

QUERY
 UniRef90_C3AUS4
 UniRef90_E3DU77
 UniRef90_Q65NG0
 UniRef90_F5LBI1
 UniRef90_UPI00046F861E
 UniRef90_K6CF34
 UniRef90_K6CF34
 UniRef90_UPI0004721430
 UniRef90_UPI00026C5E9B
 UniRef90_I0BBZ9
 UniRef90_I8U3B9
 UniRef90_W0H471
 UniRef90_W0H471
 UniRef90_G8Q0X6
 UniRef90_G8Q0X6
 UniRef90_F3EJD4
 UniRef90_F3EJD4
 UniRef90_W8PSQ9
 UniRef90_W8PSQ9
 UniRef90_A0A023CCU2
 UniRef90_A0A023CCU2
 UniRef90_Q4KAB7
 UniRef90_Q4KAB7
 UniRef90_U7DGE9
 UniRef90_U7DGE9
 UniRef90_J2YIL8
 UniRef90_J2YIL8
 UniRef90_A1ZZ13
 UniRef90_F5T0C7
 UniRef90_F5T0C7
 UniRef90_I2BWA2
 UniRef90_I2BWA2
 UniRef90_U1SZ18
 UniRef90_U1SZ18
 UniRef90_J2SA02
 UniRef90_J2SA02
 UniRef90_K2T823
 UniRef90_K2T823
 UniRef90_S6JCH2
 UniRef90_S6JCH2
 UniRef90_S6IW79
 UniRef90_S6IW79
 UniRef90_UPI000375499A
 UniRef90_UPI000375499A
 UniRef90_L0GJK1
 UniRef90_L0GJK1
 UniRef90_I3CL58
 UniRef90_I3CL58
 UniRef90_UPI00047859AB
 UniRef90_U2ZRM9
 UniRef90_U2ZRM9
 UniRef90_UPI00025573D8
 UniRef90_UPI00025573D8
 UniRef90_W8QWC4
 UniRef90_W8QWC4
 UniRef90_A0A023WTA0
 UniRef90_A0A023WTA0
 UniRef90_U3H5U9
 UniRef90_U3H5U9
 UniRef90_B3PKT6
 UniRef90_B3PKT6
 UniRef90_UPI0003A1621A
 UniRef90_UPI0003A1621A
 UniRef90_A0A031MBH3
 UniRef90_A0A031MBH3
 UniRef90_G4WZU4
 UniRef90_B4X4H8
 UniRef90_B4X4H8
 UniRef90_M5DTW1
 UniRef90_UPI00046711E0
 UniRef90_UPI00046711E0
 UniRef90_I1YF50
 UniRef90_I1XKQ7
 UniRef90_I1XKQ7
 UniRef90_E0IA93
 UniRef90_H7ETS2
 UniRef90_H7ETS2
 UniRef90_UPI00030A2CA4
 UniRef90_UPI00030A2CA4
 UniRef90_UPI0003150799
 UniRef90_V2Q899
 UniRef90_V2Q899
 UniRef90_UPI00037FFF58
 UniRef90_R9B9Z7
 UniRef90_C1DJG6
 UniRef90_UPI0004793E14
 UniRef90_UPI0004793E14
 UniRef90_Q3M5Y2
 UniRef90_F7P085
 UniRef90_K5XAD8
 UniRef90_K5XAD8

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

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

 P G S D G A K
 P G S D G A K

 S D G T
 S D G T

 P N A S
 P N A S
 P A G T G A D
 P A G T G A D

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

 P G G T
 P G G T
 P G R T
 P G R T

 D S D G S
 D S D G S

 P G S G
 P G S G

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

 T T A G A D
 T T A G A D
 D A S
 D A S

 P G S A
 P G S A

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

 V E A D V E T D A V S N G D D A A D D P A I W L H P D D A E D S

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

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

QUERY
 UniRef90_C3AUS4
 UniRef90_E3DU77
 UniRef90_Q65NG0
 UniRef90_F5LB11
 UniRef90_UPI00046F861E
 UniRef90_K6CF34
 UniRef90_K6CF34
 UniRef90_UPI0004721430
 UniRef90_UPI00026C5E9B
 UniRef90_I0BBZ9
 UniRef90_I8U3B9
 UniRef90_W0H471
 UniRef90_W0H471
 UniRef90_G8Q0X6
 UniRef90_G8Q0X6
 UniRef90_F3EJD4
 UniRef90_F3EJD4
 UniRef90_W8PSQ9
 UniRef90_W8PSQ9
 UniRef90_A0A023CCU2
 UniRef90_A0A023CCU2
 UniRef90_Q4KAB7
 UniRef90_Q4KAB7
 UniRef90_U7DGE9
 UniRef90_U7DGE9
 UniRef90_J2YIL8
 UniRef90_J2YIL8
 UniRef90_A1ZZ13
 UniRef90_F5T0C7
 UniRef90_F5T0C7
 UniRef90_I2BWA2
 UniRef90_I2BWA2
 UniRef90_U1SZ18
 UniRef90_U1SZ18
 UniRef90_J2SA02
 UniRef90_J2SA02
 UniRef90_K2T823
 UniRef90_K2T823
 UniRef90_S6JCH2
 UniRef90_S6JCH2
 UniRef90_S6IW79
 UniRef90_S6IW79
 UniRef90_UPI000375499A
 UniRef90_UPI000375499A
 UniRef90_L0GJK1
 UniRef90_L0GJK1
 UniRef90_I3CL58
 UniRef90_I3CL58
 UniRef90_UPI00047859AB
 UniRef90_U2ZRM9
 UniRef90_U2ZRM9
 UniRef90_UPI00025573D8
 UniRef90_UPI00025573D8
 UniRef90_W8QWC4
 UniRef90_W8QWC4
 UniRef90_A0A023WTA0
 UniRef90_A0A023WTA0
 UniRef90_U3H5U9
 UniRef90_U3H5U9
 UniRef90_B3PKT6
 UniRef90_B3PKT6
 UniRef90_UPI0003A1621A
 UniRef90_UPI0003A1621A
 UniRef90_A0A031MBH3
 UniRef90_A0A031MBH3
 UniRef90_G4WZU4
 UniRef90_B4X4H8
 UniRef90_B4X4H8
 UniRef90_M5DWT1
 UniRef90_UPI00046711E0
 UniRef90_UPI00046711E0
 UniRef90_I1YF50
 UniRef90_I1XKQ7
 UniRef90_I1XKQ7
 UniRef90_E0IA93
 UniRef90_H7ETS2
 UniRef90_H7ETS2
 UniRef90_UPI00030A2CA4
 UniRef90_UPI00030A2CA4
 UniRef90_UPI0003150799
 UniRef90_V2Q899
 UniRef90_V2Q899
 UniRef90_UPI00037FFF58
 UniRef90_R9B9Z7
 UniRef90_C1DJG6
 UniRef90_UPI0004793E14
 UniRef90_UPI0004793E14
 UniRef90_Q3M5Y2
 UniRef90_F7P085
 UniRef90_K5XAD8
 UniRef90_K5XAD8

QUERY UniRef90_C3AUS4 UniRef90_E3DU77 UniRef90_Q65NG0 UniRef90_F5LB11 UniRef90_UPI00046F861E UniRef90_K6CF34 UniRef90_K6CF34 UniRef90_UPI0004721430 UniRef90_UPI00026C5E9B UniRef90_I0BBZ9 UniRef90_I8U3B9 UniRef90_W0H471 UniRef90_W0H471 UniRef90_G8Q0X6 UniRef90_G8Q0X6 UniRef90_F3EJD4 UniRef90_F3EJD4 UniRef90_W8PSQ9 UniRef90_W8PSQ9 UniRef90_A0A023CCU2 UniRef90_A0A023CCU2 UniRef90_Q4KAB7 UniRef90_Q4KAB7 UniRef90_U7DGE9 UniRef90_U7DGE9 UniRef90_J2YIL8 UniRef90_J2YIL8 UniRef90_A1ZZ13 UniRef90_F5T0C7 UniRef90_F5T0C7 UniRef90_I2BWA2 UniRef90_I2BWA2 UniRef90_U1SZ18 UniRef90_U1SZ18 UniRef90_J2SA02 UniRef90_J2SA02 UniRef90_K2T823 UniRef90_K2T823 UniRef90_S6JCH2 UniRef90_S6JCH2 UniRef90_S6IW79 UniRef90_S6IW79 UniRef90_UPI000375499A UniRef90_UPI000375499A UniRef90_L0GJK1 UniRef90_L0GJK1 UniRef90_I3CL58 UniRef90_I3CL58 UniRef90_UPI00047859AB UniRef90_U2ZRM9 UniRef90_U2ZRM9 UniRef90_UPI00025573D8 UniRef90_UPI00025573D8 UniRef90_W8QWC4 UniRef90_W8QWC4 UniRef90_A0A023WTA0 UniRef90_A0A023WTA0 UniRef90_U3H5U9 UniRef90_U3H5U9 UniRef90_B3PKT6 UniRef90_B3PKT6 UniRef90_UPI0003A1621A UniRef90_UPI0003A1621A UniRef90_A0A031MBH3 UniRef90_A0A031MBH3 UniRef90_G4WZU4 UniRef90_B4X4H8 UniRef90_B4X4H8 UniRef90_M5DXTW1 UniRef90_UPI00046711E0 UniRef90_UPI00046711E0 UniRef90_I1YF50 UniRef90_I1XKQ7 UniRef90_I1XKQ7 UniRef90_E0IA93 UniRef90_H7ETS2 UniRef90_H7ETS2 UniRef90_UPI00030A2CA4 UniRef90_UPI00030A2CA4 UniRef90_UPI0003150799 UniRef90_V2Q899 UniRef90_V2Q899 UniRef90_UPI00037FFF58 UniRef90_R9B9Z7 UniRef90_C1DJG6 UniRef90_UPI0004793E14 UniRef90_UPI0004793E14 UniRef90_Q3M5Y2 UniRef90_F7P085 UniRef90_K5XAD8 UniRef90_K5XAD8

90 100 110 120

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

QUERY
UniRef90_C3AUS4
UniRef90_E3DU77
UniRef90_Q65NG0
UniRef90_F5LB11
UniRef90_UPI00046F861E
UniRef90_K6CF34
UniRef90_K6CF34
UniRef90_UPI0004721430
UniRef90_UPI00026C5E9B
UniRef90_I0BBZ9
UniRef90_I8U3B9
UniRef90_W0H471
UniRef90_W0H471
UniRef90_G8Q0X6
UniRef90_G8Q0X6
UniRef90_F3EJD4
UniRef90_F3EJD4
UniRef90_W8PSQ9
UniRef90_W8PSQ9
UniRef90_A0A023CCU2
UniRef90_A0A023CCU2
UniRef90_Q4KAB7
UniRef90_Q4KAB7
UniRef90_U7DGE9
UniRef90_U7DGE9
UniRef90_J2YIL8
UniRef90_J2YIL8
UniRef90_A1ZZ13
UniRef90_F5T0C7
UniRef90_F5T0C7
UniRef90_I2BWA2
UniRef90_I2BWA2
UniRef90_U1SZ18
UniRef90_U1SZ18
UniRef90_J2SA02
UniRef90_J2SA02
UniRef90_K2T823
UniRef90_K2T823
UniRef90_S6JCH2
UniRef90_S6JCH2
UniRef90_S6IW79
UniRef90_S6IW79
UniRef90_UPI000375499A
UniRef90_UPI000375499A
UniRef90_L0GJK1
UniRef90_L0GJK1
UniRef90_I3CL58
UniRef90_I3CL58
UniRef90_UPI00047859AB
UniRef90_U2ZRM9
UniRef90_U2ZRM9
UniRef90_UPI00025573D8
UniRef90_UPI00025573D8
UniRef90_W8QWC4
UniRef90_W8QWC4
UniRef90_A0A023WTA0
UniRef90_A0A023WTA0
UniRef90_U3H5U9
UniRef90_U3H5U9
UniRef90_B3PKT6
UniRef90_B3PKT6
UniRef90_UPI0003A1621A
UniRef90_UPI0003A1621A
UniRef90_A0A031MBH3
UniRef90_A0A031MBH3
UniRef90_G4WZU4
UniRef90_B4X4H8
UniRef90_B4X4H8
UniRef90_M5DTW1
UniRef90_UPI00046711E0
UniRef90_UPI00046711E0
UniRef90_I1YF50
UniRef90_I1XKQ7
UniRef90_I1XKQ7
UniRef90_E0IA93
UniRef90_H7ETS2
UniRef90_H7ETS2
UniRef90_UPI00030A2CA4
UniRef90_UPI00030A2CA4
UniRef90_UPI0003150799
UniRef90_V2Q899
UniRef90_V2Q899
UniRef90_UPI00037FFF58
UniRef90_R9B9Z7
UniRef90_C1DJG6
UniRef90_UPI0004793E14
UniRef90_UPI0004793E14
UniRef90_Q3M5Y2
UniRef90_F7P085
UniRef90_K5XAD8
UniRef90_K5XAD8

