYRGMGSSLDA MDRYFSENDDKLVVA
UniRef90_R6LK37 EESSPGGDTIFYNGKQFKSYRGMGSSLLEAMENGSKDRYKKNVVP
UniRef90_I7HWU7 APTPGGEVILYNGKQFKSYRGMGSSLREAEAFLLGGMH EWKTVA
UniRef90_R9SLF4 YESSPGGEIVVMNGKQFKSYRGMGSSMGA MTAFFGGGADRYFQ
UniRef90_H8WZU4 SETPGGDYFYRDGQRLLKAYRGMGSSLIDA MQRIFYSETDKVFFVA
UniRef90_Q6C897 LESSPGGQYFYRDGQRLLKAYRGMGSSLVAGAMERYFSENDDVFFVA
UniRef90_D8J3H4 DEEAPGGRVITMNGKRYKQYRGMGSSLVAGAMRSGGSDRYDEYVVP
UniRef90_G8YSI8 SETPGGEYFYRDGKRLKAYRGMGSSLVAGAMQRYFSENDDKLVFFVA
UniRef90_G4YTT3 EESSPGGQYFFQDQGRVRLKRYRGMGSSLVAGAMKRYFATHATVFFVA
UniRef90_C0AQW2 EESSPGGEIEELFYNGKQFKSYRGMGSSLGAMSKSSSADRYFQKKNV
UniRef90_W5XR76 LLEAAPGDIIVVYNGKQFKSYRGMGSSMGA MQSSRGLVRSSEDKLVVP
UniRef90_Q1IAJ4 DEESAAQLLVEVNGKQFKSYRGMGSSLVAGAMQRYMKDSEEEFVA
UniRef90_R6QAC4 DEESPTNKLVNVSNGSMKEYYWGEGSSSRA RNWQMLGGQKLVSEFE
UniRef90_UPI000154EB84 TEAAPGEYFFSDGVRLLKRYRGMGSSLDA MERYFSEGDKLVKIA
UniRef90_H3A423 SEAPGGEYFFSDGVRLLKRYRGMGSSLDA MDRYFSENDDKLVVA
UniRef90_UPI0002375373 EESSPGGTVEVVGARFKEYYGSAS EFGQKSSDRYFQKKNV
UniRef90_UPI0003F059F4 SEAPGGEYFFSDGVRLLKRYRGMGSSLDA MERYFSEGDKLVKIA
UniRef90_Q6FM59 TESSPGGDYFYRDGKRLKQYRGMGSSLIDA MQRIFYSETDSSLVA
UniRef90_F2UFU1 SEAPGGEYFFQDGVRLKQYRGMGSSLVAGAMQRYFSEGDKLVVA
UniRef90_Q4N8V1 ILEAAPGGEVVVKDGVKYKPYYS SSVVA RSRRYFSSGKKNHR

UniRef90_K1LBD1 E G I V E G R V E Y K G S V E D M L F Q 300 G G I L R S G M G Y T G S R T I E D L M R
UniRef90_UPI0004797DEE E G V E G R V P Y K G S L A Q V V Y Q Q M I V G G L L R Q R S A M G Y T G A G T D I E D A L H
UniRef90_E8SGN9 E G K K M F V E Y H K G T L S E T T V Y E Q M Q E D G L L R Q R S S G M G Y V G A A S S I P A F K
UniRef90_R5BSQ5 E G I V E G R V P F R G G P L S S Q V T H Q Q L I V G G L L R R A G M G Y T G G A A S S I T Q L R
UniRef90_W77453 E G V E G R V A Y R K G H L S S F L Y Q L V G G G L L R R A Q T M F Y T G G V R T I I E E L L Q
UniRef90_F0SM06 E G I V E G R V A Y R K G L L S S V A Y Q L V G G G L L R R A Q T M F Y T G G V R T I I E E L L Q
UniRef90_A9WN11 E G I V E G R V P Y R G G P V L K G T M Q E I T G G G L L R S M M T Y T G A T R T I L K A S D L M Q
UniRef90_J6J593 E G K T V Q V P Y R G G P V L K G T M Q E I T G G G L L R S M M T Y T G A T R T I L K A S D L M Q
UniRef90_K9HKW9 E G I V E G R V P Y Y K G G A G G V V H Q Q L V G G G L L R S A A M G Y T G T N A T T I I P D L Q
UniRef90_C0R829 E G I V E G R V P Y S G G K L K D I L A Q L K K G G L L R S A A M G Y T G T N A T T I I P D L Q
UniRef90_W7ZN00 E G I V E G R V P F R G G P L D Q V I H Q Q L V G G G L L R S A A M G Y T G T N A T T I I P D L Q
UniRef90_Q3IQG5 E G V E E A V T E Y V G P L S N E R L D E F A A G G L L R R Q T L S Y T G A G A H S D L I A R K
UniRef90_UPI000255F1F3 E G I V E G R V P Y R G G P L S A V V H Q Q L V G G G L L R R Q T M F Y T G G A R S I E G E F R R
UniRef90_R4V876 E G I V E G R V P Y K G A M N V I V H Q Q L V G G G L L R R A S M G Y C G C G D T V L E E F R R
UniRef90_A5CWW9 E G V E G R V P Y K G G I R P L I H Q Q M I V G G L L R Q S S M G Y I G G C D T K K I M R
UniRef90_F7YZI2 E G K K M Y V E Y R G G P L S A V V H Q Q L V G G G L L R A S M G Y I G G C D T K K I M R
UniRef90_I4CQK8 E G I V E G R V P Y K G G S L A A T I H Q Q L M G G L L R R A S M G Y T G S A T V I D A D E M R
UniRef90_A9HID1 E G I V E G R V A Y K G G M D A V V H Q Q L V G G G L L R R A G M G Y T G S A T V I D A D E M R
UniRef90_R5RZN3 E G I V E A Q V P F K G T L S A V V Y Q L V G G G L L R R A G M G Y V G A K N I N E E F K
UniRef90_D0RPI9 E G I V E G R V P Y R G G P V S A V V D Q Q L A G G G L L R S S M G Y L G A K N I N E E F K
UniRef90_R7KSY2 E G I V E G R V P Y K G G S Q I V H Q Q M I V G G G L L R R S S M G Y C G C C H D I V I D E M R
UniRef90_Q1QZL7 E G I V E G R V P Y K G G Q M S A I V H Q Q L M G G L L R R S S M G Y T G C C H D I V I D E M R
UniRef90_D5VTD0 E G V E G A V P Y K G G P V S E V I H Q Q L V G G G L L K S S M G Y C G A K N I K E E M Q
UniRef90_C2CZW8 E G R Q M L V P Y R G G E I S D T L F E M Q Q D L L R Q S S S Y A G G S K S I K E E I L Q
UniRef90_UPI0003663F04 E G I V E G R V P Y R G G P L S Q V V H Q Q L V G G G L L R R S S G M G Y F T G S G S I E E I L Q
UniRef90_UPI00037A40CD E G I V E G R V P Y K G P M A A I V H Q Q M I V G G G L L R R A S M G Y T G C R S T I E E M R
UniRef90_K1E5Z3 E G I V E G R V A Y R G G T L A Q V A H Q Q M V G G G L L R Q S S M F Y V G A G T I E E L Q
UniRef90_I7KGB5 E G K K L L V P Y R G S L I D T T I R E I K E D L L R Q S S S Y S G G R E L A E D L R
UniRef90_A0A010BWM7 E G I V E G R V P Y K G P M G N T V H Q Q M M G G G L L R S S S M G Y T G S A T V I E D L R
UniRef90_A1SYT7 E G I V E G R V A Y K G K V K E L I H Q Q Q M G G V L R R S S M G L T G C C A T H D M N
UniRef90_UPI00025552EA E G I V E G R V P Y K G E M R S Y L H Q Q L V G G G L L R R K G M G Y C C C K T I E D L K
UniRef90_E4TLP7 E G I T G R V P F K G G L V S E V L H Q Q M I V G G G L L K A G M G Y C G A G N I E E Q L K
UniRef90_E4NCI3 E G I V E G R V P Y R G G P L S A V L F Q L V G G G L L R Q T M G Y V G A A S I E E Q M
UniRef90_UPI00036D65F5 E G V E A M V P Y K G S V T D I I T Q I T G G I L R S S S Y C G A H N V I K A M R
UniRef90_D3RQ06 E G I V E G R V P Y K G S L L N V I H Q Q L V G G G L L G S S M G Y T G C A T I D A M R
UniRef90_A0A011RQ42 E G K K I L T D Y K G D I A D T L L E M K Q D L L R Q R S S Y A G G N D I E S L R R
UniRef90_R5EWC1 E G I V E G R V A Y K G L L H N I I H Q Q M G G L L R A A M G L T G C C A T I D D L R
UniRef90_A3TQ49 E G I V E G R V P Y R G G P L I F D T L H Q Q L M G G L L H Q S S M F Y V G A R T V P A L K
UniRef90_D2MN71 E G K K L L V C K G G P V G N V I H Q Q L V G G G L L K S A M G Y T G N A T V N A I P E M Q
UniRef90_D5RMA1 E G I V E G R V G Y K G P V G N V I H Q Q L V G G G L L R A A M G Y T G N A T V A D E M R
UniRef90_S5Y1M6 E G I V E G R V P Y K G T A A A V I H Q Q L V G G G L L R A A M G Y T G N A T V A D E M R
UniRef90_UPI0003675976 E G K S M L L P Y Y K G D I A D T L Y K E M T Q D L L H Q S S M F Y V G A R T I P D A L K
UniRef90_W1VIY5 E G I V E G R V P F R G G P I E A I T H Q Q L V G G G L L R A A M G Y T G S A S I E D L Q
UniRef90_E0DCW5 E G I V E G R V P F R G G P I D A I T H Q Q L V G G G L L R A A M G Y T G S A S I E D L Q
UniRef90_M1NVU0 E G I V E G R V P F R G G T L S V L G T L L G G G L L H Q S S M F Y T G S R T I E E L K
UniRef90_D0WP22 E G I V E G R V P F R G G T L S V L G T L L G G G L L H Q S S M F Y T G S R T I E E L K
UniRef90_UPI00046AF808 E G K K M L L P L K G H L F D T L T E M Q Q D L L Q S S S Y A G G K N I D A L K
UniRef90_UPI0003FCED67 E G I V E G K V Q Y R G T V R Q N V H Q Q L T G G G L L H Q S S M F Y V G A R T V P P E L K
UniRef90_UPI00045EBD82 E G I V E G R V P Y R G G P L G A V S H Q Q L I G G G L L H Q S S M F Y V G A R T V P P E L Q
UniRef90_C3PL74 E G V E G R V P F R G D I D A L V H Q Q I V G G G L L R A S M G Y T G S A N L A R E L K
UniRef90_Y0I3D0 E G I V E G R T A Y K G A L Q D T I Y Q L M G G V V R R A G M G Y T G S A N L A R E L Q
UniRef90_A9A5Y7 E G V E A M V P Y K G T V T L K Q L A G G G L L R R S G M G Y C G A H T I P Q M Q
UniRef90_C0W0V0 E G I V E G R V P F S G S L A S V I Y Q L V G G G L L H Q S S M F Y L G A G T I D D L K
UniRef90_S4LA74 E G V E G R V P Y K G S L D D V V H Q Q L V G G G L L R S S M G Y L G A R N I E D L Q
UniRef90_Q2BK62 E G I V E G R V P C K G P M G G V V H Q Q L V G G G L L R S S M G Y T G S A D I E D T M R
UniRef90_UPI000174463A E G V E A R V P Y K G P L A D V V F Q L M G G G L L R R S G M G Y V G A D N L Q Q L R
UniRef90_D1BXB6 E G V E M L V P F K G S L N T V V H Q Q L V G G G L L H Q T M F Y V G A R T I P E L Q
UniRef90_D4YHH8 E G K K Q I E S R G S L N T V T M R E M E D L L Q S S S Y A G G R D L E A I R
UniRef90_Q03GJ0 E G K K I W I H Q R G H L R D T L Q A M R E D L Q S S S Y A G G R D L E A I R
UniRef90_Q6L1U7 E G V E G A V P Y R G R V S E L I F Q L V G G G L L K T G M G Y V G A A N I F E M L H
UniRef90_R6SHN0 E G I V E G R V P Y K G R V S D V I Y Q L M G G L L K T G M G Y C G C A D L A Q L R
UniRef90_UPI0003604EBB E G V E G R V P Y K G E L R P Y L H Q Q L V T G L K K G M G Y C G C A D L A Q L R
UniRef90_G5ZYR4 E G I V E G R V P Y K G S A V Q V L H Q Q L A G G G L L R A A M G Y T G N A T I A Q M Q
UniRef90_K2HEX4 E G V E G R V P Y K G A T G A V L H Q Q L V G G G L L R A A M G Y T G C A T I A Q M R
UniRef90_D8QUP9 Q G V S G T V A D K G S V L R L I P Y T M Q A V K Q G F Q D L G V K S V K E A H
UniRef90_D5AUM1 E G I V E G R V P Y K G P V A T V I F Q Q M V G G G L L R A A M G Y T G H A T V I A S M Q
UniRef90_K2EQP5 E G V E G V P Y K G E V G K L I F Q L L G G G L L R S S M G Y V G G K T I E D L Q
UniRef90_A6UWA2 E G I V E G A V P Y K G A V K D T L Y Q L M G G L L R S S M G Y C G A K N I K E M H

UniRef90_U2ESL5 E G I V E G R V P Y K G P L G G I V H Q Q L I G G L L R A S M G Y T G C H N I T E M R
UniRef90_S6EC97 E G V S G S V D K G S L I H K F I P Y L Y N G L L Q H S L Q D I G V Q S L Q D L N
UniRef90_U1NX91 E G V S G A A T P Y K G S L A S E L H Q Q L V G G M Q S S G M G Y V G A A S I P A F K
UniRef90_UPI0003B61804 E Q G V S G A A T P Q D K G S L I H K F V P Y I L A G T Q H S C Q D I G A K S L T Q L R
UniRef90_R6LK37 E G I A A R V P Y K G T L Y E V I Y Q L T R S G L T Y A G A D S I S E L Q
UniRef90_I7HWU7 E G V A T E V P Y K E N P D G I F A D I T G G L L R S S M T Y A G A K S I S E L Q
UniRef90_R9SLF4 E G V E G A V P Y K G T V S E V L F Q L V G G G L L R A S M G Y C G A K D S I S E L Q
UniRef90_H8WZU4 Q G V S G S V I D K G S I T K F V P Y L Y N G L L Q H S L Q D I G V Q S I S E L R
UniRef90_Q6C897 E G V S G S V I D R K G S I T K F I P Y L T A G L L Q H S L Q D I G V R S V I A E L R
UniRef90_D8J3H4 E G V E A A T P Y K G S L I E S E L H Q Q L T G G M K S G M G Y V G A G T I P A F K
UniRef90_G8YSI8 Q G V S G S V I D K G T I R K F I P Y L Y N G L L Q H S L Q D I G V Q S L T E L R
UniRef90_G4YYT3 E G V S G A V V D K G S L M K Y I P Y L Q Q G G L L K H S L Q D I G V Q S I T E L R
UniRef90_C0AQW2 E G I V E G R V A Y K G L K T I V H Q Q M G G G L L R S S M G L T G C A T I K E L N
UniRef90_W5XR76 E G V E G K V P Y R G E I G A I T H Q Q I V G G G L L R A S M G Y T G S A T I D E L K
UniRef90_Q1IAJ4 E G I E A C F E Y A G S P L R A Y L Y Q L S L K K V V Q S S T M C N C G A S D Y Q Q L L
UniRef90_R6QAC4 E G V D S Y V P Y A G S L H D N V N Q L S L K K V V Q S S T M C N C G A S D Y Q Q L L
UniRef90_UPI000154EB84 Q G V S G S I Q D K G S I K K F V P Y L I A G I Q H G C Q D I G A Q S L S V L R
UniRef90_H3A423 Q G V S G A V Q D K G S I H K F I P Y L I A G I Q H S C Q D I G A K S L T Q V R
UniRef90_UPI0002375373 E G K R I L E P Q D K R L A D T L V E M E Q D L Q S S S Y A G G K R L M D V R
UniRef90_UPI0003F059F4 Q G V S G S I I D K G S I H K F I P Y L I A G I Q H G C Q D I G A K S M S M L R
UniRef90_Q6FM59 Q G V S G A V V D K G S I K K F I P Y L Y N G L L Q H S C C Q D I G V Q S L D S L R
UniRef90_F2UFU1 Q G V T G T V V D K G S V L K F I P Y L T T G I K H S C Q D I G V Q S L V D L R
UniRef90_Q4N8V1 E G L E L L V P C E N S L F E R L R E I E E D L Q S S V S F A G G N K L K D L R

UniRef90_K1LBD1	Q E A Q F I R M
UniRef90_UPI0004797DEE	E R G R L V R I
UniRef90_E8SGN9	K V D Y V I V
UniRef90_R5BSQ5	K G A K F V R V
UniRef90_W7T453	T K Q L V R I
UniRef90_F0SM06	T E A K F I K I
UniRef90_A9WN11	A K G K F V R I
UniRef90_J6J593	K R T T F V M V
UniRef90_K9HKW9	R N C Q F R R I
UniRef90_C0R829	I N S N F V K I
UniRef90_W7ZN00	A A Q F V Q I
UniRef90_Q3IQG5	E N A A F M E V
UniRef90_UPI000255F1F3	R N G R F V R I
UniRef90_R4V876	T R T K F A R I
UniRef90_A5CWW9	T N S Q F V Q V
UniRef90_F7YZI2	K V D Y V V
UniRef90_I4CQK8	S K P Q F V R I
UniRef90_A9HID1	V R A R F R R I
UniRef90_R5RZN3	G A Q F V R I
UniRef90_D0RP19	K N A K F V E I
UniRef90_R7KSY2	Q R A E F V E I
UniRef90_Q1QZL7	T K P E F V K I
UniRef90_D5VTD0	E K T R F I I I
UniRef90_C2CZW8	T V D Y V V
UniRef90_UPI0003663F04	Q
UniRef90_UPI00037A40CD	T K T R F V K I
UniRef90_K1E5Z3	A K G K F V R I
UniRef90_I7KGB5	K R V D Y V I V
UniRef90_A0A010BWM7	Q N A K F V K I
UniRef90_A1SYT7	T K A M F V K I
UniRef90_UPI00025552EA	T Y R N F I R I
UniRef90_E4TLP7	E A K F V K I
UniRef90_E4NCI3	T K G R F V R I
UniRef90_UPI00036D65F5	K N A E F I K I
UniRef90_D3RQ06	T K P Q F V R V
UniRef90_A0A011RQ42	K V D Y V I V
UniRef90_R5EWC1	T K A Q F V R I
UniRef90_A3TQ49	A K G Q F I R I
UniRef90_D2MN71	H V D Y V I V
UniRef90_D5RMA1	S N C T F R R I
UniRef90_S5Y1M6	K N C E F V R I
UniRef90_UPI0003675976	R V D Y V V V
UniRef90_W1VIY5	E N G Q F V R I
UniRef90_E0DCW5	Q A K F V Q I
UniRef90_M1NVU0	T K Q F V Q I
UniRef90_D0WP22	E N G R F V R I
UniRef90_UPI00046AF808	K H V D Y V I V
UniRef90_UPI0003FCED67	S R G R F V R I
UniRef90_UPI00045EBD82	A R G R F V R I
UniRef90_C3PL74	T K Q F V Q L
UniRef90_Y0I3D0	E E A Q F T R M
UniRef90_A9A5Y7	Q N A E F I K M
UniRef90_C0W0V0	R N G R F V R I
UniRef90_S4LA74	K I A V F V R I
UniRef90_Q2BK62	T V P Q F V R I
UniRef90_UPI000174463A	D K A R F V R I
UniRef90_D1BXB6	A K G R F V R L
UniRef90_D4YHH8	T
UniRef90_Q03GJ0	K V D Y V I V
UniRef90_Q6L1U7	E K S L F I R I
UniRef90_R6SHN0	T N A R F V E I
UniRef90_UPI0003604EBB	E Y R N F V K I
UniRef90_G5ZYR4	T G C K F L K I
UniRef90_K2HEX4	R N C R F V R L
UniRef90_D8QUP9	K
UniRef90_D5AUM1	G G C Q F V R I
UniRef90_K2EQP5	K K A D F F R I
UniRef90_A6UWA2	E K A R F V I I
UniRef90_F1LE24	
UniRef90_U2ESL5	T Q P T F V Q I
UniRef90_S6EC97	E R V
UniRef90_U1NX91	Q R A E F V R V
UniRef90_UPI0003B61804	
UniRef90_R6LK37	
UniRef90_I7HWU7	R K L N Y V I V
UniRef90_R9SLF4	R V A K F T R I
UniRef90_H8WZU4	E K V D
UniRef90_Q6C897	E K V D
UniRef90_D8J3H4	E R A E F V R V
UniRef90_G8YSI8	E K V
UniRef90_G4YYT3	D
UniRef90_C0AQW2	T K A E F V R I
UniRef90_W5XR76	T K Q F V R I
UniRef90_Q1IAJ4	E R H E F I E V
UniRef90_R6QAC4	E K A K I T V I
UniRef90_UPI000154EB84	
UniRef90_H3A423	
UniRef90_UPI0002375373	K
UniRef90_UPI0003F059F4	
UniRef90_Q6FM59	
UniRef90_F2UFU1	
UniRef90_Q4N8V1	N V D H V L I

1 10 20 30 40
UniRef90_F6USH9 DFD FLLKPEESNMTGRDKADTSVTLQELLSQS KKGK L
UniRef90_U5NE33 FDYDN ILLLP RK C C V D S R S E C D A S I A F G P R R F R I
UniRef90_I0HZ71 DVLLA P E S V R T V A Q A M T T S A E A R A I L Y E H R L E K L
UniRef90_T0S952 K D V M V T D L I T A R E G T K L A E A N E L L K A N K L G K L
UniRef90_UPI0004671C62 A F D Y E D I L Q L I P E M C I V K S R S E C D T S V K L G K H T F K M
UniRef90_C6A0H4 L V G I T K T D L T T R E G E R V V K E V M T K D V I T S V
UniRef90_D7FXH2 L F G I V T R R D I D F I A D P S V K L R S E V M T K K M V T T E
UniRef90_Q6F1U6 A F D Y E D I L Q L I P N M C V V N S R S E C N T S V T L G K H T F K M
UniRef90_S2K2C7 L V G I V T A R D I Q F H S Q D E T P L K D I M T T E L V V K L
UniRef90_D5T0Z6 L T F D D V K L V H D Q I D H V E N N E L H V E T V L T P T L K L K L
UniRef90_R6IEQ5 L V T S R D Y R V S R M D L N T K V S T F M T P I N K E T S
UniRef90_L1JLMO D D V Q D V M S R D L I V A K E G C T L S Q A N D I M K G S K K G K L
UniRef90_UPI00036705C3 V D M F T Q L S H V M S S E L L T L
UniRef90_R6SNE2 L V T N K D Y R V T R M G R D M P V A E F M T K E D L V Y A
UniRef90_N6T9C7 V T A Q S G V T L T E A N D H I L E K S K K G K L
UniRef90_G8QVf1 F M T P F S R L V Y A R E P V T L S E A N D I L W D H K L N S L
UniRef90_B4MJ75 V T S R D I D F R E N L A D I M T T E L V I T A
UniRef90_M2CDV3 T D L N T K V K E F M T P E R L H V A
UniRef90_R6IC36 L L G I V S S R D Y R S R M E L S T C V S E F M T P E K L V T A
UniRef90_W7BNT1 L L G I V T S R D Y R K V A D F M T P F E K L T T A H K T T T L
UniRef90_R9NZF9 L L G I V T A R D I Q F R D T S L P L S E V M T D S K K G K L
UniRef90_N1JL16 L I G I V T N R D I Q F E E D P R R L V S D V M V T E L I T A
UniRef90_UPI00031F1563 I V T A R D Y R T S R D E L T K K V A E F M T P E R L I V G
UniRef90_UPI000289BC60 F M T P F E S I T H G R S G I T L S E A N D L I W G H K L N V L
UniRef90_G2MKW2 D T V L G I I S G T D I R P Y L E V G E A D D V R E A M T D E V V T A P
UniRef90_S7ZP02 L V G M V T S R D I Q F H K D L T E P V T A I M A R S K K G K L
UniRef90_I3WTS0 L E G I V T T G D V C F V E D K S T K I K D I M T R D P I V K H
UniRef90_R2Q5I2 V G L V I T S R D Y R I S R M S V D T P I K E F M T P K D G I T L
UniRef90_S0FH51 L V G I V T S R D Y R S R A S M D Q K I H E F M T P F S Q E G I
UniRef90_F2EC06 L L G I V T G R D V Q F R D A S A P L A S E V M T D S K K G K L
UniRef90_F2RCI6 S G V D R F T Q L S E V M S K D L L L L D
UniRef90_W6LD76 L L G I V C S K D I D Y V K D K S T A V S R V M T P R A V M T V
UniRef90_K2RER9 L I G I I T P R D I Q F E R N H D L P V S E V M T T D L V T K L
UniRef90_J4IC36 L L G I V T N R D I Q F R A S S T P L S D V M T S S L V I T A
UniRef90_V5A5K2 D T V L G I I S A T D I R P Y L E V G E R D A V A E A M T D E V I T A S
UniRef90_M7AUD4 L V G I I S S R D I D F E E E H D L P L S E I M T K D D L V V A
UniRef90_C8PNY6 I V T S R D E T D R A T P L A E V M T K R R D L
UniRef90_UPI000395C313 L L G I V T P R D T Q F H S D Y D A P V T E I M S K S K K G K L
UniRef90_M3B2D3 L L G I V T P R D T Q F H S D Y D A P V T E I M S K S K K G K L
UniRef90_J3Q5E6 L A G I I T E R D F R N R C E S G A K V C D Y M T P E K L I K A
UniRef90_R6HGM6 L V T D K D Y R V S R D N L D A P I D N Y M T P K E E E G I
UniRef90_I1GMN6 E Q A A F L A D E G L D Y A
UniRef90_V6K5Q1 V D R F T Q T S E V M S R D L L V I D
UniRef90_T2MG64 L L G M L T N R D I D F V K K F S T P V C E V M T K R K D
UniRef90_R5GES2 R L G I T L S E A N D I I W E H K L N T L
UniRef90_C1MX96 D V M T S A S D L L V G S A T D G V A A L E E L L L K S K K G K M
UniRef90_D5UEF5 V D L F T Q V D Q V M T P D P T T V D
UniRef90_G1XEF3 L T Y N D F L V L P G Y I G F P A S E V A L D S K I T R N I S L K I
UniRef90_X4ZDA7 I V T G R D Y R I S R D P L D K Q V S E F M T P K S G I N L
UniRef90_V2WUL4 L V G I V T S R D V Q F R D P S T P L S E V M V T E L V T K L
UniRef90_I4D0J9 L V T T R D Y R I S R D S L D K K V S E F M T P I S K L
UniRef90_W6JUF6 V D R F S Q V G S V M S T Q L A T L
UniRef90_E1RDR8 L T V N E D V K L E D A L E V M Y N N K V E R L
UniRef90_W2C1W9 L L G I V T S R D Y R A E K D P A M K I G T F M T P F S K L G I
UniRef90_E0I618 L L G I V T S R D Y R L S R D L D K P I H S F M T P F S S L
UniRef90_UPI000378E16C D G I L V G L I T S R D F R S R V D L D T K V K D V M T P Y D K L
UniRef90_X1XQX3 L L G I V T G R D Y R S R M D L D T K V T E F M T P H I G I T L
UniRef90_R5QTX5 E D G K L V G I V T S R D Y R S R M D L K T K V K E F M T P E N L V W A
UniRef90_H6LF34 D F K D V L L R P K R S T L K S R S E V N L M R S F V F R N S K Q S Y S G I
UniRef90_F6Y0F8 S G V D R F T Q V R E V M S T E L L T L
UniRef90_J0XF50 D L T W D N K L N T L
UniRef90_E7MPW4
UniRef90_A0A059C7C8 D G L L A G I V T H R D M R F E T E L D D P V R H I M T K D R L V T V
UniRef90_UPI0003C11C7F E D D L S R P V S A Y M T P V E N V G V
UniRef90_U7DAC0 L L G L V T T R D Y R I S R D L D K K V K D F M T P F S K L
UniRef90_A3DD87 L T F E D V A L L G I I T G V D Y L Y L T N K S M K I S T I L T P T L K L N Q
UniRef90_C5RAX2 L V G I I T G V D Y L Y L T N K S M K I S T I L T P T L K L N Q
UniRef90_Q8I2U5 D V D R F T Q V G S V M S R T P V S I D
UniRef90_A6W7D0 D D G A L V G I I T N R D M R F E V D Q S K Q V A E V M T K A P L I T A
UniRef90_F2V4N5 M I P R E L V I T A S A S V T L D S A Y Q T L Q E N K R G K L
UniRef90_E5SID0 F D F N H V M L L P R E C V V E S R G D T D V S A K L G K R T F R I
UniRef90_L0AY93 D V D R F T R V A E V M S A E R V L D A
UniRef90_UPI000376D638 D N F T Q V R A I M S T E L M T I
UniRef90_S2Z6L2 V D R F A R L G E V A D R E P V T L
UniRef90_UPI0003651FC0 L L G I L T T R D I I F E R D K T K K L K S L M T K E N L V T A
UniRef90_X1J5J5 L L G I V T K T D M Y F V E S K N V S L E E I M S T N L
UniRef90_Q4UCL4 F M T P F D S L V Y A Y D G I S L S E A N D K I W E N K V N Q L
UniRef90_S9WIH0 L L G I V T S R D I D F L T D V H T P L S E V M T S D L V V K L
UniRef90_D3R253
UniRef90_UPI0002377A24
UniRef90_Q4YRV8
UniRef90_B3T647
UniRef90_I0H944
UniRef90_UPI000466DB1F D V D R F A R L S T V A D A N F V S A
UniRef90_W8ABI1 D I D M F T D L R S A M T P I P V V L
UniRef90_UPI000273F5A7 R F T Q V L D V M H T D V V V L P E D I G P Q E A F E R L S E V R R K A A
UniRef90_M3UGR9 D V M V P F D R L I T G S E D L T L E H A Y K I L E N E K K G K L
UniRef90_W4XR11 I G I I T P K D L R G Q D N F T A V I G Q L M T T D L V I T L
UniRef90_W9G8V0
UniRef90_J0DPR4
UniRef90_U7KZ55