130 140 150 160
P I A T A N E V Y G F F S L Y H S Q K T T G K Y Y A M V T G K E G E F F Q Q Y E L F
UniRef90_C3AUS4 P I Q S T S M K E E V Y G F F S L Y H S Q K T T G K Y Y A M V T G K E G E F F Q Q Y E L F
UniRef90_E3DU77 P I S T S G T L E E E V Y G F F S L Y H S Q K T T G K F F Y A L V V T G G K K Q G G T F F F Q Q Y E L F
UniRef90_Q65NG0 P I S T Q T D T E E E V Y G F F S L Y H S Q K T T G K F F Y A M V T G G K K N Q G G E F F F Q Q Y E L F
UniRef90_F5LB11 P I K S D M G E E E V Y G F F S L Y H S Q K T T G K F Y A L V L L G G K K E G G E F F F Q Q Y E L F
UniRef90_UPI00046F861E P I K A K M E E E V V A G G L L Y R D E A S N N L F V F L V L G G K K E G G E F F F Q Q Y E L A
UniRef90_K6CF34 P V Y V P V R D V A G L L Y R D E A S N N L F V F L V L G G K K E G G E F F F Q Q W L V V G
UniRef90_K6CF34 P V Y V P V R D V A G L L Y R D E A S N N L F V F L V L G G K K E G G E F F F Q Q W L V V G
UniRef90_UPI0004721430 P I V S S G M S E E V Y G F F S L Y H S Q K T T G K F F Y A L V L L G G K K E G G E F F F Q Q Y E L Y
UniRef90_UPI00026C5E9B P I K S S K M G E E V Y G F F S L Y H S Q K T T G K F Y A L V L L G G K K E G G E F F F Q Q Y E L A
UniRef90_I0BBZ9 P I K S S K M G E E V Y G F F S L Y H S Q K T T G K F Y A L V L L G G K K E G G E F F F Q Q Y E L A
UniRef90_I8U3B9 F A K M K V V Y G F F S L Y H S Q K T T G K F Y A L I S G G K Y E G G E F F F Q Q Y E L F
UniRef90_W0H471 P V Y L P A R D V T G L L Y R D E A S N N L F F L F L V V G G D E E G K G G E Q Q W L V V G
UniRef90_W0H471 P V Y L P A R D V T G L L Y R D E A S N N L F F L F L V V G G D E E G K G G E Q Q W L V V G
UniRef90_G8Q0X6 P L Y L P A R D V N G L L Y R D E A S N N L L F F V F L V V G G E E E G K G G E Q Q W L V V G
UniRef90_G8Q0X6 P L Y L P A R D V N G L L Y R D E A S N N L L F F V F L V V G G E E E G K G G E Q Q W L V V G
UniRef90_F3EJD4 P V Y L P A R D V A G L L Y R D D A S N N L L F F V F L V V G G E E E G K G G E Q Q W L I G G
UniRef90_F3EJD4 P V Y L P A R D V A G L L Y R D D A S N N L L F F V F L V V G G E E E G K G G E Q Q W L I G G
UniRef90_W8PSQ9 P L Y L P T R D V N G L L Y R D E A S N N L L F F V F L I G G E E E G K G G E Q Q W L V V G
UniRef90_W8PSQ9 P L Y L P T R D V N G L L Y R D E A S N N L L F F V F L I G G E E E G K G G E Q Q W L V V G
UniRef90_A0A023CCU2 P L Y L P P R D V N G L L Y R D G A A N N L L F F V F L V V G G E E E G K G G E Q Q W L V V G
UniRef90_A0A023CCU2 P L Y L P P R D V N G L L Y R D G A A N N L L F F V F L V V G G E E E G K G G E Q Q W L V V G
UniRef90_Q4KAB7 P L Y L P T R D V N G L L Y R D E A S N N L L F F L F L V V G G E E E G K G G E Q Q W L V V G
UniRef90_Q4KAB7 P L Y L P T R D V N G L L Y R D E A S N N L L F F L F L V V G G E E E G K G G E Q Q W L V V G
UniRef90_U7DGE9 P V Y L P T R D V N G L L Y R D E A S N N L L F L F L V V G G E E E G K G G E Q Q W L V V G
UniRef90_U7DGE9 P V Y L P T R D V N G L L Y R D E A S N N L L F L F L V V G G E E E G K G G E Q Q W L V V G
UniRef90_J2YIL8 P L Y L P A R D V N G L L Y R D E A S N N L L F L F L V V G G E E E G K G G E Q Q W L V V G
UniRef90_J2YIL8 P L Y L P A R D V N G L L Y R D E A S N N L L F L F L V V G G E E E G K G G E Q Q W L V V G
UniRef90_A1ZZ13 E L P S K V E E V Y G F F S L Y K S A Q T Q Q F Y A F V V S K T G Q V E Q Q W E L F
UniRef90_F5T0C7 Y L P K P A F K I E G V V L L Y Q D E A Q N G G F L F L V V G G E E Q Q G Q G G E Q Q W L V A
UniRef90_F5T0C7 Y L P K P A F K I E G V V L L Y Q D E A Q N G G F L F L V V G G E E Q Q G Q G G E Q Q W L V A
UniRef90_I2BWA2 P L Y L P P R D V N S L L Y R D D A T A N N L F F V F L V V G G E E E G K G G E Q Q W L V V G
UniRef90_I2BWA2 P L Y L P P R D V N S L L Y R D D A T A N N L F F V F L V V G G E E E G K G G E Q Q W L V V G
UniRef90_U1SZ18 P L Y L P T R D V N G L L F R D A A A N N L L F F V F L V V G G D E E G K G G E Q Q W L V V G
UniRef90_U1SZ18 P L Y L P T R D V N G L L F R D A A A N N L L F F V F L V V G G D E E G K G G E Q Q W L V V G
UniRef90_J2SA02 P V Y L P T R D V N G L L Y R D E A S N N L L F L F L V V G G E E E G K G G E Q Q W L V V G
UniRef90_J2SA02 P V Y L P T R D V N G L L Y R D E A S N N L L F L F L V V G G E E E G K G G E Q Q W L V V G
UniRef90_K2T823 P V Y L P T R D V A G L L Y R D D G A S N N L L F F V F L V V G G E E E G K G G E Q Q W L I G G
UniRef90_K2T823 P V Y L P T R D V A G L L Y R D D G A S N N L L F F V F L V V G G E E E G K G G E Q Q W L I G G
UniRef90_S6JCH2 Y L P T R D Y S V E G V L L Y Q D D A S N N I Y L F T V V G G E E E G K G G E Q Q W L V A
UniRef90_S6JCH2 Y L P T R D Y S V E G V L L Y Q D D A S N N I Y L F T V V G G E E E G K G G E Q Q W L V A
UniRef90_S6IW79 P V Y L P T R D V N G L L Y R D E A S N N L L F L F L V V G G E E E G K G G E Q Q W L V V G
UniRef90_S6IW79 P V Y L P T R D V N G L L Y R D E A S N N L L F L F L V V G G E E E G K G G E Q Q W L V V G
UniRef90_UPI000375499A A I V K T D A L L E E G M C C A Y T S P L D D G E S Y A F L L T S S G Q Q I E Q Q W A I T T
UniRef90_UPI000375499A A I V K T D A L L E E G M C C A Y T S P L D D G E S Y A F L L T S S G Q Q I E Q Q W A I T T
UniRef90_L0GJK1 A F A I E E G L L Y R D S A R R N D F V F L L G G E E G V G G E Q Q W L V V G
UniRef90_L0GJK1 A F A I E E G L L Y R D S A R R N D F V F L L G G E E G V G G E Q Q W L V V G
UniRef90_I3CL58 P I K P S S I S L L D G M L L Y R S P L T N R Y Y S Y V M D G D G A I E Q Q W E L L
UniRef90_I3CL58 P I K P S S I S L L D G M L L Y R S P L T N R Y Y S Y V M D G D G A I E Q Q W E L L
UniRef90_UPI00047859AB Y P A F S S P Y G V M Y R S L R S N A T Y V F A T S G M G E I E Q Q W Q L F
UniRef90_U2ZRM9 S L A L P A R D Y T G L L Y R D E A A N N L L Y L F L V V G G E E G R G G E Q Q W L V V G
UniRef90_U2ZRM9 S L A L P A R D Y T G L L Y R D E A A N N L L Y L F L V V G G E E G R G G E Q Q W L V V G
UniRef90_UPI00025573D8 T L A L P A R D V A G L L Y R D E A A N N L L F L F L V V G G E E E G R G G E Q Q W L V V G
UniRef90_UPI00025573D8 T L A L P A R D V A G L L Y R D E A A N N L L F L F L V V G G E E E G R G G E Q Q W L V V G
UniRef90_W8QWC4 D F A I E E G L L F R D A A A R N S S F V F L V V G G E E E G I G G E Q Q W L V A
UniRef90_W8QWC4 D F A I E E G L L F R D A A A R N S S F V F L V V G G E E E G I G G E Q Q W L V A
UniRef90_A0A023WTA0 A F A I E E G L L Y R D S A R R N D F V F L L G G E E G V G G E Q Q W L V V G
UniRef90_A0A023WTA0 A F A I E E G L L Y R D S A R R N D F V F L L G G E E G V G G E Q Q W L V V G
UniRef90_U3H5U9 P L Q L P A R D V A G L L Y R D D A R N N L Y L F L V V G G E D G H G G E Q Q W L V G
UniRef90_U3H5U9 P L Q L P A R D V A G L L Y R D D A R N N L Y L F L V V G G E D G H G G E Q Q W L V G
UniRef90_B3PKT6 P S F K P E N L L S Q D A N R A L S M Y L L D E R G M A E H W L V
UniRef90_B3PKT6 P S F K P E N L L S Q D A N R A L S M Y L L D E R G M A E H W L V
UniRef90_UPI0003A1621A L P T T D Y K V E N L L Y R D E V Q N L L F V F L I G G E E G I G G E Q Q W L V A
UniRef90_UPI0003A1621A L P T T D Y K V E N L L Y R D E V Q N L L F V F L I G G E E G I G G E Q Q W L V A
UniRef90_A0A031MBH3 R I E N L L Y Q D E S H N L H L F V I G G E E G M G D Q Q W L V G
UniRef90_A0A031MBH3 R I E N L L Y Q D E S H N L H L F V I G G E E G M G D Q Q W L V G
UniRef90_G4WZU4 P L P E Y G L M F K D Q Q G A Y A I V N D K S G R F L Q Y R L Q
UniRef90_B4X4H8 K I D G L L H R D A R H N D F L F V V V G E E G L G E Q Q W L V A
UniRef90_B4X4H8 K I D G L L H R D A R H N D F L F V V V G E E G L G E Q Q W L V A
UniRef90_M5DTW1 E I D T N L D E Y G L L H R D A R H N N E F Y I F I N D Q D G R F F Q Y S V T
UniRef90_UPI00046711E0 A V N G G Q Q L Y R D A S A N L Y L F L V V G E N G Q G G E Q Q W L V G
UniRef90_UPI00046711E0 A V N G G Q Q L Y R D A S A N L Y L F L V V G E N G Q G G E Q Q W L V G
UniRef90_I1YF50 I A T S D D I Y G L L Y Q N D Q S Q Y A I A N D K D G R F F Q Y L L S
UniRef90_I1XKQ7 Y L P Q P A F K I D G A L L Y Q D Q A H N G F L F L V V G E E G H G G E Q Q W L V A
UniRef90_I1XKQ7 Y L P Q P A F K I D G A L L Y Q D Q A H N G F L F L V V G E E G H G G E Q Q W L V A
UniRef90_E0IA93 P L H S N M G E V Y G F S L Y H S Q R T G K F Y A L V L G G K A G E F F E Q Y E L Y
UniRef90_H7ETS2 A F A I E E G L L Y R D S A R R N D F V F L V V G G E E G V G G E Q Q W L V A
UniRef90_H7ETS2 A F A I E E G L L Y R D S A R R N D F V F L V V G G E E G V G G E Q Q W L V A
UniRef90_UPI00030A2CA4 P M Y L P T R D V N G V L L Y R D S A S N N M Y L F T V V G E E G K G G E Q Q W L V A
UniRef90_UPI00030A2CA4 P M Y L P T R D V N G V L L Y R D S A S N N M Y L F T V V G E E G K G G E Q Q W L V A
UniRef90_UPI0003150799 P Y S T S S R S A Y G L T M Y R S P I T N S D Q S L Y S F F I G E E E G V G G E Q Q W M I Q
UniRef90_V2Q899 K F K T E D N L Y L T S D Q S L Y S F F I G E E E G V G G E Q Q W M I Q
UniRef90_V2Q899 K F K T E D N L Y L T S D Q S L Y S F F I G E E E G V G G E Q Q W M I Q
UniRef90_UPI00037FFF58 P F R E I Y G L L Y K D P Q G A I H A I A N D K N G T F L Q Y R L T
UniRef90_R9B9Z7 P L P T T L E D I Y G I L L Y R D A Q P G G E L Y A F A N G K D G S F R Q Q Y R L Y
UniRef90_C1DJG6 E I S T P L A E I Y G I L L Y R D A Q P G G E L Y A F A N G K D G S F R Q Q Y R L Y
UniRef90_UPI0004793E14 P L G F A A E G I L L F R S P Q Q D G A L Q A F I V G D G G E I D Q Q Q V I H
UniRef90_UPI0004793E14 P L G F A A E G I L L F R S P Q Q D G A L Q A F I V G D G G E I D Q Q Q V I H
UniRef90_Q3M5Y2 P Y S S S S R S A Y G L A L L Y R S P F T N D S Y Y V F V N R R T G D I A Q L K L I
UniRef90_F7P085 K V P T S M K E I E Y G L L Y K D A K R G S H Y V F V N D K S G L V G E Q Q Y R I N
UniRef90_K5XAD8 T F A I E E G L L F R D A G R N D F L F L V V G E E G V G G E Q Q W L V G
UniRef90_K5XAD8 T F A I E E G L L F R D A G R N D F L F L V V G E E G V G G E Q Q W L V G

QUERY UniRef90_C3AUS4 UniRef90_E3DU77 UniRef90_Q65NG0 UniRef90_F5LB11 UniRef90_UPI00046F861E UniRef90_K6CF34 UniRef90_K6CF34 UniRef90_UPI0004721430 UniRef90_UPI00026C5E9B UniRef90_I0BBZ9 UniRef90_I8U3B9 UniRef90_W0H471 UniRef90_W0H471 UniRef90_G8Q0X6 UniRef90_G8Q0X6 UniRef90_F3EJD4 UniRef90_F3EJD4 UniRef90_W8PSQ9 UniRef90_W8PSQ9 UniRef90_A0A023CCU2 UniRef90_A0A023CCU2 UniRef90_Q4KAB7 UniRef90_Q4KAB7 UniRef90_U7DGE9 UniRef90_U7DGE9 UniRef90_J2YIL8 UniRef90_J2YIL8 UniRef90_A1ZZ13 UniRef90_F5T0C7 UniRef90_F5T0C7 UniRef90_I2BWA2 UniRef90_I2BWA2 UniRef90_U1SZ18 UniRef90_U1SZ18 UniRef90_J2SA02 UniRef90_J2SA02 UniRef90_K2T823 UniRef90_K2T823 UniRef90_S6JCH2 UniRef90_S6JCH2 UniRef90_S6IW79 UniRef90_S6IW79 UniRef90_UPI000375499A UniRef90_UPI000375499A UniRef90_L0GJK1 UniRef90_L0GJK1 UniRef90_I3CL58 UniRef90_I3CL58 UniRef90_UPI00047859AB UniRef90_U2ZRM9 UniRef90_U2ZRM9 UniRef90_UPI00025573D8 UniRef90_UPI00025573D8 UniRef90_W8QWC4 UniRef90_W8QWC4 UniRef90_A0A023WTA0 UniRef90_A0A023WTA0 UniRef90_U3H5U9 UniRef90_U3H5U9 UniRef90_U3H5U9 UniRef90_B3PKT6 UniRef90_B3PKT6 UniRef90_UPI0003A1621A UniRef90_UPI0003A1621A UniRef90_A0A031MBH3 UniRef90_A0A031MBH3 UniRef90_G4WZU4 UniRef90_B4X4H8 UniRef90_B4X4H8 UniRef90_M5DTW1 UniRef90_UPI00046711E0 UniRef90_UPI00046711E0 UniRef90_I1YF50 UniRef90_I1XKQ7 UniRef90_I1XKQ7 UniRef90_E0IA93 UniRef90_H7ETS2 UniRef90_H7ETS2 UniRef90_UPI00030A2CA4 UniRef90_UPI00030A2CA4 UniRef90_UPI0003150799 UniRef90_V2Q899 UniRef90_V2Q899 UniRef90_UPI00037FFF58 UniRef90_R9B9Z7 UniRef90_C1DJG6 UniRef90_UPI0004793E14 UniRef90_UPI0004793E14 UniRef90_Q3M5Y2 UniRef90_F7P085 UniRef90_K5XAD8 UniRef90_K5XAD8

170 180 190 200

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

QUERY UniRef90_C3AUS4 UniRef90_E3DU77 UniRef90_Q65NG0 UniRef90_F5LB11 UniRef90_UPI00046F861E UniRef90_K6CF34 UniRef90_K6CF34 UniRef90_UPI0004721430 UniRef90_UPI00026C5E9B UniRef90_I0BBZ9 UniRef90_I8U3B9 UniRef90_W0H471 UniRef90_W0H471 UniRef90_G8Q0X6 UniRef90_G8Q0X6 UniRef90_F3EJD4 UniRef90_F3EJD4 UniRef90_W8PSQ9 UniRef90_W8PSQ9 UniRef90_A0A023CCU2 UniRef90_A0A023CCU2 UniRef90_Q4KAB7 UniRef90_Q4KAB7 UniRef90_U7DGE9 UniRef90_U7DGE9 UniRef90_J2YIL8 UniRef90_J2YIL8 UniRef90_A1ZZ13 UniRef90_F5T0C7 UniRef90_F5T0C7 UniRef90_I2BWA2 UniRef90_I2BWA2 UniRef90_U1SZ18 UniRef90_U1SZ18 UniRef90_J2SA02 UniRef90_J2SA02 UniRef90_K2T823 UniRef90_K2T823 UniRef90_S6JCH2 UniRef90_S6JCH2 UniRef90_S6IW79 UniRef90_S6IW79 UniRef90_UPI000375499A UniRef90_UPI000375499A UniRef90_L0GJK1 UniRef90_L0GJK1 UniRef90_I3CL58 UniRef90_I3CL58 UniRef90_UPI00047859AB UniRef90_U2ZRM9 UniRef90_U2ZRM9 UniRef90_UPI00025573D8 UniRef90_UPI00025573D8 UniRef90_W8QWC4 UniRef90_W8QWC4 UniRef90_A0A023WTA0 UniRef90_A0A023WTA0 UniRef90_U3H5U9 UniRef90_U3H5U9 UniRef90_B3PKT6 UniRef90_B3PKT6 UniRef90_UPI0003A1621A UniRef90_UPI0003A1621A UniRef90_A0A031MBH3 UniRef90_A0A031MBH3 UniRef90_G4WZU4 UniRef90_G4WZU4 UniRef90_B4X4H8 UniRef90_B4X4H8 UniRef90_M5DTW1 UniRef90_UPI00046711E0 UniRef90_UPI00046711E0 UniRef90_I1YF50 UniRef90_I1XKQ7 UniRef90_I1XKQ7 UniRef90_E0IA93 UniRef90_H7ETS2 UniRef90_H7ETS2 UniRef90_UPI00030A2CA4 UniRef90_UPI00030A2CA4 UniRef90_UPI0003150799 UniRef90_V2Q899 UniRef90_V2Q899 UniRef90_UPI00037FFF58 UniRef90_R9B9Z7 UniRef90_C1DJG6 UniRef90_UPI0004793E14 UniRef90_UPI0004793E14 UniRef90_Q3M5Y2 UniRef90_F7P085 UniRef90_K5XAD8 UniRef90_K5XAD8

QUERY G K G Y L M A S S Q G N S S Y A V I Y D R Q G K N K Y V A D F R I T D G P E T D G 250 260 270 280
 UniRef90_C3AUS4 GT G Y L T A S S Q G N N S Y A V I Y D R K G S N N E Y I G N F A I V D G K N A D G
 UniRef90_E3DU77 G K G Y I M A S S Q G N N S Y A I Y E R R Q G S N D K Y I A N F E I T D D G K E I D G
 UniRef90_Q65NG0 G E G Y L T A S S Q G D N N R Y A I Y D R R G K N D Y V A D F S I T D D G K E I D G
 UniRef90_F5LB11 G K G Y L M A S S Q G S S T Y A V I Y N R R Q G T N R Y L G S F A V K D G L I D G
 UniRef90_UPI00046F861E G H G Y L T A S S Q G S S D S Y A I Y D R E G N N A Y L T S F K L A D G P L T D G
 UniRef90_K6CF34 L L A L D P K G K A L H L Y Q Q Q Q A
 UniRef90_K6CF34 L L A L D P K G K A L H L Y Q Q Q Q A
 UniRef90_UPI0004721430 G D G Y L L A S S Q G S S Y A V I Y D R E D A D Y K G S F V I A D G P K I D G
 UniRef90_UPI00026C5E9B G K G Y L M A S S Q G N S S Y A I Y E R R Q S D N A Y I S N F T I S A S P T V D G
 UniRef90_I0BBZ9 G Q G Y L T A S S Q G S S Y A V I Y K R E G A N E Y V S S F T I E D G E S V D G
 UniRef90_I8U3B9 G K G H L I A S S Q G N N S Y N I Y D R S G I N S Y I G S F S I D D G K V D G
 UniRef90_W0H471 L L A L D P K G K A L H L Y Q Q Q S D S E E
 UniRef90_W0H471 L L A L D P K G K A L H L Y Q Q Q S D S E E
 UniRef90_G8Q0X6 L L G L D P E T A Q L H V Y Q R Q E A G W S A K A N L P L A G
 UniRef90_G8Q0X6 L L G L D P E T A Q L H V Y Q R Q E A G W S A K A N L P L A G
 UniRef90_F3EJD4 L L A L D P K G K A L H L Y Q Q Q D S L E S W T P V A D L S L M S
 UniRef90_F3EJD4 L L A L D P K G K A L H L Y Q Q Q D S L E S W T P V A D L S L M S
 UniRef90_W8PSQ9
 UniRef90_W8PSQ9
 UniRef90_A0A023CCU2
 UniRef90_A0A023CCU2
 UniRef90_Q4KAB7
 UniRef90_Q4KAB7
 UniRef90_U7DGE9 L V A L D P K A A Q L H V Y Q Q Q G E H W S A Q A T L A L P G
 UniRef90_U7DGE9 L V A L D P K A A Q L H V Y Q Q Q G E H W S A Q A T L A L P G
 UniRef90_J2YIL8
 UniRef90_J2YIL8
 UniRef90_A1ZZ13 K K G Y L T A S S Q G N N S Y A V F D R G E G N A Y L G S F R I G N S D K I D G
 UniRef90_F5T0C7 L L V L D A K A N V L H T Y D N K G S W Q H Q S E F A L H N
 UniRef90_F5T0C7 L L V L D A K A N V L H T Y D N K G S W Q H Q S E F A L H N
 UniRef90_I2BWA2
 UniRef90_I2BWA2
 UniRef90_U1SZ18
 UniRef90_U1SZ18
 UniRef90_J2SA02 I V A L D P K A A Q L H L Y Q Q Q G
 UniRef90_J2SA02 I V A L D P K A A Q L H L Y Q Q Q G
 UniRef90_K2T823 L L A L D P K G K S L H L Y
 UniRef90_K2T823 L L A L D P K G K S L H L Y
 UniRef90_S6JCH2 M L G L D P E A A Q L N L Y Q Q Q G K R W S P V A S L A L A G
 UniRef90_S6JCH2 M L G L D P E A A Q L N L Y Q Q Q G K R W S P V A S L A L A G
 UniRef90_S6IW79 V L G L D P K A A Q L H L Y Q Q Q G E R W Q T V A A L P L P G
 UniRef90_S6IW79 V L G L D P K A A Q L H L Y Q Q Q G E R W Q T V A A L P L P G
 UniRef90_UPI000375499A G Q T V L F A S D V E S S M I N L Y D V E D E H R F I G Q T S F K G A G N V D G
 UniRef90_UPI000375499A G Q T V L F A S D V E S S M I N L Y D V E D E H R F I G Q T S F K G A G N V D G
 UniRef90_L0GJK1 L L A L D A E A P A L H L Y R Q S E S G W Q A D G
 UniRef90_L0GJK1 L L A L D A E A P A L H L Y R Q S E S G W Q A D G
 UniRef90_I3CL58 G D G Y L I A A N Q G S S N F L V Y K R T T G N V F V G S F K L V A S N G V G A
 UniRef90_I3CL58 G D G Y L I A A N Q G S S N F L V Y K R T T G N V F V G S F K L V A S N G V G A
 UniRef90_UPI00047859AB G T G Y L I A S S Q G D D S F A V Y G R E G A N V Y L G S F V V H A G N G I D G
 UniRef90_U2ZRM9 V L A L D V G A G K L H L Y Q R Q G E T W K A A G K V D L P G
 UniRef90_U2ZRM9 V L A L D V G A G K L H L Y Q R Q G E T W K A A G K V D L P G
 UniRef90_UPI00025573D8 L L V L D P S A R A L H L Y Q Q Q G E H W R S V G P V Q L P G
 UniRef90_UPI00025573D8 L L V L D P S A R A L H L Y Q Q Q G E H W R S V G P V Q L P G
 UniRef90_W8QWC4 L L A L D P E A G A L H L Y G R D A D T W N A V A S L P L P G
 UniRef90_W8QWC4 L L A L D P E A G A L H L Y G R D A D T W N A V A S L P L P G
 UniRef90_A0A023WTA0 L L A L D P E A P A L H L Y R Q G E S G W Q A D G V I A L D G Q V S A
 UniRef90_A0A023WTA0 L L A L D P E A P A L H L Y R Q G E S G W Q A D G V I A L D G Q V S A
 UniRef90_U3H5U9 L L A L D P A A A R L H L Y Q Q Q G V T W N A V A S L P L P G
 UniRef90_U3H5U9 L L A L D P A A A R L H L Y Q Q Q G V T W N A V A S L P L P G
 UniRef90_B3PKT6 Q E K H W V
 UniRef90_B3PKT6 Q E K H W V
 UniRef90_UPI0003A1621A
 UniRef90_UPI0003A1621A
 UniRef90_A0A031MBH3 L L A L D A D A R Q L H R Y R L T E N G W L A G
 UniRef90_A0A031MBH3 L L A L D A D A R Q L H R Y R L T E N G W L A G
 UniRef90_G4WZU4 Q H S Y L V V S S Q G N S S Y L V L D A L P Y T L R G A F R I G A A A G I D G
 UniRef90_B4X4H8
 UniRef90_B4X4H8
 UniRef90_M5DTW1 A V Y L I V S S Q G N D S Y V V F D A E A P Y E Y K G R F R V G M N K N I D G
 UniRef90_UPI00046711E0
 UniRef90_UPI00046711E0
 UniRef90_I1YF50 G S Y L V V S S Q G N D S F V V L D S T P Y T Y H G A F R I G F N T E I D G
 UniRef90_I1XKQ7 L F V L D S E A K Q L H T F D T D G K W Q H Q A E F R L N D K N L T I M
 UniRef90_I1XKQ7 L F V L D S E A K Q L H T F D T D G K W Q H Q A E F R L N D K N L T I M
 UniRef90_E0IA93 G E G Y L I A S S Q G S S Y A I F D R E N S N P Y L G S F M I G D G D D T D G
 UniRef90_H7ETS2 L L A L D P E A P A L H L Y R Q T Q D G W K A D G V V A D E P E Q I S
 UniRef90_H7ETS2 L L A L D P E A P A L H L Y R Q T Q D G W K A D G V V A D E P E Q I S
 UniRef90_UPI00030A2CA4 M L G L D P K A G Q L N L Y Q Q Q G K R W S P V A S L T L K G
 UniRef90_UPI00030A2CA4 M L G L D P K A G Q L N L Y Q Q Q G K R W S P V A S L T L K G
 UniRef90_UPI0003150799 G T G Y L M A S S Q G D N T F A V Y N R Q G N N D Y I G Q F A V G A N G G I D S
 UniRef90_V2Q899
 UniRef90_V2Q899
 UniRef90_UPI00037FFF58 G D Y L V V S S Q G N D S Y L V L D A H A P Y A V R G A F R V G I N A G I D G
 UniRef90_R9B9Z7 K S Y L V V S S Q G N D S F V V V D S K A P Y T V R G A F R V G I N K G I D A
 UniRef90_C1DJG6 A H D Y L V V S S Q G N D S Y L V L D A E P P H A L K G A F R V G L N V G I D G
 UniRef90_UPI0004793E14 G S R W L L A G D A S A G H V N V Y D R D R D D A W L G A F V V A A P D G G A
 UniRef90_UPI0004793E14 G S R W L L A G D A S A G H V N V Y D R D R D D A W L G A F V V A A P D G G A
 UniRef90_Q3M5Y2 G T G Y L L A S S Q G E N T F V A Y T R E G N N D Y I G S F A V G N N G A I D S
 UniRef90_F7P085 G A S Y L V V S S Q G N D S Y I I Y D A A P Y T E R L R F R V T T N P G I D G
 UniRef90_K5XAD8
 UniRef90_K5XAD8

QUERY T S D T D G I D V L G F G L G P E Y P F G I F V A Q D G E N I D H G Q K A N Q N 290 300 310 320
 UniRef90_C3AUS4 T S D T D G I D V M S F G L G E K Y P N G I F L A Q D G E N M D H G K I V N Q N
 UniRef90_E3DU77 T S D T D G I D V I G F G L G A K Y P N G I F V A Q D G K N T E N G Q A V N Q N
 UniRef90_Q65NG0 T S D T D G I D V I G F G L G K K Y P Y G I F V A Q D G E N T E N G Q P A N Q N
 UniRef90_F5LB11 T T E T D G I D V V G F G L G P A Y P N G I F V A Q D D E N T D N G K K R N Q N
 UniRef90_UPI00046F861E T S V T D G I D V L G F G L G E Q F P Y G L F I A Q D D S N I N N G K E L N Q N
 UniRef90_K6CF34
 UniRef90_K6CF34
 UniRef90_UPI0004721430 T S E T D G I D V L S F G L G D A Y P K G I F I A Q D D Q N L Q D G A V I N Q N
 UniRef90_UPI00026C5E9B T S F T D G I D V L G Y G L G K N F P H G I F V A Q D D E N L Q N G K K L N Q N
 UniRef90_I0BBZ9 T T E T D G I D V I G F G L G V K Y P Q G I F V A Q D D A N E K D G E E L N Q N
 UniRef90_I8U3B9 T N D T D G I D V I S F E L A K E F P N G L F I A Q D G E N M D G D K K L N Q N
 UniRef90_W0H471
 UniRef90_W0H471
 UniRef90_G8Q0X6 L K E P E S L A A
 UniRef90_G8Q0X6 L K E P E S L A A
 UniRef90_F3EJD4 L K K P E G L S V
 UniRef90_F3EJD4 L K K P E G L S V
 UniRef90_W8PSQ9
 UniRef90_W8PSQ9
 UniRef90_A0A023CCU2
 UniRef90_A0A023CCU2
 UniRef90_Q4KAB7
 UniRef90_Q4KAB7
 UniRef90_U7DGE9 L I E P E N L A L R S T D K G L Q V L L R D D D D G R L Y E G E L N
 UniRef90_U7DGE9 L I E P E N L A L R S T D K G L Q V L L R D D D D G R L Y E G E L N
 UniRef90_J2YIL8
 UniRef90_J2YIL8
 UniRef90_A1ZZ13 T S D T D G I D V V S F G L G K Q F P N G F F I A Q D G T N D E A D G K A N Q N
 UniRef90_F5T0C7 V L E P E G I S A
 UniRef90_F5T0C7 V L E P E G I S A
 UniRef90_I2BWA2
 UniRef90_I2BWA2
 UniRef90_U1SZ18
 UniRef90_U1SZ18
 UniRef90_J2SA02
 UniRef90_J2SA02
 UniRef90_K2T823
 UniRef90_K2T823
 UniRef90_S6JCH2 V V E P E H L A L R Q T P L G L Q L L V Q D G
 UniRef90_S6JCH2 V V E P E H L A L R Q T P L G L Q L L V Q D G
 UniRef90_S6IW79 L V E P E N L A V Q A T A K G
 UniRef90_S6IW79 L V E P E N L A V Q A T A K G
 UniRef90_UPI000375499A V D N A G A L S A G G G Y L A L A D E D N G D D A T N
 UniRef90_UPI000375499A V D N A G A L S A G G G Y L A L A D E D N G D D A T N
 UniRef90_L0GJK1 V L P L D G L D
 UniRef90_L0GJK1 V L P L D G L D
 UniRef90_I3CL58 V E E T N G I A V S N V A F N S D F P T G L F V A Q D D S N G N T P L N
 UniRef90_I3CL58 V E E T N G I A V S N V A F N S D F P T G L F V A Q D D S N G N T P L N
 UniRef90_UPI00047859AB I T H T D G I D V N N S A L G A S F P G G L F V V Q D S S N D G Q H Q N
 UniRef90_U2ZRM9 L E E P E R L A V
 UniRef90_U2ZRM9 L E E P E R L A V
 UniRef90_UPI00025573D8 V K E P E H I A V Q S T A A G
 UniRef90_UPI00025573D8 V K E P E H I A V Q S T A A G
 UniRef90_W8QWC4
 UniRef90_W8QWC4
 UniRef90_A0A023WTA0 R R T Q E G V E L L L A D E R G L H S A R L A W Q P T A L A Q P
 UniRef90_A0A023WTA0 R R T Q E G V E L L L A D E R G L H S A R L A W Q P T A L A Q P
 UniRef90_U3H5U9 L E E P E R I A V A T S A Q G T D L L V Q D D
 UniRef90_U3H5U9 L E E P E R I A V A T S A Q G T D L L V Q D D
 UniRef90_B3PKT6
 UniRef90_B3PKT6
 UniRef90_UPI0003A1621A
 UniRef90_UPI0003A1621A
 UniRef90_A0A031MBH3 T V E P E R I A A H S A N G Q N Q L L L V D G D D G N
 UniRef90_A0A031MBH3 T V E P E R I A A H S A N G Q N Q L L L V D G D D G N
 UniRef90_G4WZU4 A S E T D G L E V T A A N L G A P W Q H G M L V V Q D G R N R L P E Q T Q N
 UniRef90_B4X4H8
 UniRef90_B4X4H8
 UniRef90_M5DTW1 A S E T D G L A V T S I P L N K D Y P Q G L L V V Q D G R N L L P N E K Q N
 UniRef90_UPI00046711E0
 UniRef90_UPI00046711E0
 UniRef90_I1YF50 V S E T D G L D V I S A N L G G E W A Q G I L V V Q D G R N R M P V E K Q N
 UniRef90_I1XKQ7 V Q H D D G L
 UniRef90_I1XKQ7 V Q H D D G L
 UniRef90_E0IA93 T S D T D G I D V L N Y D L G D E F S N G L F V A Q D D E N M E N G V A I N Q N
 UniRef90_H7ETS2 A R R T D G I E L L L A D E R G L H R A R L A W Q P Q A L A Q T
 UniRef90_H7ETS2 A R R T D G I E L L L A D E R G L H R A R L A W Q P Q A L A Q T
 UniRef90_UPI00030A2CA4 V T E P E H L A L R E T P K G L D V V Q D G
 UniRef90_UPI00030A2CA4 V T E P E H L A L R E T P K G L D V V Q D G
 UniRef90_UPI0003150799 V Q E S D G A D V I N V P L G A N F P N G V F I T Q D G S N E P G G E N I S T N
 UniRef90_V2Q899
 UniRef90_V2Q899
 UniRef90_UPI00037FFF58 A S E T D G L E V T S A N L G G I W S R G M L V V Q D G R K R M P E G A Q N
 UniRef90_R9B9Z7 V S E T D G L D V S S K D F G G K W K Q G M L V V Q D G R K R M P E S N Q N
 UniRef90_C1DJG6 A S E T D G L E I V S A D L G G P W S T G L L V V Q D G R K R M P E R T Q N
 UniRef90_UPI0004793E14 V E E P G L L A A T G L P L G K S F P H G A L L V V D E D A A D T
 UniRef90_UPI0004793E14 V E E P G L L A A T G L P L G K S F P H G A L L V V D E D A A D T
 UniRef90_Q3M5Y2 V Q E S D G A D V V N V P L G A N F P F G L F V T Q D G D N Q P A G E N V N A N
 UniRef90_F7P085 A S E T D G L E V T T R S L G P G F E Q G A L I V Q D G R N R M P E Q G Q N
 UniRef90_K5XAD8
 UniRef90_K5XAD8

QUERY F K I V P W E R I A D Q I G F R P L A N E Q V D P R K L T D R S
UniRef90_C3AUS4 F K M I D W K R I A K G F D S K L Q I E N N V D P R K L K F R S
UniRef90_E3DU77 F K I V P W E R I A K A P I G A A L D V K K Q A D P R R L K D R S
UniRef90_Q65NG0 F K I V S W E K I A D A L D D K P D I D D Q V N P R K L K K R A
UniRef90_F5LB11 F K I V S W D K L A K S F H A P L R I D N G I D P R K L S P R
UniRef90_UPI00046F861E F K V V A W D Q I A K G A K T P L L M D N K V N P R E L V D R S

UniRef90_K6CF34 F K L V K W D A I S K A F G D D L D I D N E V N P R K L K D R
UniRef90_UPI0004721430 F K M V P W E Q I A K G A R I P L T V D D G I N P R E L V N R
UniRef90_UPI00026C5E9B F K I V P W E A V A K G L N A P A A A A Q V D P R Q L V K R
UniRef90_I0BBZ9 F K I V R W E K I S R A L P G I L L D N T V N P R H L K
UniRef90_I8U3B9

UniRef90_W0H471
UniRef90_W0H471
UniRef90_G8Q0X6
UniRef90_G8Q0X6
UniRef90_F3EJD4
UniRef90_F3EJD4
UniRef90_W8PSQ9
UniRef90_W8PSQ9
UniRef90_A0A023CCU2
UniRef90_A0A023CCU2
UniRef90_Q4KAB7
UniRef90_Q4KAB7
UniRef90_U7DGE9
UniRef90_U7DGE9
UniRef90_J2YIL8
UniRef90_J2YIL8

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

UniRef90_A1ZZ13
UniRef90_F5T0C7
UniRef90_F5T0C7
UniRef90_I2BWA2
UniRef90_I2BWA2
UniRef90_U1SZ18
UniRef90_U1SZ18
UniRef90_J2SA02
UniRef90_J2SA02
UniRef90_K2T823
UniRef90_K2T823
UniRef90_S6JCH2
UniRef90_S6JCH2
UniRef90_S6IW79
UniRef90_S6IW79