UniRef90_F6USH9 P I V D A D D R L V S L I A R T D L 50 60 70 80 K K N R E F P L
UniRef90_U5NE33 P V V P S N M K T V I D E R L S I W L A N Q G Y F Y V M H R F D C D T V A F
UniRef90_I0HZ71 P V V D R E G A V V G L I T S R D V E R I E H R A Q
UniRef90_T0S952 P I V N A K G E L V S L I S R R D L V K N R D F P M A
UniRef90_UPI0004671C62 P V V P S N M V T V V N E E L C E Q L A I K G F F Y V M H R F N V D A I K F
UniRef90_C6A0H4 E E I M T L M I E N S I K D R V P I V D D D G K L V G I T T I G D L L A R K K H
UniRef90_D7FXH2 P V G L E E A N A T S K K G K L P V I N A E G N L V A L I S R T D L I K N R D F
UniRef90_Q6F1U6 P V V P A N M A T V I N E E L S I M L A E K N Y F Y V M H R F D F D A V S F
UniRef90_S2K2C7 P I V N A D G A L V A L I S R S D L L K N Q S Y P N A S K G S K S K Q L
UniRef90_D5T0C6 P L L S A A M D T V T E S R F A I E L A K L G G L G V V H K N M W D A D N Y P N
UniRef90_R6IEQ5 L Q E A N D I T W D N K L N T L P I D D E G R L L Y M V F R K D Y A T H K E Y
UniRef90_L1JLM0 P I V N G N G E L V A L I S R T D L L K N R D Y P N C S V D K T S K Q L
UniRef90_UPI00036705C3 P A G L J A P R E A F D R L H D A P I V D G D G R L V G I T R T G A L R A T L Y Q
UniRef90_R6SNE2 S E E T S D I T W E H K I N C L P L V N D K Q E L V Y L V F R K D Y D T H K K N
UniRef90_N6T9C7 P I V N A Q G N L J A L M A R T D L K K A K S Y P L
UniRef90_G8QVf1 P V V D K D N H L K Y L F R K D Y D S H K E N P
UniRef90_B4MJ75 P D G A N N I L E K S K K G K L P I V N Q A G E L V A M I A R T D L K K A R S Y
UniRef90_M2CDV3 E E G I S D I I W E F K L N S L P I L D K K G C L V A F V F R K D Y E S N T E N
UniRef90_R6IC36 P E G T S A I I W D H K L N S L P I V D A A G R L L Y F V F R K D Y A E H K N N
UniRef90_W7BNT1 K E A N N I I W D H K L N A L P I D D D Q H L A Y I V F R K D Y D S N K E N
UniRef90_R9NZF9 P I V D A E G R L V A L L A R S D L L K N Q N Y P L A S K Q P D S K Q L
UniRef90_N1JL16 A Y G T T L M E A K S K K G K L P I T D R E G N L V S M I S R S D L T K N L H F
UniRef90_UPI00031F1563 K E G T T D I T W E H K L N S L P I D K E G N L Q Y L V F R K D Y A E D K E N
UniRef90_UPI000289BC60 P I V D E N Q K L Q H L V F R K D Y D A H K E N P
UniRef90_G2MKW2 E D V G A R E A L E L M Y D H K I E R K G A G K L V G L V T M Q G I L Q R R E H
UniRef90_S7ZP02 P I V D A S G N L V L L S R S D L M K N L H Y P L A S K L P D S K Q L
UniRef90_I3WTS0 P L T A N K L L S E I K K G I L P I V N N K G E L L S I V S R S D V K K K K F
UniRef90_R2Q5I2 S E A N D L L W E H K L N A L P I I D E D Q R L K Y F V F R K D Y D S H K D N
UniRef90_S0FH51 T L K E A N M I W E H K L N C L P I I D S E Q K L V Y L V F R K D Y D S H K E N
UniRef90_F2EC06 P I V D A E G N L V S L L A R S D L L K N Q N F P L A S K L P E S K Q L
UniRef90_F2RC16 P R E A F N T L D A A N R R Y A P A V D A D G K L V G I T R K G A L R A T L Y S
UniRef90_W6LD76 E Q A P I H L E E A M E V L N R S R H G Y L P I L N D K D E V V Y L C R Q Y P N
UniRef90_K2RER9 P I V D E A G N L V A L L S R S D L M K N L N F P L A S K L P D S K Q L
UniRef90_J4IC36 P E G V T L E E A N D L L R D L P I V D K E G R L T S L L A R S D L L K N Q N F
UniRef90_V5A5K2 P R E A L E L M Y E H K I E R V P I V D A G D G L V G L I T M A G V L E R R E Y
UniRef90_M7AUD4 P A G A N E I L Q R S K K G K L P I V N E E D E L V A I A R T D L K K N R D Y
UniRef90_C8PNY6 D L I W E Y K L N S L P V L D M E G K L V A F V F R K D Y E S K K E H
UniRef90_UPI000395C313 V V A P A G V T L K E A N E I L Q R S K K G K L P I V N T D L K K N R E H P A
UniRef90_M3B2D3 P I V D G S N N L L S L L S R S D L M K N L N Y P L A T K V P G T K Q L
UniRef90_J3Q5E6 P L V D S E G R L R S L L A R S D L L K N K D Y P L A S K K P A S K Q L
UniRef90_U2KPI4 E A G I S L D D A D H K I N Q L P I V D K N G N L Q S L V F R K D I E N R E E H
UniRef90_R6HGM6 N L G E A N D K W E T K K E C L P I V E R T K E G N L K Y L V F R K D Y E E R K N N
UniRef90_I1GMN6 P L V S E E G E V I D L I T N K D V E R I R S Y P K L G V P T L G A D G E K F V
UniRef90_V6K5Q1 A G I D P R E D A A H R R L I A P A V D A E G R L V G I L N R R G A L R A T L Y T
UniRef90_T2MG64 L T V A M E G K T L Q Q A N E I L A Q S K K G K L P I I N D Q Q S K N R D F P L
UniRef90_R5GES2 P I I D E K Q N L Q F F V F R K D Y D S H R E N P S
UniRef90_C1MX96 P V V N A E G E L V G L I T R A S I K Q K K L L P P P G A
UniRef90_D5UEF5 L A V T E E G G T H G L E R F S P V V S D G R L V G V L T R V G A L R S S I Y T
UniRef90_G1XEF3 P L V S S P M D T V T E T D M A I H M A L L G G V G L I H H N C P A E E Q A E M
UniRef90_X4ZDA7 P E A N D M I W E H K L N C L P I V D G E Q R L E S L V F R K D Y D A H K E N
UniRef90_V2WUL4 P I I D K E G R L V S L L A R S D L L K N Q S Y P L A S K N P E T K Q L
UniRef90_I4D0J9 I V G A N D I I W E H K L N L P I I D K N Q N L Y F V F R K D Y D D H K E N
UniRef90_W6JUF6 P D G V I S P E L A S V R H R L A P V V R P D G T L V G L T R Q G A L R A T V Y R
UniRef90_E1RDR8 P V V S E G T K T L I G I T I M Q D L L E K N Q Y
UniRef90_W2C1W9 S L S E A N I L W E H K L N S L P I I D A D D R L L A Y F V F R K D Y D S H R K N
UniRef90_E0I618 I Y G K A G M S L P E A N D L I W D N K L N C L P I V D E Q Q Y L Q H L V F R
UniRef90_UPI000378E16C V V G A N D I T W D K K L N Q L P I V D E D R H L K A F V F R K D Y E Q H K E N
UniRef90_X1XQX3
UniRef90_R5QTX5 K E A N D L I W D N K L N A L P I I D D D Q K L A Y F V F R K D Y E T R K S N
UniRef90_H6LF34 P D N T D I T W E H K L N C L P I I D S K Q K L V F M V F R K D Y D S H K E N
UniRef90_F6Y0F8 P V I A A N M D T V G T F E M A K E L C K T L F F I A C S Y
UniRef90_J0XF50 P E G I D S R E A F A R L R A A P V V D D G G R L V G L T R D G A V R S T I Y A
UniRef90_E7MPW4 P V V D E N D H L Q Y L V F R K D Y D S H K E H P
UniRef90_A0A059C7C8
UniRef90_UPI0003C11C7F K E G A A S A E V L Q L L H R N R I E K V L V V
UniRef90_U7DAC0 S L H E A N C L L K Y R K D C L P I V I N A E G H L D S L V F R K D F I E H T D N
UniRef90_A3DD87 V V G K L G I S L S E A N D I I W E N K L N C L P I V D D E Q R L H Y L V F R
UniRef90_C5RAX2 P I L S A A M D T V T E S P M A I A L A K F G G L G V I H K N M L I A D Q D P N
UniRef90_Q8I2U5 N L S D A N K V L C D E K K V L P I V N K N N E L V C R N D M H K N R I F P H
UniRef90_A6W7D0 A D V A E A D L E A A R R R F A P V V R D L G D V G A L T R K G A L R S T V Y A
UniRef90_F2V4N5 Q E G V I S A S A L G L L R R L P V V D G R G R L T G L I T V K D K T E Q H P L
UniRef90_E5SID0 P I V D D E N R L V S L I A R T D I K K R R V Y P L
UniRef90_L0AY93 P L M A A N M P S I L D E T I A I E L A K R N Y F Y V M H R V D I D I L Q F
UniRef90_UPI000376D638 A L L D G P G G L E A R L D L A P V V R D G R L A G V L T R K G A L R S S I Y S
UniRef90_S2Z6L2 P D S V N P K A A F G L L V D A P V I D G E G I L V G V L T R Q S A L R A T I Y
UniRef90_UPI0003651FC0 P L D T K P R E V F E K L H Q A L A T D G G G V L G I M T R R G A L R S E I Y T
UniRef90_X1J5J5 P V G T S I A K A K H K I E K L P I V D K K G Y L K G L I T M R D I K K I E E F
UniRef90_Q4UCL4 V V G K H P M K L N D A N E L L F M S K K G V L P I V N E D Y E L M S I Y P Y
UniRef90_S9WIH0
UniRef90_D3R253 P I V T S E H H L V G L V F R K D Y D E H K E N P D
UniRef90_UPI0002377A24
UniRef90_Q4VRV8 P I V N D N F E L V A L I S R N D L K K N R E F P L
UniRef90_B3T647
UniRef90_I0H944
UniRef90_UPI000466DB1F D L L T A A H A E L P L V G D D G R V T A L V Q R R D Y E L H K Q F
UniRef90_W8ABI1 P A D A S P R D I F G L L N I A V L V N A D G T L G V M T R T G A I R T G I Y T
UniRef90_UPI000273F5A7 M D T V G T F E M A K A L C K F P L E T A V H K H Y N L D Q W Q E F
UniRef90_M3UGR9 P A G T D P R L T D A N A E L A V L V D D D G A L G V L T R T G A L R A G I Y R
UniRef90_W4XR11 P I V N E K D E L V S L I S R T D L K K H R E F P L
UniRef90_W9G8V0 P V V S A A G D L V G I L T R G G A L R S G L Y T
UniRef90_J0DPR4 P I V N S K K E L V S L I A R T D L K K A R D F P W
UniRef90_U7KZ55 P V G I D P Q E A F T K L R K A P V V N P D G T L A G I L T R K G A V R A K M Y

UniRef90_F6USH9 A S K D E R K Q L L C G A A I S T R E E D K H R L E L L V E A G V D A V I L T
UniRef90_U5NE33 V R T M H S L G L Y A S I S I G V K P A D C Q T V E Q L A A E G L I P Q Y T T I
UniRef90_I0HZ71 A S M D E Q K G R L L V G A A I G V K P G E L Q R A A E A L I K A G A D V L L V L
UniRef90_T0S952 S K D Q N K Q L L V G A S I G T R P N D R E R A A A L I A A G V N L L V I
UniRef90_UPI0004671C62 V Q K M K A K N L I S S I S L G V Q V V D Y E V K Q L K E N D L I P D Y I T I
UniRef90_C6A0H4 R N A V R D E E G R L T V A A A V S P F D K R A L A L D K A G A D V I V I
UniRef90_D7FXH2 P T K D D N K Q L R C G A A I G T R P E D R N R L A A L A E A G V D V I V I
UniRef90_Q6F1U6 I K K M K E K K L I S S I S V G V K E Q D F K M I N E L T E L N L I P D Y I T I
UniRef90_S2K2C7 L L V G A A I G T R P S D D K D R L A L L V E A G L D V I V V L
UniRef90_D5T0Z6 A A V D E Q G R L L V A G A V G V T S D T V K R V A A M V A T G V D A I V V L
UniRef90_R6IEQ5 P L E L L D S K K R H V V G A G I N T R D Y E R V P A L V E A G A D V L C I
UniRef90_L1JLMO L C G A A I G T R Q S D Y D R L A Q L L A K E H G I V D I L I
UniRef90_UPI00036705C3 P A V D D R G R L R V A A A V G V N G D V A A K A K E L L E A G I D C L V V
UniRef90_R6SNE2 E N E L I D D S K R Y M V G A G I N T R D Y E R V P A L V E A G A D A L C I
UniRef90_N6T9C7 S K D D N K Q L L V G A A I G T R E E D K Q R L A L L A Q A G V D V I L
UniRef90_G8QVf1 N E L L D K Q L R Y V A A V G A G I N T R D Y E R V P A L L A S G A D V L C L
UniRef90_B4MJ75 P N K D S N K Q L L V G A A I G T R H E D K V R L Q L L V A N G V D V I L
UniRef90_M2CDV3 P L E L L D D K K R Y M V G A G I N T R D Y E R V P A L V E A G A D V L C I
UniRef90_R6IC36 P N E L L D D H K R Y V V G A G I N S R D Y E R V P A L I E A G A D V L C C I
UniRef90_W7BNT1 T L E L L D S S K R Y V V G A G I N T R D Y E R V P A L V E A G A D V L C I
UniRef90_R9NZF9 Y C A A A I G T R P S D R E R L G L L V E A G L D I V I V L
UniRef90_UPI00031F1563 P L A S D S K Q L I C G A A I G T R P D D K T R L G K L V E A G L D I V I V L
UniRef90_UPI000289BC60 S R A L L D S E K R Y M V G A G I N S R D Y E R V P A L V E A G V D A V C I
UniRef90_G2MKV2 L E L L D Q N K S Y I V G A G I N T K D Y K D R V P A L V E A G V D I L V V
UniRef90_S7ZP02 E N A V R D E N D R L C G A A V G P F E E R A V I A D E A G G I D V L F I
UniRef90_I3WTS0 P S K N N N M Q L L V G V A I S T K E G A V D R A A R V L E A G A D V L V I
UniRef90_R2Q5I2 P L E L L D S K K R Y F V G A G I N T R D Y E R V P A L I E A G A D I L C I
UniRef90_S0FH51 P N E L L D Q N K R L V V G A G I N T R D Y E R V P A L V E A G V D V V C I
UniRef90_F2EC06 Y C G A A I G T R E A D K D R L R L L V E A G L D V V V L
UniRef90_F2RC16 P A V D K N G R L R I A A A V G I N G D V A G K A K Q L L D A G V D T L V I
UniRef90_W6LD76 S T L D S S G R L I C A A A T S T R E E D K Y R V S S L A A A G V D V I V L
UniRef90_K2RER9 L S A A A I G T R P E D K I R L Q K L V E A G L D I V I L
UniRef90_J4IC36 P L A S K S K Q L Y A A A A V G T R P A D R D R L T L L V E A G L D I V V L
UniRef90_V5A5K2 Q Q A A R D S N G R L R V G A A V G P F E L E R A E Q A D A A G V D V V F I
UniRef90_M7AUD4 P S K D A K K Q L L C G A A I G T H E D D K Y R L D L L V Q S G V D V V V I
UniRef90_C8PNY6 P N E L L D E K K R Y L V G A G I N T R D Y E R V P V L V A A G A D V L C I
UniRef90_UPI000395C313 A S K D G R K Q L R V G A A I G T R E D D K Y R L D L L V Q A G T D L V V L
UniRef90_M3B2D3 L S A A A V G T R P V D K E R I A A L V E A G L D V V I L
UniRef90_J3Q5E6 L C G A A V G T R E T D R A R L T A L V Q A G L D V V V L
UniRef90_U2KPI4 P L E I H D A Q K R Y T V G A G I N T D Y M E R V P L L L D A G A D V L C L
UniRef90_R6HGM6 P N S L L D E N K R Y T V G A G I N T R D Y E R V P A L V E A G A D M L C I
UniRef90_I1GMN6 V A A S I G T R E D D K Q R L E Q L V Q A G V N A I V I
UniRef90_V6K5Q1 P A T D A A G R L R V A A A V G I N G D V A A R A R T L L D A G V D T L V V
UniRef90_T2MG64 A S K D S K K Q L L V G A A I S T H D D D P R L A A L V E A G V D V V I
UniRef90_R5GES2 E L S D K V N K Q L L V G A G I N T R D Y K E R V P A L V E A G V D V I V L
UniRef90_C1MX96 P S L D K K G R L L C G A A I G T R P A D R D R A V A L A A E G V D A L I L
UniRef90_D5UEF3 P A L D A Q R R L R I A A A V G I N G D V R A K A A A L D A G V D V L V V
UniRef90_G1XEF5 V R K V K Y E N G F I D P V V L S P S H C V K D V R E V K E K Q G F A G I P I
UniRef90_X4ZDA7 P L A L M D G N K S Y I V G A G I N T K D Y E R V P L L V E A G A D I L V I
UniRef90_V2WUL4 Y A A A A I G T R L N D R N R L D L L V K A G L D I V V L
UniRef90_I4D0J9 P S E S L D S E K R F V V G A G I N T R D Y E R V P E L L V K A G A D I L C V
UniRef90_W6JUF6 P N T D A H G R L R I A A A I G I N G D I P G K A R A L A E A G A D V L V M
UniRef90_E1RDR8 P A A N R D K D G K L R V A A A V G P F D F K R A V M L D E A G A D A I V A
UniRef90_W2C1W9 P D E L S D A T K K L L V G A G I N T R D Y K R V P A L I E A G V D A L C I
UniRef90_E0I618 K D Y D D E N K S Y I V G A G I N T K D Y L E R V P A L V E A G V D V L V I
UniRef90_UPI000378E16C P N E V L D D H K R Y L V G A G I N S R D Y D R V P A L V E A G A D V L V I
UniRef90_X1XQX3 S E A D F V K L A A V L A L S P Q L N F I C I
UniRef90_R5QTX5 P N E L L D D S K R Y V V G A G I N T R D F E R V P A L V E A G A D V L C C I
UniRef90_H6LF34 E N E L I D D F K R F V V G A G V N T R D Y E R V P A L I A A G A D V L C C I
UniRef90_F6Y0F8 V N I D F R C I F R I S L A S K A K S F A S E F I S L I V A S L Q P S F N L I S L
UniRef90_J0XF50 P A L D A A E R L R V G A A I G M N G D P A G R A A E L V A A G V D V I V V
UniRef90_E7MPW4 N E L L D S E K R L L V G A G I N S R D Y A E R I P A L V A A G V D V V I
UniRef90_A0A059C7C8 S V D A N G E W M V G A A I G T R E A D K E R L Q H L I K A G V N V V V I
UniRef90_UPI0003C11C7F N D S I C R P A C W S A L P S A C D T D R R V E A L V A A G V D V I V V
UniRef90_U7DAC0 P L E L I D D S E K R L V A A A G I N T H D Y E R V P A L V A A G V D V L T I
UniRef90_A3DD87 K D Y D D H K Q N P Y V G A G I N T R D Y K E R V P A L V A A G V D V L C I
UniRef90_C5RAX2 A A V D D H G R L T V A G A V G V T S N T L E R V R A L V A A G A D A I V L
UniRef90_Q8I2U5 A S K S Q N K Q L L V G A S I S T R E H D L E R A N Q L I K N M I D V I C I
UniRef90_A6W7D0 P A L D A R G R L R I A A A V G I N G D V A A T A K A L L D T G I D T L V V
UniRef90_F2V4N5 A T K D S D G R L L V G A A V G V G G D A W V R A M M L V D A G V D V L V V
UniRef90_E5SID0 S V D D K Y G R L L V G A A I S T R E E S K D R L K L L V E A G V D I I
UniRef90_L0AY93 V A K M K S L G L F T S I A I G I K K P F H D L I D K L H A E G L V P D Y V T I
UniRef90_UPI000376D638 P A L D A S G S L R I G A A V G I N G D V A K A K D L L A A G V D V L V V
UniRef90_S2Z6L2 S P A D E E G K L R V G V A V G I N G D P A G R A S E L V R G G A D L V V V
UniRef90_UPI0003651FC0 P A V D A S G R L R V A A A V G V S G D V A G K A A L L E A G V D L L V A
UniRef90_X1J5J5 P K K D K F G R L R V G A A V G V S E D T I K R V G A L L D A G A D C I V V
UniRef90_Q4UCL4 A S K D D N K Q L L V G A A I S T N V N G L E V A K K L I D A K V D V I L V
UniRef90_S9WIH0 E L L D D N K R L M V G A G I N T R D Y A E R V P A L I E A G A D I L C I
UniRef90_D3R253 A S K D S N K Q L L V G A A V S T K P H D I E R A K A L Q E A G A D V L V V
UniRef90_UPI0002377A24 S N E S V D D D K Q F R V G A G V N T H D Y E R I P A L V E A G A D V L C L
UniRef90_UPI000466DB1F P T V D A A G Q L R V A A A V G I N G D V P A K A K A L V H A G A D L V L I
UniRef90_W8ABI1 P A V D A N G Q L R I A A A V G I N G D V P A K A K A L V D A G A D V L V M
UniRef90_UPI000273F5A7 A R Q N P D C L E H L A A S S G T G S F D F E H L E Q I L E T P Q V N Y L C L
UniRef90_M3UGR9 P V D A D G R L R V A A A V G I N G D V V G K A R G L E T A D I V V V
UniRef90_W4XR11 A S K D P R K Q L L C G A A I G T R E E D K H R L D L L V Q A G V D V I L M L
UniRef90_W9G8V0 P A V D A D G H L R V A A A I G I N G D V A L K A K Q V L D T G A D V L V I
UniRef90_J0DPR4 S S Y D S K G Q L R V G A A I N T R E S A K E A V K K L V A A G A D V L V I
UniRef90_U7KZ55 K P V D K Q G R L H I G A A V G I N G D V E G R A R A L A Q A G A D V L V I