UniRef90_UPI000375499A F K L V S M T T L A D A F G F K L K A S A G E D P
UniRef90_UPI000375499A F K L V S M T T L A D A F G F K L K A S A G E D P

UniRef90_LOGJK1
UniRef90_LOGJK1
UniRef90_I3CL58
UniRef90_I3CL58
UniRef90_UPI00047859AB
UniRef90_U2ZRM9
UniRef90_U2ZRM9
UniRef90_UPI00025573D8
UniRef90_UPI00025573D8
UniRef90_W8QWC4
UniRef90_W8QWC4

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

UniRef90_A0A023WTA0 E P I V S L P A A V E T G P V P S L G D A A D D P A W V H P R N
UniRef90_A0A023WTA0 E P I V S L P A A V E T G P V P S L G D A A D D P A W V H P R N

UniRef90_U3H5U9
UniRef90_U3H5U9
UniRef90_B3PKT6
UniRef90_B3PKT6
UniRef90_UPI0003A1621A
UniRef90_UPI0003A1621A
UniRef90_A0A031MBH3
UniRef90_A0A031MBH3

Y K Y L P W S A I A E A L Q L

UniRef90_G4WZU4
UniRef90_B4X4H8
UniRef90_B4X4H8
UniRef90_M5DTW1
UniRef90_UPI00046711E0
UniRef90_UPI00046711E0

F K Y V S W Q E I Q S S L N

UniRef90_I1YF50
UniRef90_I1XKQ7
UniRef90_I1XKQ7

Y K Y L P W S A V T E A L N L K

UniRef90_E0IA93 F K L V E W D N I S D E F S S L V E T L D S V D P R E L E E R
UniRef90_H7ETS2 A P I I S L P A A A E T D A V P S L G D A A D D P A W V H P R N
UniRef90_H7ETS2 A P I I S L P A A A E T D A V P S L G D A A D D P A W V H P R N

UniRef90_UPI00030A2CA4
UniRef90_UPI00030A2CA4
UniRef90_UPI0003150799
UniRef90_V2Q899
UniRef90_V2Q899

F K F V P W E N I A N A F P A P L T I D T T Y N P R N P V

UniRef90_UPI00037FFF58
UniRef90_R9B9Z7
UniRef90_C1DJG6
UniRef90_UPI0004793E14
UniRef90_UPI0004793E14
UniRef90_Q3M5Y2
UniRef90_F7P085
UniRef90_K5XAD8
UniRef90_K5XAD8

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

UniRef90_A4XZP4
UniRef90_A4XZP4
UniRef90_D5VH79
UniRef90_D5VH79
UniRef90_V2TRH3
UniRef90_UPI0004657838
UniRef90_UPI0004657838
UniRef90_K9QTP5
UniRef90_N9L314
UniRef90_N9L314
UniRef90_I315K5
UniRef90_L1LZP7
UniRef90_L1LZP7
UniRef90_UPI0004766835
UniRef90_UPI0004766835
UniRef90_I1E1V2
UniRef90_K9Q8D9
UniRef90_K9WRZ5
UniRef90_Q9A8Q8
UniRef90_Q9A8Q8
UniRef90_B2J0G2
UniRef90_A0A031GK21
UniRef90_A0A031GK21
UniRef90_J2GSE1
UniRef90_J2GSE1
UniRef90_UPI00034752AA
UniRef90_UPI00034752AA
UniRef90_D4TJZ6
UniRef90_B7K675
UniRef90_UPI0003472324
UniRef90_T2H7J8
UniRef90_T2H7J8
UniRef90_Q1N3F8
UniRef90_Q1N3F8
UniRef90_UPI00046FB2DA
UniRef90_UPI00046FB2DA
UniRef90_U7FX28
UniRef90_U7FX28
UniRef90_UPI0003828584
UniRef90_UPI0003828584
UniRef90_B1WZU4
UniRef90_K9UGH4
UniRef90_K6Y583
UniRef90_K6Y583
UniRef90_K8GGJ8
UniRef90_B5JT97
UniRef90_B5JT97
UniRef90_W8TPH5
UniRef90_K9XC55
UniRef90_E3QKG4
UniRef90_E3QKG4
UniRef90_Q21DH5
UniRef90_L2GAU9
UniRef90_R4YKX4
UniRef90_J3P700
UniRef90_J3P700
UniRef90_K6YYV8
UniRef90_K6YYV8
UniRef90_E5A9A0
UniRef90_E5A9A0
UniRef90_K2K3K7
UniRef90_E3SAY2
UniRef90_E3SAY2
UniRef90_G7FX99
UniRef90_G7FX99
UniRef90_B8EAE1
UniRef90_B8EAE1
UniRef90_W1YUA7
UniRef90_W1YUA7
UniRef90_A0A016Q262
UniRef90_A0A016Q262
UniRef90_B6HRY4
UniRef90_B6HRY4
UniRef90_C7Z624
UniRef90_C7Z624
UniRef90_Q5B5P0
UniRef90_Q5B5P0
UniRef90_K9E4K5
UniRef90_F0U5X4
UniRef90_F0U5X4
UniRef90_UPI0002DC50F9
UniRef90_UPI0002DC50F9
UniRef90_F4KZR0
UniRef90_UPI0004765775
UniRef90_G1XN29
UniRef90_G1XN29
UniRef90_F4AH81
UniRef90_F4AH81
UniRef90_D4NYD6
UniRef90_UPI0003FEE555
UniRef90_UPI0003FEE555
UniRef90_B8CGU9

1 10 20 30 40

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

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

A Q V T V A P V G A T T P A A Q G G A N A A A L L Y N A A D P T K S
A Q V T V A P V G A T T P A A Q G G A N A A A L L Y N A A D P T K S

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

GRW
GRW

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

A E I L P T V A P T V E T R P T L L N N D D A D D P A I Y V H P D D A A N S

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

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

W L S N N N W
W L S N N N W
H K G S Q A Q P
H K G S Q A Q P
N Q W
N Q W

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

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

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

UniRef90_A4XZP4
UniRef90_A4XZP4
UniRef90_D5VH79
UniRef90_D5VH79
UniRef90_V2TRH3
UniRef90_UPI0004657838
UniRef90_UPI0004657838
UniRef90_K9QTP5
UniRef90_N9L314
UniRef90_N9L314
UniRef90_I3I5K5
UniRef90_L1LZP7
UniRef90_L1LZP7
UniRef90_UPI0004766835
UniRef90_UPI0004766835
UniRef90_I1E1V2
UniRef90_K9Q8D9
UniRef90_K9WRZ5
UniRef90_Q9A8Q8
UniRef90_Q9A8Q8
UniRef90_B2J0G2
UniRef90_A0A031GK21
UniRef90_A0A031GK21
UniRef90_J2GSE1
UniRef90_J2GSE1
UniRef90_UPI00034752AA
UniRef90_UPI00034752AA
UniRef90_D4TJZ6
UniRef90_B7K675
UniRef90_UPI0003472324
UniRef90_T2H7J8
UniRef90_T2H7J8
UniRef90_Q1N3F8
UniRef90_Q1N3F8
UniRef90_UPI00046FB2DA
UniRef90_UPI00046FB2DA
UniRef90_U7FX28
UniRef90_U7FX28
UniRef90_UPI0003828584
UniRef90_UPI0003828584
UniRef90_B1WZU4
UniRef90_K9UGH4
UniRef90_K6Y583
UniRef90_K6Y583
UniRef90_K8GGJ8
UniRef90_B5JT97
UniRef90_B5JT97
UniRef90_W8TPH5
UniRef90_K9XC55
UniRef90_E3QKG4
UniRef90_E3QKG4
UniRef90_Q21DH5
UniRef90_L2GAU9
UniRef90_R4YKX4
UniRef90_J3P700
UniRef90_J3P700
UniRef90_K6YV8
UniRef90_K6YV8
UniRef90_E5A9A0
UniRef90_E5A9A0
UniRef90_K2K3K7
UniRef90_E3SAY2
UniRef90_E3SAY2
UniRef90_G7FX9
UniRef90_G7FX9
UniRef90_B8EAE1
UniRef90_B8EAE1
UniRef90_W1YUA7
UniRef90_W1YUA7
UniRef90_A0A016Q262
UniRef90_A0A016Q262
UniRef90_B6HRY4
UniRef90_B6HRY4
UniRef90_C7Z624
UniRef90_C7Z624
UniRef90_Q5B5P0
UniRef90_Q5B5P0
UniRef90_K9E4K5
UniRef90_F0U5X4
UniRef90_F0U5X4
UniRef90_UPI0002DC50F9
UniRef90_UPI0002DC50F9
UniRef90_F4KZR0
UniRef90_UPI0004765775
UniRef90_G1XN29
UniRef90_G1XN29
UniRef90_F4AH81
UniRef90_F4AH81
UniRef90_D4NYD6
UniRef90_UPI0003FEE555
UniRef90_UPI0003FEE555
UniRef90_B8CGU9

UniRef90_A4XZP4 D A E G L L L A S V D 90 100 110 120
UniRef90_A4XZP4 D A E G L L L A S V D I D R Q Q P M L V A L R G A E R R
UniRef90_D5VH79 D G A R A L L I A A L D D R K A G R L R L L F A R D Y A S G A T T A L D A R
UniRef90_D5VH79 D G A R A L L I A A L D D R K A G R L R L L F A R D Y A S G A T T A L D A R
UniRef90_V2TRH3 D G Q R V D L A V A T N R D H H N S L R L F A I E K K T G H V S E I G Q A Q
UniRef90_UPI0004657838 G P N R V A D V V A T I D T T G N Y L R L R L F L H G A D G L V E A G A R
UniRef90_UPI0004657838 G P N R V A D V V A T I D T T G N Y L R L R L F L H G A D G L V E A G A R
UniRef90_K9QTP5 G G Q K I D I A V A S D R R N D K L A I F K I N P D N N Y L E D I T D F T Q
UniRef90_N9L314 I I Q T T D L L Q Q R P V I F R F D L N T G T A K P V Y L A A R
UniRef90_N9L314 I I Q T T D L L Q Q R P V I F R F D L N T G T A K P V Y L A A R
UniRef90_I3I5K5 G K K V V D L A V A T N R D D N S L S I Y T I D P R S G K L A F S G
UniRef90_L1LZP7 Q H A L L V A S V D T K R Q Q A L L V Q L H R D T G W S T P L Y L P K R
UniRef90_L1LZP7 Q H A L L V A S V D T K R Q Q A L L V Q L H R D T G W S T P L Y L P K R
UniRef90_UPI0004766835 A T I A G V E A T P T L Y L L R D N A K R V E R L A T L A S
UniRef90_UPI0004766835 A T I A G V E A T P T L Y L L R D N A K R V E R L A T L A S
UniRef90_I1E1V2 Q G A Q H D I A V A S D R E N D Q Q L A I F K I N P N G A Y L L E D I T D F S P
UniRef90_K9Q8D9 G N Q T I D I A V A S D R E N D Q Q L A I F K I N P N G A Y L L E D I T D F S P
UniRef90_K9WRZ5 G G Q T V D I A I A S D R E N D Q Q L A I F K I N P N G A Y L L E D I T D F S P
UniRef90_Q9A8Q8 D G P R A L V V A L D R Q A G R L R L F A R D Y A S G A I A A V D A R P L
UniRef90_Q9A8Q8 D G P R A L V V A L D R Q A G R L R L F A R D Y A S G A I A A V D A R P L
UniRef90_B2J0G2 G N Q S I D I A V A S D R Q N D K L A I F K I N P N G Y L E N I T D F F E P
UniRef90_A0A031GK21 N G G K V L A V F L E A D T Q R P L P V S V D V Q A G K L N R L A P F
UniRef90_A0A031GK21 N G G K V L A V F L E A D T Q R P L P V S V D V Q A G K L N R L A P F
UniRef90_J2GSE1 D L I A V L D R K D G R L R L S R Y D F T T G A A A S L D A R P L T L
UniRef90_J2GSE1 D L I A V L D R K D G R L R L S R Y D F T T G A A A S L D A R P L T L
UniRef90_UPI00034752AA A D G A L A V V L E A D T Q R P L L A V M V D L K A G E L R A Q A P F P V
UniRef90_UPI00034752AA A D G A L A V V L E A D T Q R P L L A V M V D L K A G E L R A Q A P F P V
UniRef90_D4TJZ6 G G E K I D I A V A S D R Q N D K L A V I F K I N P K G N Y L E N I T D F V V A
UniRef90_B7K675 G G N S I D I A I A S D R Q N D I L A I F K I D P M T R L L E S I V S P V G
UniRef90_UPI0003472324 G G H P V D I A V A T D R N N D K L A I F K I N S Q S P N Y L E D I T D S S F
UniRef90_T2H7J8 T G L M V A T V D K K R Q Q A L L A R F D A Q S G W G A P R Y L P N T
UniRef90_T2H7J8 T G L M V A T V D K K R Q Q A L L A R F D A Q S G W G A P R Y L P N T
UniRef90_Q1N3F8
UniRef90_Q1N3F8
UniRef90_UPI00046FB2DA A G A E V Q A V V F D A D Q Q Q N W I L Q V E P Q Q I R I S R K L T
UniRef90_UPI00046FB2DA A G A E V Q A V V F D A D Q Q Q N W I L Q V E P Q Q I R I S R K L T
UniRef90_U7FX28 R V D D K G V V V Q L V T V D T A S N E A V L F T R L A Q
UniRef90_U7FX28 R V D D K G V V V Q L V T V D T A S N E A V L F T R L A Q
UniRef90_UPI0003828584 G A N T L A V I V D A N A E Q A V P I L L V D T N A G T L T A Q A
UniRef90_UPI0003828584 G A N T L A V I V D A N A E Q A V P I L L V D T N A G T L T A Q A
UniRef90_B1WZU4 D G E S I D I A V V S D R N N D T L V I F E I D P T T Q Q L T D I T S P N F
UniRef90_K9UGH4 G G Q K I D I A V A S D R N N D K L A I F K I N P A G N Y Q L L E N I T D F T A
UniRef90_K6Y583 G N K N V G L I V T H D T N A E R I L V L T L D W Q T Q Q L S L L T
UniRef90_K6Y583 G N K N V G L I V T H D T N A E R I L V L T L D W Q T Q Q L S L L T
UniRef90_K8GGJ8 G C E T V D L A I A T D R R N D K V V I F R I N P N D S Q T D L T D I S S D V
UniRef90_B5JT97 Y D I E N N Q P V F I R I S S D A D K
UniRef90_B5JT97 Y D I E N N Q P V F I R I S S D A D K
UniRef90_W8TPH5 G G K T V D I A T A S H R D H N A T I S A V F A I A P D S G E V S L L G E
UniRef90_K9XC55 G D R C V D L A I A S D R N P D S S I L R V Y Y Q I A P D T T R E L P A F T E I E S
UniRef90_E3QKG4 K D L A V T I A M P D S S I L R V Y Y Q I A P D T T R E L P A F T E I E S
UniRef90_E3QKG4 K D L A V T I A M P D S S I L R V Y Y Q I A P D T T R E L P A F T E I E S
UniRef90_Q21DH5 N Q K A Q D I A I A S N R S D N T L T V Y T L N N G H V K Q V A N
UniRef90_L2GAU9 G N R T I D L A F A A C R D D D T L C L F E M T S N G T L K N I A G G V Q
UniRef90_R4YKX4 K G L P A D I L A A A S Q R D N R S I A L F H I S P V D G G V A S A V N
UniRef90_J3P700 G G G E K G K A A A G D V I I T I A Q T D A I I R V F D A V S F E Q I
UniRef90_J3P700 G G G E K G K A A A G D V I I T I A Q T D A I I R V F D A V S F E Q I
UniRef90_K6YYV8 G D Q T F G L I A A L D S N L L G Q V L I I K L D W K T K K L S E L T R F K R
UniRef90_K6YYV8 G D Q T F G L I A A L D S N L L G Q V L I I K L D W K T K K L S E L T R F K R
UniRef90_E5A9A0 K T G R S K I A V P V Y D I A G R D V V V N I P A P D S L M R I F D A R A G
UniRef90_E5A9A0 K T G R S K I A V P V Y D I A G R D V V V N I P A P D S L M R I F D A R A G
UniRef90_K2K3K7 G G Q T L D I A A A S H R D H N S I Q V L F A I A P A P D S L M R I F D A R A G
UniRef90_E3SAY2 G G R D L I V N V P S P D S S I R V F D A K T S K L V E S N D K K L
UniRef90_E3SAY2 G G R D L I V N V P S P D S S I R V F D A K T S K L V E S N D K K L
UniRef90_G7FX9 A L S S N A F L V A S I D N N Q D N V A I F K L Q N K T W Q L S E L T
UniRef90_G7FX9 A L S S N A F L V A S I D N N Q D N V A I F K L Q N K T W Q L S E L T
UniRef90_B8EAE1 L A F S D P Y A L T L D R K A D R V R I M L K E I N G K P T T N V L P
UniRef90_B8EAE1 L A F S D P Y A L T L D R K A D R V R I M L K E I N G K P T T N V L P
UniRef90_W1YUA7 S A Q Q F L L A S I D K S Q D N V A I F K L N G Q T W Q I N E L S R I S P P
UniRef90_W1YUA7 S A Q Q F L L A S I D K S Q D N V A I F K L N G Q T W Q I N E L S R I S P P
UniRef90_A0A016Q262 K D V L V T I A Q P D S S V L R V Y K M P E F K Q I K D A D F
UniRef90_A0A016Q262 K D V L V T I A Q P D S S V L R V Y K M P E F K Q I K D A D F
UniRef90_B6HRY4 K D L I V S I A A P D S S I I R V F D I D G T T E I P S A
UniRef90_B6HRY4 K D L I V S I A A P D S S I I R V F D I D G T T E I P S A
UniRef90_C7Z624 K D L L V T I A Q P D S S V V R V F E M P D F K Q I K D A D F
UniRef90_C7Z624 K D L L V T I A Q P D S S V V R V F E M P D F K Q I K D A D F
UniRef90_Q5B5P0 R D L V V S I A A P D S S I I R V F D V N G L G E I P S
UniRef90_Q5B5P0 R D L V V S I A A P D S S I I R V F D V N G L G E I P S
UniRef90_K9E4K5 E G Q R V D L A T Q R D E Q A M V L Y T I D A G G E L A D P G E A A
UniRef90_F0U5X4 K D V I V S I A A T D S V L R V Y E V A D P G E R P S
UniRef90_F0U5X4 K D V I V S I A A T D S V L R V Y E V A D P G E R P S
UniRef90_UPI0002DC50F9 A E N T F L V A S I D N E H H H V A I F K L T N T N G N W Q L T T H S A I
UniRef90_UPI0002DC50F9 A E N T F L V A S I D N E H H H V A I F K L T N T N G N W Q L T T H S A I
UniRef90_F4KZR0 N G E H V D L V G C S E R S K N E I Y L Y S I Q S Q D G T L R P L K A E K L V
UniRef90_UPI0004765775 G D A K V D I A G S T N R A E N S I Q V F A I N G P E D R S L R I D D G T L V
UniRef90_G1XN29 G E D R D F V V T L S M S D G M F R V F E V D G K N G V R G L K A E K L V
UniRef90_G1XN29 G E D R D F V V T L S M S D G M F R V F E V D G K N G V R G L K A E K L V
UniRef90_F4AH81 A N K K W D L L A T V D N E S G A A L L I G L D W Q N Q A F K L L T T T I T H
UniRef90_F4AH81 A N K K W D L L A T V D N E S G A A L L I G L D W Q N Q A F K L L T T T I T H
UniRef90_D4NYD6 N G K K V D I A A A S N R S E G K N T T E I Y A I D G K N G T L Q S I T D P D R
UniRef90_UPI0003FEE555 N N S T Y L L A T I D N D Q D N V V I F K L Q Q A N N E L T R I S P P Q A
UniRef90_UPI0003FEE555 N N S T Y L L A T I D N D Q D N V V I F K L Q Q A N N E L T R I S P P Q A
UniRef90_B8CGU9 G G E Y R D I A V A S N R D R N S L S I F N I N E H G K L T Q L A E Q

UniRef90_A4XZP4 R W G E P V V Y L P R G L L 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_A4XZP4 R W G E P V V Y L P R G L L 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_D5VH79 P L L L G Y S G E E G L L 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_D5VH79 P L L L G Y S G E E G L L 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_V2TRH3 P L L L G Y S G E E G L L 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_UPI0004657838 P L P L G F F A A E E G L L 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_UPI0004657838 P L P L G F F A A E E G L L 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_K9QTP5 P T F P N S I E A Y G L 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_N9L314 S F K T E D N 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_N9L314 S F K T E D N 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_I3I5K5 S V A T D M K E I Y G L 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_L1LZP7 D F P V I E 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_L1LZP7 D F P V I E 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_UPI0004766835 P N F L 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_UPI0004766835 P N F L 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_U1E1V2 K V A T N M V D I Y G L 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_K9Q8D9 P Y S S D E R S A Y G L 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_K9WRZ5 P Y E P S S E L S A Y 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_Q9A8Q8 Q L G Y S S G E 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_Q9A8Q8 Q L G Y S S G E 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_B2J0G2 P Y S A S T R S S Y G L 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_A0A031GK21 P V P T F S V E A 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_A0A031GK21 P V P T F S V E A 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_J2GSE1 G Y A G E 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_J2GSE1 G Y A G E 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_UPI00034752AA P G F 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_UPI00034752AA P G F 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_D4TJZ6 P Y S S S S R S A Y G L 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_B7K675 Q V S N G T T T A Y G L 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_UPI0003472324 P Y S P S E R S A Y G L 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_T2H7J8 R Y A 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_T2H7J8 R Y A 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_Q1N3F8 G M 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_Q1N3F8 G M 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_UPI00046FB2DA P V S F A L Q S S Q 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_UPI00046FB2DA P V S F A L Q S S Q 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_U7FX28 R V P A P E Y E I T G F 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_U7FX28 R V P A P E Y E I T G F 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_UPI0003828584 P F P A P A F G I E A A 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_UPI0003828584 P F P A P A F G I E A A 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_B1WZU4 G V D D G E A T A Y G L 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_K9UGH4 P F S A S A T S A Y G L 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_K6Y583 T L P K T D A Q I E A L 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_K6Y583 T L P K T D A Q I E A L 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_K8GGJ8 P Y S T S T R S A Y G L 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_B5JT97 V S V S P L S S P N G L 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_B5JT97 V S V S P L S S P N G L 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_W8TPH5 V S V S P L S S P N G L 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_K9XC55 P L D D G E Q T A Y G L 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_E3QKG4 A Q T T M L G D W S A L 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_E3QKG4 A Q T T M L G D W S A L 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_Q21DH5 I A T M L G N D V Y G V 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_L2GAU9 P V V E D Y K V Y G S 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_R4YKX4 E L I T T G L D E V Y G 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_J3P700 P T L T S P T V T L G I 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_J3P700 P T L T S P T V T L G I 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_K6YV8 P S A Q I E S L 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_K6YV8 P S A Q I E S L 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_E5A9A0 K Q V D S L G D W S T A 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_E5A9A0 K Q V D S L G D W S T A 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_K2K3K7 I P T P L G D W S A 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_E3SAY2 L G D W S S A 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_E3SAY2 L G D W S S A 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_G7FXY9 R I I S P Q A Q P D T V 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_G7FXY9 R I I S P Q A Q P D T V 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_B8EAE1 L L P M G H F E I N W I 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_B8EAE1 L L P M G H F E I N W I 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_W1YUA7 P Q A Q P D A V L F K N A D N K T I S A F V P D V R 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_W1YUA7 P Q A Q P D A V L F K N A D N K T I S A F V P D V R 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_A0A016Q262 K V L G D W S A L S W K S P A G N D Y V Y L F G K G Q A V Q L L L R 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_A0A016Q262 K V L G D W S A L S W K S P A G N D Y V Y L F G K G Q A V Q L L L R 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_B6HRY4 Q I K A L G D W S S L T W R S P S S G G H Y F Y L L G K K E A R Q F 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_B6HRY4 Q I K A L G D W S S L T W R S P S S G G H Y F Y L L G K K E A R Q F 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_C7Z624 K V L G D W S A L S W K S D A G N D Y V Y L F G K G Q A V Q L L L R 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_C7Z624 K V L G D W S A L S W K S D A G N D Y V Y L F G K G Q A V Q L L L R 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_Q5B5P0 T R K K A L G D W S A L S W K S S S G G K Y F Y L L G K K Q G I Q F L V R 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_Q5B5P0 T R K K A L G D W S A L S W K S S S G G K Y F Y L L G K K Q G I Q F L V R 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_K9E4K5 R L P T G L G D I Y G T L Y R T P E G L D A F V N D K D G R A Y E H W Q I T 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_F0U5X4 N R K V M L G D W S A L P W R S P K T G N Q Y F Y L F G K K R A V Q F I I R 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_F0U5X4 N R K V M L G D W S A L P W R S P K T G N Q Y F Y L F G K K R A V Q F I I R 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_UPI0002DC50F9 I T P Q A K P E A V C C L F N N L N T G S I S A F V A D V R G L M T E T L V Y 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_UPI0002DC50F9 I T P Q A K P E A V C C L F N N L N T G S I S A F V A D V R G L M T E T L V Y 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_F4KZR0 P I K S S V D E V Y G F C C L F N N L N T G S I S A F V A D V R G L M T E T L V Y 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_UPI0004765775 T S G P G S T E V Y G F S L Y H S C S T G R F Y A V C G L Y D G T V E Q W E L V 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_G1XN29 R G D F S A M C T W K S K V G E Y V Y V L G K R W G Y R F L V R E 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_G1XN29 R G D F S A M C T W K S K V G E Y V Y V L G K R W G Y R F L V R E 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_F4AH81 P S S I E A L C C L Q T L P H T P N V A V L A D D Q G K L T Q R I M V 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_F4AH81 P S S I E A L C C L Q T L P H T P N V A V L A D D Q G K L T Q R I M V 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_D4NYD6 P I A S A I D E V Y G F S L Y H S Q K T G R Y Y A M V T G K E G E F E Q Y E L N 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_UPI0003FEE555 Q P D T V C C L F N N N K N N T V S A F V P D V R G L T I T E T V I Y 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_UPI0003FEE555 Q P D T V C C L F N N N K N N T V S A F V P D V R G L T I T E T V I Y 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A
UniRef90_B8CGU9 A T T L T D I Y G L C C M Y Q P S E D E L Y V F A N E K S G L V K Q I A L K 130 L S R R D A A A D N N S Q F L F L V G E E E G I G E Q Q W L V A

UniRef90_A4XZP4
UniRef90_A4XZP4
UniRef90_D5VH79
UniRef90_D5VH79
UniRef90_V2TRH3
UniRef90_UPI0004657838
UniRef90_UPI0004657838
UniRef90_K9QTP5
UniRef90_N9L314
UniRef90_N9L314
UniRef90_I3I5K5
UniRef90_L1LZP7
UniRef90_L1LZP7
UniRef90_UPI0004766835
UniRef90_UPI0004766835
UniRef90_I1E1V2
UniRef90_K9Q8D9
UniRef90_K9WRZ5
UniRef90_Q9A8Q8
UniRef90_Q9A8Q8
UniRef90_B2JOG2
UniRef90_A0A031GK21
UniRef90_A0A031GK21
UniRef90_J2GSE1
UniRef90_J2GSE1
UniRef90_UPI00034752AA
UniRef90_UPI00034752AA
UniRef90_D4TJZ6
UniRef90_B7K675
UniRef90_UPI0003472324
UniRef90_T2H7J8
UniRef90_T2H7J8
UniRef90_Q1N3F8
UniRef90_Q1N3F8
UniRef90_UPI00046FB2DA
UniRef90_UPI00046FB2DA
UniRef90_U7FX28
UniRef90_U7FX28
UniRef90_UPI0003828584
UniRef90_UPI0003828584
UniRef90_B1WZU4
UniRef90_K9UGH4
UniRef90_K6Y583
UniRef90_K6Y583
UniRef90_K8GGJ8
UniRef90_B5JT97
UniRef90_B5JT97
UniRef90_W8TPH5
UniRef90_K9XC55
UniRef90_E3QKG4
UniRef90_E3QKG4
UniRef90_Q21DH5
UniRef90_L2GAU9
UniRef90_R4YKX4
UniRef90_J3P700
UniRef90_J3P700
UniRef90_K6YV8
UniRef90_K6YV8
UniRef90_E5A9A0
UniRef90_E5A9A0
UniRef90_K2K3K7
UniRef90_E3SAY2
UniRef90_E3SAY2
UniRef90_G7FX9
UniRef90_G7FX9
UniRef90_B8EAE1
UniRef90_B8EAE1
UniRef90_W1YUA7
UniRef90_W1YUA7
UniRef90_A0A016Q262
UniRef90_A0A016Q262
UniRef90_B6HRY4
UniRef90_B6HRY4
UniRef90_C7Z624
UniRef90_C7Z624
UniRef90_Q5B5P0
UniRef90_Q5B5P0
UniRef90_K9E4K5
UniRef90_F0U5X4
UniRef90_F0U5X4
UniRef90_UPI0002DC50F9
UniRef90_UPI0002DC50F9
UniRef90_F4KZR0
UniRef90_UPI0004765775
UniRef90_G1XN29
UniRef90_G1XN29
UniRef90_F4AH81
UniRef90_F4AH81
UniRef90_D4NYD6
UniRef90_UPI0003FEE555
UniRef90_UPI0003FEE555
UniRef90_B8CGU9

210 220 230 240
G L W A Y A A G A E D D L I R Q P V V G L R Q Q P F G D I G G M A V V V P G G
G L W A Y A A G A E D D L I R Q P V V G L R Q Q P F G D I G G M A V V V P G G
G I W R Y D A D P E A E P V P A I V D I N R R L G G Q Q I A G G E V V E G L A V V I N G G K
G I W R Y D A D P E A E P V P A I V D I N R R L G G Q Q I A G G E V V E G L A V V I N G G K
A V W Q K S L Q E N N S N L Q E V A T V G K N Q I Q I Q D D I V G M G L Y H G G K
G I W R F N A D P E A E V A A A T L V D A P R L G G H I T G G E V V S G L A V H H D G G G E
G I W R F N A D P E A E V A A A T L V D A P R L G G H I T G G E V V S G L A V H H D G G G E
G L W K F E A E P T E G N N Q G K L I D R F G G S N L V D D V E S G L A S I Y Y G A D
G I W A Y E A D P E A D L I R Y P V D D L N P Y G S S I L G N V S G L S L S L Y Q G K N
A L W T I A A E P D S G T R L E K V L G A G E I L V A D I E G V G V Y Q G K N
G W W R Y G A A A E A P L Q R R R P V D R A P F G A I A K R A A G M A V V V P G G
G W W R Y G A A A E A P L Q R R R P V D R A P F G A I A K R A A G M A V V V P G G
G V W R Y S S N A E K P V S R E V V V G L A G L A V V V P G G
G V W R Y S S N A E K P V S R E V V V G L A G L A V V V P G G
G I W R F A A E P D A A V A G E Q I L V D D E T N L V D D V E G L A I I A T H G D
G I W K F D A E P F G S N T G T L I D R V V G G T N L T N D D V E G L A I I Y Y G S D
G I W K F D A E P N G G K T L I D K V G G G S Y L T A N D V V A G L A T I Y Y G G K N
G V W R Y D A D P E A D P V P T I V D I N R R L G H L A G E V A G L A L I N G G K N
G V W R Y D A D P E A D P V P T I V D I N R R L G H L A G E V A G L A L I N G G K N
G I W K F Q A E P D G G T T G K L I D R V V G G S Q L L T D D D A G A G L A T I Y Y G G K N
G V W S Y E A D S E G M G K R E V V A R K P Y G Q L D D D G A G A L A V L P G G G
G I W R Y D A D P E A E A V A T V I D I N R R L G R I Q Q G E V G G L A V L N G G A
G I W R Y D A D P E A E A V A T V I D I N R R L G R I Q Q G E V G G L A V L N G G A
G L W A Y E A D A E S A G R R E P V A D G G G A G A L A V L P D G V A V V L D A K G G N
G L W A Y E A D A E S A G R R E P V A D G G G A G A L A V L P D G V A V V L D A K G G N
G I W K F D A E P N G S T L G Q L I D A V E G G T H L E A D V E G L T I Y Y S D N N
G I W K Y Q A E P N G S T L G Q L I D A V E G G T H L E A D V E G L T I Y Y S D N N
G L W R Y E A A A E A P L V R E P V D L V A P G G L A K A A A G V A L V P G G
G L W R Y E A A A E A P L V R E P V D L V A P G G L A K A A A G V A L V P G G
G V W A L P L D M E K Q M Q R T L V D T V Q Q G H L Q H T A T A M V L L K
G V W A L P L D M E K Q M Q R T L V D T V Q Q G H L Q H T A T A M V L L K
G I W R Y A A N G E G I P E R T L V A R Q P R G G E I T G E V G A L A V L P Q G G
G I W R Y A A N G E G I P E R T L V A R Q P R G G E I T G E V G A L A V L P Q G G
G L W R Y H A D P E R D A E R Q L L D R A P H G N I A E N A S A V A V L P G G
G L W R Y H A D P E R D A E R Q L L D R A P H G N I A E N A S A V A V L P G G
G L W S Y N A D A E G P S R A A V L L K K P Y G T L D K K G A G A L A I L P G G G
G L W S Y N A D A E G P S R A A V L L K K P Y G T L D K K G A G A L A I L P G G G
G I W K F Y A E P N S S E I G T I V D T V P D S N L T T A D V E G L T I Y Y G E D
G I W K Y N A E T P T S E G K F G T L I E K V G G G Q N L T A N D V N G L T I Y Y G K N
G L W R Y S A E T E S E L A R E L V I A V E G E I I T T G V D V N G D L L V A P E
G L W R Y S A E T E S E L A R E L V I A V E G E I I T T G V D V N G D L L V A P E
G I W R Y R A E P N G D D T T G L I A A T V G G K N L T D Q Q V W G G S L E K P M D
G I W A Y P A H P E D D F K R Q L L A A T Q Q P W G G S L E K P M D
G I W A Y P A H P E D D F K R Q L L A A T Q Q P W G G S L E K P M D
G L W A F N A D D T Q A P A G T I A K V E G S P M L H A D V E G L A I W Y G G E
G L W K F A A E V T G K D E G V L V D A V E G S N L T A D V E G L T I W Y A G N
G K D L Y I F D L K E S T V A P E I T K L G E A P D D V T G I A V Y S N T T
G K D L Y I F D L K E S T V A P E I T K L G E A P D D V T G I A V Y S N T T
G V W L F D A N P T A S I S G R L I A A V G D V L V A D V E G L G L V N N A L
A L W R Y D A E P D S T E P G L R L A Y V G D G H T Y A D V E G V T L V Y G T K
A L W R Y D A E P D S T E P G L R L A Y V G D G H T Y A D V E G V T L V Y G T K
D Q D V Y T M E L V I E N T A A P A I V K V A N V T G A T G V S I Y E T S A
D Q D V Y T M E L V I E N T A A P A I V K V A N V T G A T G V S I Y E T S A
G V W R Y I A D H E S E L A R E L V I A T P H G P I N S E V S G D L L V S A P E
G V W R Y I A D H E S E L A R E L V I A T P H G P I N S E V S G D L L V S A P E
P L Y S F H A V I E S T S A P A I T E V S K D I I K V T S L A T Y H G E S
P L Y S F H A V I E S T S A P A I T E V S K D I I K V T S L A T Y H G E S
G I W V F D A D P Q Q A P K G Q L I A K V G D K L H A D V E G L A L W Q
L L Y S F Q A S E S I Q T P A I Q T V D E K L K V E G L A T Y H G N S
L L Y S F Q A S E S I Q T P A I Q T V D E K L K V E G L A T Y H G N S
G I W A I N A N A E S Q A D K K P I A L V A
G I W A I N A N A E S Q A D K K P I A L V A
G V W Q F D A S P F A D T S A K L I F P A I D N Q I T
G V W Q F D A S P F A D T S A K L I F P A I D N Q I T
G V W A I N A D A E S D A N K Q P V A L V P Y G E L K A E I G A L S V S D D
G V W A I N A D A E S D A N K Q P V A L V P Y G E L K A E I G A L S V S D D
N V Y S F S L K E S T G A P K I T K V G K A E D D V T T G L A V Y V P N K
N V Y S F S L K E S T G A P K I T K V G K A E D D V T T G L A V Y V P N K
S V Y T F K A T E S T K A P K I Q V L G Q Q V D D E V T G L A V Y V A P E
S V Y T F K A T E S T K A P K I Q V L G Q Q V D D E V T G L A V Y V A P E
D V Y V F P L K E S T K A P E I T K F G E A E D D V T G V A T Y V P K K
D V Y V F P L K E S T K A P E I T K F G E A E D D V T G V A T Y V P K K
T I Y S F A A E S T T A P D I Q T L G Q V S D E I S G L A V Y V S A
T I Y S F A A E S T T A P D I Q T L G Q V S D E I S G L A V Y V S A
A L W V T S A R A D S P A K L E M V M P V G E W L H H I E G M G L Y H G D
T I Y S F T A K D S T T A P E I T V L G K A E D D I T G L A T Y V T E
T I Y S F T A K D S T T A P E I T V L G K A E D D I T G L A T Y V T E
G I W Q M N A N A E S T A A K H P V A M V T P G E L A S G I G G L T T S A D
G I W Q M N A N A E S T A A K H P V A M V T P G E L A S G I G G L T T S A D
G I W R V E I E N K T T T K V S Y I T Q S G N P N I T F D V E G L L Y A T S D
G I W R V E I E N K T T T K V S Y I T Q S G N P N I T F D V E G L L Y A T S D
V F S F L A V D E T A A P K I V E V G E L G G G D E V V K G L K I Y H G K K
V F S F L A V D E T A A P K I V E V G E L G G G D E V V K G L K I Y H G K K
G I W R Y A A E P E A E L V R E L V A V S G H H G R R L K G E V T S V D T L A D G
G I W R Y A A E P E A E L V R E L V A V S G H H G R R L K G E V T S V D T L A D G
A I W K F S A E P D G S N G T V I D R A D G R H L T P D L E G L T I Y Y A D
G V W S I N A N A E S Q A D K K P I A L V A P F F G S L N S E I G S L F T S T D
G V W S I N A N A E S Q A D K K P I A L V A P F F G S L N S E I G S L F T S T D
G I W A F N I D R T T K L N G E M L I Q A G G P L V A D I E G I S L Y Q A N S