UniRef90_F6USH9 D S S Q G N S [Y] Q I N S I R Y I R H K Y P H L Q V I A G N V V T A A Q A K N 130 140 150 160
UniRef90_U5NE33 D [T] A H G H A D S V R S M L R D H L R R K H L P G T F L V I A G N V V A T P E A A V I D L
UniRef90_I0HZ71 D [T] A H G H A D H Q I E M L R R T L K R R A T F P D D A Q Q V I V A G N V V A T A E G A R K N L
UniRef90_T0S952 D S S Q G D S M F Q I E L L R H L K R K A T F P H V I D V I V A G N V V A T A M R Q A K N L
UniRef90_UPI0004671C62 D [T] A H G H S L A V K D M L K E H I R K H M T K T F V I A G N V V G T P S K A V R D L
UniRef90_C6A0H4 D T A H A H N L K A L K A M K E I K N K V E A E L I V G N I V A N A R P K A V D D L
UniRef90_D7FXH2 D S S Q G D S M Y Q H K E M V I K F I K K S T Y P A I D V V I V G G N V A T A R Q A A A N L
UniRef90_Q6F1U6 D [T] A H G H A N S V K E M I E H I R K M G D Q T F V I A G N V V A T P Q A A V R D L
UniRef90_S2K2C7 D S S Q G N S V Y Q L E K I T W I K K T F P D N L L E V I A G N V V A T R E D G A A A A L
UniRef90_D5T0Z6 D S A H G H S E G V L R K V I S E V R E A F P D N I L A G N I A T T R D D G A A A A L
UniRef90_R6IEQ5 D S S E G Y S E W Q K L T L D W V R E H Y G D V K V G A G N V V D A E G G F R Y L L
UniRef90_L1JLMO D S A Q G D S T Y Q A D M V R R A V I K Q N Y P H I G V V I A G N V V T A S R S G V A H R D L
UniRef90_UPI00036705C3 D T A H G H Q D K M I S A L R A V R A L G P G V I P V V A A G N V V T A S R S G V R D L
UniRef90_R6SNE2 D S S E G F S E W Q K I T V D Y I R E N Y G D V K V G A G N V V T D G D G G F R F L L
UniRef90_N6T9C7 D S S Q G N S [Y] Q V E M I K T F I R K N K Y P N L V V A G N V V T D K R Q A K F L L
UniRef90_G8QVF1 D S S E G F S Q W Q R L A L T W I R K N Y G N V K V G A G N V V D A E G G F R F L L
UniRef90_B4MJ75 D S S Q G N S [Y] Q V E M I K Y I K D K Y P E L Q V I G G N V V T R A D Q G A K N L L
UniRef90_M2CDV3 D S S D G F S D W Q K Q T I K F F I K E K Y G D V I P I G A G N V V D A D D G F N F L L
UniRef90_R6IC36 D S S E G F S C W Q K Q T I D F F I R E K Y G D V K V I G A G N V V D T D D G G F L F L L
UniRef90_W7BNT1 D S S E G H S E W Q K I T L D F I R K Q Y G D V K V G A G N V V D R D D G G F R F L L
UniRef90_R9NZF9 D S S Q G N S V Y Q I E M I Q W I K Q T Y P Q N L D V V A G N V V T R E Q A A S L L
UniRef90_N1JL16 D S S Q G N S [Y] Q I E M V K Y I K N E Y P N V L E V I A G N V V T R E Q A A S L L
UniRef90_UPI00031F1563 D S S E G F S E W Q Y D T I K W V R D T Y G D V K I G A G N V V D R E G G F R Y L L
UniRef90_UPI000289BC60 D S S D G Y S E W Q K E T V E A V K E N Y N V K I G A G N V V D R E G G F L Y L L
UniRef90_G2MKW2 D C A H A H N L N V L D A E A I T E T E Y V E A D V V V G N I G T R A A A E A A C
UniRef90_S7ZP02 D S S N G S S M Y Q I D M L K Y I K K E F P Q I D V I A G N V V T K E Q A A M L L
UniRef90_I3WTS0 D S S Q G N S V F Q I D L I K Q L R Q A F P G I Q I G G N V V T A S Q A K N L L
UniRef90_R2Q5I2 D S S E G F S E W Q K M T I E W V R K Q E Y G D V K I G A G N V V D A E G G F R F L L
UniRef90_S0FH51 D S S D G Y S E W Q S D T I R I W I K E T Y N E V K V G A G N V V D R E G G F R Y L L
UniRef90_F2EC06 D S S Q G N S [Y] Q I E F I Q W I K S T F P D D L Q V I A G N V V T R E Q A A Q L L
UniRef90_F2RCI6 D T A H G H Q E S M I S A I R T V R A S L D P Q V I P I V A G N V V A A E G V K D L L
UniRef90_W6LD76 D S S Q G N S V Y Q I A F V K W L K Q S F P H L E V I A G N V V T Q D Q A K N L L
UniRef90_K2RER9 D S S Q G N S M Y Q I E M I K Y L K E T Y P G L E V I G G N V V T R D Q A A A S L L
UniRef90_J4IC36 D S S Q G N S V Y Q I E M I K W T K S R Y P K L E V I A G N V V T R E Q A A S L L
UniRef90_V5A5K2 D C A H A H N L N V L E S A Q D I T E S E A D V V V G N V G T R E A A E A C
UniRef90_M7AUD4 D S S Q G N S L F Q I N M T I K Y I K K K Y H N L Q V I G G N V V D A A Q A K N L L
UniRef90_C8PNY6 D S S D G F S E W Q K R T I K F V K K Y G D I P I G A G N V V D E A D G F R F L L
UniRef90_UPI000395C313 D S S Q G N S R Y Q L S M I R Y I K A K Y P E L Q V V G G N V V T A A Q A K N L L
UniRef90_M3B2D3 D S S Q G N S M Y Q I E M I R W I K K N F P D D L D V I G G N V V T R D Q A A A S L L
UniRef90_J3Q5E6 D S S Q G N S [Y] Q I E M I K W I K E N H P G L D V I A G N V V T R E Q A A S L L
UniRef90_U2KPI4 D S S E G F T E W Q R R A L K D I H K K W G D V K V G A G N V V D K D G G F N F L L
UniRef90_R6HGM6 D S S D G Y S V W Q K N T I D F V R E K Y G D V K I G A G N V V D J A Q A Q N L L
UniRef90_I1GMN6 D S S Q G N S M Y Q L D M I K Y A K K M Y P E V D L I G G N V V T I K E Q A Q N L L
UniRef90_V6K5Q1 D T A H G H Q E R M L D A L K A V R A L D P Q V L P V V A G N V V A A D G V R D L L
UniRef90_T2MG64 D S S Q G N S C Y Q I E R I K Q I K R E Y P F L E V I G G N V V V A G A K N L L
UniRef90_R5GES2 D S S D G Y S V W Q K Q T I K Q W V K E H Y P D D L P I G A G N V V E R D G G F R Y L L
UniRef90_C1MX96 D S S Q G D S T Y Q I E M V K F L K K T I P E V V D V I A G N V V T Q N Q A R R L L
UniRef90_D5UEF5 D T A H G H Q R K M L D A L A A V R S L D P Q V V V A G N V V T A E G V R D L L
UniRef90_G1XEF3 T E N G T L S M R D I Q F L A R D P N T P L Q E V M T P R S E L V T A N Q G V T L L
UniRef90_X4ZDA7 D A S D G Y T E W Q R D T I A Y V K E N F N V K I G A G N V V D K E G G F L Y L L
UniRef90_V2WUL4 D S S Q G N S L F Q I D M I H W I K A T Y P K L E V I A G N V V T R E Q A A S L L
UniRef90_I4D0J9 D S S D G F S E W Q K T I E Y I K R N Y Q E V K V G A G N V V D R E G G F M Y L L
UniRef90_W6JUF6 D T A H G H Q E K M I E A L T A V R A L D L G V P I A A G N V V T A D G T R D L L
UniRef90_E1RDR8 D C A H G H N L N V V K S V K E M K E S V S A D V V A G N I A T S A A A E E F L L
UniRef90_W2C1W9 D S S D G Y S E W Q R E T V E W V K A N Y N I P V V A G N I A D S E G F R Y L L
UniRef90_E0I618 D S S D G Y S E W Q Y E T V K W V K Q N F D V K I G A G N V V D R E G G F L Y L L
UniRef90_UPI000378E16C D S S E G Y S V W Q A E T I A W I R E K Y G D V K V G A G N V V D E D G G F R F L L
UniRef90_X1XQX3 D [V] A N G Y S E H F H E F L Q R V R E S F P G K T I C A G N V V T G E M V E E L L
UniRef90_R5QTX5 D S S E G F T E W Q K I T I D W I R E H Y G D V K V G A G N V V D A D G G F R F L L
UniRef90_H6LF34 D S S E R G T E W Q K I V I Q Y V R S N Y G D V K F A G A G N I V D K E G G F L F L L
UniRef90_F6Y0F8 H R K A E F P R L T L S T V L C I V W A R F P S H F A Q A P S T V P G P Q F S G L L
UniRef90_J0XF50 D T A H G H Q D R M V E M V G A V R A A G R G M P L V A G N V V S A A G V R D L L
UniRef90_E7MPW4 D S S E G Y S L W Q A E T I K W I R K H Y G D L K V G A G N V V D A E G G F R Y L L
UniRef90_A0A059C7C8 D S S Q G N S [Y] Q I E M I K Y V K K Y P E L D V I G G N V V T M Y Q A D N L L
UniRef90_UPI0003C11C7F D T A H G H S Q G V L D R V S W V K K N F P G V Q V I G G N I C T G E A A L A L L
UniRef90_U7DAC0 D S S D G Y S E Y Q R D C A L W I R E K Y G D L V V G G N V V S A D G G F R Y L L
UniRef90_A3DD87 D S S D G F S V W Q K Y T L D Y I K S N Y N I K V G A G N V V D R E G G F L Y L L
UniRef90_C5RAX2 D S A H G H S E G V L R K I R E V R D A F P K I N I A G N I A T K E G A S A L L
UniRef90_Q8I2U5 D S S Q G N S [Y] Q I D T I K K I K S A H P D I P I V A G N V V T S Q A A K N L L
UniRef90_A6W7D0 D T A H G H Q E K M L D A L R A V R G V D P Q V P V V A G N V V T A A G V R D L L
UniRef90_F2V4N5 D T A H A H N R L V L D M V G K L K S E V G D V E V V G G N V A T R S A A A A L L
UniRef90_E5SID0 D S S Q G C S Q R T K L D L K Y I K A H Y S K L D V I A G N V V T A E Q A E C D L L
UniRef90_L0AY93 D [L] A N G H Q C Q R T K L M I E H L R S K F G D T F I I A G N V A T Q E A V I D L L
UniRef90_UPI000376D638 D T A H G H Q S K M L A A L E A V R S V D P D V T P V V A G N V V T A D G V R D L L
UniRef90_S2Z6L2 D T A H G H Q E T A L R A V R K A L P D D V T I V A G N V V T A D G V A D L L
UniRef90_UPI0003651FC0 D T A H G H Q E K M I S A L H A I R S P S V T P V V A G N V V T A E G V R D L L
UniRef90_X1J5J5 D S A H A H S K G I V E T A K K V R K Y L P K I D L V V I G N I A T A S A A E D I L L
UniRef90_Q4UCL4 D S S Q G N S V F Q I D L T K Q L K S A Y P N V Q I I G G N V V S A Q A K N V L L
UniRef90_S9WIH0 D S S D G Y S E W Q S D T L R W L K Q N Y G D V F V G G G N V V D G E A F R Y L L
UniRef90_D3R253 D S S D G Y S E W Q S D T L R W L K Q N Y G D V F V G G G N V V D G E A F R Y L L
UniRef90_UPI0002377A24 D S S Q G D S [Y] Q V D L V K R L K A A F P E L Q I T I G G N V V T A R Q A K S L L
UniRef90_Q4YRV8 D S S Q G D S [Y] Q V D L V K R L K A A F P E L Q I T I G G N V V T A R Q A K S L L
UniRef90_B3T647 D S S D G Y S V W Q K N V L E F V R T E Y G D V R L G A G N V V A T A K G T E D L L
UniRef90_I0H944 D T A H G H Q E K M L D A L R A V R A R E L Q V P L V A G N V V D A E G G F R Y L L
UniRef90_UPI000466DB1F D T A H G H Q Q K M L E A L R S V A R S L D L G V P L V A G N V V A E G A R D L L
UniRef90_W8ABI1 D [V] A N G Y S E H C V E F V A D L R G C F P Q H T [M] A E N V V T G E M V E E L L
UniRef90_UPI000273F5A7 D T A H G H Y S E K M L E T A L A V A G A D L G V P V A G N V V S E R G A L D L L
UniRef90_M3UGR9 D S S Q G N S S F Q V S M I K C T K A K Y P E L Q V V A G N V V T V A Q A K N L L
UniRef90_W4XR11 D T A H G H Q D K M I E A L R A V R A L D P Q V P V V A G N V V S A V G T R E L L
UniRef90_W9G8V0 D S S Q G A S M Y Q V N L K W I K S T Y P E T P Q I I A G L V T A Q K Q A E L L
UniRef90_J0DPR4 D T A H G H Q D S M L T A L R K V K A L D L G L P I A A G N I V T A E G V R E L L
UniRef90_U7KZ55 D T A H G H Q D S M L T A L R K V K A L D L G L P I A A G N I V T A E G V R E L L

UniRef90_F6USH9 T D A G A D A L R V G M G S S I C C C T T R E V M A V G R P Q A T A V Y K V S E Y
UniRef90_U5NE33 E T W G A D A T K V V G V L G S P G S K S V I C C C T T R Q E V L K T T G F G T G Q W Q T A V K W D A R V
UniRef90_I0HZ71 A E A G A D A V L K V V G M G S P G S G S V I C C C T T T R Q E V L K T T G F G T G Q W Q T A V K W D A R V
UniRef90_T0S952 I L J A G A D D G L K V I G G M G S P G S G S V I C C C T T T R Q E V L K T T G F G T G Q W Q T A V K W D A R V
UniRef90_UPI0004671C62 E Y W G A D A T K V V G V L G S P G S K S V I C C C T T T R Q E V L K T T G F G T G Q W Q T A V K W D A R V
UniRef90_C6A0H4 T F A G A D A V L K V V G M G S P G S G S V I C C C T T T R Q E V L K T T G F G T G Q W Q T A V K W D A R V
UniRef90_D7FXH2 T K S G V D A L R V V G M G S P G S G S V I C C C T T T R Q E V L K T T G F G T G Q W Q T A V K W D A R V
UniRef90_Q6F1U6 E H W G A D A T K V V G V L G S P G S K S V I C C C T T T R Q E V L K T T G F G T G Q W Q T A V K W D A R V
UniRef90_S2K2C7 I E A G A D D G L R V I G G M G S P G S G S V I C C C T T T R Q E V L K T T G F G T G Q W Q T A V K W D A R V
UniRef90_D5T0Z6 Y D A G A D D V L K V I G G M G S P G S G S V I C C C T T T R Q E V L K T T G F G T G Q W Q T A V K W D A R V
UniRef90_R6IEQ5 A E A G A D F V K V V G V L G S P G S G S V I C C C T T T R Q E V L K T T G F G T G Q W Q T A V K W D A R V
UniRef90_L1JLMO I Q A G A D D A L R V V G M G S P G S G S V I C C C T T T R Q E V L K T T G F G T G Q W Q T A V K W D A R V
UniRef90_UPI00036705C3 V E A G A D L L K V V G M G S P G G A M C C C T T T R M M T G V I G R P Q A T A V L E V A A E
UniRef90_R6SNE2 A E A G A D F V K V V G V L G S P G S G S A I C C C T T T R E Q K G I V I G R G Q A T A V L E V A A E
UniRef90_N6T9C7 I D A G A D A L R V V G M G S P G S G S A I C C C T T T R E Q K G I V I G R G Q A T A V L E V A A E
UniRef90_G8QVF1 A E S G A D F V K V V G G I G G S P G S G S I I C C C T T T R E T K G I V I G R G Q A T A V L E V A A E
UniRef90_B4MJ75 I D A G V D G L R V V G M G S P G S G S I I C C C T T T R E T K G I V I G R G Q A T A V L E V A A E
UniRef90_M2CDV3 A D A G A D F I K V V G G I G G S P G S G S I I C C C T T T R E T K G I V I G R G Q A T A V L E V A A E
UniRef90_R6IC36 A E A G A D F V K V V G V L G S P G S G S I I C C C T T T R E Q K G I V I G R G Q A T A V L E V A A E
UniRef90_W7BNT1 A E A G A D F I K V V G V L G S P G S G S I I C C C T T T R E Q K G I V I G R G Q A T A V L E V A A E
UniRef90_R9NZF9 I A A G A D A L R V I G G M G S P G S G S I I C C C T T T R E Q K G I V I G R G Q A T A V L E V A A E
UniRef90_N1JL16 I A A G V D G L R V I G M G S P G S G S A I C C C T T T R E Q K G I V I G R G Q A T A V L E V A A E
UniRef90_UPI00031F1563 A N A G A D F I K V V G I G G S P G S G S I I C C C T T T R E A K G I V I G R G Q A T A V L E V A A E
UniRef90_UPI000289BC60 V E A G A D F V K V V G I G G S P G S G S I I C C C T T T R E Q K G I V I G R G Q A T A V L E V A A E
UniRef90_G2MKW2 V E F A D G L R V I G M G S P G S G S I I C C C T T T R V V T G A V I G M P Q A T A V L E V A A E
UniRef90_S7ZP02 I A A G A D G L R V I G M G S P G S G S A I C C C T T T R Q E V M A V I G R P Q A T A V L E V A A E
UniRef90_I3WTS0 I D A G V D G L R V V G M G S P G S G S I I C C C T T T R Q G V C G I V I G R G Q A T A V L E V A A E
UniRef90_R2Q5I2 A E A G A D F I K V V G G I G G S P G S G S I I C C C T T T R E Q K G I V I G R G Q A T A V L E V A A E
UniRef90_S0FH51 V N A G A D F I K V V G G I G G S P G S G S I I C C C T T T R E Q K G I V I G R G Q A T A V L E V A A E
UniRef90_F2EC06 I A A G A D A L R V I G M G S P G S G S I I C C C T T T R E Q K G I V I G R G Q A T A V L E V A A E
UniRef90_F2RCI6 I E A G A D L I K V V G V L G S P G G A M C C C T T T R M M T G V I G R P Q F S A V L E V A A E
UniRef90_W6LD76 I D A G A D G I R V V G M G S P G S G S I I C C C T T T R E V L A C G I V I G R P Q A T A V L E V A A E
UniRef90_K2RER9 I A A G V D G L R V I G M G S P G S G S A I C C C T T T R E Q E I M A V I G R P Q A T A V L E V A A E
UniRef90_J4IC36 I A A G A D D G L R V I G M G S P G S G S I I C C C T T T R Q E I M A V I G R P Q A T A V L E V A A E
UniRef90_V5A5K2 V G F A D G L R V I G G S P G S G S I I C C C T T T R V V S G A V I G M P Q I T A V L E V A A E
UniRef90_M7AUD4 I D A G V D A L R V V G M G S P G S G S I I C C C T T T R E I L L A C G I V I G R P Q A T A V L E V A A E
UniRef90_C8PNY6 A D A G A D F I K V V G G I G G S P G S G S I I C C C T T T R E T K G I V I G R G Q A T A V L E V A A E
UniRef90_UPI000395C313 I D A G V D A L R V V G M G S P G S G S I I C C C T T T R E Q E V L A C G I V I G R A Q A T A V L E V A A E
UniRef90_M3B2D3 I A A G V D G L R V I G M G S P G S G S A I C C C T T T R E Q E V M A V I G R P Q Q S A V L E V A A E
UniRef90_J3Q5E6 I L A V G A D A L R V I G M G S P G S G S I I C C C T T T R E Q E V M A V I G R P Q Q S A V L E V A A E
UniRef90_U2KPI4 A E S G A D F V K V V G I G G S P G S G S I I C C C T T T R E T K G I V I G R G Q A T A V L E V A A E
UniRef90_R6HGM6 A K A G A D F I K V V G V L G S P G S G S I I C C C T T T R E T K G I V I G R G Q A T A V L E V A A E
UniRef90_I1GMN6 V T A G V D G L R V I G M G S P G S G S I I C C C T T T R E Q E V L A C G I V I G R G Q A T A V L E V A A E
UniRef90_V6K5Q1 I Q A G A D V V K V V G V L G S P G G A M C C C T T T R M M T G V I G R P Q F S A V L E V A A E
UniRef90_T2MG64 I D A G V D G L R V I G M G S P G S G S I I C C C T T T R E Q E V C A G I V I G R P Q A T A V L E V A A E
UniRef90_R5GES2 V E A G A D F V K V V G G I G G S P G S G S I I C C C T T T R E Q K G I V I G R G Q A T A V L E V A A E
UniRef90_C1MX96 L D A G A D A L R V V G M G S P G S G S I I C C C T T T R E V C A V I G R G Q A T A V L E V A A E
UniRef90_D5UEF5 V E A G A D I V K V V G M G S P G G A M C C C T T T R M M T A V I G R P Q F S A V L E V A A E
UniRef90_G1XEF3 S E A N V I L Q K V C K V G G I G G S P G S G S I I C C C T T T R M M T A V I G R P Q F S A V L E V A A E
UniRef90_X4ZDA7 V E S G A D F V K V V G I G G S P G S G S I I C C C T T T R E Q K G I V I G R G Q A T A V L E V A A E
UniRef90_V2WUL4 I A A G A D G L R V I G M G S P G S G S I I C C C T T T R E Q E V M A V I G R P Q A T A V L E V A A E
UniRef90_I4D0J9 V N S G A D F V K V V G I G G S P G S G S I I C C C T T T R E Q K G I V I G R G Q A T A V L E V A A E
UniRef90_W6JUF6 I A A G A D I V K V V G V L G S P G G A M C C C T T T R M M T A V I G R P Q F S A V L E V A A E
UniRef90_E1RDR8 G G S V D G L K V V G I G G S P G S G S I I C C C T T T R V E A G V I G R V Q V T A I L A S V A E V
UniRef90_W2C1W9 V D A G A D F I K V V G I G G S P G S G S I I C C C T T T R E Q K G I V I G R G Q A T A V L E V A A E
UniRef90_E0I618 V E S G A D F V K V V G I G G S P G S G S I I C C C T T T R E Q K G I V I G R G Q A T A V L E V A A E
UniRef90_UPI000378E16C A D A G A D F I K V V G I G G S P G S G S I I C C C T T T R E Q K G I V I G R G Q A T A V L E V A A E
UniRef90_X1XQX3 I L S G A D I V K V V G I G G S P G S G S V C C C T T T R V K T G V I G Y P Q L S A V I L E V A A E
UniRef90_R5QTX5 A E S G A D F V K I G I G G S P G S G S I I C C C T T T R E Q K G I V I G R G Q A T A V L E V A A E
UniRef90_H6LF34 A E A G A D F I K I G I G G S P G G A M C C C T T T R E V A S G A V I G R G Q A T A V L E V A A E
UniRef90_F6Y0F8 C L V F E D D A E L V L S P G Y V S V A S G P C G G Q G M W L A T L L E V A A E
UniRef90_J0XF50 V E A G A S I V K V V G V L G S P G G A M C C C T T T R M M T A V I G R P Q F S A V L E V A A E
UniRef90_E7MPW4 A E A G A D F I K I G I G G S P G S G S I I C C C T T T R E T K G I V I G R G Q A T A V L E V A A E
UniRef90_A0A059C7C8 I K A G V D G L R V I G M G S P G S G S I I C C C T T T R E Q E V C A G I V I G R G Q A T A V L E V A A E
UniRef90_UPI0003C11C7F L D S G A D A V K V V G I G G S P G S I I C C C T T T R V V A G V I G V P Q V T A I D L V A A E
UniRef90_U7DAC0 E E A Q L D F V K V V G I G G S P G S G S I I C C C T T T R E Q K G I V I G R G Q A T A V L E V A A E
UniRef90_A3DD87 A E A G A D F V K V V G I G G S P G S G S I I C C C T T T R E Q K G I V I G R G Q A T A V L E V A A E
UniRef90_C5RAX2 Y D A G A D V A K V V G I G G S P G S I I C C C T T T R V V A G V I G V P Q I S A I A A A E A
UniRef90_Q8I2U5 I D A G A D V L R V I G M G S P G S G S I I C C C T T T R Q D V C A G I V I G R A Q G T A V L E V A A E
UniRef90_A6W7D0 V A A G A D I V K V V G M G S P G G A M C C C T T T R M M T G V I G R P Q F S A V L E V A A E
UniRef90_F2V4N5 V D A G A D A V K V V G V L G S P G S I I C C C T T T R V V A G V I G G A P Q I T A I L E A V A A E
UniRef90_E5SID0 I S A G A D A L R V I G M G S P G S G S I I C C C T T T S E V M A V I G R A Q G T A V I Y Q V A R Y
UniRef90_L0AY93 E S W G A D T R V V G L G S P G Y V C C C T T T S P R T G F G R S R G W Q A I A D C A A A E
UniRef90_UPI000376D638 V A A G A D I L K V V G V L G S P G G A M C C C T T T R M Q T G V I G R P Q F S A V L E V A A E
UniRef90_S2Z6L2 L G A G A N I A K V V G V G P G G A M C C C T T T R M M T G V I G R P Q F S A V L E V A A E
UniRef90_UPI0003651FC0 A E A G A D V I K V V G V G P G G A M C C C T T T R M M T G V I G R P Q F S A V L E V A A E
UniRef90_X1J5J5 I K I G V D A I K V V G V G P G S I I C C C T T T R V I T G V I G L P Q I T A I M D V A D V
UniRef90_Q4UCL4 L E A G C D S I K V V G M G S P G S G S I I C C C T T T R N I C G I V I G R P Q A T A V L E V A A E
UniRef90_S9WIH0 I L S G A D I L K V V G I G G S P G S I I C C C T T T R T K T G V I G Y P Q L S A V I L E V A A E
UniRef90_D3R253 V N A G A D F V K V V G I G G S P G S I I C C C T T T R E T K G I V I G G C Q A T A I N V V K A
UniRef90_UPI0002377A24 L E A G A D A V K V V G M G S P G S I I C C C T T T R V A G V I G V P Q I T A I D S V A T A
UniRef90_Q4YRV8 I D A G V D G L R V I G M G S P G S G S I I C C C T T T R Q V V C A G I V I G R A Q A T A V L E V A A E
UniRef90_B3T647 I K A G V D S V K V V G V L G S P G S G S I I C C C T T T R V I T G S V I G P Q L T A V L D C A K V
UniRef90_I0H944 A D A G A D F V K V V G I G G S P G S G S I I C C C T T T R D Q K G I V I G R G Q A T A V L E V A A E
UniRef90_UPI000466DB1F V A A G A D I V K V V G V G P G G A M C C C T T T R M M T G V I G R P Q F S A V L E V A A E
UniRef90_W8ABI1 I E A G A D I I K V V G V G P G G A M C C C T T T R M M T G V I G R P Q F S A V L E V A A E
UniRef90_UPI000273F5A7 I L S G A D I I K V V G I G G S P G S G S A C C C T T T R K K T G V I R Y P Q L S A V M E C G D A
UniRef90_M3UGR9 I D A G A T L V K V V G V L G S P G G A M C C C T T T R M M T G V I G R P Q F S A V L E V A A E
UniRef90_W4XR11 I Q A G A D A L R V V G M G S P G S I I C C C T T T R E V M A V I G R P Q G T A V L E V A A E
UniRef90_W9G8V0 I E A G A D I V K V V G M G S P G G A M C C C T T T R M M T A V I G R P Q F S A V L E V A A E
UniRef90_J0DPR4 I N A G A D A I K V V G I G G S P G S G S I I C C C T T T R E V T A V I G R A Q G T A V L E V A A E
UniRef90_U7KZ55 A A A G A D I I K V V G V L G S P G G A M C C C T T T R M Q T G V I G R P Q F S A V L E V A A E