UniRef90_A4XZP4
UniRef90_A4XZP4
UniRef90_D5VH79
UniRef90_D5VH79
UniRef90_V2TRH3
UniRef90_UPI0004657838
UniRef90_UPI0004657838
UniRef90_K9QTP5
UniRef90_N9L314
UniRef90_N9L314
UniRef90_I315K5
UniRef90_L1LZP7
UniRef90_L1LZP7
UniRef90_UPI0004766835
UniRef90_UPI0004766835
UniRef90_I1E1V2
UniRef90_K9Q8D9
UniRef90_K9WRZ5
UniRef90_Q9A8Q8
UniRef90_Q9A8Q8
UniRef90_Q9A8Q8
UniRef90_B2J0G2
UniRef90_A0A031GK21
UniRef90_A0A031GK21
UniRef90_J2GSE1
UniRef90_J2GSE1
UniRef90_UPI00034752AA
UniRef90_UPI00034752AA
UniRef90_D4TJZ6
UniRef90_B7K675
UniRef90_UPI0003472324
UniRef90_T2H7J8
UniRef90_T2H7J8
UniRef90_Q1N3F8
UniRef90_Q1N3F8
UniRef90_UPI00046FB2DA
UniRef90_UPI00046FB2DA
UniRef90_U7FX28
UniRef90_U7FX28
UniRef90_UPI0003828584
UniRef90_UPI0003828584
UniRef90_B1WZU4
UniRef90_K9UGH4
UniRef90_K6Y583
UniRef90_K6Y583
UniRef90_K8GGJ8
UniRef90_B5JT97
UniRef90_B5JT97
UniRef90_W8TPH5
UniRef90_K9XC55
UniRef90_E3QKG4
UniRef90_E3QKG4
UniRef90_Q21DH5
UniRef90_L2GAU9
UniRef90_R4YKX4
UniRef90_J3P700
UniRef90_J3P700
UniRef90_K6YYV8
UniRef90_K6YYV8
UniRef90_E5A9A0
UniRef90_E5A9A0
UniRef90_K2K3K7
UniRef90_E3SAY2
UniRef90_E3SAY2
UniRef90_G7FX9
UniRef90_G7FX9
UniRef90_B8EAE1
UniRef90_B8EAE1
UniRef90_W1YUA7
UniRef90_W1YUA7
UniRef90_A0A016Q262
UniRef90_A0A016Q262
UniRef90_B6HRY4
UniRef90_B6HRY4
UniRef90_C7Z624
UniRef90_C7Z624
UniRef90_Q5B5P0
UniRef90_Q5B5P0
UniRef90_K9E4K5
UniRef90_F0U5X4
UniRef90_F0U5X4
UniRef90_UPI0002DC50F9
UniRef90_UPI0002DC50F9
UniRef90_F4KZR0
UniRef90_UPI0004765775
UniRef90_G1XN29
UniRef90_G1XN29
UniRef90_F4AH81
UniRef90_F4AH81
UniRef90_D4NYD6
UniRef90_UPI0003FEE555
UniRef90_UPI0003FEE555
UniRef90_B8CGU9

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

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

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

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

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

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

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

UniRef90_A4XZP4
 UniRef90_A4XZP4
 UniRef90_D5VH79
 UniRef90_D5VH79
 UniRef90_V2TRH3
 UniRef90_UPI0004657838
 UniRef90_UPI0004657838
 UniRef90_K9QTP5
 UniRef90_N9L314
 UniRef90_N9L314
 UniRef90_I315K5
 UniRef90_L1LZP7
 UniRef90_L1LZP7
 UniRef90_UPI0004766835
 UniRef90_UPI0004766835
 UniRef90_I1E1V2
 UniRef90_K9Q8D9
 UniRef90_K9WRZ5
 UniRef90_Q9A8Q8
 UniRef90_Q9A8Q8
 UniRef90_B2J0G2
 UniRef90_A0A031GK21
 UniRef90_A0A031GK21
 UniRef90_J2GSE1
 UniRef90_J2GSE1
 UniRef90_UPI00034752AA
 UniRef90_UPI00034752AA
 UniRef90_D4TJZ6
 UniRef90_B7K675
 UniRef90_UPI0003472324
 UniRef90_T2H7J8
 UniRef90_T2H7J8
 UniRef90_Q1N3F8
 UniRef90_Q1N3F8
 UniRef90_UPI00046FB2DA
 UniRef90_UPI00046FB2DA
 UniRef90_U7FX28
 UniRef90_U7FX28
 UniRef90_UPI0003828584
 UniRef90_UPI0003828584
 UniRef90_B1WZU4
 UniRef90_K9UGH4
 UniRef90_K6Y583
 UniRef90_K6Y583
 UniRef90_K8GGJ8
 UniRef90_B5JT97
 UniRef90_B5JT97
 UniRef90_W8TPH5
 UniRef90_K9XC55
 UniRef90_E3QKG4
 UniRef90_E3QKG4
 UniRef90_Q21DH5
 UniRef90_L2GAU9
 UniRef90_R4YKX4
 UniRef90_J3P700
 UniRef90_J3P700
 UniRef90_K6YYV8
 UniRef90_K6YYV8
 UniRef90_E5A9A0
 UniRef90_E5A9A0
 UniRef90_K2K3K7
 UniRef90_E3SAY2
 UniRef90_E3SAY2
 UniRef90_G7FX99
 UniRef90_G7FX99
 UniRef90_B8EAE1
 UniRef90_B8EAE1
 UniRef90_W1YUA7
 UniRef90_W1YUA7
 UniRef90_A0A016Q262
 UniRef90_A0A016Q262
 UniRef90_B6HRY4
 UniRef90_B6HRY4
 UniRef90_C7Z624
 UniRef90_C7Z624
 UniRef90_Q5B5P0
 UniRef90_Q5B5P0
 UniRef90_K9E4K5
 UniRef90_F0U5X4
 UniRef90_F0U5X4
 UniRef90_UPI0002DC50F9
 UniRef90_UPI0002DC50F9
 UniRef90_F4KZR0
 UniRef90_UPI0004765775
 UniRef90_G1XN29
 UniRef90_G1XN29
 UniRef90_F4AH81
 UniRef90_F4AH81
 UniRef90_D4NYD6
 UniRef90_UPI0003FEE555
 UniRef90_UPI0003FEE555
 UniRef90_B8CGU9

VAKPSGLFGLRAPLGGDDLSSAGALLVAADDRKKGGGDS
 VAKPSGLFGLRAPLGGDDLSSAGALLVAADDRKKGGGDS
 VSETDGLDVTSHNLLGGVWEKGMVVQDGHKVMPEDEHQN
 VEEPNNLLFADSRPLGAGFPAGVLLVND
 VEEPNNLLFADSRPLGAGFPAGVLLVND
 VQESDGDADVINVP LGANFPFGGLFVTDGNNDP ELENINSN
 VSETDGLEVSSIDFGAAFP EGMVVVQDGHKVMPEAPQN
 SSETDGLEVTTRS LGGPFGEQGALIVQDGRN RMPPEQQQN
 VQESDGDADVINVP LGANFPLSGVFIITQDGSNDPAVEINISSN
 VQESDGDADVINVP LGGPNFPYGLFVTDGNNNDGE LVNINSN
 IQEPSGLFGLRAPI GERLPAAGLLIADDRNVGA
 IQEPSGLFGLRAPI GERLPAAGLLIADDRNVGA
 VQESDGDADVINVP LGGPNFPFGGLFVTDGGSNEP AGENVINSN
 LEAPSGGLFGLRA PAGA GLPAGA LLLVTDDRKVGAN
 LEAPSGGLFGLRA PAGA GLPAGA LLLVTDDRKVGAN
 VQESDGDADVINLP LGANFP MGLFVTDGNNNE PDDENININSN
 VEEESDGDADVINVP LGSQFPFGGLFVTDGGSNDPPEVINVSSN
 VQESDGDADVINVP LGGPNFPYGLVFDVTDGNNLP AFENVNTN
 LLVSKSNDVLE FVLLDD NTKQWLAFSLN
 LLVSKSNDVLE FVLLDD NTKQWLAFSLN
 VTQ
 VTQ
 VEEESDGDADVINVA LGGDKFPKGLLVVH DGSNENANA QNFNTN
 VQESDGDADVINLP LGANFP NGLFVTDGGSNDP ASEINISSN
 VQESDGDADVINVP LGGPNFPFGGLFVTDGGSNDPALENISTN
 AEQADSDDEVSTLSLGG
 AEQADSDDEVSTLSLGG
 TSXTDGLDITSLNA PLGKAYP QGGLAVQDGRKR RLPPEQQQN
 VQESDGDADVINVA PLGANFPKGMVLLVQDGNNDPALENASSN
 EIEGLSLFQGS TSKYP SGALEADPD FEG
 EIEGLSLFQGS TSKYP SGALEADPD FEG
 TSETDGLALTGAALG EHY P QGLLVI QDGFNL MP SQ PQN
 VSN TDGI TAVGTQLNKDFPHGLVVVHDDANQFPNGSTSTS
 ASETDGLAVSGAYLGEKYP QGLVVVQDGRNL MPHEAQN
 EIEGLSLIYQAS TPHY PLGAL TYSMKANSQG
 EIEGLSLIYQAS TPHY PLGAL TYSMKANSQG
 LSIKGGLSILQSSASS YPSGAFAV AFEGADDTG
 LSIKGGLSILQSSASS YPSGAFAV AFEGADDTG
 ASETDGLVTAQPL PGYP QGLLVVQDGRKQV PQAQGN
 GLSILQSSPL PSYPSGAFAAFEGKDDTGVAAGSLS
 GLSILQSSPL PSYPSGAFAAFEGKDDTGVAAGSLS
 EVQGLNIYQGSAG KY PAGA L TYALESEEVN
 EVQGLNIYQGSAG KY PAGA L TYALESEEVN
 A GLSLYQSAFT QY PDGTL GYSLETDASKG
 A GLSLYQSAFT QY PDGTL GYSLETDASKG
 EVQGLNIYQAS TSKYPAGV L TYAIESEEVN
 EVQGLNIYQAS TSKYPAGV L TYAIESEEVN
 TS E IYQSNSSQYPYGLL GF AIESSDSGN
 TS E IYQSNSSQYPYGLL GF AIESSDSGN
 AS ETDGLEVS ANFGGPFARGMLLVVH DGFKR RMPPEGAQN
 EIEGLSLI GQSKSANHP AGLLLAS KARKS FGVS SLELA
 EIEGLSLI GQSKSANHP AGLLLAS KARKS FGVS SLELA
 VAVTNDVAGTQA
 VAVTNDVAGTQA
 T A E T D G I E V C P H N L G A P F N Q G L F V V Q D G F N V A D G K A A P Q N
 V S D T D G I E V L S Y G L P G L F P D G F F I V Q D D V N F D G Q E K S K Q N
 L I E V G D F A V H Q T S A K G Y E D G V F A G E D G E G K F
 L I E V G D F A V H Q T S A K G Y E D G V F A G E D G E G K F
 V E S V H G L S T K Q G L L V
 V E S V H G L S T K Q G L L V
 VA
 VA
 S A E T D G L D V T A H S V G R G W S Q G M M V V Q D G R N R M P D Q N Q N

UniRef90_A4XZP4
 UniRef90_A4XZP4
 UniRef90_D5VH79
 UniRef90_D5VH79
 UniRef90_V2TRH3
 UniRef90_UPI0004657838
 UniRef90_UPI0004657838
 UniRef90_K9QTP5
 UniRef90_N9L314
 UniRef90_N9L314
 UniRef90_I3I5K5
 UniRef90_L1LZP7
 UniRef90_L1LZP7
 UniRef90_UPI0004766835
 UniRef90_UPI0004766835
 UniRef90_I1E1V2
 UniRef90_K9Q8D9
 UniRef90_K9WRZ5
 UniRef90_Q9A8Q8
 UniRef90_Q9A8Q8
 UniRef90_Q9A8Q8
 UniRef90_B2J0G2
 UniRef90_A0A031GK21
 UniRef90_A0A031GK21
 UniRef90_J2GSE1
 UniRef90_J2GSE1
 UniRef90_UPI00034752AA
 UniRef90_UPI00034752AA
 UniRef90_D4TJZ6
 UniRef90_B7K675
 UniRef90_UPI0003472324
 UniRef90_T2H7J8
 UniRef90_T2H7J8
 UniRef90_Q1N3F8
 UniRef90_Q1N3F8
 UniRef90_UPI00046FB2DA
 UniRef90_UPI00046FB2DA
 UniRef90_U7FX28
 UniRef90_U7FX28
 UniRef90_UPI0003828584
 UniRef90_UPI0003828584
 UniRef90_B1WZU4
 UniRef90_K9UGH4
 UniRef90_K6Y583
 UniRef90_K6Y583
 UniRef90_K8GGJ8
 UniRef90_B5JT97
 UniRef90_B5JT97
 UniRef90_W8TPH5
 UniRef90_K9XC55
 UniRef90_E3QKG4
 UniRef90_E3QKG4
 UniRef90_Q21DH5
 UniRef90_L2GAU9
 UniRef90_R4YKX4
 UniRef90_J3P700
 UniRef90_J3P700
 UniRef90_K6YYV8
 UniRef90_K6YYV8
 UniRef90_E5A9A0
 UniRef90_E5A9A0
 UniRef90_K2K3K7
 UniRef90_E3SAY2
 UniRef90_E3SAY2
 UniRef90_G7FX99
 UniRef90_G7FX99
 UniRef90_B8EAE1
 UniRef90_B8EAE1
 UniRef90_W1YUA7
 UniRef90_W1YUA7
 UniRef90_A0A016Q262
 UniRef90_A0A016Q262
 UniRef90_B6HRY4
 UniRef90_B6HRY4
 UniRef90_C7Z624
 UniRef90_C7Z624
 UniRef90_Q5B5P0
 UniRef90_Q5B5P0
 UniRef90_K9E4K5
 UniRef90_F0U5X4
 UniRef90_F0U5X4
 UniRef90_UPI0002DC50F9
 UniRef90_UPI0002DC50F9
 UniRef90_F4KZR0
 UniRef90_UPI0004765775
 UniRef90_G1XN29
 UniRef90_G1XN29
 UniRef90_F4AH81
 UniRef90_F4AH81
 UniRef90_D4NYD6
 UniRef90_UPI0003FEE555
 UniRef90_UPI0003FEE555
 UniRef90_B8CGU9

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

	1	10	20	30	40
UniRef90_L7INP0					P K S G A A P
UniRef90_L7INP0					P K S G A A P
UniRef90_K2K3B9		K A	V E Q V S A T L Q T E P T E R R G D A M D D P A V W V W H A Q Q P G Q S		
UniRef90_UPI0003B70C98		L V Q Q V S A S A E T T P V A A F G D A A D D P A I W V W N A Q Q P G Q S			
UniRef90_F2JWW1	I S S A M L A S V S A H A A V I S E T T Y E D I A D A A T W V W S K D T T K S				
UniRef90_F2JWW1	I S S A M L A S V S A H A A V I S E T T Y E D I A D A A T W V W S K D T T K S				
UniRef90_E6RNI3					
UniRef90_E6RNI3					
UniRef90_U4LK71		P D C S F V I V Q P S Y E T E		A N G E D G D D P A V W L H P T D A S L S	
UniRef90_C9SJ19					E S D A T A V Y Y S E S Q P
UniRef90_C9SJ19					E S D A T A V Y Y S E S Q P
UniRef90_UPI00047A9F34		D T D M A V V H A A A Q T D P V A R F G D A A D D P A I W L H P E K P E H G			
UniRef90_L0DFQ9		T D V V L V T P T A K V Q T E P V P T E G D A A D D P A I W L H P V D P A R S			
UniRef90_C5JGK5					
UniRef90_C5JGK5					
UniRef90_N4VKU4					
UniRef90_N4VKU4					
UniRef90_A0A016XKM5		A T P A V A Q V L A A A E	E S M A L P G S A		E G G W
UniRef90_A0A016XKM5		A T P A V A Q V L A A A E	E S M A L P G S A		E G G W
UniRef90_Q3IFS5					
UniRef90_Q3IFS5					
UniRef90_F6CVU0		V S V A A H A T T V K T Q A S Y E D I A D A A V W V S P I N A A K D			
UniRef90_F6CVU0		V S V A A H A T T V K T Q A S Y E D I A D A A V W V S P I N A A K D			
UniRef90_M2TD10					
UniRef90_M2TD10					
UniRef90_C0SI59					
UniRef90_C0SI59					
UniRef90_J2DIB9					
UniRef90_J2DIB9		V N V T A R G E T T P V G T P A D A A D D P A I W R N T A N P A A S			
UniRef90_U1K9D9		T A Q T L P T V R P K A Q S H P A E Q F G D A M D D P A I W V H P S N P A A S			
UniRef90_L8LQTO	L E L E S I P V I E A T A E T P S E I R Y G G D G D D P A I Y V H P T D P N Q S				
UniRef90_UPI000374DFA2		I A I L T A D M Q T D P V A R F A D A A D D P E I W F N S A N P A Q S			
UniRef90_B2WM13					
UniRef90_B2WM13					
UniRef90_UPI0002558385		V F S V K A A L E T T P V A T K E D A A D D L C I W I H P N T L E Q S			
UniRef90_Z5XUP6		I T A Q A Q T D A V L A F G D A A D D P A I W L N T H D K A H S			
UniRef90_I8T5U9		V S I G A V R E T V A V K T H D D A A D D P A I W R N A A D P S R S			
UniRef90_W7Y8Q2	L Q A Q F S N I V S A D Y E T P V K S N D D A A D D P A I W I N K L H P E K S				
UniRef90_G2E7J1		V P A A R P V L E T P R T T D A G G D S D D P A I W I H P S R P D K S			
UniRef90_F3LNF6		V L P V R A V A Q T D P V P R F G D A A D D P A I W V H P A D P A K S			
UniRef90_UPI000255BA4B		I P R V R A S G Q T A P V A S G D A A D D P A I W V N P A K P S A S			
UniRef90_B8HQM4	A Q P T A V S V K K L E T P P L D D A G G D A D D P A I W L H P T R A A K S				
UniRef90_Q0UBI4					
UniRef90_Q0UBI4					
UniRef90_I0HTL4					
UniRef90_I0HTL4					
UniRef90_Q0CTZ5		F L S V A A S A P T V K V S T A G I E S D W A A V Y Y G P R P Q D S			
UniRef90_Q0CTZ5		F L S V A A S A P T V K V S T A G I E S D W A A V Y Y G P R P Q D S			
UniRef90_UPI0002E44ED5	M A K Q G A S Q L T A D M Q T A P V A R F G D A A D D P E I W L N S N N S A D S				
UniRef90_S8CEA4	S K K F E V T L S L D G Q T S I V E S D S V A V Y H P K K G K Y P				
UniRef90_S8CEA4	S K K F E V T L S L D G Q T S I V E S D S V A V Y H P K K G K Y P				
UniRef90_UPI0003796BA6					P G K S
UniRef90_UPI0003796BA6					P G K S
UniRef90_U7QBF4		L E F D S L P A A Q P V L E T P S E A A L T G D S D D P A I W I N P E N P E Q S			
UniRef90_K6ZV69		A V A E T D S V Q R F G D A A D D P A I W I N A S Q P D K S			
UniRef90_UPI000365313E		T V E T A P M H G T G D A A D D A A I W I H P T D P S K S			
UniRef90_W1S8I4		V N V T A R G E T T P V G T A N A D A A D D P I W R N A A D P A A S			
UniRef90_UPI0004057190	P A T P V N Q V A A T L Q T T P S P R R G D A I D D P A V W V H P Q Q P A Q S				
UniRef90_Q7NIT3		V A T V R P K L E T P A L A G G E A D A D D P S I W L H P V A P A K S			
UniRef90_UPI0003A35A09	P A D V A V A Y A E T E A V A S M D D A A D D P A I W I N R A D P A A S				
UniRef90_Q0AM33		V E I E A V E T A S V A G T G D A A D D P A V W L A E N P A D S			
UniRef90_U5QIM4	S L V T V Q P H I E T P A V D D E G N A D D P A I W L H P T R S G K S				
UniRef90_R4UQ44		V S Q V E A T L Q T E P S P L R G D A I D D P A V W V H P E A P E K S			
UniRef90_UPI00036F84A5		S V Q A S I E T V N V A G T G D A A D D P A V W L A P N P Q D S			
UniRef90_UPI00036G6Y3	P A F P T V M P L A E T G L V G A T G D S A D D P A I W V S P T D P A K S				
UniRef90_W3WTE0	L A A S S G V L G A P E A E L L I S A R T A D A S D L S A V Y Y S D V S S S V P				
UniRef90_W3WTE0	L A A S S G V L G A P E A E L L I S A R T A D A S D L S A V Y Y S D V S S S V P				
UniRef90_UPI0003619F55					
UniRef90_UPI0003619F55					
UniRef90_A3WK29		I A Q V A A T L E T E P S P R R G D A I D D P A I W V S P S A A E E S			
UniRef90_UPI000301CA62	L S A C A P P S V A P V A E T V A V K S G D D A A D D P A I W R N A A P A A S				
UniRef90_A8P5M1	P D C S F K V V L A D I E T D A N G G D G D D P A I W I H P T D R T K S				
UniRef90_S5C1H3		A L A R V L P S A E T Q P V K N Y G D A A D D P A I W V W N A Q S P S Q S			
UniRef90_UPI00036593E7					
UniRef90_UPI00036593E7					
UniRef90_U5DNR8	I E T K T V V E P T L E T P P L R F E N D A D D P A I Y I H P T D P D A S				
UniRef90_K9RD49		E I A E S I L T A P E P V L A G D S D D P A I W V N P D N S A E S			
UniRef90_D9USA7	P A P A A V S V T A T V E T E P V S H S G D A A D D P A I W V N P S D P A K S				
UniRef90_G2IPZ8		A S V T A R G E T E P V G T A N A D A A D D P I W R N A A A D P A A S			
UniRef90_S3GIZ1		I A A S A E T P V V D S T S D A A D D P A I W R N A A A D P A A S			
UniRef90_M2U638		V G A V V E T I V E T D P Q V D A A D D P A L W A D A A D P S R A			
UniRef90_F5Z928	S A I E L Q P V Y E T D V V E N Y G D A A D D P A I W V N K N N P S K S				
UniRef90_UPI00040A981B		A L K P N A I T E P A P H D T D D P A I W L H P T D A S K S			
UniRef90_S3AMS3	L P G V R P T A E T P A V A G G N A D A D D P A I W R N P D D P D R S				
UniRef90_UPI000468F490		L K P T V V T E T V L H D T D D P A I W L H P T D P K Q S			
UniRef90_W0AG29	P A P I V A E V T A R G E T D V V G T A N A D A A D D P A I W R D P A D P A K S				
UniRef90_K0CP11		V K P D V E T D P V E N H G D A A D D P A I W V N S H S A S Q S			
UniRef90_A0A010QAZ2		V T P V I E T D P V E N Y G D A A D D P A I W V N S L S P Q Q S			
UniRef90_D7W501		L K P T V I T E T V V H D T D D P A I W V N P Q D A S K S			
UniRef90_F9YVW2	A L S P V V I T Q K T P N D T D D P A I W I H P T D P A Q S				
UniRef90_Q0C5T3		V M A S V E T P A G A Q G D A A D D P A V W L H P A D T P E K S			
UniRef90_C7PMI9		I K P V V V T T Q E T G H D T D D P A I W I N K A D T L K S			
UniRef90_A5FK69	A P V Q P A V K P T A V T E A L P H D T D D P S I W L N P T D P S K S				

UniRef90_L7INP0 L L L A N D A T G G F R V F G L D G A Q A G H V I A G R T K L V A P L Y N A S G R
UniRef90_L7INP0 L L L A N D A T G G F R V F G L D G A Q A G H V I A G R T K L V A P L Y N A S G R
UniRef90_K2K3B9 R I L A T D K R A G L D V Y G L M D G Q R V Q Q L S A V G R L N N V D V R Y Q H Q T R
UniRef90_UPI0003B70C98 L I L G T D K R R G L M V Y G L D G Q R L R Q Q L S A V G R L N N V D V R Y Q H Q T R
UniRef90_F2JWW1 L L I A T L E G D G I A V F N E Q G K E I Q H I E G I E A L G A D V R Y S L T D
UniRef90_F2JWW1 L L I A T L E G D G I A V F N E Q G K E I Q H I E G I E A L G A D V R Y S L T D
UniRef90_E6RNI3 L L I A T L E G D G I A V F N E Q G K E I Q H I E G I E A L G A D V R Y S L T D
UniRef90_E6RNI3 L L I A T L E G D G I A V F N E Q G K E I Q H I E G I E A L G A D V R Y S L T D

UniRef90_U4LK71 R V I T T T K S A G L T M F D L D T G Q K A L K S V N T A G R T K L V A T V H D V
UniRef90_C9SJ19 L L I S N D S T G G F H T W D L D G Q A L K S V N T A G R T K L V A T V H D V
UniRef90_C9SJ19 L L I S N D S T G G F H T W D L D G Q A L K S V N T A G R T K L V A T V H D V
UniRef90_UPI00047A9F34 R V L G T D K K A G L Y V Y D L L G R S R Q L V P V I R L N N V D V R
UniRef90_L0DFQ9 L V L G T D K K G L H A Y T L D G R S R Q L V P V I R L N N V D V R C G F P L
UniRef90_C5JGK5 Q L A A S A H G R T K A I G L M Y D V G G
UniRef90_C5JGK5 Q L A A S A H G R T K A I G L M Y D V G G
UniRef90_N4VKU4 Q L A A S A H G R T K A I G L M Y D V G G
UniRef90_N4VKU4 Q L A A S A H G R T K A I G L M Y D V G G

UniRef90_A0A016XKM5 L V V E P Q T V R L L D A T G R E R D R L P V R A E H L D L R P S
UniRef90_A0A016XKM5 L V V E P Q T V R L L D A T G R E R D R L P V R A E H L D L R P S
UniRef90_Q3IFS5 T S E S K G L L L L D Q Q A Q P L S R F N G N F E T L T M R E N V L L
UniRef90_Q3IFS5 T S E S K G L L L L D Q Q A Q P L S R F N G N F E T L T M R E N V L L
UniRef90_F6CVU0 L L I A S L E G D G L A V F D Q S S G R L L L T D S S K E I L L G A D I R Y G L K D
UniRef90_F6CVU0 L L I A S L E G D G L A V F D Q S S G R L L L T D S S K E I L L G A D I R Y G L K D
UniRef90_M2TD10 L V V N D G S A A D G G F R S F A F S N G T S L V E S F H E
UniRef90_M2TD10 L V V N D G S A A D G G F R S F A F S N G T S L V E S F H E
UniRef90_C0SI59 G R T K V V G V L Y D V G D
UniRef90_C0SI59 G R T K V V G V L Y D V G D
UniRef90_J2DIB9 L I V G T D K K A G L Y I Y G L D G K T R D F L D A G R V N N V D L R D D G F S W
UniRef90_U1K9D9 L V L G T H K K Q G L E V Y D L K G N L L Q Q T F K A D G R L N N V D L R D D G F S W
UniRef90_U1K9D9 L V L G T H K K Q G L E V Y D L K G N L L Q Q T F K A D G R L N N V D L R D D G F S W
UniRef90_UPI000374DFA2 L I L A T D K T Y G L K G Y D L L D S G K E L V A D I A S G R I N N V D L V Y N F P L
UniRef90_UPI000374DFA2 L I L A T D K T Y G L K G Y D L L D S G K E L V A D I A S G R I N N V D L V Y N F P L
UniRef90_B2WM13 L L V A N D K S G G F R T F A V N G Q G E I S H L K T G R S K I V V P V L D I
UniRef90_B2WM13 L L V A N D K S G G F R T F A V N G Q G E I S H L K T G R S K I V V P V L D I
UniRef90_UPI0002558385 T I I G T N K K Q G L C Y V N L Q G E L R Y N Y P V I G K V N N V D I R Y Q V N I
UniRef90_Z5XUP6 L I L G T D K R R G L M V Y N L A G N E L Q A L E T G R L N N V D V R Q N N S I
UniRef90_I8T5U9 L I V A T D K K A G L Y V Y G L D Q G V R D F A P S S R L N N V D L V R Q N N S I
UniRef90_W7Y8Q2 M I I G T N K K A G L N V Y D L Q G N E L Q F I P I G K M N N A D V L S Y N F A Y
UniRef90_G2E7J1 L V I A T L K D G G F V V F D L D G G T V I Q E Y G D I R F N N V D L V Y D F A L
UniRef90_F3LNF6 L V L G T N K K Q G L F V Y G L D G G Q R Q R Q V L E A G R L N N V D L R Q G L R F
UniRef90_UPI000255BA4B L I F G T D K K S G L S V Y D L N G K L V E H F E V G R V N N V D L R P V H D I
UniRef90_B8HQM4 L I V A T K K N A G L S V Y D L Q A R E V Q A I P A G R F N N V D L I Y N F G L
UniRef90_QOUBI4 L V A N D K S G G F R T F A V A P K Q I A H Q K T G R S K V V V P V H D I
UniRef90_QOUBI4 L V A N D K S G G F R T F A V A P K Q I A H Q K T G R S K V V V P V H D I