UniRef90_F6USH9 A R R F N V P V I A D G G G I Q N V G H V T K A L A L G A S T V M M G S L L A A T 210 220 230 240
UniRef90_U5NE33 A T K F D T P V I A D G G G I R T S G D H I V K A L A R F G A S T M V M V G S L L A A G H
UniRef90_I0HZ71 L R K G F D T P V I A D G G G I A S S G D H I V K A L A S V G A S A V M C G S L L F A A G T C
UniRef90_T0S952 A R K Y G V P V I A D G G G I R V N G D V A K S I R F G A S T V M I G S L L F A A G T H
UniRef90_UPI0004671C62 A T K V E Y G I R V I A D G G G I R Y S G D I V K A L A A G A G A D A V M L G N L L A G T
UniRef90_C6A0H4 A V E Y G I R V I A D G G G I R Y S G D I V K A L A A G A G A D A V M L G N L L A G T
UniRef90_D7FXH2 S R K L G V P V I A D G G G I A A T G H I V K A L A A M G A G V V M M G S M L A G T
UniRef90_Q6F1U6 A T K V E Y G I R V I A D G G G I R V N G D I A K S I R F G A T M C M I G S L L F A A G T H
UniRef90_S2K2C7 C R R F G V P T I A D G G G I V G N V G E D I V K A L A A L G A S A V M M G S L L A G T
UniRef90_D5T0Z6 A R R R G K T I I A D G G G A K T P G E D I V K A L A A A G G A N A V M M G S M F A S G T
UniRef90_R6IEQ5 R D E Y Y K P I I C S D G G G I V Y D Y H M T L A L A A M G A D F L M L G R Y F A R F T
UniRef90_L1JLMO A R R F D I P I A D G G G I R S P G H I M K A L A S L G A S C V M M G S M L A G T
UniRef90_UPI00036705C3 A R R L G R H V I A D G G G V R H P R D V A L A L A A G A S N V M V G S W F A G T
UniRef90_R6SNE2 R D E Y Y K P I I C S D G G G I V H D Y H I T L A L A A M G A D F I M L G R Y F A R F T
UniRef90_N6T9C7 A R R F Y G V P I A D G G G I Q S I G H I L I K G L A S L G A S T F V M M G S L L A G T
UniRef90_G8QVF1 R D E Y Y V P I I C S D G G G I V L D Y H M T L A L A A M G A D F I M L G R Y F A R F T
UniRef90_B4MJ75 A K Q F G V P V I A D G G G I Q S I G H I T V K A L A A L G A S A V M M G S L L A G T
UniRef90_M2CDV3 R K G V Y I P I C S D G G G I V F D Y H I T L A L A A M G A D F F C M L G R Y F A R F T
UniRef90_R6IC36 R D G V Y I P I C S D G G G I V H D Y H M T L A L A A M G A D F L M M G S M L A G T
UniRef90_W7BNT1 R D E Y Y I P I I C S D G G G I V Y D Y H M T L A L A A M G A D F L M L G R Y F S R F T
UniRef90_R9NZF9 A S K F G V P V I A D G G G I S N V G H I A K A L A A L G A S A V M M G S L L A G T
UniRef90_N1JL16 A A R F G V P C M A D G G G V Q N V G H I V K G L A A L G A S S V M M G G L L A G T
UniRef90_UPI00031F1563 R D E Y Y V P T I C S D G G G I V H D Y H I T L A L A A M G A D F V M L G R Y F A R F T
UniRef90_UPI000289BC60 R D G T Y I P V I C C S D G G G I V H D Y H I T L A L A A M G A D F V M M G R Y F A R F T
UniRef90_G2MKW2 A S Q H D V P V I A D G G G I R Y S G D A I K A I A A G A D A V M L G S Y F A G T
UniRef90_S7ZP02 A A R F G V P C I A D G G G I Q N I G H I V K G L A A L G A S T V M M G G L L A G T
UniRef90_I3WTS0 A H G N D C P I A D G G G I R T S G D M M K A L A A L G A S C C C M L G G A I A G T
UniRef90_R2Q5I2 R E E Y Y V P I C S D G G G I V H D Y H M T L A L A A M G S D F I M L G R Y F S R F T
UniRef90_S0FH51 R D E Y Y V P I I C S D G G G I V H D Y H I T V L A L A A M G A D F V M L G R Y F A R F T
UniRef90_F2EC06 A R K F G V P T I A D G G G I Q N V G H I A K A L A A L G A S A V M M G S M L A G T
UniRef90_F2RC16 A K K Y G K H V I A D G G G V R H P R D V A M A L A A G A S N V M I G S W F A G T
UniRef90_W6LD76 C A S R G V P C I A D G G G I R S V G D I C K A L A A G A N V V M L G G M L A G T
UniRef90_K2RER9 A A R F G V P C I A D G G G V Q N V G H I V K G L A A M G A T T V M M G S L L A G T
UniRef90_J4IC36 A S K F G V P V I A D G G G V Q N V G H I V K A L A A L G A G A V M M G G L L A G T
UniRef90_V5A5K2 A A A H D I P V I A D G G G I R Y S G D A I K A I A A G A D A V M L G S Y F A G T
UniRef90_M7AUD4 A R R F G V P V I A D G G G I Q T V G H I A K A L A A L G A S T V M M G S L L A A T
UniRef90_C8PNY6 R D G V Y I P I C S D G G G I V Y D Y H I T M A L A A M G S D F C M L G R Y F A R F T
UniRef90_UPI000395C313 A R R F G V P V I A D G G G I R S P G H A V K A L A A L G A S T A P P X X X A A T
UniRef90_M3B2D3 A A R F G V P C I A D G G G I Q N V G H I V K A L A A L G A S T I V M M G G L L A A T
UniRef90_J3Q5E6 A R R F G V P V I A D G G G I S N V G H I G K A I A A L G A S A V M M G G L L A G T
UniRef90_U2KPI4 R D E W Y I P I I C S D G G G I V H D Y H I T L A L A A M G A D F V M L G R Y F A R F T
UniRef90_R6HGM6 R D E Y Y I P V I C C S D G G G I V H D Y H I T L A L A A L G A S T F V M M G S Y F A R F T
UniRef90_I1GMN6 A N D Q N V P V I A D G G G I S Y S G H I V K A L A A L G A S T V M M G S F L A G S
UniRef90_V6K5Q1 A R R H G G H V W A D G G G V R H P R D V A M A L A A G A S N V M V G S W F A G T
UniRef90_T2MG64 A R R F N V P C I A D G G G I A N V G H I K A L A S L G A S A V M M G S L L A G S
UniRef90_R5GES2 R D E Y Y I P I C S D G G G I V H D Y H M T L A I A A M G A D F L M M G R Y F A R F T
UniRef90_C1MX96 A A Q Y D V P I I A D G G G I Q N S G H V T K A L A T L G A S T A M C G S M F A G T
UniRef90_D5UEF5 A R R L G K H V W A D G G G V R H P R D V A L A L A A A G A S Q V M V G S W F A G T
UniRef90_G1XEF3
UniRef90_X4ZDA7 R E G L Y V P I C S D G G G I V H D Y H I T L S L A A M G A D F V M M G G R Y F A R F T
UniRef90_V2WUL4 A N K F G V P V I A D G G G I S N V G H I V K A L A S L G A G A V M M G G L L A G T
UniRef90_I4D0J9 R D G L Y V P I C S D G G G I V H D Y H I V L A L A A M G A D F V M M G R Y F A R F T
UniRef90_W6JUF6 A R E L G K H V W A D G G G I R H P R D V A L A L A A A G A S N A M I G S W F A G T
UniRef90_E1RDR8 A S Q Y D V P I C S D G G G I R Y S G D I A K A I A A G A D C V M L G S L L A G T
UniRef90_W2C1W9 R D G L Y V P I C S D G G G I V H D Y H M T L A L A A M G A D F L M M G R Y F A R F T
UniRef90_E0I618 R Q G I Y V P I C S D G G G I V H D Y H I T L A L A A M G A D F V M M G R Y F A R F T
UniRef90_UPI000378E16C R D G V Y P L C S D G G G I V Q D Y H M T L A L A A F G G A D F V M L G R Y F A R F T
UniRef90_X1XQX3 A H G L G G Q I V S D G G G C S V G D I A K A F G G G A D F V M L G G M L A A H
UniRef90_R5QTX5 R D E Y Y I P I C S D G G G I V H D Y H M T L A L A A M G S D F I M L G R Y F S R F T
UniRef90_H6LF34 R D G L Y P L C S D G G G I V H D Y H M T L A L A A M G A D F I M M G R Y F A R F T
UniRef90_F6Y0F8 C P L R G P L M T G W A C L C P D R R E S T L G A G A D F V M L G G M L A G H
UniRef90_J0XF50 A A R L G A H V W A D G G G V R H P R D V A L A L A A A G A S N V M V G S W F A G T
UniRef90_E7MPW4 R D E Y Y V P I C S D G G G I V Y D Y H I T L A L A A M G A D F V M L G R Y F S R F T
UniRef90_A0A059C7C8 A S Q Y G V P V I A D G G G I S N S G H I V K A L A S L G A S T V M M G S F L A G S
UniRef90_UPI0003C11C7F L Q D R I P I A D G G G I R Y S G D I G K A L A A A G A S T I M V G G L L A G T
UniRef90_U7DAC0 R D E Y Y V P I C S D G G G I V N D T Q I I T A T A M G A D F V M M G R Y F A M T
UniRef90_A3DD87 R D E Y Y P I C S D G G G I V H D Y H I V L A L A A M G A D F V M M G R Y F A R F T
UniRef90_C5RAX2 A K E Y N K A L I A D G G G I K T S A D M S K A I L A G G H A I M L G S V L A G T
UniRef90_Q8I2U5 A H T R N K T I A D G G G I K N S G N I V K A L A S L G A D F V M L G N L L A A T
UniRef90_A6W7D0 A R E L G A H V W A D G G G V R H P R D V A L A L A A A G A S Q V M V G S W F A G T
UniRef90_F2V4N5 C R P A G V P V I A D G G G L Q Y S G D I A K A L A A A G T S T A M L G S L L A G T
UniRef90_E5SID0 A Q R Y G V P V I A D G G G I Q C L G H A T K A L A A L G A S T V M M G S L L A G T
UniRef90_L0AY93 A K K V I I A D G G G V R S S G D I A K A I H F G A H V W M S G L F F T G H
UniRef90_UPI000376D638 A R E L G K H V W A D G G G V R H P R D V A L A L A A A G A S Q V M V G S W F A G T
UniRef90_S2Z6L2 A R A L G G H V W A D G G G V R N P R D V A L A L A A A G A S N V M V G S L F A G T
UniRef90_UPI0003651FC0 A R E L G K R I W A D G G G V R H P R D V A L A L A A A G A S S V M V G S W F A G T
UniRef90_X1J5J5 A K K Q R I P I I A D G G G V R Y S G D I V K A I A A G A D V M L G V L L A G T
UniRef90_Q4UCL4 T F E H W N P I I A D G G G I K T S G D I V K A L A S L G A S C V M G S L F A G S
UniRef90_S9WIH0 A H G L K G H I I S D G G G C T C P G D V A K A F G A G A D F V M L G G M F A S G H
UniRef90_D3R253 R D E Y Y T P L C S D G G G I V L D Y H M T L A L A A M G A D F L M L G R Y F A R F T
UniRef90_UPI0002377A24 L A G S G V P I A D G G G I R Y S G D I A K A L A A A G A S T V M M G S M F A G T
UniRef90_Q4YRV8 A R E H D V P C I A D G G G I Q N S G H I V M K A L A A L G A N A V M M G S M L A G T
UniRef90_B3T647 G K D Y G I P I I S D G G G T R N S G D A T K A L A A A G A S S I M V G S L L G T
UniRef90_I0H944 R T G E Y V P I C S D G G G V L H D S R M A I A F A F G A D F L M L G R Y F A R F T
UniRef90_UPI000466DB1F A A E L G A H V W A D G G G V R H P R D V A L A L A A A G A S N V M V G S W F A G T
UniRef90_W8ABI1 A K E F G K H V W A D G G G V R H P R D V A L A L A A A G A S N V M I G S W F A G T
UniRef90_UPI000273F5A7 A H G L N G H I I S D G G G Y S C P G D M A K A W A G A G A D F V M L A G H
UniRef90_M3UGR9 A R E R G A H V W A D G G G I R H P R D V A L A V A A G A S N A M V G S W F A G T
UniRef90_W4XR11 A R S C G V P I I A D G G G I T V G H I T K A L A S L G A S S V M M G S L L A G T
UniRef90_W9G8V0 A R G L G K H V W A D G G G V R H P R D V A L A L A A A G A S N V M I G S W F A G T
UniRef90_J0DPR4 A R T R G I P V I A D G G G I R D V G Y I T K A L A A L G A S T V M M G G L L A G T
UniRef90_U7KZ55 A R E V I G A H V W A D G G G V R D P R D V A L A L A A A G A S N V M I G S W F A G T

UniRef90_F6USH9 T E S P G E Y F Y S D G I R L K K Y R 260 G M S V D A M E R Y F S E K D K R V A
UniRef90_U5NE33 H E S P G G R T V D V D G V A H K E Y Y G S A S L G A V I G R F Q Q S N D W D K V V P
UniRef90_I0HZ71 E E S A P G G A P V I R D G Q K V K V Y R G M A S L V E A Q K R Y F Q Q S N D W D K V V P
UniRef90_TA0S952 E E S P G G Q Y V F R D G V R L K K Y R G M G S L V E A Q K R Y F Q Q S N D W D K V V P
UniRef90_UPI0004671C62 A E S P G G K T V E I D G E L Y K E F F G S A S L V E A Q K R Y F Q Q S N D W D K V V P
UniRef90_C6A0H4 K E A P G G R E V T Q E G V R L K K Y R G M G S L G A M M K G G A E S G A K V K V A
UniRef90_D7FXH2 E E A P G E Y V F L N G V R L K K Y R G M G S L E A M K R Y F A S G A K V K V A
UniRef90_Q6F1U6 E E S P G G K N V T V D N V L F K E Y Y G S A S L V E A Q K R Y F E Y N K G E K R Y V
UniRef90_S2K2C7 T E T P G E Y F Y H E G Q R L K K Y R G M G S I D A M N R Y F S E S G D A V K V A
UniRef90_D5T0Z6 T E T P G G V I F E D Q G K K Y K T Y R G M G S I A A M E A G S K D R Y K K M V P
UniRef90_R6IEQ5 D E S P T N K V N I N G N Y M K E Y W G E G S N R A R N W Q M G G A S K L S F E
UniRef90_L1JLMO H E A P G G E W F Y R D G V R M K K Y R G M A S K E A M E K G S S T R Y L M Q V E
UniRef90_UPI00036705C3 Y E S P G G D T V D A D G R K Y K E N F G M A S A R A V E R A R K A L F E E G I S
UniRef90_R6SNE2 D E S P T K R V N I N G S Y M K E Y W G E G S A R A R N W Q M G G D K K L S F E
UniRef90_N6T9C7 S E A P G E Y F F S D G V R L K K Y R G M G S L E A M D R Y F H S D V D K L K V A
UniRef90_G8QVf1 D E S P T E K V N I N G S Y M K E Y W G E G S A R A R N W Q R G G D D K L S F V
UniRef90_B4MJ75 S E A P G E Y F F S D G V R L K K Y R G M G S L E A M E R Y H N E M D K M K V A
UniRef90_M2CDV3 D E S P T N K V L I N G N Y M K E Y W G E G S A R A R N W Q R Y D S G K L S F E
UniRef90_R6IC36 D E S P T A K L I V N G S Y M K E Y W G E G S N R A R N W Q R Y D L G K L S F E
UniRef90_W7BNT1 D E S P T N K V N V N G T Y M K E Y W G E G S N R A R N W Q R G G D K K L S F E
UniRef90_R9NZF9 T E S P G S D Y F Y R D G K R L K G Y R G M G S I D A M Q R Y F S E S D A V K V A
UniRef90_N1JL16 T E S P T S F V S R E G K L V K A Y R G M G S I D A M Q R Y F S E A D S I L V A
UniRef90_UPI00031F1563 D E S P T A K V K T S K G Y M K E Y W G E G S N R A R N W A R G G K K E L T F E
UniRef90_UPI000289BC60 H E S P T K K L K L G N N F V K E F W G E G S N R A R N W Q R Y D S G Y G K Q F E
UniRef90_G2MKW2 H E A P G R V I T M N G K K Y K Q Y R G M G S V G A M Q S G G G R Y E E F V P
UniRef90_S7ZP02 T E S P G E Y F V S N G Q L V K S Y R G M G S I A A M E R Y F S E N S R V L V A
UniRef90_I3WTS0 V E S P G E Y F Y I N D G I R V K Q Y R G M G S K A A F M R Y N M D E Q P L V T
UniRef90_R2Q5I2 E E S P T E K V S I N G S Y M K E Y W G E G S A R A R N W Q R Y D T G K E F V
UniRef90_S0FH51 D E S P T R K I K V G N F V K E Y W G E G S N R A R N W Q M G G D S K L G F E
UniRef90_F2EC06 T E S P G E Y F Y H E G R A V K T Y R G M G S L E A M E R Y F S E A D A V K V A
UniRef90_F2RC16 Y E S P G D L H D A Q G R A Y K E S F G M A S A R A V R N R K A L F E E G I S
UniRef90_W6LD76 S E T P G E Y F F H N G H R L K V Y R G M G S I D A M N R Y M S E N E K I Q V A
UniRef90_K2RER9 T E S P G Q Y F V R E G Q L V K A Y R G M G S I D A M E R Y F S E S D R V L V A
UniRef90_J4IC36 S E A P G E Y F Y H E G K R V K A Y R G M G S L E A M E R Y F S E S S A V K V A
UniRef90_V5A5K2 D E A P G R V I T M N G K K Y K Q Y R G M G S V G A M K S G G G R Y E D F V P
UniRef90_M7AUD4 T E A P G E Y F F S D G I R L K K Y R G M G S L D A M D R Y F S E T D K I K V A
UniRef90_C8PNY6 D E S P T N K I L V N G S Y M K E Y W G E G S S R A R N W Q R G G D S K L A F E
UniRef90_UPI000395C313 T E A P G E F F F S E G V R L K K Y R G M G S L D A M E R Y F S E G D A V K V A
UniRef90_M3B2D3 T E S P G A Y V V P D G Q L R K K T Y R G M G S I D A M E R Y F S E S G S V R V A
UniRef90_J3Q5E6 T E A P G E Y F Y N E G Q R L K K Y R G M G S L D A M E R Y F S E S G S V R V A
UniRef90_U2KPI4 D E S P T H K L I V N G N Y V K E Y W G E G S N R A R N W Q R Y D L G K M A F E
UniRef90_R6HGM6 D E S P T R V L Q L G N Y V K E Y W G E G S N R A R N W Q R G D K K K L S F E
UniRef90_I1GMN6 H E S P G A Y E Y K D G H R V K K Y R G M G S L E A M T K G S D A R Y K L K V A
UniRef90_V6K5Q1 H E S P G D L Q Q P D G R L Y K E S F G M A S A R A V D R A R K G L F E E G I S
UniRef90_T2MG64 S E A P G E Y F Y A E G V R L K K Y R G M G S L S A M E S K G S Q T R Y F K V A
UniRef90_R5GES2 D E S P T K K L K V N N V K E Y W G E G S N R A K N W Q R Y D S G S M K F E
UniRef90_C1MX96 T E A P G E Y F Y V D G V R V K K Y R G M G S L D A M K K G S D T R Y H L K V A
UniRef90_D5UEF5 H E S P G D M R D S Q G R L Y K E S F G M A S A R A V E R A R K G L Y E E G I S
UniRef90_G1XEF3
UniRef90_X4ZDA7 D E S P T K K L K V G N N F V K E F W G E G S N R A R N W Q R G G K S G L V F E
UniRef90_V2WUL4 E E A P G E Y F Y H E G N R V K A Y R G M G S L E A R N Q R Y F S E N S A V K V A
UniRef90_I4D0J9 D E S P T K K I K L G S N Y V K E Y W G E G S N R A R N W R Y F G E G D K L H F E
UniRef90_W6JUF6 Y E S P G D I F D E T G R S Y K E S F G M A S A R A V D R A R K A L Y E E G I S
UniRef90_E1RDR8 D E A P G R V T A I K G R R Y K Q Y R G M G S L G V M E S G Q S S D R Y F F V P
UniRef90_W2C1W9 D E S P T G T L R I R G N N Y V K E Y W G E G S N R A K N W Q M G G S E A L K F E
UniRef90_E0I618 D E S P T K K L K V G N N F V K E F W G E G S N R A R N W Q R G G K S G L V F E
UniRef90_UPI000378E16C K E S P S K I V T L N G S Y M K E Y W G E G S A R A R N W Q M G G D K K M S F V
UniRef90_X1XQX3 D E C E G N I V E Q G E Q F M L F Y G M S S E S A M K R H V G G V A Q Y R A F
UniRef90_R5QTX5 D E S P T N K V S I N G Q Y M K E Y W G E G S A R A R N W Q M G G D S K L S F E
UniRef90_H6LF34 D E S P T N K V N I R G N Y M K E Y W G E G S E R A K N W Q R G G S K L S F E
UniRef90_F6Y0F8 T E S P G D L I K R D G K Y K L F Y G M S D L A M K K Y A G G V A D Y R A S
UniRef90_J0XF50 H E S P G D L I H D A D G R A Y K E S F G M A S K R A V D R A R K A L F E E G I S
UniRef90_E7MPW4 E E A P G E K L V V N G R T V K E Y W G E G S A R A R N W A R G Q G K K L S F E
UniRef90_A0A059C7C8 A E A P G A Y Y C S D G N R L K K Y R G M G S L E A M T R Y L G D T S K L K I A
UniRef90_UPI0003C11C7F E E S P G E T E L Y Q G R S Y K S Y R G M G S L A A M E K G S K D R Y
UniRef90_U7DAC0 D E S P T E K L S I R G Q R Y K A Y W G E G S N R A R N W Q R Y S D G K M K F E
UniRef90_A3DD87 D E S P T K K V K S G N G Y V K E Y W G E G S N R A R N W Q R Y E S T N L K F E
UniRef90_C5RAX2 Y E T P G D V L T D E G L Q F K A Y R G M G S I A A M Q N G S K D R Y F Q M V P
UniRef90_Q8I2U5 E E S C S E Y Y F E N N V R L K I Y R G M G S M E A M Y N K T G F N S D E I K V S
UniRef90_A6W7D0 H E S P G D L V D A D G R E Y K E S F G M A S A R A V A A R T G R D F E E G I S
UniRef90_F2V4N5 A E A P G E L I F V N G K Q Y K S Y R G M G S L G A M R G R A A Q R
UniRef90_E5SID0 L E A P G D Y I W S D G I R L K K Y R G M G S E S Q D R Y F Q K D C D K V R V A
UniRef90_L0AY93 K E S P G E V V V E N N V T Y K T Y Y G N A S A Q C K Q S N S R I A
UniRef90_UPI000376D638 Y E S P G D L K D D G G R L Y K D S F G M A S A R A V A A R R K A L Y E E G I S
UniRef90_S2Z6L2 F E S P G D L V D S E G N W Y K E S F G M A S S R A V K N R N A T T D P F E R A
UniRef90_UPI0003651FC0 Y E S P G D M Q D E H G N A Y K E S F G M A S K R A V T A R T R S D F E E G I S
UniRef90_X1J5J5 M E S P G E S V I
UniRef90_Q4UCL4 K E A P G E Y Y F N N G V R M K S Y R G M G S K D A I N R Y H L V D D Q K L I S
UniRef90_S9WIH0 T E C A G E V I E R N G Q R K K L F Y R G M S S E T A M K K H A G G V A E Y R A S
UniRef90_D3R253 D E S P T R R L V N G T Y V K E Y W G E G S N R A R N W Q R Y H E G D M V F E
UniRef90_UPI0002377A24 E E A P G E V L L Y Q G R S Y K G Y R G M G S I D A M Q Q G S A D R Y F Q E V P
UniRef90_Q4YRV8 E E A P G E Y Y F H N G R V K T Y R G M G S L G A M R A G T R R R Y F A E N
UniRef90_B3T647 D E T P G T T I T K N G K R F K I Y R G M A S L A A S M G R K T D D L N D Y V A
UniRef90_I0H944 T E S P A P L V K V R G Q A L K E Y W G E G S A R A R N A R Y G Q G T E L H F E
UniRef90_UPI000466DB1F Y E S P G D L V N R D G A A Y K E S F G M A S K R A V A A R T G H H D E E G I S
UniRef90_W8ABI1 Y E S P G D L R D R D G N R Y K E S F G M A S K R A V A A R T A T D F E E G I S
UniRef90_UPI000273F5A7 S E S G G E L T E K N G K Y K L F Y G M S S E M A M K K Y Y
UniRef90_M3UGR9 Y E S P G D L H T E T D T S G E Y K V S F G M A S K R A V A A R S A T D F E E G I S
UniRef90_W4XR11 T E A P G E Y F F S D G V R L K K Y R G M G S L D A M E K N Q S S A K R Y F S R
UniRef90_W9G8V0 L E S P G D Y T D N D G R Q Y K E S F G M A S S R A V R N R T A T D T E Y D R S
UniRef90_J0DPR4 T E A P G E Y F W P G V R L K K Y R G M G S V D A M E A F S S R S D S I K V A
UniRef90_U7KZ55 F E S P G D L H D A D G T F Y K E S F G M A S R R A V R G R N R E M F E E G I S

UniRef90_F6USH9
UniRef90_U5NE33
UniRef90_I0HZ71
UniRef90_T0S952
UniRef90_UPI0004671C62
UniRef90_C6A0H4
UniRef90_D7FXH2
UniRef90_Q6F1U6
UniRef90_S2K2C7
UniRef90_D5T0Z6
UniRef90_R6IEQ5
UniRef90_L1JLMO
UniRef90_UPI00036705C3
UniRef90_R6SNE2
UniRef90_N6T9C7
UniRef90_G8QVF1
UniRef90_B4MJ75
UniRef90_M2CDV3
UniRef90_R6IC36
UniRef90_W7BNT1
UniRef90_R9NZF9
UniRef90_N1JL16
UniRef90_UPI00031F1563
UniRef90_UPI000289BC60
UniRef90_G2MKW2
UniRef90_S7ZP02
UniRef90_I3WTS0
UniRef90_R2Q5I2
UniRef90_S0FH51
UniRef90_F2EC06
UniRef90_F2RC16
UniRef90_W6LD76
UniRef90_K2RER9
UniRef90_J4IC36
UniRef90_V5A5K2
UniRef90_M7AUD4
UniRef90_C8PNY6
UniRef90_UPI000395C313
UniRef90_M3B2D3
UniRef90_J3Q5E6
UniRef90_U2KPI4
UniRef90_R6HGM6
UniRef90_I1GMN6
UniRef90_V6K5Q1
UniRef90_T2MG64
UniRef90_R5GES2
UniRef90_C1MX96
UniRef90_D5UEF5
UniRef90_G1XEF3
UniRef90_X4ZDA7
UniRef90_V2WUL4
UniRef90_I4D0J9
UniRef90_W6JUF6
UniRef90_E1RDR8
UniRef90_W2C1W9
UniRef90_E0I618
UniRef90_UPI000378E16C
UniRef90_X1XQX3
UniRef90_R5QTX5
UniRef90_H6LF34
UniRef90_F6Y0F8
UniRef90_J0XF50
UniRef90_E7MPW4
UniRef90_A0A059C7C8
UniRef90_UPI0003C11C7F
UniRef90_U7DAC0
UniRef90_A3DD87
UniRef90_C5RAX2
UniRef90_Q8I2U5
UniRef90_A6W7D0
UniRef90_F2V4N5
UniRef90_E5SID0
UniRef90_L0AY93
UniRef90_UPI000376D638
UniRef90_S2Z6L2
UniRef90_UPI0003651FC0
UniRef90_X1J5J5
UniRef90_Q4UCL4
UniRef90_S9WIH0
UniRef90_D3R253
UniRef90_UPI0002377A24
UniRef90_Q4YRV8
UniRef90_B3T647
UniRef90_I0H944
UniRef90_UPI000466DB1F
UniRef90_W8ABI1
UniRef90_UPI000273F5A7
UniRef90_M3UGR9
UniRef90_W4XR11
UniRef90_W9G8V0
UniRef90_J0DPR4
UniRef90_U7KZ55

290 300 310 320

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

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

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

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

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

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

UniRef90_F6USH9
UniRef90_U5NE33
UniRef90_I0HZ71
UniRef90_T0S952
UniRef90_UPI0004671C62
UniRef90_C6A0H4
UniRef90_D7FXH2
UniRef90_Q6F1U6
UniRef90_S2K2C7
UniRef90_D5T0Z6
UniRef90_R6IEQ5
UniRef90_L1JLM0
UniRef90_UPI00036705C3
UniRef90_R6SNE2
UniRef90_N6T9C7
UniRef90_G8QVF1
UniRef90_B4MJ75
UniRef90_M2CDV3
UniRef90_R6IC36
UniRef90_W7BNT1
UniRef90_R9NZF9
UniRef90_N1JLI6
UniRef90_UPI00031F1563
UniRef90_UPI000289BC60
UniRef90_G2MKW2
UniRef90_S7ZP02
UniRef90_I3WTS0
UniRef90_R2Q5I2
UniRef90_S0FH51
UniRef90_F2EC06
UniRef90_F2RCI6
UniRef90_W6LD76
UniRef90_K2RER9
UniRef90_J4IC36
UniRef90_V5A5K2
UniRef90_M7AUD4
UniRef90_C8PNY6
UniRef90_UPI000395C313
UniRef90_M3B2D3
UniRef90_J3Q5E6
UniRef90_U2KPI4
UniRef90_R6HGM6
UniRef90_I1GMN6
UniRef90_V6K5Q1
UniRef90_T2MG64
UniRef90_R5GES2
UniRef90_C1MX96
UniRef90_D5UEF5
UniRef90_G1XEF3
UniRef90_X4ZDA7
UniRef90_V2WUL4
UniRef90_I4D0J9
UniRef90_W6JUF6
UniRef90_E1RDR8
UniRef90_W2C1W9
UniRef90_E0I618
UniRef90_UPI000378E16C
UniRef90_X1XQX3
UniRef90_R5QTX5
UniRef90_H6LF34
UniRef90_F6Y0F8
UniRef90_J0XF50
UniRef90_E7MPW4
UniRef90_A0A059C7C8
UniRef90_UPI0003C11C7F
UniRef90_U7DAC0
UniRef90_A3DD87
UniRef90_C5RAX2
UniRef90_Q8I2U5
UniRef90_A6W7D0
UniRef90_F2V4N5
UniRef90_E5SID0
UniRef90_L0AY93
UniRef90_UPI000376D638
UniRef90_S2Z6L2
UniRef90_UPI0003651FC0
UniRef90_X1J5J5
UniRef90_Q4UCL4
UniRef90_S9WIH0
UniRef90_D3R253
UniRef90_UPI0002377A24
UniRef90_Q4VRV8
UniRef90_B3T647
UniRef90_I0H944
UniRef90_UPI000466DB1F
UniRef90_W8ABI1
UniRef90_UPI000273F5A7
UniRef90_M3UGR9
UniRef90_W4XR11
UniRef90_W9G8V0
UniRef90_J0DPR4
UniRef90_U7KZ55

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

UniRef90_I0KWQ9
UniRef90_UPI00036EDBA1
UniRef90_UPI0002E2564B
UniRef90_V9L553
UniRef90_G7PS42
UniRef90_V8D140
UniRef90_D7GCB9
UniRef90_UPI0003686315
UniRef90_C4LGN3
UniRef90_I6WQP5
UniRef90_Q0S0C9
UniRef90_UPI000367E43E
UniRef90_G3S0D3
UniRef90_UPI00039A7A13
UniRef90_UPI00040833F8
UniRef90_S3WX13
UniRef90_M5TRK1
UniRef90_A0A01777X7
UniRef90_H2YEF5
UniRef90_A9BB47
UniRef90_A0A022KZH3
UniRef90_D1BG19
UniRef90_A1S1X7
UniRef90_Z5X867
UniRef90_K9V7V2
UniRef90_M5A0F4
UniRef90_D7HAM2
UniRef90_J9H5B0
UniRef90_W4V1N0
UniRef90_F7UPM2
UniRef90_Q31M58
UniRef90_UPI000255E79E
UniRef90_D0L8Z0
UniRef90_UPI0003B43CD1
UniRef90_N0E0A0
UniRef90_C7NEZ3
UniRef90_V4J1L8
UniRef90_UPI0003B5F21A
UniRef90_D5UQF3
UniRef90_F5Z3N3
UniRef90_F5X1N9
UniRef90_UPI0003B35D61
UniRef90_I6XZE6
UniRef90_Q8DGX2
UniRef90_K6W4X1
UniRef90_E8NDT7
UniRef90_T1CB93
UniRef90_K9RT79
UniRef90_UPI0002629DFF
UniRef90_UPI000255F1F4
UniRef90_D2PSX6
UniRef90_K9V1GQ7
UniRef90_UPI0003B58026
UniRef90_C7DI15
UniRef90_A2BX48
UniRef90_W6JT81
UniRef90_T5KHM2
UniRef90_A9WN10
UniRef90_A3YY46
UniRef90_H0E0G6
UniRef90_UPI000369204F
UniRef90_B3DXS1
UniRef90_K9W9K7
UniRef90_C5BZW7
UniRef90_A0LRT1
UniRef90_D6ZUK8
UniRef90_C7R190
UniRef90_Q5Z1F0
UniRef90_UPI00036A4C71
UniRef90_W7QGC4
UniRef90_UPI00037CB466
UniRef90_UPI00031B8777
UniRef90_E6KUB7
UniRef90_UPI000255615F
UniRef90_F6E1H2
UniRef90_K9TDF2
UniRef90_UPI000237A5A2
UniRef90_UPI0003447477
UniRef90_U1LPE0
UniRef90_H6N558
UniRef90_K8B8Q8
UniRef90_UPI0003B5079B
UniRef90_W4TY63
UniRef90_ROMIE2
UniRef90_D7PDZ5
UniRef90_G5B885
UniRef90_H5X7A5
UniRef90_G8SHB6
UniRef90_UPI000473DE9F
UniRef90_UPI0003613C9C
UniRef90_X4FS86
UniRef90_X7YB95

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

UniRef90_I0KWQ9 P A D A D P L L S A G R R R L A P V V D A D G R L G V L T R Q G A L R A T L Y T 50 60 70 80
UniRef90_UPI00036EDBA1 P R H A F E R L Y H A R R K V A P V V D H E G V L V G V L S R Q G A L R A T L Y
UniRef90_UPI0002E2564B A P V S R D G E L L G V L T R T G A L R S T L Y R

UniRef90_V9L553 K N Q D Y P L
UniRef90_G7PS42 P V G T P P R E I F E L L E G A V L T E P D G S L G V L T R V G A L R A G I Y Q
UniRef90_V8D140 P L M A A P M D S V M S P E T A I A F G K L G G L G V L N L E G L W T R Y D D P
UniRef90_D7GCB9 P L G T E P R E H E H G E P L A V G V D G H G R L G V L T Q V G A L R A S T Y D
UniRef90_UPI0003686315 P Q E A F A C L S E A S R K L A P V V S K D G E L K G I M T R K A A L R A T L Y
UniRef90_C4LGN3 P I V A A P M D S V M S P A T A I E M G R L G G L G V L N L E G L W T R Y E D P
UniRef90_I6WQP5 A V I V H P D G T L G V L T R T G A I R D G T I Y Q
UniRef90_Q0S0C9 P A N L E P Q E A F S R L R D A P V V D S D G C L G L M T R T S A L R A T V Y T
UniRef90_UPI000367E43E M V A P A G M T L K E A N E L L Q P S K K G K L P M V N Y H H K K N R D Y T L

UniRef90_UPI00039A7A13 L R A D I Y T
UniRef90_UPI00040833F8 P V D T D P R L V E A N A E L A V L V D D G S G R L G V L T R T G A L R A G I Y R
UniRef90_S3WX13 P D T S T P Q D V F D L L E A E I A V D G S G A L G V M S R T G A L R A G I Y S
UniRef90_M5TRK1 P V G A E K I L T E K R V E K L L I D E E R K L T G L I T I R D I D M M K R F
UniRef90_A0A0177X7 P A G T P N R D A F L L M E E A R V D A E G R L H G I L T R E D A V R L E L L R
UniRef90_H2YEF0 P I V D A D D R L V S L I A R T D L K K N R E F P L
UniRef90_A9BB47 P I I A S A M D G V V D V E M A T A L S S L G A L G V L N L E G I Q T R Y E N F
UniRef90_A0A022KZH3 P A V L H A R L A A T H H D A L V V E A D G T L G V L T A T G V L R S T I Y T
UniRef90_D1BG19 A P V V R D G R L V G V L T R T G A L R S S I Y D
UniRef90_A1SJX7 P A D A A A F D A L D G S H A A L A V A V D E A V G V L T R T G A L R A T L Y T
UniRef90_Z5X867 P I H T E P R Q V F E L L E H A P V V D A D G A L A G V L T R I G A L R A G I Y T
UniRef90_K9V7V2 P L I A S A M D G V V D V R M A V R L S E L G A L G V L N L E G I Q T R Y D N P
UniRef90_M5A0F4 P D V D A E E L G K R R L H V A P V V G D D E R L L G V I T R K G A L R S T I Y
UniRef90_D7HAM2 P V I A A N M D S V G S F A M A K A L A E H G V M T A V H K H Y V S D W A E F
UniRef90_J9H5B0 P K A A F E F L T E K R R R L A P V I D K A G K L V G I T R G A L R A T M Y Q

UniRef90_W4VNBQ0 M H R F E P K T R K N F
UniRef90_F7UPM2 P I I A S A M D G V V D S R M A V L L S E L G A L G V V N L E G I Q T R Y E D P
UniRef90_Q31M58 P L L A S A M D G V V D V K M A V R L S Q L G A L G V I N L E G I Q T R Y E D P
UniRef90_UPI000255E79E P R A A F D Q L E Q T R A G M A P V V V D G R L A G V L T R T G I V R S G I Y T
UniRef90_D0L8Z0 P V D T P G R E V F D L A L A V L H P D G T L G V L T R I G A L R H G I Y R
UniRef90_UPI0003B43CD1 E E G V D L R E A F D R L E G A P V V A G G L L R G I V T R T G L R S A I Y A
UniRef90_N0E0A0 P V I A A P M D S V M S P Q S A I A F G Q H G G L P V L D L E G L W T R Y P D P
UniRef90_C7NEZ3 P V M A A P M D S V M S P Q T A I E F G R L G G L P V L D L E G L W T R H E D P
UniRef90_V4JLJ8

UniRef90_UPI0003B5F21A P V L A A P M D S V V S P D T A I E M G R L G G L G V L D L E G L W T R Y E D P
UniRef90_D5UQF3 P A G T D P R T V F D L L D G A V L V E T D G R L G V L T R T G T V R A G I Y T
UniRef90_F5Z3N3 P I G T E P R K V F D L L E H A P V I T N S D G R L G V L T R T G S I R A G I Y T
UniRef90_F5XNW9 P L I A A P M D S V M S P A T A I E M G R L G G L G V L N L E G L W T R Y E N P
UniRef90_UPI0003B35D61 P F L A A P M D S V V S P Q T A I M M G Q L G G L G V L D L E G L W T R Y D D P
UniRef90_I6XZE6 P K Q V F D S L A E R H Q K V A L A V D P E G L L V G I M T S K G A L R S A L Y
UniRef90_Q8DYGX2 P I I A S A M D G V V D V T M A V K L S Q M G A L G V L N L E G I Q T R Y E D F
UniRef90_K6W4X1 P F V A A P M D S V M S P R T A V A F E G E A G G L G V L D L E G L W T R Y E D P
UniRef90_E8NDT7 P V L G A P M D S V V S P Q T A I E L G R L G G L G V L D L E G L W T R Y D D P
UniRef90_T1CB93 L V V N D G F E L R G L I T V K D I Q K A R D N P H

UniRef90_K9RT79 P I I A S A M D G V V D V A M A V K L S Q L G A L G V L N L E G I Q T R Y P D P
UniRef90_UPI0002629DFF P I F A A P M D S F M S P E M A I E L G R H G G L G V L D L E G L W T R Y E D P
UniRef90_UPI000255F1F4 P V I G A P M D S V M S P D T A I E L G K L G G M G V L N L E G L W T R Y T N Y
UniRef90_D2PSX6 P I L A A P M D S V M S P A T A I A I G K A G G L G V L N L E G L W T R Y E N P
UniRef90_K9VGG7 P I V A S A M D G V V D V R M A I L L S E L G A M G V L N L E G I Q T R Y H E F
UniRef90_UPI0003B58026 P V I G A P M D S V T S P E T A I E M G R L G A L G V L D L E G L W T R Y E D P
UniRef90_C7DI15 E G I T E A E A I Q H R I E K L P V V D S K G N K G L I T Y K D V I T L R D T Y
UniRef90_A2BX48 P I I A S A M D S V V D V I N S A V D L S K L G A I G V L N M E G I Q T R Y E N P
UniRef90_W6JT81 P V L A A P M D S V M S P A S A I A F G Q A G L P V L D L E G L W T R Y E D P
UniRef90_T5KHM2

UniRef90_A9WN10 P V I A A P M D S V M S P A T A I A L G G L G G L G V L D L E G L W T R Y E D P
UniRef90_A3YY46 P I I A S A M D G V V D V S V A V E L S R L G A L G V L N L E G V Q C R Y D D P
UniRef90_H0E0G6 P L V A S P M D A S I S P A T A K A V G R L G G L A V L D L E G L W T R H E D A
UniRef90_UPI000369204F

UniRef90_B3DXS1 P I L A S A M D G V T D P K F C T E M S R L G G I G V I N L E G I Q T R Y K C D
UniRef90_K9W9K7 P I I A S A M D G V V D V R M A V L L S Q L G A L G V L N L E G I Q T R Y A D P
UniRef90_C5BZW7 P L L A A P M D S V M S P A T A I R L G E L G G I G V L D L E G V W T R Y E D P
UniRef90_A0LRT1 P I L S A M D S V A S P Q T V V E I G R L G G L G V L D L E G L W T R Y E D P
UniRef90_D6ZUK8 P V I G A P M D S V T S P A T A I A M G K M G A L G V L D L E G L W T R Y E D P
UniRef90_C7R190 P I M A A P M D S V M S P D T A I A L G K L G G L G V L D L E G L W T R Y E D P
UniRef90_Q5Z1F0 P L V A H P T D A L V S P R S A V E L G R L G G L G V I N G E G L W A R H A D V
UniRef90_UPI00036A4C71 P F L A A P M D S V M S P A T A I A F G Q L G G L G V L D L E G L W T R Y E N P
UniRef90_W7QGC4

UniRef90_UPI00037CB466 P R E V F D L L L E S R H D D I A I L V H P D G T L G V L T R R A A L R A A I Y R
UniRef90_UPI00031B8777 A A S R L S V A P V L R G R A L E G V L T Q K G A V R S T L Y E
UniRef90_E6KUB7 P L M A A P M D S V M S P E T A I A F G R L G G I G V L D L D G L W T R Y E D P
UniRef90_UPI000255615F R E N A S R E E V Q A L M Q K N R I V D A S F H L K G M I T V K Q K A E R T P N
UniRef90_F6EIH2 P L L A H P S D A I T S P A F A I E L S R L G G L A V L N A E G L I Q T R H R D V
UniRef90_K9TDF2 P I I A S A M D G V V D V R M A V L L S Q L G A M G V L N L E G I Q T R Y E D P
UniRef90_UPI000237A5A2 P L V T H P T D A I V S P A T A V R I G E L G G L G V L N A E G L W A R H E N V
UniRef90_UPI0003447477 P A G A N E I L Q R S K K G K L P I V N E D D E L V A I A R T D L K K N R D Y
UniRef90_U1LPE0 P V L G A P T D S V M S P A T A I A L G R A G G L G V L N L E G V W T R Y D D P
UniRef90_H6N558 P V H T P P F D A L T D L R Q E L A V L T H P D S G V L T R V G A L R H G V Y H
UniRef90_K8B8Q8 R V V L T K M H E K R V E K A L V V D D S F H L R G M I T V K Q K A E R K P N
UniRef90_UPI0003B5079B P V I G A P M D S V M S P A T A I A L G K L G G L G V L N L E G L W T R Y E E P
UniRef90_W4TY63

UniRef90_ROMIE2 P V V P A N M Q T I L D E N V A E Q L A K G G Y E Y I M H R F D E A G R H P F
UniRef90_D7PDZ5 P I L N H P T D A L G S P E S A I A M G K L G A L G V L N G E G L W A R H E L V
UniRef90_G5B885 P V V L S P S H T V G N V L J E A K I R H G F S G I P I R E T G I M S C K L A
UniRef90_H5X7A5 P L V T H P T D A V V S P G T A V S I G K L G G L G V L N A E G L W A R H A D A
UniRef90_G8SHB6 C V A H P S D A T Q S P D S V I A L G R L G G L G V L N A E G L W T R Y E D P
UniRef90_UPI000473DE9F

UniRef90_UPI0003613C9C R V V L A K M H E K R V E K A L V V D D N F H L L G M I T K D F Q K A E R K P N
UniRef90_X4FS86 Q E G V S A S A A R H K I E K L P V V D G R G R L T G L I T V K D K T E Q H P L
UniRef90_X7YB95

UniRef90_I0KWQ9 P A V D D R G R L R V A A A V G I N G D V T G K A A A L L E A G V D T L V V
UniRef90_UPI00036EDBA1 R P A D A K G Q L R V A A A V G I N G D V A G K A K S L L D A G V D T L V V
UniRef90_UPI0002E2564B P A L D A N G S L R V A A A V G I N G D V E A K A A E L L D A G V D V L V V
UniRef90_V9L553
UniRef90_G7PS42 A S K D S H K Q L L L C G A A V G T C E D D K Y H L D L L T Q A G I D V I V L
UniRef90_V8D140 P N V D G A G R L R V A A A V G I N G D V T A R A T A L V E A G A N D L L V V
UniRef90_D7GCB9 T P R A T R R M Q E M Y S E P I K P E L I A E R L A Q V R E A G A N D L D F F V I
UniRef90_UPI0003686315 P A V D A R G R L R L G A A V G V N G D V A K A K A V L D A G V D V L V V
UniRef90_C4LGN3 Q P A D K N N A L R V G A A I G I N G D A T G R A T A L V E A G A D V L V V
UniRef90_I6WQP5 S P A Y E Q R L Q Q L Y A A E P I K A E L I E A R L A E I R A A G A G V D F F V I
UniRef90_Q0S0C9 P A V D G N G K L R V A A A V G V N G D V A K A R A L V D A G A D L L V V
UniRef90_UPI000367E43E P A V D A Q G R L R V G A A I G I N G D I E Q R V R V L D A G A D V L V V
UniRef90_G3S0D3 A S K D S H K Q L L C R A A V G T R E D D K Y C L D L L T W V G V N V I V L
UniRef90_UPI00039A7A13 P A V D A Q Q K L R V A A A V G I N G D V A A K A E S L L A A G I D T L V V
UniRef90_UPI00040833F8 P N T D A S G R L R V A A A V G I N G D V V G R A R A L L D A G A D L L V V
UniRef90_S3WX13 P A L D P Q G R L M V A V A L G I S G D S A G R A R A L L D A G A D V L V M
UniRef90_M5TRK1 P R A C K D P Q G R L R V G A A I G V G D F E R A E K L I A Q G V D L L V V
UniRef90_A0A01777X7 P S L D A H G D L M V A A A V G I S S Q A G A A A R L L E M G V S A L V L
UniRef90_H2YEF0 A S K D E R K Q L L C G A A I G I S T R E E D K H R L E L L V E A G V D A V I L V G
UniRef90_A9BB47 V P L M Q D I Y S Q P I Q A V S A T P Q A A I K F K E I L E A K T D L F F L Q A
UniRef90_A0A022KZH3 P A T D D Q D R L R T A V A V G I N A D V A T R V Q D L L D A E V D V I V L
UniRef90_D1BG19 P A L D G S G R L R V A A A V G I N G D V A A K T E E L L A A G V D V L V V
UniRef90_A1SJX7 P A V D A R G G L R I A A A V G V N G D V A R T A G E L L E A G V D L V V
UniRef90_Z5X867 P A V D A G G R L R I A A A V G I N G D V A A K A Q A L A E A G A D V D V L V
UniRef90_K9V7V2 E P I L D R I M Q E L Y A A E P I K P E L I E L R I Q E I A K A G A D M I F I Q A
UniRef90_M5A0F4 K P A D A D G R L M V G V A V G I N G E P G Q R A E R L A W M G A D V L V T
UniRef90_D7HAM2 V K A D K A T L N N V M V S T G T S E A D F G K T K D V M A L S D E L I F I C
UniRef90_J9H5B0 P A I D A N G K L K V A A A V G I N G D V A G K A K A L L A A G A D L L V V
UniRef90_W4VNQ0 I H L M Q Q K N L J A S I S V G V K E E E Y T F I E E L A S E N L I P E Y I T I
UniRef90_F7UPM2 N P E L I T K R I Q E I Q A A G T P V G A S K Y A S T V A E A G A D L L F I Q A
UniRef90_Q31M58 E P I L D R I S Q G G I A A V S A T P A G A A K F G P V V E A G A D L F F I Q A
UniRef90_UPI000255E79E P A L D A Q G R L R I G A A V G I N G D V A G R A T E L L G A G A D V L V V
UniRef90_D0L8Z0 P N V D A A D K L R I A A A V G I N G D V A G R A R S E L L V E A G A D L L V V
UniRef90_UPI0003B43CD1 P A L D A D G R L C V G A A V G I N G D V P G K A A E L L D S G A D V L V V
UniRef90_N0E0A0 Q P R A T A R M Q E I Y R E E I Q P E L I V E R L R Q V R D A G A G V D M F V I
UniRef90_C7NEZ3 P D R A R A T L R E A Y R A P I R P E L I A A R L Q Q L R D A G A G V D L F V I
UniRef90_V4JL8 R L V V A A A V S P F D V E R A K L L D R Y V D A V V T
UniRef90_UPI0003B5F21A L P A L Q E R M R E L Y A A P V R P E L I T E R L R Q V R D A G A G V D L F V I
UniRef90_D5UQF3 P A V D A N G G L R I A A A V G I N G D V A A K A R A L A E A G A D V L V V
UniRef90_F5Z3N3 P A T D A A G R L R I G A A V G I T G E V T A R A A A L L A A G V D V L V I
UniRef90_F5XNW9 E P L L E E I A A I E D P G A A T R R M Q E I Y A E P I K E E A S G V D F F V I
UniRef90_UPI0003B35D61 E P V L A E I R N R A A G V T V A G A L S P Q R T Q E L V A A G V D L F V I R G
UniRef90_I6XZE6 T P A D E Q G R L R T G V A I G I N G D V T A K V R A V L A A Q A D V L V V
UniRef90_Q8DGX2 V P L M Q Q L Y A Q P I Q A V S L T P A G A S R F G E V V A A G A D L L F V Q A
UniRef90_K6W4X1 S E L L A E I A E Q L S E E A A T S R M Q E I E R L H R D A G A G V D I F V I
UniRef90_E8NDT7 D A D A T R R M Q Q L Y S E P I K P E L V R D R L L A E V R A A G A G V D L F V I
UniRef90_T1CB93 A A K D A H E R L R V G A A V G V G E T E Q R V A A L A E A G V D V V V
UniRef90_K9RT79 N P I L D Q I A A V D I A A V S A T P A G A S K F G Q V V A A G A D L F F I Q A
UniRef90_UPI0002629DFF T A A Y E R I A T R E V Y A E G K S E L I R D R L Q Q L R D A G A G V D L F F I
UniRef90_UPI000255F1F4 S P S N T R R L Q E I Y S Q P I Q P E L I T E R L A Q I R E A G A G V D M F V I
UniRef90_D2PSX6 A S E Q A T T R L Q E I Y S A P I K P E T K Q F A K H V D A G V D L F V I R G
UniRef90_K9VQQ7 V S L M Q Q L Y A E P I K A A V S G T P A A A S K Y R A V A E S G A D L F V V Q A
UniRef90_UPI0003B58026 R P L L D D H E I R K A G V T V A G S L S P Q R V Q E V V E A G V D L F V I R G
UniRef90_C7DI15 K N A L R D E E G R L R V A A A V S P F D L E R A K V L A K H A D A L L V
UniRef90_A2BX48 K E I L S Q I K G D G I A A L S G T P Q A A I K F K E T L V K S K I D L F L Q G
UniRef90_W6JT81 E P L L A E I A T Q E I Y A E D I K P D L I A R L K E I R D A G V H V D I F V I
UniRef90_T5KHM2 R L A V A A A I G I N G D V A A K A K A L A A A G A D L V V
UniRef90_A9WN10 E A V L A E I A E L E G T A N S P A A T R R L Q A L Y Q A P V Q A D L I T S
UniRef90_A3YY46 N P I L L D R I A E V G K E A S A T P A A A L R F G Q A V A E A G A D L F F V Q A
UniRef90_H0E0G6 D A Q L E A L A G L E G P A A I A R L R E L H A A P V V P E L I E Q
UniRef90_UPI000369204F Q N K V T E F L Q K I Y S A P V Q E K L I A L R I E E L K R A N A V V Q S T V S
UniRef90_B3DXS1 V P V L E R I E Q G G I A A V S A T P V G A M K Y G E I V K A G A D L F F V Q G
UniRef90_K9W9K7 E P L L E E I A N L P A G A D A T R G A L S P Q R T Q Q L W R A V A G V D L F V I
UniRef90_C5BZW7 E P L Y A E D R I R E I Y A E P I K E D I K E R I R Q I R E A G A G V D I F V I
UniRef90_A0LRT1 K P E L I T Q R L H E I R A A G V T Q R T Q Q F Y S T V V D A G V D L F V I R G
UniRef90_D6ZUK8 T S R D I R N A G V T A G A L S P A R T Q E F S Q V I D A G V D L F V I R G
UniRef90_C7R190 E T K I E Q L T E L A A Q G R F D R A V A L L Q Q L H A A Q A G I D L L V V
UniRef90_Q5Z1F0 E P K A R L Q E I R D A G V V V A G A L S P Q R T Q E V L A A G A D V F V I R G
UniRef90_UPI00036A4C71 P S V D Q A G R L R V A A A V G I N G D V A G K A Q A L A D A G A D A L V I
UniRef90_UPI00037CB466 P A L D K Q G R L Q V G A A V G I N G D V A A K A A A L L D T G I D V L V V
UniRef90_UPI00031B8777 T P I L L E I A R L G Q E E S I A T L Q R V A R L R Q L R E A G A G V D L F I I
UniRef90_E6KUB7 A C K D A M G R L R C G A A V G A G A G N E E R V Q A L V D A G A D V I L I
UniRef90_UPI000255615F D S K L E Q L T E R A A G K D G P A E A S P Q K A R E L I L V Q A G I D L L V I
UniRef90_F6EIH2 E P I H Q I K S Q G G I A A V S A T P A G A A Q Y G A V A L V G A D L F F V Q G
UniRef90_K9TDF2 E E K L F E V V R A A E E N S D P E A A I R L L Q Q L H A A A A G V E L L V V
UniRef90_UPI000237A5A2 P S K D A K K Q L L C G A A I G T H E D D K Y R L D L A Q A G V D V V L V Q
UniRef90_UPI0003447477 E P L L A E I A G L R I A D A T S R M R E R D R I A Q I R D A G V V A S L S P
UniRef90_U1LPE0 P N V D A D G R L R V A A A V G I N G D V A A K A T D L V E A G A D L L V I
UniRef90_H6N558 A C K D E Q G R L R V G A A V G A G A G N E E R V D A L V A A G V D V L V
UniRef90_K8B8Q8 E P V F E E I A A L Q A Q E I S P Q R T Q E F Y Q T V L D A G V D M F V I R G
UniRef90_UPI0003B5079B E T V V N A G A D F F V I R G
UniRef90_W4TY63 I K R M H N Q G L T A S I S V G V K D Y E Y D F V S Q L K T D A P E Y I T I
UniRef90_ROMIE2 E D K I I A E K N D P S A A I R R L Q E L H R A P A L I K A G A E I L V V H G
UniRef90_D7PDZ5 G I V I S S D I D F L A E K D H T I L L S E K N R D Y P L A S K
UniRef90_G5B885 D A A L G R I A D A A K A G A E W S E R S D L L V E A I A G V E I L V V
UniRef90_H5X7A5 S K A D A T K R L Q E V Y A E P I K P E L I E R V R Q I R E L D A G V D L L V I
UniRef90_G8SHB6
UniRef90_UPI000473DE9F
UniRef90_UPI0003613C9C S C K D E Q G R L R V G A A V G A G A G N E E R V D A L V A A G V D V L L I
UniRef90_X4FS86 A T K D S D G R L L V G A A V G V G G D A W V R A M M L V D A G V D V L V V
UniRef90_X7YB95

UniRef90_I0KWQ9 D T A H G H Q E R M I S A L R A V R K L D P G V P V A A G N V V T A E G V R D L
UniRef90_UPI00036EDBA1 D T A H G H Q E R M I S A L R A V R S G V H P Q G V P V V A G N V V T A E G V R D L
UniRef90_UPI0002E2564B D T A H G H Q R K M I D A L R A V R G V V N G E L P Q V I V A G N V V T A A D G V R D L
UniRef90_V9L553 V I M I H C I K Q R Y P E L Q V I V A G N V V T A A D Q A K N L
UniRef90_G7PS42 D S S Q G N S V Y Q I T M V H D I K Q K Y P H L Q V I G G N T V T A A G Q T V K N L
UniRef90_V8D140 D T A H G H Q E R M I A V L N G Q L I A D A D L G V P P L C A G N V V T A A G V R D L
UniRef90_D7GCB9 R G T A V S A E H V A E P L N L K K F I Y N D R L G V P V I V A G N V V T A S Y Q T A L H L
UniRef90_UPI0003686315 D T A H G H Q E K M L T A L R A V R S V S P Q V V P V V A G N V V T A Q G T R E L L
UniRef90_C4LGN3 D T A H G H Q E K M I T S L G A V R A D A D L G V P P I V A G N V V T A D G V E D L
UniRef90_I6WQP5 R G T T V S A E H V D E A E N K E F I Y R F D V P V I V A G N V V T A Y R M A L H L
UniRef90_Q0S0C9 D T A H G H Q Q K M I D V L G A L K K A D L G V V P V L V A G N V V S A A G T R D L
UniRef90_UPI000367E43E D T A H G H Q Q D S M I S A V K R V R A M D P G H P V I V A G N V V T A E G V R D L
UniRef90_G3S0D3 D S S Q G N S V Y Q I T M V H Y I K Q K Y P H L Q V I G R N V V T A A Q A K N L
UniRef90_UPI00039A7A13 D T A H G H Q E K M I A A L K A V R S V S P A V P V V A G N V V T A E G T R D L
UniRef90_UPI00040833F8 D T A H G H Q E K M I T S L G A V R A D A D L G V P P I A A G N V V T A S G R G A T I D L
UniRef90_S3WX13 D T A H G H Q Q E R M V D A L G R V L P V R E E I P I V A G N V V T A Q G Q T I D L
UniRef90_M5TRK1 D S A H G H S K N V I E T V K E I K N K A W D I D V V A G N V A T A Q G G A A D L
UniRef90_A0A01777X7 D T A H G H Q Y R R M L E A L R A V R Q V V G D V P L I A G N V C T A E G T A A L
UniRef90_H2YEF0 G W G G C C Y T T G G W V W M L L Y W V W G W I L G N V L L E L T I Q M L L Q F
UniRef90_A9BB47 T V V S T E H I G P P D R E S L D L C K T M N I P V L V G N C V T Y E V A L K L
UniRef90_A0A022KZH3 D T A H G H Q Q D R M L E A L R A A R S V L G D V P R L V A G N V V T A E G T R E L
UniRef90_D1BG19 D T A H G H Q S K M I A A L R A V R S V S P K V P V V A G N V V T A E G V E D L
UniRef90_A1SJX7 D T A H G H Q Q D R M L E A L A V R A L A P Q V P I A A G N V V S A E G T R A L
UniRef90_Z5X867 D T A H G H Q L K M L D A I K A V S S L D L G V P P L A A G N V V S A E G T R D L
UniRef90_K9V7V2 T V V S T A H L P E S I V P L D L A K F C E M P V I L G N C V T Y D V T L N L
UniRef90_M5A0F4 D T A H G H Q T R T L S A I E A V R A A V P D V K I V A G N V V T K D G T R Q L
UniRef90_D7HAM2 D I A N G H S E K H L V E Y A L Q R V R A A F P D K V I S A G N V V T G D M V E E L
UniRef90_J9H5B0 D T A H G H Q S K M V E A L K T I R A L N P K V V I V A G N V V T A A G T K E L
UniRef90_W4VNQ0 D I A H G H S N A V I K M I Q H I K K L L P D S F V I A G N V G T P E A V R E L L
UniRef90_F7UPM2 T V V S T A S V E S L D L V K L C Q E M P M P P V V L G N C V T Y E V S L E L
UniRef90_Q31M58 T T D H V A P E G V E P L D L A A F C Q S M P I P V I L G N C V T Y D V T L K L
UniRef90_UPI000255E79E D T A H G H Q D K M I D V L E H E A R T G V R V V A I A A G N V V S R T G T L D L
UniRef90_D0L8Z0 D T A H G H Q E K M I A A L D T I A S A H L G V P P I A A G N V V S A E G T V D L
UniRef90_UPI0003B43CD1 D T A H G H Q Q K M L D A L P H V I A S R D A H P V V A G N V V S R A G V Q D L
UniRef90_N0E0A0 R G T T V S A E H V A E P L N L K R F I Y E D V P V I V G G V A S Y T P A L H L
UniRef90_C7NEZ3 R G T T V S A E H V A E P L N L K R F I Y E D V P V I V G G A G S Y T A A L H L
UniRef90_V4JL8 D V I A H F H N A E A M A A K V M A K E V S A D F V V G N I G T R E A A V D A L
UniRef90_UPI0003B5F21A R G T T V S A E H V A E P L N L K R F I Y E D V P V V V G G A G T Y T A A L H L
UniRef90_D5UQF3 D T A H G H Q A K M F D A L E A V A A L D L G L P L A A G N V V S A A G A R D L
UniRef90_F5Z3N3 D T A H G H Q E K M A Q A I R S V A A L T P G V P L V A G N V V S A A G T R D L
UniRef90_F5XNW9 R G T T V S A E H V A K A E P L N L K Q F I D V P V I V G G C A T Y Q A A L H L
UniRef90_UPI0003B35D61 T T V E H V S K N Q E P L N L K K F I Y E L D V P V I V G G A A T Y T A A L H L
UniRef90_I6XZE6 D T A H G H Q E K M I A A L E L A R T G R R A P I V A G N V V T A D G V R D L
UniRef90_Q8DGX2 T V V S P A H L A P E G T D P L D L A A F C E R M V I L G N C V T Y E V A L S L
UniRef90_K6W4X1 R G T T V S A E H V A E P L N L K R F I Y E D V P V I V G G A A S Y T A A L H L
UniRef90_E8NDT7 R G T T V S A E H V S K V A E K F I Y D L D V P V I V G G A A T Y T A A L H L
UniRef90_T1CB93 D T A H G H S H G V I E R V R W I K H Q F P G L Q I V A G N I V T G D A A R A L
UniRef90_K9RT79 T V V S T A H L P E S V T P L D L A Q F C Q I P V I L G N C V T Y D V I A L S L
UniRef90_UPI0002629DFF R G T T V S A E H V S D R E P L N L K R F I Y E D V P V I V G G C A T Y T A A L H L
UniRef90_UPI000255F1F4 R G T T V S A E H V S Q N R E K K F I Y E L D V P V I V G G A A G Y T P A L H L
UniRef90_D2PSX6 T T V S A H V S G Q A E P L N L K Q F I Y D V P V I V G G C A T H Q A A L H L
UniRef90_K9VQQ7 T V V S T A S I S Q L D L T Q F C E M P I P V I L G N C V T Y E V A L N L
UniRef90_UPI0003B58026 T A V S A E H V S Q N H E P L N L K K F I Y D V P V I V G G A A N Y T A A L H L
UniRef90_C7DI15 D V I A H F H N N A V I E A T K K I T V A T G A E V I V A G N L G T I N G V R E S
UniRef90_A2BX48 T V V S T E H L N G M E G N E T L N I K S L C Q I P V I V A G N C V T Y E V A E L L
UniRef90_W6JT81 R G T T V S A E H V A E P L N L K R F I Y E E V P V I V G G V A S Y T A A L H L
UniRef90_T5KHM2 D T A H G H Q E G M L R A L R A V A E L D L G L P V V A G N I V T A D G V A D L
UniRef90_A9WN10 R L A E L R A A G V T V A G A L T P Q R T Q D V P V I V G G A A G Y T P A L H L
UniRef90_A3YY46 T V V S T D H I G P A G R E T L D L A A L C G I P V V I G N C V T Y D V A L E L
UniRef90_H0E0G6 R L R E I K S E R V T R H Y E T A L E A G L D V L A I L G T V V S Y H T G L H L
UniRef90_UPI000369204F T V R H I S S R Y K T L D L K Q F C K N M H I P V L V G N A V T Y N V V L E L
UniRef90_B3DXS1 T V V S T A H L S P E S V T P L D L A Q F C Q M P V I L G N C V T Y D V I A L N L
UniRef90_K9W9K7 R G T T V S A E H V S S A E K R F I Y E L D V P V I V G G A A T Y T A A L H L
UniRef90_C5BZW7 R G T T V S A E H V S Q R V E K K F I Y E L D V P V I V G G S Y T Y Q A A L H L
UniRef90_A0LRT1 T V E H V S S G Q E P L N L K K F I Y D L D V P V I V G G A S N Y T A A L H L
UniRef90_D6ZUK8 T T V S A H V S S H A E P L N L K R F I Y E D V P V I V G G A A S Y T A A L H L
UniRef90_C7R190 H G T I I S A E H V G D G E P L N L K K T F I D V P V V A G G V S D H R T A L H L
UniRef90_Q5Z1F0 A T V S A E H V S Q N R E P L N L K K F I Y D T P V I V G G A A S Y S A L H L
UniRef90_UPI00036A4C71 D T L H F A P H R H L D A V R Y I R Q S I K R I G I V S G N I V H S T D A Q I L
UniRef90_UPI00037CB466 D T A H G H Q E K M L D G L K S V K A L G L G I P L V A G N V V S A E G T R D L
UniRef90_UPI00031B8777 D T A H G H Q E K A M Q A L E A V R A L D P Q V P V I V A G N V V S A D G V R D L
UniRef90_E6KUB7 R G S T V S A E H V R E P L N L K R F I Y E D V P V I V G G V C T D T A A L H L
UniRef90_UPI000255615F D S S H G H S Q G V L D R V K A T R K A Y P N I E I V A G N V A T A E G A I A L
UniRef90_F6EIH2 Q G T I S A E H V S S N E P L N L K S F I D V P V I V A G G V S D H R T A L H L
UniRef90_K9TDF2 T V V S T D H L P E S I T P L D L A K F C Q I P V I L G N C V T Y E V S L K L
UniRef90_UPI000237A5A2 Q G T I S A E H V A D G E P L N L K R F I Y D V P V I A G G V G D Y R T A M H L
UniRef90_UPI0003447477 D S S Q G N S I F Q I N M I K Y I K E K Y P S L Q V I G G N V V T A A Q A K N L
UniRef90_U1LPE0 Q A V Q Q H Y E A V L A A L N L K R F I Y E D V P V V V G G V V T Y T A A L H L
UniRef90_H6N558 D T A H G H Q E R M I A A V S A V A A V G L G V P I V A G N V V S A D G T I D L
UniRef90_K8B8Q8 D S S H G H S E G V L Q R L R E T R A K Y P D L Q I I G G N V A T A A G A K A L
UniRef90_UPI0003B5079B T T V S A E H V S T Q Q N P L N L K E F I Y D V P V I V G G A A G Y T P A L H L
UniRef90_W4TY63 T T V S A E H V A N G D D V L D L K K F I Y D V P V I V G G C A T Y Q A A L H L
UniRef90_ROMIE2 D I A H G H A D S V I S M I Q H I K K E L P D T F V I A G N V G T P E A V R E L
UniRef90_D7PDZ5 T I I S A E H V V L V D R G H E D F I S D L D T P V I A G G V H D H R T A L H L
UniRef90_G5B885 D S H K Q R Q C R A A L G T C E D D K Y H L D L Q V T G R N V V T A A Q A K N L
UniRef90_H5X7A5 Q G T I V S A E H V A D G D P L N L K Q F I D V P V I A G G V S D Y R T A M H L
UniRef90_G8SHB6 Q G T L V S A E H V S T T D E K E F I A D L D L P V I V G G C T D Y K T A L H L
UniRef90_UPI000473DE9F V P L I V G N C V S Y E G A W E L A K L L
UniRef90_UPI0003613C9C D S S H G H S E G V L Q R I R E T R A K Y P D L Q I I G G N V A T G A G A R A L
UniRef90_X4FS86 D T A H A H N R L V L D M V R K L K A E V G D V D V V G G N V A T R S A A A L
UniRef90_X7YB95

UniRef90_I0KWQ9 V E A G A D I I K V G V G P G A M C T T R M M T G V G R P Q F S A V L D C S T A
UniRef90_UPI00036EDBA1 V T A G A D I I K V G V G P G A M C T T R M M T G V G R R P Q F S A V L E C C S A K A
UniRef90_UPI0002E2564B V E A G A D I L V K V G V G P G A M C C T T R Q E V M A C G G R P Q F S A V H E C C S E A
UniRef90_V9L553 I D A G V D N L R V G G M G C C G S I C C I T T S E V M A C G G R P Q F S A V Y K V T K Y
UniRef90_G7PS42 I D D G V D R L Y V G M G C C G S I C C I T T R M M T G V G R P Q F S A V A E C C S A S A
UniRef90_V8D140 I S A G A S I V K V G V G P G A M C C T T R M M T G V G R P Q F S A V A E C C S A S A
UniRef90_D7GCB9 M R T G A A G V L V G F G G G A A S T T R Q V L G I E V P M A S A V A D V A E A
UniRef90_UPI0003686315 I E A G A D V K V G V G P G A M C C T T R M M T G V G R P Q F S A V R D C C A A A
UniRef90_C4LGN3 A A A G A D I I K V G V G P G A M C C T T R M M T G V G R P Q F S A V V K E C C A D K
UniRef90_I6WQP5 M R A G A A G V L V G F G G G A A H T T R A S V L G I E V P M A S A V A D V A E A
UniRef90_Q0S0C9 I D A G A D I V K V G V G P G A M C C T T R M M T G V G R P Q F S A V V E C C A T Q
UniRef90_UPI000367E43E V E A G A D I I K V G V G P G A M C C T T R M M T G V G R P Q F S A V L E C C A A A
UniRef90_G3S0D3 I D T G V D G L H V G M G C C S S I C C V T T R Q E V M A W G R P Q F S A V Y K V A K Y
UniRef90_UPI00039A7A13 I D A G A D V V K V G V G P G A M C C T T R M M T G V G R P Q F S A V L E C C A K A
UniRef90_UPI00040833F8 V N A G A T I V K V G V G P G A M C C T T R M M T G V G R P Q F S A V L A D C C A A A
UniRef90_S3WX13 L D A G A D I V K V G V G P G A M C C T T R M M T G V G R P Q F S A V L E C C A E A
UniRef90_M5TRK1 I A A G A D A V K V G I G P G A M C C T T R V I S G L G V P Q V T S A L L E N A V I Q V
UniRef90_A0A0177X7 I E A G A D I V K V G V G P G A M C C T T R M M T G V G R P Q F S A V L E C C A R E
UniRef90_H2YEF0 I K C S L K C S F K N K P Q P T E S T P H T V M A V I G R P Q A T A I A D C C S S A
UniRef90_A9BB47 M R A G A K G I L V G I G P G A A C C T S R G V L G I G T P Q A T A I A D C C S S A
UniRef90_A0A022KZH3 I E A G A D I I K V G V G P G A M C C T T R M M T G V G R P Q F S A V L E C C A A E K
UniRef90_D1BG19 V E A G A D I I K V G V G P G A M C C T T R M M T G V G R P Q F S A V L E C C A A T K
UniRef90_A1SJX7 I D A G A D I V K V G V G P G A M C C T T R M M T G V G R P Q F S A V L E C C A R T
UniRef90_Z5X867 I E A G A S I V K V G V G P G A M C C T T R M M T G V G R P Q F S A V L E C C S A A
UniRef90_K9V7V2 M K A G A A A V L V G I G P G A A C C T S R G V L G V P Q A T A I A D C C S A A
UniRef90_M5A0F4 I E A G A D I V K V G V G P G A M C C T T R M M T G V G R P Q F S A V V D C C A E E
UniRef90_D7HAM2 I L A G A D I V K V G V G P G A M C C T T R V K T G V G R P Q L S A I L E Y T A A E
UniRef90_J9H5B0 I E A G A D I V K V G V G P G A M C C T T R M M T G V G R P Q F S A V L E C C A A E
UniRef90_W4VNQ0 E N A G A D A T K V G I G P G K V C I T K V K T G F G T G G W Q A L R W C C A K A
UniRef90_F7UPM2 M R A G A A A V L V G I G P G A A C C T S R G V L G V G V P Q A T A I A D C C A A A
UniRef90_Q31M58 L K A G A A G I L V G I G P G A A C C T S R G V L G V G I P Q A T A V I S D C C A A A
UniRef90_UPI000255E79E V E A G A D I V K V G V G P G A M C C T T R M M T G V G R P Q F S A V L E C C S D A
UniRef90_D0L8Z0 I K A G A S I V K V G V G P G A M C C T T R M M T G V G R P Q F S A V L A E C C A G A
UniRef90_UPI0003B43CD1 V D A G A D I V K V G V G P G A M C C T T R M M T G V G R P Q F S A V L E C C S D A
UniRef90_N0E0A0 M R T G A A G V L V G F G G G G A A H T T R R T L G I H A P I A A A R R D Y L D E
UniRef90_C7NEZ3 M R T G A A G V L V G F G G G G A A H T T R L T L G I H A P M A T A V S D V A A A
UniRef90_V4JL8 T I E R V D G F R V G I G G G S I C C T T S V G G A Y A P T L W A V A S V R D A
UniRef90_UPI0003B5F21A M R T G A A G V L V G F G G G S A H R T R T T L G I H T P V A A A R R D Y L D E
UniRef90_D5UQF3 V N A G A T I V K V G V G P G A M C C T T R M M T G V G R P Q F S A V L E C C S V A
UniRef90_F5Z3N3 I G A G A D I V K V G V G P G A M C C T T R M M T G V G R P Q F S A V L E C C A A A
UniRef90_F5XNW9 M R T G A A G V L V G F G G G G A A H T T R D V L G V A V P M A S A R R D Y L D E
UniRef90_UPI0003B35D61 M R T G A A G V L V G F G G G G A A S T T R A T L G I H A P M A T A V L E V A G A
UniRef90_I6XZE6 A G A G A D I I K V G V G P G A M C C T T R M M T G V G R P Q F S A V L E C C S E Q
UniRef90_Q8DGX2 M H C G A A A I L V G I G P G A A C C T S R G V L G V G V P Q V T A I A D C C A A A
UniRef90_K6W4X1 M R T G A A G V L V G F G G G G A A H T T R Q T L G I H A P M A S A R R D Y L D E
UniRef90_E8NDT7 M R T G A A G V L V G F G G G G A A S T T R A T L G I H A P M A T A V A D V A G A
UniRef90_T1CB93 V D V G V D A V K V G V G P G S I C C T T R I V A G V G V P Q I S A I A M V A E A
UniRef90_K9RT79 M K A G A A A I L V G I G P G A A C C T S R G V L G V G I P Q A T A V A D C C A A A
UniRef90_UPI0002629DFF M R T G A A G V L V G F G G G G A S Q T T R E T L G I P I A T A R D Y M D E
UniRef90_UPI000255F1F4 M R T G A A G V L V G F G G G G A S T T R R A M G I R V P M A T A I S D I A E A
UniRef90_D2PSX6 M R T G A A G V L V G F G G G G A A H T T R K V L G V A V P M A A A R R D Y M D E
UniRef90_K9VQQ7 M K T G A A G I L V G I G P G A A C C T S R G V L G V G V P Q C A A A R D D Y R
UniRef90_UPI0003B58026 M R T G A A G V L V G F G G G A V S A T T R A T I G L E A P I A T A I A D V A E A
UniRef90_C7DI15 I D R G V A G L R M G I G G S S I C C I T S D V T K A G S P T L F A V S Q A A D A
UniRef90_A2BX48 M K S G V A G L M V G I G P G A A C C T S R G V L G I G P Q A T A I S D C C S S A
UniRef90_W6JT81 M R T G A A G V L V G F G G G G A A H T T R T A L G I H G P M A S A V A D V A G A
UniRef90_T5KHM2 V D A G A S I L K V G V G P G A M C C T T R M M T A V G R P Q F S A V L E T A Q A
UniRef90_A9WN10 M R T G A A G V L V G F G G G G A S T T T R R A L G I H S P M A S A I S D V A A A
UniRef90_A3YY46 M R A G A A A V M V G I G P G A A C C T S R G V L G V G I P Q C A A A R D D H E R
UniRef90_H0E0G6 M R T G A A G V L V G I G P G A G R G S T V R V L G L G S P Q A T A I A D V A G A
UniRef90_UPI000369204F M E C G V C G V L I G V G P G A A C C T S R G V L G I G V P Q V T A T V D A A A
UniRef90_B3DXS1 M K A G A A A V M V G I G P G A A C C T S R G V L G V G V P Q C A A A R D D Y N
UniRef90_K9W9K7 M R T G A A G V L V G F G G G G A A H T T R V S L G I H A P M A S A R R D Y L D E
UniRef90_C5BZW7 M R T G A A G I L V G V G G G A A H T T R S V L G I G V P M A T A R R D Y L D E
UniRef90_A0LRT1 M R T G A A G V L V G F G G G G A A S A T T R Q T I G I Q A P M A T A I A D V A E A
UniRef90_D6ZUK8 M R T G A A G V L V G F G G G G A A H T T R T S L G I H V P M A T A R R D Y L D E
UniRef90_C7R190 M R T G A A G V L V G Y G S Y P G A T T T E V L G I G V P M A T A R R D Y L D E
UniRef90_Q5Z1F0 M R T G A A G V L V G F G G G G A A S T T R R V L G I G R A S P M A T A I A D V A G A
UniRef90_UPI00036A4C71 I D E G V D V I R V G M S A A S I N R G E M M T G C G R A S Q L G A I L D C C A S V
UniRef90_UPI00037CB466 A A A G A D I V K V G V G P G A M C C T T R M M T G V G R P Q F S A V A E C C A A A
UniRef90_UPI00031B8777 I G A G A D I V K V G V G P G A M C C T T R M M T A V G R P Q F S A V V E C C A E A
UniRef90_E6KUB7 M R T G A A G V L V G F G G G G A A H S T T R R S L G I H A P M A T A V R D Y M D E
UniRef90_UPI000255615F A E A G A N T V K V G I G P G S I C C T T R I V T G C G V P Q I S A I S N A V D A
UniRef90_F6EIH2 M R T G A A G V L V G Y G S A A T T T H E V L G I G V P M A T A R R D Y L D E
UniRef90_K9TDF2 M K A G A A I M V G I G P G A A C C T S R G V L G I G V P Q A T A V A D C C A A A
UniRef90_UPI000237A5A2 M R T G A A G V L V G F G G Q S R A A T T T Q V L G I G V P M A T A R R D Y L D E
UniRef90_UPI0003447477 I D A G V D A L R V G M G S G A S I C C I T Q E V L A C G A P Q A T A V S K V S E Y
UniRef90_U1LPE0 M R T G A A G V L V G F G G G G A A S T S E K V L G V A A P M A T A V S D V A A A
UniRef90_H6N558 I S A G A D I V K V G V G P G A M C C T T R M M T G V G R P Q F S A V A D C C A A A
UniRef90_K8B8Q8 A D A G V S A V K V G I G P G S I C C T T R I V T G V G V P Q I T A V A D V A E A
UniRef90_UPI0003B5079B M R T G A A G V L V G F G G G G A A T T T H R A L G I R V P M A T A I S D I A A A
UniRef90_W4TY63 M R T G A A G V L V G F G G G G A T H T T R Q V L G I Q V S M A S A L A D V A E A
UniRef90_ROMIE2 E N A G A D A T K V G I G P G K V C I T K V K T G F G T G V
UniRef90_UPI000367DZ5 M R T G A A G V L V G Y G S T T E V L G I G V P M A T A R R D Y L D E
UniRef90_G5B885 T N A G G D R L H V G M G C C S I C C I T Q E V M A C G Q P Q G T A L Y K V A K Y
UniRef90_H5X7A5 M R T G A A G V L V G H G H S P G V T T D R V L G I G V P M A T A L I D Y L D E
UniRef90_G8SHB6 M R T G A A G V L V G I G A D E W S T T D T V L G I R V P M A T A R R D Y L D E
UniRef90_UPI000473DE9F M D A G V A G L M V G I G P G A A C C T S R G V L G I G I P Q A T A I A D C C S A A
UniRef90_UPI0003613C9C M E A G A D A V L V G V G P G A A C C T T R Q V V T G V G V P Q A T A I A D V A A A
UniRef90_X4FS86 A E A G C S A V K V G I G P G S I C C T T R I V T G V G V P Q I T A V S D A V E A
UniRef90_X7YB95 V D A G A D A V K V G V G P G S I C C T T R V V A G V A P Q I T A I L E A V A V

UniRef90_I0KWQ9 A R E L G R H V W A D G G V R R H P R D V A L A L A A G A S N V M I G S W F A G T
UniRef90_UPI00036EDBA1 A R E M G K H V W A D G G V R R H P R D V A L A L A A G A S N V M I G S W F A G T
UniRef90_UPI0002E2564B A R E L G A Q V I A D G G G I V R Y Q T V G H M V K A L A A G A S T V M M G S L L A A T T
UniRef90_V9L553 A R R F G V P V I A D G G G I V R Y Q T V G H M V K A L A A G A S T V M M G S L L A A T T
UniRef90_G7PS42 A W H F G G V P I V A Y G G G I V R Y Q T V G H M V K A L A A G A S T V M M G S L L A A T T
UniRef90_V8D140 A R G S G A H V W A D G G G I V R H T S P R D V A L A L A A G A S N V M I G S W F A G T
UniRef90_D7GCB9 R R G R Y V H V I A D G G A M G T S G R D I V A R A A A G A D A A M I G G P L A A R A
UniRef90_UPI0003686315 A R E L G K H V W A D G G G I T R H P R D V A L A L A A G A S A A M V G S W F A G T
UniRef90_C4LGN3 A R E V G A H V W A D G G G I V R H T S P R D V A L A L A A G A S N V M I G S W F A G T
UniRef90_I6WQP5 R R G R Y V H V I A D G G A V V R G R S G D I A K A I A A G A D A V M I G S P L A A R A
UniRef90_Q0S0C9 A R A M G A H V W A D G G G V R H P R D V A L A L A A G A S N V M I G S W F A G T
UniRef90_UPI000367E43E A K E L G A H V W A D G G G I V R H T S P R D V A L A L A A G A S N V M I G S W F A G T
UniRef90_G3S0D3 A Q H F G V S I I A D G G I V R Y Q T V G H V K A L A A G A S T V M T G S L L A T T
UniRef90_UPI00039A7A13 A R E L G K H V W A D G G G I V R H P R D V A L A L A A G A S A A M V G S W F A G T
UniRef90_UPI00040833F8 A R E H G A A V W A D G G G I V R H P R D V A L A L A A G A S N A M V G S W F A G T
UniRef90_S3WX13 A G D R N G A V W A D G G G V R Y R Y P R D V A L A A G A G N V M I G S W F A G T
UniRef90_M5TRK1 A H E Q N I P V I A D G G G I V R F S G D I T K A L A A G A N T V M I G S
UniRef90_A0A0177X7 A R R R R G K H I W A D G G G I V R H P R D V A L Y L A A G A S T R V M I G T A L L S G T
UniRef90_H2YEF0 A R R F S V P I A D G G G I Q N V G H I T K A L A A G A S T V M M G S L L A A T T
UniRef90_A9BB47 R E G E Y V P I A D G G G I V T G G D I C K C I A C G A D G V M I G S P L A A R A
UniRef90_A0A022KZH3 A R A L G G R V W A D G G G V R H P R D V A L A L A A G A S N V M I G S W F A G T
UniRef90_D1BG19 A T E L G K H V W A D G G G V R H P R D V A L A L A A G A S Q V M I G S W F A G T
UniRef90_A1SJX7 A A D L G K H V W A D G G G V R H P R D V A L A L A A G A S A V M I G S W F A G T
UniRef90_Z5X867 A R E L G A H V W A D G G G I T P R D V A L A L A A G A S N V M I G S W F A G T
UniRef90_K9V7V2 R D G K Y V P I A D G G G L I T G G D I C K C I A C G A D G V M I G S P F A R A
UniRef90_M5A0F4 A A R L G G H I W A D G G G V R F P R D V A L A L A A G A S V M L G S W L A G T
UniRef90_D7HAM2 T K R K G S E L I H S
UniRef90_J9H5B0 A K K H G K S I W A D G G G V R H P R D V A L A L A A G A S Q V M I G S W F A G T
UniRef90_W4VNQ0 A T K I I A D G G G I R T H G D I A K S I R F G A S M V M I G S L F A G H
UniRef90_F7UPM2 R D G R Y V P I A D G G G I T G G D I C K C I A C G A D A V M I G S P L A A R A
UniRef90_Q31M58 R D G R Y V P I A D G G G L I T G G D I C K C I A C G A D A V M I G S P F A R A
UniRef90_UPI000255E79E A R E V G A H V W A D G G G V K Y P R D V A L A L A A G A S V M V G S W F A G T
UniRef90_D0L8Z0 A R E H G A H V W A D G G G I V R H P R D V A L A L A A G A S N V M I G S W F A G T
UniRef90_UPI0003B43CD1 A R E M G A H V W A D G G G V K Y P R D V A L A L A A G A S V M V G S W F A G T
UniRef90_N0E0A0 S G G R Y V H V I A D G G G V G T S G D I V K A I A C G A D A V M L G A A L A R S
UniRef90_C7NEZ3 R R G R Y V H V I A D G G G M R R S S G D I V K A V A C G A D A V M L G A A L A R S
UniRef90_V4JL8 A H G A D V P I A D G G G I T G G D I C K C I A C G A S V M I G Y L L A G T
UniRef90_UPI0003B5F21A S G G R Y V H V I A D G G G T S T S G E M V K A I A C G A D S V M L G A A L A R A
UniRef90_D5UQF3 A R E L G A H V W A D G G G V R H P R D V A L A L A A G A S N V M I G S W F A G T
UniRef90_F5Z3N3 A H D L G A H V W A D G G G V R H P R D V A L A L A A G A S N V M I G S W F A G T
UniRef90_F5XNW9 S G G R Y V H V I A D G G S V G R S G D I A K A I A C G A D A V M V G S P L A K A
UniRef90_UPI0003B35D61 R R G R Y V H V I A D G G G V G K S G D I V K A I A C G A D A V M L G A A L A R A
UniRef90_I6XZE6 A R R S G C A V W A D G G G V R H P R D V A L A L A A G A S V M I G S W F A G T
UniRef90_Q8DGX2 R D A Y Y V P I A D G G G L V T G G D V C K C I A C G A D A V M M G S P F A R A
UniRef90_K6W4X1 S G G R Y V H V I A D G G G I T S R S G D V K A V A C G A D A V M I G A A L A R A
UniRef90_E8NDT7 R R G R Y V H V I A D G G G V I G T S G D I V K A I A M G A D A V M L G V A L A R A
UniRef90_T1CB93 L E G S G V P L I A D G G G V R Y S G D V A K A I A A G A S T V M L G S M F A G T
UniRef90_K9RT79 R Q G Q Y I P I A D G G G L V T G G D I C K C I A C G A D A V M M G S P F A R A
UniRef90_UPI0002629DFF S G G R Y V H V I A D G G G L G R S G D L V K A I A C G A D G L M V G A A L A R A
UniRef90_UPI000255F1F4 R R G R Y V H V I A D G G G V G T S G D I V K A I A M G A D A V M L G A A L A R A
UniRef90_D2PSX6 S G G R Y V H V I A D G G S V G R S G D V A K A I A C G A D A V M V G S P L A R A
UniRef90_K9VQQ7 E T G K Y V S V I A D G G L I T G G D I C K C I A C G A D A V M I G S P F A R A
UniRef90_UPI0003B58026 R R G R Y V Q V I A D G G G M G T S G G F V K A L A L G A D A V M L G S P L A R A
UniRef90_C7DI15 L D G M K I P I A D G G G I R T A G D V A L A F A F G A S A M L G Y G F A G C
UniRef90_A2BX48 R D G R Y V P I A D G G G L V T G G D I C K C I A C G A D A V M I G S P L A K S
UniRef90_W6JT81 R R G R Y V H V I A D G G G M G V S G D I V K A M A C G A D A V M L G A A L A R A
UniRef90_T5KHM2 A R E L G A H V W A D G G G V R Y P R D V A L A L A A G A S V M V G S W F A G T
UniRef90_A9WN10 R R G R Y V H V I A D G G G M G T S G D I V K A I A M G A D A V M L G T A L A R P
UniRef90_A3YY46 E T G Q Y V P I A D G G G I V T G G D I C K C I A C G A D A V M I G S P L A R A
UniRef90_H0E0G6 R S G E Y V Q V I A D G G M R T A G G D I A K A I A C G A D A V M L G A P L A R A
UniRef90_UPI000369204F L D G M E I P I A D G G G I R N A G D I A I S I A F G A S C A M M G Y L F A G C
UniRef90_B3DXS1 R D G R Y V P I I T D G G M R R G G D L C K A I A C G A D A V M I G S A F A R A
UniRef90_K9W9K7 E T G N Y V P I A D G G G L V T G G D I C K C I A C G A D G V M I G S P F A R A
UniRef90_C5BZW7 S G G R Y V H V I A D G G G V G R S G D L V K A V A C G A D A V M L G A A L A R G
UniRef90_A0LRT1 S G G R Y V H V I A D G A M R T G G D I A K A I A C G A D A V M I G L P L A R A
UniRef90_D6ZUK8 R R G R Y V Q V I A D G G M G R S G S F V K A L A L G A D A V M L G A P L A R A
UniRef90_C7R190 S G G R Y V H V I A D G G G V G R S G D L V K A F A V G A D A V M I G A G L A R A
UniRef90_Q5Z1F0 T G G R Y V H V I A D G G D I A T S G Q L A K A I A C G A D A A M L G V P L A V A
UniRef90_UPI00036A4C71 R R G R Y V H V I A D G G G F G T S G D L V K A I A C G A D A V M L G A A L A R A
UniRef90_W7QGC4 C N R A G V P L I S A D G G I Q T P A D A F K A L A C G A S V M M G K V F A L
UniRef90_UPI00037CB466 A A E L G L A V W A D G G G V R H P R D V A L A L A A G A S N V M I G S W F A G T
UniRef90_UPI00031B8777 A A D L G K H I W A D G G G V K H P R D V A L A L A A G A S Q V M I G S W F A G T
UniRef90_E6KUB7 S G G R Y V H V I A D G G G I G R S G D L S R A I A C G A D A V M L G A A L A R A
UniRef90_UPI000255615F L A G T D I K I I A D G G G I R Y S G D I Q R
UniRef90_F6EIH2 T G G R Y V H V I A D G G D I H C S G D I A K A I A C G A D A V M I G T M L T A A
UniRef90_K9TDF2 R D G I Y V S I A D G G G I V T G G D I C K C I A C G A D G V M I G S P F A R A
UniRef90_UPI000237A5A2 T G G R Y V H V I A D G G A L S Y T S G D I A K A I A C G A D A V M I G S A L T E S
UniRef90_UPI0003447477 A R R F G V P I A D G G I Q N V G H I A K A L A L G A S T V M M G S L L A A T T
UniRef90_U1LPE0 R R G R Y V H V I A D G G S L G T S G Q I V K A L A C G A D A V M L G T A L A R A
UniRef90_H6N558 A R E H G G H V W A D G G G V R H P R D V A L A L A A G A S N V M I G S W F A G T
UniRef90_K8B8Q8 L E G T G I P I A D G G G I R F S P D I A P P G A P N
UniRef90_UPI0003B5079B R R G R Y V H V I A D G G G I G A S G D I V K A L A M G A D A V M L G T T L A R A
UniRef90_W4TY63 R R G R Y V H V I A D G S V G R S G D L A K A I A C G A D A V M V G S P L A R A
UniRef90_ROMIE2 T G G R Y V H V I A D G D I H T S G D L A K A I A C G A D A A V L G T P L A A A
UniRef90_D7PDZ5 T R R F G V P V I A N G G G I Q T V G H M V K A L A L R A S T V M I G P L L A A T
UniRef90_G5B885 T G G R Y V H V I A D G G G V I N C S G D I A K A I A C G A D A V M L G A P L A A C
UniRef90_H5X7A5 T G G R Y V H V I A D G G G I A T S G D I A K A I A C G A D A V M L G E P L A L A
UniRef90_G8SHB6 T G G R Y V H V I A D G G S L G T S G Q I V K A L A C G A D A V M L G T A L A R A
UniRef90_UPI000473DE9F R N G R Y I P I I G D G G L V T G G D I C K C I A C G A D A V M I G S P I A K S
UniRef90_UPI0003613C9C R D G K Y V A V I A D G G M R T G A D I C K A I A C G A D G V M I G S P I A S A
UniRef90_X4FS86 L E G
UniRef90_X7YB95 C R P A G V P V I A D G D C S

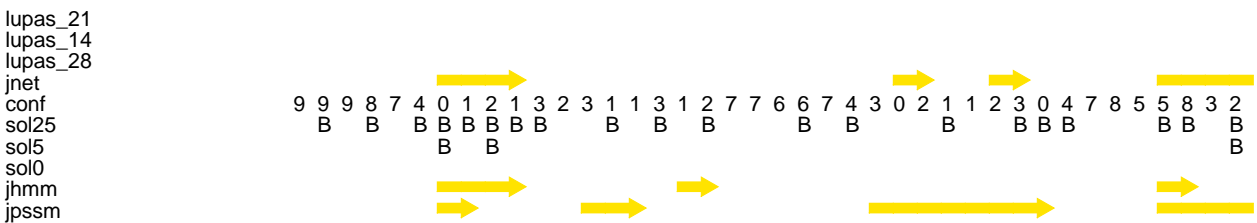
UniRef90_I0KWQ9 Y E S P G D Y T E 250 260 270 280
UniRef90_UPI00036EDBA1 Y E S P G D Y L D A D G R R Y K E S F G M A S A R A V S A R T A D D R K A V F E
UniRef90_UPI0002E2564B Y E S P G D L Q D S S G R Q Y K E S F G M A S A R A V Q N R T Q R D D E E G I S
UniRef90_V9L553 T E A P G E Y F F S D G V R L K K Y R G M G S L D A M E R Y F S E G D K V K V A S
UniRef90_G7PS42 M E A P G E Y F F S E G V W L K K Y Q G M G S L D A M E K
UniRef90_V8D140 Y E S P G D K W D R D G K P Y K E S F G M A S K R A V A A R T A T D F E E G I S
UniRef90_D7GCB9 K E A P G K G W H W G A E A W H Q T L P R G R R V H E Y D S V G
UniRef90_UPI0003686315 H E S P G D L H D E Q G R P Y K E S F G M A S K R A V T A R T R T D F E E G I S
UniRef90_C4LGN3 L E S P G D L T I E N D G R A Y K E S F G M A S H R A V E H R N R S M F E E G I S
UniRef90_I6WQP5 T E A P G R G W H W G P E A W H A T L P R G R G E R V F F E E Q V G
UniRef90_Q0S0C9 Y E S P G D L V D Q S G N A Y K E S F G M A S K R A V A A R T A T D F E E G I S
UniRef90_UPI000367E43E F E S P G D L M D A D G R M Y K E S F G M A S R R A V E N R N Q R T E A F E R A
UniRef90_G3S0D3 T E A P G E Y F F S D R V R V K K Y R G M G S L D A M E P Y F S E G E K V K I V
UniRef90_UPI00039A7A13 H E S P G D L Y D E H G R P Y K E S F G M A S K R A V G A R T R T D F E E G I S
UniRef90_UPI00040833F8 Y E S P G D L H T D A T G E Y K V S F G M A S K R A V D R A R K S L F E E G I S
UniRef90_S3WX13 H E S T G D L H D P D G R A Y K E N F G M A S A R A V R N R T R S L F E E G I S
UniRef90_M5TRK1
UniRef90_A0A0177X7 F E S P G D K E D R E G H L Y K E N Y G M A S A R A V S D R T A D L D K G F F R
UniRef90_H2YEF0 T E S P G E Y F Y S D G L R L K K Y R G M G S V D A M E R Y F S E K D K I R V A
UniRef90_A9BB47 Q E A P G Q G F H W G M A T P S P V L P R G T R I K V G
UniRef90_A0A022KZH3 Y E S P G Q M R D E R G R R Y K E N F G M A S K R A V S N R T A H E D E E G I S
UniRef90_D1BG19 H E S P G D L H D D N G R L Y K E S F G M A S A R A V D R A R K S L F E E G I S
UniRef90_A1SJX7 H E S P G D L M D S D G R A Y K V S F G M A S A R A V D R A R K S L F E E G I S
UniRef90_Z5X867 Y E S P G D L M D R D G R P Y K E S Y G M A S K R A V A A R T S A D F E E G I S
UniRef90_K9V7V2 A E A P G R G F H W G M A T P S P V L P R G T R I N V G
UniRef90_M5A0F4 Y E S A A D T L D P D G R L Y K E S F G M A S N R A V K N R T R E E S E F D R S
UniRef90_D7HAM2
UniRef90_J9H5B0 Y E S P S D L R D S D G R V Y K E S F G M A S A R A V A A R F D R A R K S L F E
UniRef90_W4VNQ0 E E S P G T T V E Q D G Q L F K E Y F G S A S E Y Q K G G K R K M S K V K R C
UniRef90_F7UPM2 A E A P G R G F H W G M A T P S P V L P R G T R I N V G
UniRef90_Q31M58 A E A P G R G F H W G M A T P S P V L P R G T R I K V G
UniRef90_UPI000255E79E L E S P G D L I D A D G R L Y K E S F G M A S A R A V R H R T R E M F E E G I S
UniRef90_D0L8Z0 F E S P G E L Q R D A D G M F K V S F G M A S K R A V D R A R K A L F E E G I S
UniRef90_UPI0003B43CD1 L E S P G D L M D A D G R Y Y K E S F G M A S A R A V K N R T R D L F E E G I S
UniRef90_N0E0A0 T E A P G Q G F H W G P E A H H G D L P R G E R V A V G S V G
UniRef90_C7NEZ3 Q D A P G G G Y H W G A E A W H E K L P R G E R V Q V J E T V G
UniRef90_V4JLJ8 D E A S A P L I R I G D R A Y K P Y R G M A S R G A M E R F Y T R A S K R V A
UniRef90_UPI0003B5F21A S E A P G R G F H W G S E A H H V L P R G Q R V D V G T I G
UniRef90_D5UQF3 Y E S P G D K F A T D G S A Y K E S F G M A S K R A V D R A R K S L F E E G I S
UniRef90_F5Z3N3 Y E S P G D L F D R D D K P Y K E S Y G M A S K R A V A A R T A G D R K A L F Q
UniRef90_F5XNW9 S E A P G R G R G Y H W G P E A W H A R L P R G E R V A F D V V G
UniRef90_UPI0003B35D61 T D A P G G G Y H W G A E A H H K L P R G Q R V H V G Q V A
UniRef90_I6XZE6 H E S T G D L F D H E G R A Y K E S F G M A S A R A V R Q R T R E L F E E G I S
UniRef90_Q8DGX2 K E A P G R G R G Y H W G M A T P S P V L P R G T R I H V G
UniRef90_K6W4X1 E E A P G R G R H W G S E A H H P D L P R G E R V V V G T A A
UniRef90_E8NDT7 T D A P G R G F H W G P E A H H A K L P R G R R V A V D R V G
UniRef90_T1CB93 E D A P A R
UniRef90_K9RT79 A E A P G R G R G Y H W G M A T P S P V L P R G T R I R V G
UniRef90_UPI0002629DFF E E A P G R G H H W G N E A I H Q T L T R G H R V E V G T V A
UniRef90_UPI000255F1F4 T E A P G R G W H W G G E A A H A D M P R G D R T E V G T V G
UniRef90_D2PSX6 S D A P G G G F H W G A E A W H A D L P R G E R V E V G
UniRef90_K9VQG7 A E A P G R G F H W G M A T P S P V L P R G T R I R V G
UniRef90_UPI0003B58026 S E A P G H G Q H W G A E A R H D T L P R G G R S A V G T V G
UniRef90_C7DII5 D E S P A P K I S L D G K Y Y K I H R G M G S A A A K A D R Y A D S G G K N V D
UniRef90_A2BX48 T S A P G N G F H W G M A T P S P I L P R G T R I E V G
UniRef90_W6JT81 T E A P G R G F H W G P E A H H R D L P R G E R V I E V G T A G
UniRef90_T5KHM2 I E A P G E L Q D A E G R L F K E S W G M A S T K A V Q A R F G R L D A Y E R S
UniRef90_A9WN10 E E A P G Q G W H W G S E S H H P E M P R G D R V K L D T V G
UniRef90_A3YY46 S E A P G R G F H W G M A T P S P V L P R G T R I S V G T T G
UniRef90_H0E0G6 D E A P G R G W H W T P A A A H R D L P R G D R V R V I G A
UniRef90_UPI000369204F K E S P A P M M I L G G R Y Y K L H R G M G S V S A R Q K R I A V D R Y K E I A
UniRef90_B3DXS1 E E A P G K G H H W G M A T P H A N L P R G T L I R M G I
UniRef90_K9W9K7 Q E A P G R G F H W G M A T P S P V L P R G T R I Q V G
UniRef90_C5BZW7 V E A P G K G W H W G S E A H H P E L P R G E R V R V G T V G
UniRef90_A0LRT1 T E A P G R G W H W G A E V R H P E L P R G V R F W A G
UniRef90_D6ZUK8 T E A P G K G T H W G S E A R H H Q T L P R G Y R T T V G T V G
UniRef90_C7R190 S E A P G Q G W H W G P E A H H P Q L P R G E R V H V G T A G
UniRef90_Q5Z1F0 A E A P G R G W Y W P S A A A H P S V P R G S L L Q V G D G W D L G A E D E A D
UniRef90_UPI00036A4C71 T D A P G R G W H W G A E A R H P R L P R G N R V E I G Q V
UniRef90_U7QGC4 E E S G A E A V L Y E N A P H K I Y H G M S R P G M I G D M V P
UniRef90_UPI00037CB466 Y E S P G D I F D K Q G R A Y K E S F G M A S K R A V A A R T A T D F E E G I S
UniRef90_UPI00031B8777 H E G P G D L I D A N G R A Y K E S F G M A S A R A V R H R T R G E D E F A R S
UniRef90_E6KUB7 E E A P G R G W H W G S E A T H P D M P R G Q R V R V G
UniRef90_UPI000255615F
UniRef90_F6EIH2 K E A P G R G W Y W P A V A A H P S V P R G S V V Q L S E P D
UniRef90_K9TDF2 N E A P G R G R G Y H W G M A T P S P V L P R G T R I R V G
UniRef90_UPI000237A5A2 A E T P A Q G R G Y H W G M A T P S P V L P R S E I V G F A S
UniRef90_UPI0003447477 T E A P G E Y F F S D G I R L K K Y R G M G S L D A M D K H
UniRef90_U1LPE0 T D A P G R G W H W G P E A H N Q K L P R G N R V Q V D R V G
UniRef90_H6N558 Y E S P G D L R Q D A R G A Y K V S F G M A S K R A V D R A R K S L F E E G I S
UniRef90_K8B8Q8
UniRef90_UPI0003B5079B E E A P G R G W H W G L E A V H P D F P R G H R T R V G T V A
UniRef90_W4TY63 T E A P G R G W H W G A E A W H P D L P R G A R V H F E P V G
UniRef90_ROMIE2
UniRef90_D7PDZ5 D T A P G R G W F W P S A A A H P D T P R G A L L Q V A I D E
UniRef90_G5B885 E E A P G K Y F F S D G V R L K K Y H G M G S L D A M E K
UniRef90_H5X7A5 S E A P G R G L Y W T A A A H P S L P R S R V T Q V A N
UniRef90_G8SHB6 E G A P A G G A W W H S A A A H P A L P R G G G F C I A G E
UniRef90_UPI000473DE9F S N A P G K G F H W G M A T P S P V L P R G T R I E V G
UniRef90_UPI0003613C9C F E A P G R G R G Y H W G M A T P H P G L P R G T R I Y V G
UniRef90_X4FS86
UniRef90_X7YB95

UniRef90_I0KWQ9 E G R M Y L D P T R P G V E D L I D E I I A G V R S A F T Y A G A R D L T Q F H
UniRef90_UPI00036EDBA1 E G K M Y L D P R R R P G V E D L L D E I I A G V R S S A C T Y A G A R T L L E D L H
UniRef90_UPI0002E2564B T S K M Y L D P A R K P G V E D L L D E I I A G L R S S S M T Y A G A R S L L A E F R
UniRef90_V9L553 Q G V S G S V Q D K G S I E H K F A P Y L I T G I Q H G C Q D I G A K S L S I L R
UniRef90_G7PS42 S S S Q G F I Q D K G S I I Q K F M P Y L I V G I Q H G C Q D I G A H S L L
UniRef90_V8D140 S S R T A L V D P E R P G V E D L I D H I C A G A L R R S T A T Y A G A R D L K E F L H
UniRef90_D7GCB9 S L E E V V V G P S S V T D D G T M N L V G A L R R S S M A S S G Y Q S D V D E F L Q
UniRef90_UPI0003686315 S S R M A L D P Q R P G V E D L L D S I T A G V R S S A C T Y A G A A T L E Q F H
UniRef90_C4LGN3 Q A R M Y I D P E R P G V E D Q V D H I V S G V R R S A F T Y A G A D T I E T F R Q
UniRef90_I6WQP5 S L A E V V N G P S H L P D D G T M N L V G G L R R K A M A F T G Y T D I K S F R Q
UniRef90_Q0S0C9 S S R M R L D P E R P G V E D L I D H I C S G V R S T C T Y A G A R T L A E L H
UniRef90_UPI000367E43E R R E M F E D P A R K G S I E D Q V D S I I S G V R S S F T Y A G A D S L P R F H
UniRef90_G3S0D3 Q G V S A S I Q D K G S I I Q K F V P Y L I A S I R G S M M Y S G E L K F E K L T
UniRef90_UPI00039A7A13 S S R M L L D P Q R P G V E D L I D E I I C S G V R S S A L T Y A G A R D I E D F H
UniRef90_UPI00040833F8 S S R L P V D P E R P G V E D L I D H I C S G V R S S T A T Y T G A A S L P E L H
UniRef90_S3WX13 S S K M Y L D P R R P G V E D L I D W I T S G V R S S C T Y A G A H N L M E F H
UniRef90_M5TRK1
UniRef90_A0A0177X7 E G I S T S R L Y R E S V G G L L I E M I T G V I Q S A C T Y A G A S S L E A L H
UniRef90_H2YEF0 Q G V S G A V Q D K R G S V H T F L P Y L I A G L R S S H G C Q D I G S R S M P L R
UniRef90_A9BB47 S T G T L E R I K G S P I D D G T Q N L L G A L K T S M G T L G A R T I T K E M Q
UniRef90_A0A022KZH3 T S R M Y L E D G A G G V E D L L D I T A G V R S S C T Y A G A T S L A E F R
UniRef90_D1BG19 S S R M Y I D P K R P G V E D L I D E I T S G L R R S S C T Y A G A T S L A E F A
UniRef90_A1SJX7 S S R M Y L D P A R P G V E D L V D E I I C S G L R S A C T Y A G A R T L P E L H
UniRef90_Z5X867 T S R M A L D P A R G G V E D L L D H I T S G V R R S T C T Y A V G A T T I A E L H
UniRef90_K9V7V2 T T G T V E Q L L R G P L D D G T H N L L G S L K T S M G T L G A K N I K E M Q
UniRef90_M5A0F4 T S R M Y V D P E R P G V E D I D Q L V A G L R S S C T Y A G A D S V P A F H
UniRef90_D7HAM2
UniRef90_J9H5B0 E G I S S S R M Y I N P V E D L I D E I I A G L R S S C T Y S G A K N L A E F N
UniRef90_W4VNQ0
UniRef90_F7UPM2 T T G T I R E I L V G P L D D D G T H N L L G A L K T S M G T L G A K D M K E M Q
UniRef90_Q31M58 T T G T L E Q I L L R G P L D D D G T H N F L L G A L K T S M G T L G S R S M P L R
UniRef90_UPI000255E79E S G R M F V D P A R P G V E D L I D Q I V S G V R S S F T Y A G A R T I G E F H
UniRef90_D0L8Z0 S S R L R I D P G R P S V E D L I D H I C S G V R S S A A T Y A G A H T I L G E L H
UniRef90_UPI0003B43CD1 S G R M F L D P Q R P G V E D V I D Q I V S G V R S S A F T Y A G A R T I G E F H
UniRef90_N0E0A0 T L E Q I L F G P S R T A D G T T N L V G A L R R A M A T T G Y T D P K E F Q
UniRef90_C7NEZ3 T M E E I L V G P S G H T A D G T T N L I G A L R R A M A T T G Y S D L K E F Q
UniRef90_V4JL8 E G V E G L V E Y R G S V M S V L A D L A E G I R A G L G Y A G A S N I R E L W
UniRef90_UPI0003B5F21A T L R E I L L G P A S G A D G T N L T G A L R R A M A T T G Y T D L K E F Q
UniRef90_D5UQF3 S S R H V D P E A P G V E D L L D R I T S G V R S S C T Y A G A R T L A E L H
UniRef90_F5Z3N3 E G R M M L D P D R G G V E D L L D H I T S G L R R S T C T Y V G A S D L A E L H
UniRef90_F5XNW9 T L E Q I L R G P S A V P D G T M N L V G A L R K A M A T T G Y T E V K E F Q
UniRef90_UPI0003B35D61 P L E E V L Y G P A P S A D G V T N L I G A L K R S M A T T G Y S D L K E F Q
UniRef90_I6XZE6 S S R M Y L D P Q R P G V E D L L D W I T S G V R R S S A T Y A G A R T L A E F N
UniRef90_Q8DGX2 T T G T L E Q I L R G P L D D D G T H N F L L G A L Q T S M G T L G A K D L R E M Q
UniRef90_K6W4X1 P L Q E I M V G P G R T A D G T T N F A G A L R R S M A T T G Y S D V K E F Q
UniRef90_E8NDT7 P L E Q V L Y G P A P V A D G T A N L I G A L K K S M A T T G Y S D L K E F Q
UniRef90_T1CB93
UniRef90_K9RT79 T T G T L E Q I L L R G P L D D D G T H N F L L G A L Q T S M G T L G A K N I T E M Q
UniRef90_UPI0002629DFF P L E Q I L F G P S I S L S A D G T T N L I G A L R H A M A T T G Y T D L K E F Q
UniRef90_UPI000255F1F4 T L E Q I V L W G P S H H T A D G T S N L M G A L K R A M A T T S G Y S D V K E F Q
UniRef90_D2PSX6 V T G T M E Q I L F G P V P D G T M N L V G A L K R A M A T T G Y T E L K E F Q
UniRef90_K9VQQ7 T T G T V E Q I L L R G P L D D D G T H N L L G A L K R T S M G T L G A K D L K E M Q
UniRef90_UPI0003B58026 S L R Q I L F G P S H R A D G T T N F I G A L R R A M A S T G Y V D V K S F Q
UniRef90_C7DI15 E G I E I L V P Y R G S V S E V V N W Y V A G I R A A M G Y A G V S N I P E M
UniRef90_A2BX48 S T G S L E R I L K G P L D D D G T H N L L G A I R T S M S T L G A K N I K E M Q
UniRef90_W6JT81 S L Q E I L F G P S R S A D G T T N L M G A L R R A M A T T G Y L E L K E F Q
UniRef90_T5KHM2 S S K L Y L D P L R P G L E D L L D M I T S G V R R S S F T Y A G S S V L P E F H
UniRef90_A9WN10 P L Q E V L F G P A H A D G T S N L M G A L R R S M A T T G Y S D V K E F Q
UniRef90_A3YY46 S L E K I L L R G P A G L D D D G T Q N L L G A L R T S M G T L G A R T I K E M Q
UniRef90_H0E0G6 V G P L E Q V L Y G P G I E D S G T T N L I G A L R R S M A T C G S L D L A E F N
UniRef90_UPI000369204F E G T E A W L P Y K G E A T N V I Q E L A A G L R A A M G Y A G A R N I K E L Q
UniRef90_B3DXS1 S G P L S Q I L Y G P V D D D G S Q N L V G A L A T S M G N V G A M N I R Q F Q
UniRef90_K9W9K7 S T G T L E Q I L L V G P L D D D G T H N L L G A L K T S M G T L G A K N L K E M Q
UniRef90_C5BZW7 T L E I L H G P G G R A D D G T L N L V G A L R R A M A T T G Y S D V K E F Q
UniRef90_A0LRT1 T V G S L R E I F Y G P A A E G T T N L V G A L R K A L A T C G Y S D L K E F Q
UniRef90_D6ZUK8 P L E Q V L F G P S H Q A D G K T N F I G A L K R A M A S T G Y V D L K N F Q
UniRef90_C7R190 S L E I L F G P G T R A D D G T L N M V G A L R R A M A T T G Y S E L K E F Q
UniRef90_Q5Z1F0 E R P P L E R V L F G P S D D D G S L N L V G G L R R S M A K A G Y S D L K E F Q
UniRef90_UPI00036A4C71 G S L E E I V R G P S A T A V G N L V G A L R F A M A T T G Y T D L K E F Q
UniRef90_UPI00037CB466 E G V E K L V P V S G T V R G F L S S W T K A L R T S I S R A G S S I E E L W
UniRef90_UPI00031B8777 S S R M L I D P E M P S V E D L I D Q I C A G V R S T C T Y V G A R S I A E L R
UniRef90_E6KUB7 N S K M Y L D P Q R P G V E D L V D H I T S G V R S S M T Y A G A T S L A Q F A
UniRef90_UPI000255615F T T G T L E Q I L Y G P S A D G S L N F V G A L K R T M A S T G Y S E V K D L Q
UniRef90_F6EIH2 E Q V S L E K V L N G P S D D D P Y G Y L V A G L R R S M A K A G Y S D L K E F Q
UniRef90_K9TDF2 S T G S L E Q I L R G P L D D D G T H N L L G A L K T S M G T L G A K D M K E M Q
UniRef90_UPI000237A5A2 S G A D L E Q L L F G P S S D G T L N L F G G L R R A M A K T G Y R D L K E F Q
UniRef90_UPI0003447477 P L D V V L N G P S P V A D G T A N I M G A L R K A M S T T G Y K D L K E F Q
UniRef90_U1LPE0 S S R L P V D P D R P S V E D L L D H I C S G V R S T A T Y T G A R T L T E L H
UniRef90_H6N558
UniRef90_K8B8Q8
UniRef90_UPI0003B5079B P L E E V L W G P G H H T D G T S N L M G G L R H A M A A T G Y V D L K S F Q
UniRef90_W4TY63 T L A E V L N G P S R V P D G T M N L V G G L R Q A M A T T G Y S E V K E F Q
UniRef90_ROMIE2
UniRef90_D7PDZ5 E R P S L E T V L N G P S D D G L L N L V G G L R R S M A K A G Y S D L K E F Q
UniRef90_G5B885
UniRef90_H5X7A5 Q D V D L K T L L H G P A A E G V V N L F G A L R R A L A K T G Y S D L K E F Q
UniRef90_G8SHB6 P D G S L E Q L L Y G P A A G Q V L N L F G G L R R A M A K C G Y R D V K E F Q
UniRef90_UPI000473DE9F S T G S L E R I I K G P L D D D G T H N L I G A I R T S M C T L G A K N I K E M Q
UniRef90_UPI0003613C9C Q V A P L E V I L L G P A D D G T L N L V G A L K N G M G M C G A R N I K E M H
UniRef90_X4FS86
UniRef90_X7YB95

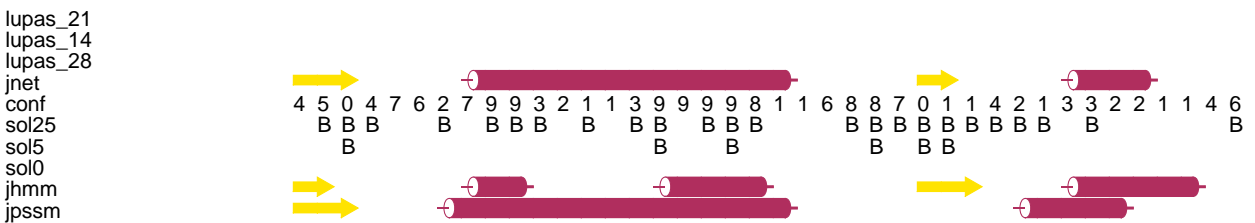
UniRef90_I0KWQ9	E R A
UniRef90_UPI00036EDBA1	D R A
UniRef90_UPI0002E2564B	E N A V V
UniRef90_V9L553	
UniRef90_G7PS42	
UniRef90_V8D140	D K A V L
UniRef90_D7GCB9	R E L V I R
UniRef90_UPI0003686315	E R A V L
UniRef90_C4LGN3	E R A
UniRef90_I6WQP5	R D V M V
UniRef90_Q0S0C9	E R A V L
UniRef90_UPI000367E43E	E R A V V
UniRef90_G3S0D3	M S A Q I
UniRef90_UPI00039A7A13	R R A V L
UniRef90_UPI00040833F8	D T V V L
UniRef90_S3WXI3	D K A V I
UniRef90_M5TRK1	
UniRef90_A0A0177X7	D K A
UniRef90_H2YEF0	
UniRef90_A9BB47	E V E V V I
UniRef90_A0A022KZH3	E R A V I
UniRef90_D1BGI9	E R A V V
UniRef90_A1SJX7	E R A V V
UniRef90_Z5X867	E R V V L
UniRef90_K9V7V2	Q V E V V I
UniRef90_M5A0F4	E R A V V
UniRef90_D7HAM2	
UniRef90_J9H5B0	E K A V I
UniRef90_W4VNOQ	
UniRef90_F7UPM2	Q V D V V I
UniRef90_Q31M58	Q V S V V I
UniRef90_UPI000255E79E	I R A V V
UniRef90_D0L8Z0	D N V V L
UniRef90_UPI0003B43CD1	S G A V V
UniRef90_N0E0A0	R V E V I V
UniRef90_C7NEZ3	R
UniRef90_V4JLJ8	E K A R F
UniRef90_UPI0003B5F21A	R V E V V V
UniRef90_D5UQF3	E R A T L
UniRef90_F5Z3N3	E R A V L
UniRef90_F5XNW9	R V E V I V
UniRef90_UPI0003B35D61	R V D V V V
UniRef90_I6XZE6	D R A V V
UniRef90_Q8DGX2	Q V E I V I
UniRef90_K6W4X1	R V E V I V
UniRef90_E8NDT7	R V E V V V
UniRef90_T1CB93	
UniRef90_K9RT79	Q V E I V I
UniRef90_UPI0002629DFF	R
UniRef90_UPI000255F1F4	K V E V L V
UniRef90_D2PSX6	R V E V V V
UniRef90_K9VGQ7	Q V E V V I
UniRef90_UPI0003B58026	R C G V V V
UniRef90_C7DII5	
UniRef90_A2BX48	N V D I V
UniRef90_W6JT81	R I D V V V
UniRef90_T5KHM2	E R A V V
UniRef90_A9WN10	R V E V V V
UniRef90_A3YY46	Q V D V V V
UniRef90_H0E0G6	R
UniRef90_UPI000369204F	T L A K V K R V
UniRef90_B3DXS1	E T E T I I
UniRef90_K9W9K7	Q V E V V I
UniRef90_C5BZW7	R V E V V V
UniRef90_A0LRT1	R V E V V V
UniRef90_D6ZUK8	R C G M V V
UniRef90_C7R190	R I E V V V
UniRef90_Q5Z1F0	K V G L S V R
UniRef90_UPI00036A4C71	R
UniRef90_W7QGC4	K T A T L
UniRef90_UPI00037CB466	E E A V I
UniRef90_UPI00031B8777	N R A V V
UniRef90_E6KUB7	R A Q V V
UniRef90_UPI000255615F	
UniRef90_F6EIH2	K V G L T V R
UniRef90_K9TDF2	Q V E V A I
UniRef90_UPI000237A5A2	K V G L M L R
UniRef90_UPI0003447477	
UniRef90_U1LPE0	R
UniRef90_H6N558	D R V
UniRef90_K8B8Q8	
UniRef90_UPI0003B5079B	R
UniRef90_W4TY63	R E L T R
UniRef90_ROMIE2	
UniRef90_D7PDZ5	K V G L S V R
UniRef90_G5B885	
UniRef90_H5X7A5	K V G L T V R
UniRef90_G8SHB6	K V A
UniRef90_UPI000473DE9F	E V E I V I
UniRef90_UPI0003613C9C	R C Q I V
UniRef90_X4FS86	
UniRef90_X7YB95	

UniRef90_Q1AXU5
UniRef90_M3VHG3
UniRef90_R7WJQ0
UniRef90_D0L7X6
UniRef90_K1XA15
UniRef90_M0QMM5
UniRef90_UPI0003714A1D
UniRef90_S4XG34
UniRef90_K2ESR6
UniRef90_UPI000478D819
UniRef90_B1MY19
UniRef90_J1HMJ9
UniRef90_C0XUU9
UniRef90_K0DE95
UniRef90_X7XY64
UniRef90_W5XQH2
UniRef90_UPI00046D6CA7
UniRef90_B7Z1G4
UniRef90_W1JUF7
UniRef90_UPI0003748522
UniRef90_K2C9H4
UniRef90_L1MKQ7
UniRef90_U2I9W4
UniRef90_W5Y617
UniRef90_D7WAP6
UniRef90_UPI000362A0E3
UniRef90_UPI000464D9D7
UniRef90_UPI000255D077
UniRef90_UPI00042BBC31

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



	50	60	70	80
UniRef90_Q1AXU5	P C L A S A L D A A V D	P T T A G I I G E L G G L	A V L N L E G I Q T R Y E D F	
UniRef90_M3VHG3	P I L N H P T D A L G S S	P E A A I E M G R L G A L	G V L D G E G L W A R R H E N V	
UniRef90_R7WJQ0	P I L A H P T D A L V S S	P S F A I E L G R R G G L	G V V N G E G L W G R H A D V	
UniRef90_D0L7X6	P I L S H P T D A L V S S	P S M A V E L G R L G A L	G V I N G E G L W A R R H R D V	
UniRef90_K1XA15	L E D S K K L L H K H R I	E K L L V V D E N Y N L	T G L I T I K D I E K I K K Y	
UniRef90_M0QMM5	P I L S H P T D A L V S S	P S V A I E L G K L G A L	G V I N G E G L W A R R H R D V	
UniRef90_UPI0003714A1D	P C V A H P S D A T M S	P A T V A E L G K A G G L	G I L N V E G L W T R Y E D P	
UniRef90_S4XG34	P V M A H P S D A V V T	P E F A V E F G K L G G L	P V I N A E G L W G R H A D L	
UniRef90_K2ESR6	P I L A A N M D S V I N E T	L A E L I T H G S M	P I F H R F T A F E E Q K K W	
UniRef90_UPI000478D819	P V M T H P S D A V V T	P D M A V E F G R F G G L	P V I N A E G L W G R H A D L	
UniRef90_B1MY19	P L V S E A N G T A T D	N R V V A T A L N G G L	G V V A E Q E D I A A Q M A V	
UniRef90_J1HMJ9	P V M A S P M D S V M S	P E T A I L V G R L G G I	G V L D L E G L W A R Y E D P	
UniRef90_C0XUU9	P L V S H P T D A L A S P	D F V I E M G K R G G L	G V L N A E G L I L A R H A S F	
UniRef90_U2I9W4	P L I S E A N G V A T D V	R Q E D I D A Q S A T L A	T A K Q T V V D F E K Y P N	
UniRef90_X7XY64	P V G T E P R K I F D L L E	H A P I D A D G T S A	G V L T R T G V I R A G I Y T	
UniRef90_W5XQH2	P V V S H A T D A L A T P	D F V I E M G K Q G G L	G V I N A E G L W G R H E D L	
UniRef90_UPI00046D6CA7	P A M A H P S D A T M S	P A T A I E M G R L G G L	G V V N A E G L W C R Y V D P	
UniRef90_B7Z1G4	P A G A N E I L Q R S K K	G K L P I V N E D D E L	V A I I A R T D L K K N R D Y	
UniRef90_W1JUF7	R E N V S Q D E A R R M L	H Q H R L E K L L V V D	D Q Y R C D M E K A V A H P L	
UniRef90_UPI0003748522	P F V S H P T D L A G S T	D F I A A M H E Q G G L	G V I N A E G L W G R Q A D L	
UniRef90_K2C9H4	K E G V S R D Q V M M L F	R Q H R I V N D Q F E L	R G M Y T V K D K S L S K P Q	
UniRef90_L1MKQ7	P F M S H P S D A L A S P	E F V I E M G K Q G G L	G V I N A E G M W G R H Y D F	
UniRef90_U2I9W4	P V C S H A S D A L A S P	E F I I E M G K Q G G L	G I I N A E G L W G R V D D L	
UniRef90_W5Y617	P F M S H P T D A L A T P	E F I I E M D K Q G G L	G V I N A E G L W G R H D D L	
UniRef90_D7WAP6	P F A S H P T D A L A S P	E F V I E M G K Q G G L	G V I N A E G L W G R H H	
UniRef90_UPI000362A0E3	P I L G H P T D A L M S P	E V A I E L G R L G A L	G V F N G E G L W A R H R	
UniRef90_UPI000464D9D7	P V V A H P T D A L V S P	E F A I E L G R L G G L	G V L N G E G L I G R H L D V	
UniRef90_UPI000255D077	P V I G A P M D S V M S	P A T A I A L G R L G G L	G V L N L E G L W T R Y E D P	
UniRef90_UPI00042BBC31	P L I S S P M D T V T E S	D M A I A M A L M G G I	G I H H N C T P E F Q A N E V	



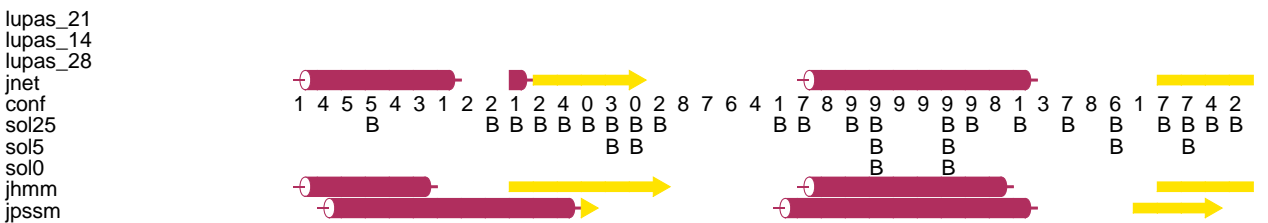
UniRef90_Q1AXU5
UniRef90_M3VHG3
UniRef90_R7VJQ0
UniRef90_D0L7X6
UniRef90_K1XA15
UniRef90_M0QMM5
UniRef90_UPI0003714A1D
UniRef90_S4XG34
UniRef90_K2ESR6
UniRef90_UPI000478D819
UniRef90_B1MY19
UniRef90_J1HMJ9
UniRef90_C0XUU9
UniRef90_K0DE95
UniRef90_X7XY64
UniRef90_W5XQH2
UniRef90_UPI00046D6CA7
UniRef90_B7Z1G4
UniRef90_W1JUF7
UniRef90_UPI0003748522
UniRef90_K2C9H4
UniRef90_L1MKQ7
UniRef90_U219W4
UniRef90_W5Y617
UniRef90_D7WAP6
UniRef90_UPI000362A0E3
UniRef90_UPI000464D9D7
UniRef90_UPI000255D077
UniRef90_UPI00042BBC31

90 100 110 120

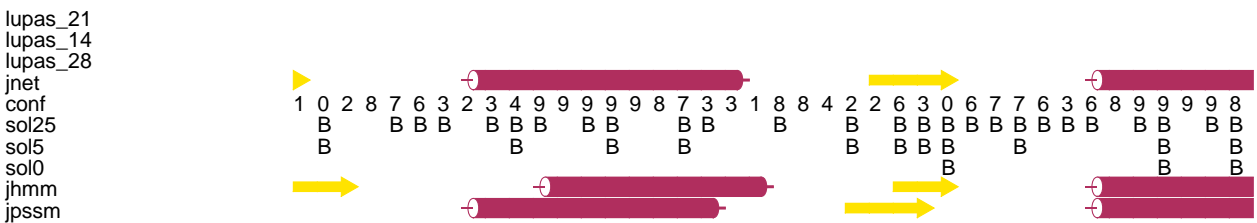
```

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

```



		130		140		150		160																																	
UniRef90_Q1AXU5	T	V	V	E	H	V	S	R	Q	A	K	P	L	N	L	M	E	F	I	P	S	L	N	V	P	V	V	V	G	G	C	A	S	Y	S	T	A	L	H	L	
UniRef90_M3VHG3	H	G	T	I	I	S	A	E	H	V	V	L	V	D	R	G	D	D	E	S	D	L	D	I	P	V	V	I	A	G	G	V	H	D	H	R	T	A	L	H	L
UniRef90_R7WJQ0	T	I	I	S	A	E	H	V	A	Q	G	D	S	E	P	L	N	L	K	T	F	I	D	V	P	V	V	A	G	G	V	S	D	H	R	T	A	L	H	L	
UniRef90_D0L7X6	H	G	T	I	I	S	A	E	H	V	A	R	R	E	P	L	N	L	K	T	F	I	D	V	P	V	I	A	G	G	V	H	D	H	R	T	A	L	H	L	
UniRef90_K1XA15	D	T	S	H	G	H	S	S	G	V	L	D	A	V	R	A	T	K	A	N	F	P	K	F	E	L	I	A	G	N	V	A	T	E	E	G	A	K	A	L	
UniRef90_M0QMM5	T	I	I	S	A	E	H	V	S	R	A	D	T	D	T	T	S	A	R	D	L	D	I	P	V	I	A	G	G	V	H	D	H	R	T	A	L	H	L		
UniRef90_UPI0003714A1D	T	L	V	S	A	E	H	V	S	T	V	D	E	P	L	N	L	K	E	F	I	A	D	L	P	V	I	V	I	G	G	C	T	N	Y	Q	T	A	L	H	L
UniRef90_S4XG34	T	A	Q	H	V	H	S	D	G	E	P	L	D	L	R	E	F	V	I	G	S	L	D	A	P	V	I	A	G	G	V	V	D	Y	S	T	A	M	H	L	
UniRef90_K2ESR6	D	V	A	H	G	H	S	D	R	M	F	R	H	I	E	E	I	K	R	T	H	S	E	K	E	V	I	A	G	N	V	C	T	A	M	A	Y	H	D	L	
UniRef90_UPI000478D819	Q	G	T	L	V	S	A	E	H	V	S	D	G	E	P	L	N	L	K	E	F	I	D	A	P	V	I	A	G	G	V	V	D	Y	T	T	A	M	H	L	
UniRef90_B1MY19	Y	L	Q	D	D	L	N	Q	E	T	N	A	L	V	K	A	V	R	K	A	F	P	K	T	F	L	A	V	I	G	A	V	E	D	Q	G	I	A	G	A	L
UniRef90_J1HMJ9	R	G	S	V	V	S	A	E	H	V	T	E	P	L	N	L	K	R	F	I	Y	E	D	V	P	V	V	V	G	G	V	T	T	Y	T	A	A	L	H	L	
UniRef90_C0XUU9	R	I	A	Q	V	R	D	A	G	V	T	V	A	V	R	V	S	P	Q	N	A	R	E	V	P	V	I	A	G	A	V	Y	D	Y	T	T	A	T	H	L	
UniRef90_K0DE95	Y	L	K	D	A	L	T	H	E	T	N	E	L	V	K	A	V	R	K	A	F	P	T	T	F	L	A	V	I	G	V	I	E	D	Q	G	I	A	G	A	L
UniRef90_X7XY64	D	T	A	H	G	H	Q	L	K	A	L	D	A	I	R	A	V	S	S	L	E	L	G	V	P	L	A	A	G	N	V	V	S	A	E	G	T	R	E	L	
UniRef90_W5XQH2	R	I	S	Q	V	R	D	S	G	V	T	V	A	V	R	V	S	P	Q	N	A	R	E	V	P	V	I	A	G	G	V	V	D	Y	T	T	A	L	H	L	
UniRef90_UPI00046D6CA7	V	S	P	Q	H	T	Q	E	Y	A	P	L	A	V	E	K	T	Y	L	S	D	L	D	V	P	V	V	V	I	G	A	T	N	Y	K	T	A	M	H	L	
UniRef90_B7Z1G4	D	S	S	Q	G	N	S	I	F	Q	I	N	M	I	K	Y	I	K	D	K	Y	P	N	L	Q	V	I	G	G	N	V	V	T	A	A	Q	A	K	N	L	
UniRef90_W1JUF7	D	T	A	H	G	H	S	R	H	V	L	H	A	V	N	R	I	K	R	L	S	N	S	V	Q	V	V	A	G	V	A	T	T	E	G	A	Q	A	L		
UniRef90_UPI0003748522	T	I	I	S	A	E	H	V	A	K	G	D	P	I	N	L	K	E	F	I	S	E	V	P	V	I	A	G	G	V	S	N	Y	T	T	A	M	H	L		
UniRef90_K2C9H4	D	T	A	H	A	H	S	K	G	V	I	E	V	I	K	W	I	R	K	H	Y	P	D	Q	Q	I	M	G	G	N	I	A	T	A	D	A	A	I	A	L	
UniRef90_L1MKQ7	Q	G	T	L	I	S	A	E	H	V	A	D	G	E	P	L	N	L	K	E	F	I	D	V	P	V	I	A	G	G	V	T	D	Y	T	T	A	L	H	L	
UniRef90_U2I9W4	R	I	A	E	V	R	E	S	G	V	T	V	A	V	R	V	S	P	Q	R	A	R	E	V	P	V	I	A	G	G	A	V	D	Y	T	T	A	L	H	L	
UniRef90_W5Y617	Q	G	T	I	V	S	A	E	H	V	E	T	G	G	E	K	E	F	I	G	S	L	D	V	P	V	I	A	G	G	V	T	T	Y	N	T	A	L	H	L	
UniRef90_D7WAP6	E	I	I	S	A	E	H	V	I	Q	E	G	G	E	P	L	N	L	K	E	F	I	G	D	V	P	V	I	A	G	G	V	A	D	Y	T	T	A	L	H	L
UniRef90_UPI000362A0E3	A	L	T	R	I	R	E	A	G	V	T	T	A	V	R	V	S	K	E	H	A	Q	R	L	T	P	T	L	L	A	V	V	H	G	T	I	A	L	H	L	
UniRef90_UPI000464D9D7	Q	G	T	I	V	S	A	E	R	V	A	D	G	E	P	L	N	L	K	T	F	I	D	V	P	V	V	A	G	G	V	L	D	H	R	T	A	L	H	L	
UniRef90_UPI000255D077	R	G	T	T	V	S	A	E	H	V	S	Q	N	D	P	L	N	L	K	E	F	I	D	V	P	V	I	V	I	G	G	A	G	Y	T	P	A	L	H	L	
UniRef90_UPI00042BBC31	T	E	T	G	K	M	G	S	K	L	V	G	I	V	K	D	Y	A	T	Y	L	S	E	V	M	T	K	R	N	D	L	V	V	A	P	A	G	V	T	L	



UniRef90_Q1AXU5 R T R H Y M N V I A D G G M R T G G D I A K A I A C G A D A V M L G S A F A R A A

UniRef90_M3VHG3 T G G R Y V H V I A D G D I H T S G D L A K A I A C G A D A A V L G T P L A A A A

UniRef90_R7WJQ0 T G G R Y V H V I A D G D I V S S G D L A K A I A C G A D A A V L G T P L A A V S

UniRef90_D0L7X6 T G G R Y V H V I A D G D I H T S G D L I K A I A C G A D A A V L G T P L A A A S

UniRef90_K1XA15

UniRef90_M0QMM5 T G G R Y V H V I A D G D I H S S G A L A T A I A C G A D A A V L G T P L A A A A

UniRef90_UPI0003714A1D T G G R Y V H L I A D G D V H T S G D I A K A L A C G A D A V M L G M P L T L M

UniRef90_S4XG34 T G G R Y V H V I A D S Q L L S S G D I A K S I A C G A D A V A L G A P L S V A

UniRef90_K2ESR6

UniRef90_UPI000478D819 T E G R Y V H V I A D S H L A T A G D V A K A I A C G A D A V S L G Q P L A M A

UniRef90_B1MY19 A S E F D K T V I A S G G V H Y S G D V V K A I S A G A D A I L V T D L L K G

UniRef90_J1HMJ9 R R G R Y V H V I A D G S V G N S G D V V K A I A C G A D A V M L G A A L A R A

UniRef90_C0XUU9 T G G R Y V H V I A D G E L Q N S G D I A A A I A C G A D A V M L G L P L A Q A

UniRef90_K0DE95 A A D F D K V V I A S G G A H Y S G D V V K A I S A G A S A I L V T D L L K G

UniRef90_X7XY64 A R Q L G G H V W A D G G T R H P R D V A L A L A A G

UniRef90_W5XQH2 R R G R Y V H I M A D D D L T S S A D M A K A I A C G A D A V V L G P L L A Q A

UniRef90_UPI00046D6CA7 T G G R Y V H L I A D G E I T N S G S I A K A L A C G A D S V M L G S V M A E A

UniRef90_B7Z1G4

UniRef90_W1JUF7

UniRef90_UPI0003748522 T G G R Y V H I L A D G E I E T S G D I A K A I A C G A D A V I L G A P L A A A

UniRef90_K2C9H4

UniRef90_L1MKQ7 T G G R Y V H L I A D G E I E T S G D V A K A I A C G A D A V M L G A P L A Q A

UniRef90_U2I9W4 T G G R Y V H I L A D G M L A N A G D L V K A I A C G A D A V V L G P L L A Q A

UniRef90_W5Y617 T G G R Y V H V I A D G S I E N S G D A V K A I A C G A D A V V L G E P L A R A

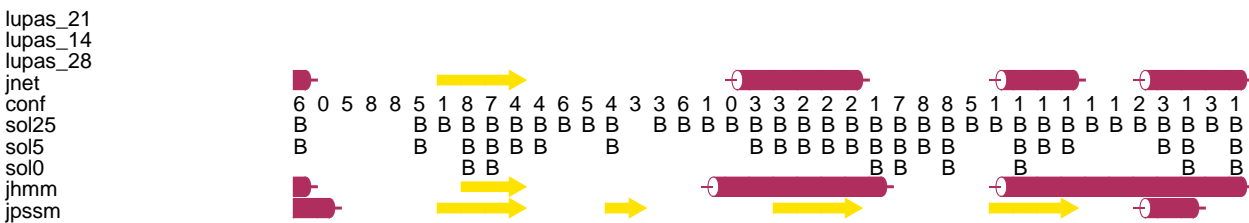
UniRef90_D7WAP6 T E G R Y V H I A D G G I H T S G D I A R A V A C G A D A V M L G T A L A S A

UniRef90_UPI000362A0E3 T G G R Y V H V I A D G D I A G S G D L A K A I A C G A D A A V L G A P L A A A

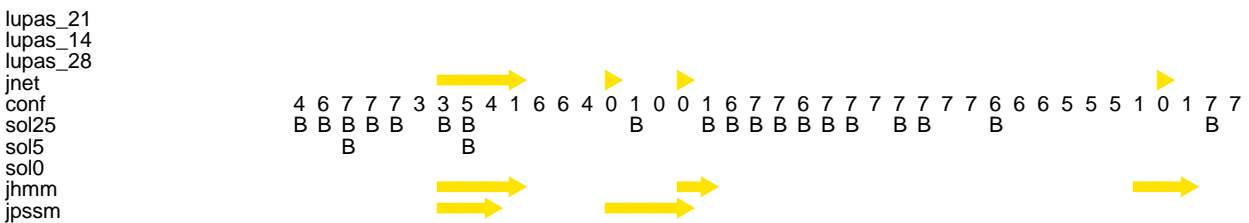
UniRef90_UPI000464D9D7 T G G R Y V H V L A D G D I H T S G E L A K A I A C G A D A V V L G T P L A E S

UniRef90_UPI000255D077

UniRef90_UPI00042BBC31 D S S Q G N S V Y Q I S M I H Y I K Q G N V V T A A Q A K H L T G V D G L R V G

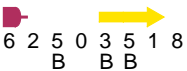


UniRef90_Q1AXU5 E E A P G K G Y S W G M A T F H P T L P R G T R I K T G T V G 250 260 270 280
UniRef90_M3VHG3 S S A P G K G W Y W P S A A A H P V T P R G A L L Q V A E E S
UniRef90_R7WJQ0 A E A P G R G W Y W P S A A A H P S V P R G A L L P V I A V G
UniRef90_D0L7X6 A S A P G R G W Y W P S A A A H P D T P R G A L L Q V A V E D
UniRef90_K1XA15
UniRef90_M0QMM5 A S A P G R G W Y W P S A A A H P D T P R G A L L Q V A T D E
UniRef90_UPI0003714A1D A N T P A G G L W W H P S A S H P K L P R G H V G S I E D A
UniRef90_S4XG34 E S S G G Q G F F W P S V A A H P K L P R G E V D A V A G T L G S L T R E T V P
UniRef90_K2ESR6
UniRef90_UPI000478D819 E S S G R G N Y W P S V A A H P A L P R G E V D A I Y G E A G P R
UniRef90_B1MY19 E V L E A D G
UniRef90_J1HMJ9 A E A P G G Y H W G A E A R H E R L P R G Y R S Y V G T V G
UniRef90_C0XUU9 T E A G G Q G Y Y W E S A A A H P R Y P R G S V E P Y D L F G
UniRef90_K0DE95 E V L S A D G T F A G G
UniRef90_X7XY64
UniRef90_W5XQH2 K E A G A R G F Y W P A V A G H P R F P R G V V E Y A G T L D F D L D A I D E S
UniRef90_UPI00046D6CA7 A E A P A M G A W W H S A A S H P K L P R G R F R S L A A A E M
UniRef90_B7Z1G4
UniRef90_W1JUF7
UniRef90_UPI0003748522 S E S P A A G H Y W Q S S A A H P R F P R G V I E R D E F A L A A E
UniRef90_K2C9H4
UniRef90_L1MKQ7 R E A A A P G Y Y W P A V A G H P R F P R G V V E P A P G R V Y E E A D
UniRef90_U2I9W4 E E A P A G G W F W P S V A G H P S F P R G Y Y S D I E L G E G V T G E D Q A F
UniRef90_W5Y617 T E A A A G G I Y W Q A S A A H P R F P R G I V I G T T G I A G D
UniRef90_D7WAP6 S E A A A Y G Y Y W Q A Q A A H P R F P R S S F S F G W G L D D A D A T Q D V E
UniRef90_UPI000362A0E3 A Q A P G R G W Y W P S V A A H P S M P R G M L T L V G D D
UniRef90_UPI000464D9D7 A E A L G E G W F W
UniRef90_UPI000255D077
UniRef90_UPI00042BBC31 M G C G S I C I T Q E G R G E L R A S R A L A A P G G E G D K V K V A




UniRef90_Q1AXU5 K A E V M V
 UniRef90_M3VHG3 K V G L S V R
 UniRef90_R7WJQ0 K V G L T V R
 UniRef90_D0L7X6 K V G
 UniRef90_K1XA15
 UniRef90_M0QMM5 K V E L V A R
 UniRef90_UPI0003714A1D R V G
 UniRef90_S4XG34 K A P L V V R
 UniRef90_K2ESR6
 UniRef90_UPI000478D819 K V Q L A V R
 UniRef90_B1MY19 L G A Q F V Q I
 UniRef90_J1HMJ9 K
 UniRef90_C0XUU9 K V G L T V
 UniRef90_K0DE95 L S A K F V Q I
 UniRef90_X7XY64
 UniRef90_W5XQH2 K V G L A V R
 UniRef90_UPI00046D6CA7 R A D L V
 UniRef90_B7Z1G4
 UniRef90_W1JUF7
 UniRef90_UPI0003748522 K
 UniRef90_K2C9H4
 UniRef90_L1MKQ7 K V Q L A I R
 UniRef90_U2I9W4 K
 UniRef90_W5Y617 K
 UniRef90_D7WAP6 K
 UniRef90_UPI000362A0E3 K V G L T V
 UniRef90_UPI000464D9D7
 UniRef90_UPI000255D077
 UniRef90_UPI00042BBC31

lupas_21
 lupas_14
 lupas_28
 jnet
 conf
 sol25
 sol5
 sol0
 jhmm
 jpssm



 6 2 5 0 3 5 1 8
 B B



 6 2 5 0 3 5 1 8
 B B