UniRef90_I0HTL4 L A L D K K A L R L L D A D G R E R A R L A L R G K Q L D T R
UniRef90_I0HTL4 L A L D K K A L R L L D A D G R E R A R L A L R G K Q L D T R
UniRef90_QOCTZ5 L L V G N D A T G G L R T Y G L N L N E T A R R T P G R T K V V G V L Y D I
UniRef90_QOCTZ5 L L V G N D A T G G L R T Y G L N L N E T A R R T P G R T K V V G V L Y D I
UniRef90_UPI0002E44ED5 L I L T T D K R Y G L N A Y N L A G E L V E T A S G R I N N V D I R Y S Y G A E F
UniRef90_S8CEA4 V L F G S A E T G G F R L W D L Y G K E L A A F K T G R S K L V E I V Y S V
UniRef90_S8CEA4 V L F G S A E T G G F R L W D L Y G K E L A A F K T G R S K L V E I V Y S V
UniRef90_UPI0003796BA6 A L L I A S K N K G V L L L D S N G D H L V S A P G R V E T L A I Q S L
UniRef90_UPI0003796BA6 A L L I A S K N K G V L L L D S N G D H L V S A P G R V E T L A I Q S L
UniRef90_U7QBF4 L V I I T L K D G G L A T L D L N G E I V E E I G E I R Y N N V D L V Y D F K L
UniRef90_K6ZV69 L I F G T D K K S G L N I Y D L S L R G E L V Q T P V G K M N N V D I R Q N L L I
UniRef90_UPI000365313E T I I G T D K K S H G L V Y D L S G R E L F Y Y P D G R M N N V D I R Y N F P L
UniRef90_W1S8I4 L I V G T D K K A G L Y V Y G M D G K T R S F I D A G R V N N V D L K D G V T I
UniRef90_UPI0004057190 R L L A T D K R T G L Y V Y D M N G A V V Q E L A G R L N N V D V R R G N
UniRef90_Q7NIT3 V M V G T K K N A G L S V Y D L A G Q E L Q A V A A G R F N N V D V Y G F T L
UniRef90_UPI0003A35A09 R V L G T D K Q A G L Y V Y D L Q G A L D F L P A G Q L N N V D I R Q G V A L
UniRef90_QOAM33 L I F G T D K D N G Y V Y D T M T G A E H A Y L P E G R L N N V D V R Y G F D L
UniRef90_U5QIM4 L V I G T Q K D A G L A V Y F D A G R V L A A P R F N N V D V A Y G F A L
UniRef90_R4UQ44 R I M A T D K R T G L Y V Y D M S G N I V Q E F P V G R L N N V D V R T G F M A
UniRef90_UPI00036F84A5 L I L G T D K T N G L Y A Y N L D G S V H A F L P V G R V N N V D V R T G F M A
UniRef90_A0A059G6Y3 L I L G T N K Q E G L V Y F A L D G S E V Q R L P L G P I N N V D V R Q D L
UniRef90_W3WTE0 L L L G N D K S G G I R A W A L D G T L V A H Q T P G R T K A L T T V Y G V G N
UniRef90_W3WTE0 L L L G N D K S G G I R A W A L D G T L V A H Q T P G R T K A L T T V Y G V G N
UniRef90_UPI0003619F55 L L I G T L E G D G L A V F D H Q G I R L W Q D E R R V T L G A D I R Y G V S D
UniRef90_UPI0003619F55 L L I G T L E G D G L A V F D H Q G I R L W Q D E R R V T L G A D I R Y G V S D
UniRef90_A3WK29 L I L A T D K R T G L Y V Y S M N G E I V Q H L A V G R L N N V D V R G N
UniRef90_UPI000301CA62 L I V G T D K Q A G L Y V Y S L D G Q V R D F N N A G R V N N V D V L V E
UniRef90_A8P5M1 R V L T T T K S A G F A L F D L A G Q M I A Q L P A G E P N N V D V I Y N F E L
UniRef90_S5C1H3 R L L G T D K K G A L N T Y D L L G H Q Q Q S L A V G R V N N V D V G Y N V A I I
UniRef90_UPI00036593E7 L V T S E S E G L L F T D S V G R T L A N Y E G A Y S Q T D I R
UniRef90_UPI00036593E7 L V T S E S E G L L F T D S V G R T L A N Y E G A Y S Q T D I R

UniRef90_U5DNR8 F V I T A L K N G G F A V Y D L T Q G E L Q L V A P D R Y N N V D I V Y N F E L
UniRef90_K9RD49 L V I G T L K D G G L A T F N L Q G E I Q Q V I S A P R F N N V D I I Y N F P L
UniRef90_D9USA7 A V V A T D K K G A L E V Y D L A G K R L Q R I S G D H G N N V D V H D
UniRef90_G2IPZ8 L I V G T D K K A G L Y V Y G L D K G R R L F L D A G R L N N V D L K D G V M
UniRef90_S3GIZ1 L V L G T D K Q A G I H V Y D L D G K R L S F T P A A R L N N V D I R E
UniRef90_M2U638 V M F G T D K T D G L Y V H D L D G T V R Q F L P S A L N N V D L R T G F K A
UniRef90_F5Z928 L V I G T N K K G L N T Y N L Q G E L V A S H K V G R V N N V D I A Y N W A P
UniRef90_UPI00040A981B L I I G T D K D G G L Y V Y N L Q G E L V K V L G I K R P N N V D I A Y G L M
UniRef90_S3AMS3 L V V A T V K E G G L R V Y D L D G R E V Q S V P A G R F N N V D L H G M K T
UniRef90_UPI000468F490 L V I G T D K D G G L Y V F N L Q G K I K S E T K R P N N V D I A Y G L T A I
UniRef90_W0AG29 L I V A T D K K A G L Y V Y G L D G K T R S F I K T G R V N N V D V R A D V A I
UniRef90_K0CP11 R I I G T D K K G A L N S Y D L A G T L V Q S L P V G R V N N V D V G Y K V S V
UniRef90_A0A010QAZ2 R V I G T D K K G A L N S Y D L S G K L I Q S L P V G R V N N V D V G Y N V K S
UniRef90_D7W501 I I I G T D K D G G L Y A F D L N G K I I K V L P V L K R P N N V D V E Y G F I L
UniRef90_F9YVW2 L V L G T D K N G G L Y L F D L K G N L V K F V P L D R P N N V D V A Y G M L W
UniRef90_QOC5T3 L I L G T N K Q G L Y V Y A L D G S E V Q N L P I G L V N N V D V R Q S
UniRef90_C7PMI9 L I I G T D K K N G L Y A F D L D G K I V K V L P I L K R P N N V D I A Y G F K L
UniRef90_A5FK69 I V V G T D K D G A L Y A F D L N G K L L K S I T L K R P N N V D I A Y G L I I

UniRef90_L7INP0 A G D D F L V T I A T 90 T D S V V V R L Y S S L P D L 110 A V V V P I A E 120
UniRef90_L7INP0 A G D D F L V T I A T T D S V V V R L Y S S L P D L A V V V P I A E
UniRef90_K2K3B9 N N G Q R R D I L V A A S L R R S D N N S N S L S L Q L F S I D S D K V Q Q L L T A V V E
UniRef90_UPI0003B70C98 N N A T H T L I A A S L R R S D N N S N S L S L Q L F S I D S D K V Q Q L L T A V V E
UniRef90_F2JWW1 N G A S M D I V A I G L P D E D S L L G F Y K I T T G G D A H P L L S S V V G T T I N I L
UniRef90_F2JWW1 N G A S M D I V A I G L P D E D S L L G F Y K I T T G G D A H P L L S S V V G T T I N I L
UniRef90_E6RNI3 D N N N Q D N V V I F K E L N G Q T W Q L L N E L L T T R I S S P
UniRef90_E6RNI3 D N N N Q D N V V I F K E L N G Q T W Q L L N E L L T T R I S S P
UniRef90_U4LK71 G S R K V D I L A Y A A C P A R K D T L L C L F E E L T S N N G T L L K E L D D A R F F
UniRef90_C9SJ19 G G R D I L L V S I I P A T T S I I L L S A Y E E L P S S L L K E L D D A R F F
UniRef90_C9SJ19 G G R D I L L V S I I P A T T S I I L L S A Y E E L P S S L L K E L D D A R F F
UniRef90_UPI00047A9F34 G D W A V A S N R D H R S D S G V L Q V V F R I L D D T E G N V L L A E T G S G P T
UniRef90_L0DFQ9 A G R T V D I L A I A S V K G T R S P G V L Q V V F R I L D D T E G N V L L A E T G S G P T
UniRef90_C5JGK5 R D I V V S I A A T D S S V L R V V Y E M S D A E E R R S N Q K V M
UniRef90_C5JGK5 R D I V V S I A A T D S S V L R V V Y E M S D A E E R R S N Q K V M
UniRef90_N4VKU4 D S D A P L A V V A N R T T T G R T K L T L Y N V A G R D L A V T S F A E I A S R F
UniRef90_N4VKU4 D S D A P L A V V A N R T T T G R T K L T L Y N V A G R D L A V T S F A E I A S R F
UniRef90_A0A016XKM5 G N T R A A R A V V F D S D H Q Q Q P L L L L T I K D F R L Q L A H R R F
UniRef90_A0A016XKM5 G N T R A A R A V V F D S D H Q Q Q P L L L L T I K D F R L Q L A H R R F
UniRef90_Q3IFS5 N E E Q S T L I A T I D N E E H N T I K L L S L K Q D N T T L L Q S S
UniRef90_Q3IFS5 N E E Q S T L I A T I D N E E H N T I K L L S L K Q D N T T L L Q S S
UniRef90_F6CVU0 G G S S M D V L A V G L P D E E A F A F Y R I D P A T P I L L Q Q V V G R I D T
UniRef90_F6CVU0 G G S S M D V L A V G L P D E E A F A F Y R I D P A T P I L L Q Q V V G R I D T
UniRef90_M2TD10 K S G R S K I A V P V H N I D G R N L I V N I P A P D S L I R I F E G Q T G
UniRef90_M2TD10 K S G R S K I A V P V H N I D G R N L I V N I P A P D S L I R I F E G Q T G
UniRef90_C0SI59 R D I V I S I A A T D S V I R V F D A H Q A T E L P S N R K V M
UniRef90_C0SI59 R D I V I S I A A T D S V I R V F D A H Q A T E L P S N R K V M
UniRef90_J2DIB9 N G Q P G I L V V A S D R N D V A N A L A F R E L D S V T A K L T A L G
UniRef90_U1K9D9 Q G R T I S I A A A S K R N D D S L A L A F Y G V I E A D G T V F R L A L G
UniRef90_L8LQT0 A T G T V D I L A I A S D R R N D S L A L A F A I I N P A Q D T R Q L T E L P G A A F
UniRef90_UPI000374DFA2 Q G Q R W D F A A A S N R T D N S T L A L Y R I D A Q D T R Q L T E L P G A A F
UniRef90_B2WM13 G G R D L I V N V P S P D S L I R V F D A K T S K A V E S N D K K Q
UniRef90_B2WM13 G G R D L I V N V P S P D S L I R V F D A K T S K A V E S N D K K Q
UniRef90_UPI0002558385 N G K K M A V V A S N R T H N S I L S V Y T V N L N G T L E N I V H S
UniRef90_Z5XUP6 D N P A H T W I T G S N R T H N S I L S V Y T V N L N G T L E N I V H S
UniRef90_I8T5U9 A G A D A V L V A A S D R A D E T H S Q S I L A L Y A L S P Q T E K L T E A
UniRef90_W7Y8Q2 K G Q Q V D L L A G S N R T D S Q S I L A L Y A L S P Q T E K L T E A
UniRef90_G2E7J1 D G K R V D L A V F S D R K N D T L A V Y R I D P N R Q R L V A V T S S M
UniRef90_F3LNF6 G T L T L D L A L A T Q R D E K A L S L F T G I A A A G D T L A D E Y L G
UniRef90_UPI000255BA4B H G K F V L V A I A A T N R T D P G V L S L F G I T A A G A V E Y L G
UniRef90_B8HQM4 N S Q K V D L A V V S D R G S D R L K V Y K I D P A S Q P L T D I T I A N P
UniRef90_Q0UBI4 G G R D L I I N I P S P D S L I R V F D T K T G K K V D S N D K I I Q
UniRef90_Q0UBI4 G G R D L I I N I P S P D S L I R V F D T K T G K K V D S N D K I I Q
UniRef90_I0HTL4 A A T H G A L A V V L D A D T Q R R T L A V T V D T R A M T L P A V E S P A F
UniRef90_I0HTL4 A A T H G A L A V V L D A D T Q R R T L A V T V D T R A M T L P A V E S P A F
UniRef90_Q0CTZ5 G G R D L L V S I T T T T E S I I R L Y D V D G L S R E I S S G V K K
UniRef90_Q0CTZ5 G G R D L L V S I T T T T E S I I R L Y D V D G L S R E I S S G V K K
UniRef90_UPI0002E44ED5 N G E N F D F A T A S N R T Y N S I R L Y E I T R S G D I L K Y A K E A D K
UniRef90_S8CEA4 G D D E E D Y V V T L S M Q D G I I R L Y E I E G K E G K L K Y A K E A D K
UniRef90_S8CEA4 G D D E E D Y V V T L S M Q D G I I R L Y E I E G K E G K L K Y A K E A D K
UniRef90_UPI0003796BA6 S Q G S L L V A A Y D E L S A E V K L Y K L K G R K P V L Q Y L G G R D E
UniRef90_UPI0003796BA6 S Q G S L L V A A Y D E L S A E V K L Y K L K G R K P V L Q Y L G G R D E
UniRef90_U7QBF4 S E E T V D L A V A S D R Q N D T L A I W K I D P E T L Q L V D V T E T I F
UniRef90_K6ZV69 N G Q Y K D I A V A S N R S N Q S M T V F S I N E F G V A K H L T D
UniRef90_UPI000365313E G S S R V G L V G V S N R S V R S L D F Y K V N E A D R S L T K V G S F A P
UniRef90_W1S8I4 N G A P G V L V A A S D R N D V A N A I A L F R L D S A T A K L T A L G K I D G
UniRef90_UPI0004057190 G G R S V D L A V T T D R G R D K L R L Y T I D P A Q A P L V D V T D P D A
UniRef90_Q7NIT3 D G Y E G D L A A A S N R S D N T V T F F A I D P A T G E V T Y V G A V T V
UniRef90_Q0AM33 G D R I V D L A A S D R S N G G I A F F F I D P A S R E V T Y V G A V T V
UniRef90_U5QIM4 N G R S V D L A V T S D R G Q D K L R I Y S I A P A G P P L I D V T D P A A
UniRef90_R4UQ44 G S W A V A S L R D N N S L Q L F D I A S A D G E L I S V G T N A
UniRef90_UPI00036F84A5 G E R E V A L A A S D R T N I A I A T F F I D A Q T T G E I A H I N D
UniRef90_UPI00036F84A5 G E R E V A L A A S D R T N I A I A T F F I D A Q T T G E I A H I N D
UniRef90_UPI00036F84A5 G E R E V A L A A S D R T N I A I A T F F I D A Q T T G E I A H I N D
UniRef90_W3WTE0 R D L V V T V A D P D S I V R L F D A S T L E V V D D
UniRef90_W3WTE0 R D L V V T V A D P D S I V R L F D A S T L E V V D D
UniRef90_UPI0003619F55 E G N A I D L L A V T I P D E E A F A F Y T V D D P E N P L T D L G T L D I
UniRef90_UPI0003619F55 E G N A I D L L A V T I P D E E A F A F Y T V D D P E N P L T D L G T L D I
UniRef90_A3WK29 T P A G V I V A A S L R D N N S L A Q F F D I S Q A G E V L S M A N Q
UniRef90_UPI000301CA62 D G R T V D L G V A A C R D E D T L C L M Q V L T E G G L T D L V N L P V
UniRef90_A8P5M1 A N T F T D I A I A S N R S H N S L S V E E I D E F G V L A H L G E
UniRef90_UPI00036593E7 H N S D H A I I A A L D T N T Y A I D I L S F D I S A R T F S A V T T L S S
UniRef90_UPI00036593E7 H N S D H A I I A A L D T N T Y A I D I L S F D I S A R T F S A V T T L S S
UniRef90_U5DNR8 G S E T V D L A V F S D R R N D S L A I V Y R I D P A T G Q L N D V T A A I I F
UniRef90_K9RD49 G E T K V D L A V A S D R E N D T L A I F R I S I S E N T P Q L L D A E F S I F
UniRef90_D9USA7 G G A P G V L V A S D R N D P A K A A L A L F R L D T A A A K L V A L G T L D G
UniRef90_G2IPZ8 G G R V I V A S D R N D P A K A A L A L F R L D T A A A K L V A L G T L D G
UniRef90_S3GIZ1 N G R D D L V L V I G A T N D Q N M G I N L Y L F D P R T L Q T R D F G
UniRef90_M2U638 Q H D I A V A S N R S S N S M S V F F I D K K T G E L T F N T N
UniRef90_F5Z928 N G K K T D I A V T T E R E M S N S I R I F S L P D D A P L T D V T D P S A
UniRef90_UPI00040A981B G S R T S D L A V T S D R G S D R L R V Y R I D G D D A P L T D V T D P S A
UniRef90_S3AMS3 D G G V A T D V A V T T E R E T D E A N R V I F R L D T A T A K L T A L G
UniRef90_UPI000468F490 G G T D G V L V A S D R S D E A N R V I F R L D T A T A K L T A L G
UniRef90_W0AG29 A E T K I D I A V A S N R S N N S L S V F E I D K R G H M T Q L G H
UniRef90_K0CP11 D A S T I D I A V A S N R S N N T L S V F E I D K R G D M T Q L G D
UniRef90_A0A010QAZ2 N G K K T D I A V A S N R S N N T V K S V F S L P D E L K E V G E I S V
UniRef90_D7W501 N G Q K T D I A V T T E R K K N Q I R V F S L P P R Q T A V E L T P V D G G G I
UniRef90_F9YVW2 A D R S Y D V A I A S N D Q V N A I S V F M I D R Q T A V E L T P V D G G G I
UniRef90_Q0C5T3 N G Q P V D I A V L T E R E E N R I R L F S L P D L E P I D N G G I
UniRef90_C7PMI9 D G K K V D V A V T T E R E E N R I R L F S L P D L E P I D N G G I
UniRef90_A5FK69 D G K K V D V A V T T E R E E N R I R L F S L P D L E P I D N G G I

UniRef90_L7INP0 P L V T L L G D W N A V C S W G S Y F F L F G K G G R A F Q Y L V R T S
UniRef90_L7INP0 P L V T L L G D W N A V C S W G S Y F F L F G K G G R A F Q Y L V R T S
UniRef90_K2K3B9 Q V S T G M S T E I L Y G L L G Y Q S P Q G D A V S V F V N D K G G T L Y Q Q Y R I S
UniRef90_UPI0003B70C98 A T N L T E I Y G L L G Y Q S P Q G D A V S V F V N D K G G T L Y Q Q Y R I S
UniRef90_F2JWW1 D A T P E G V V C C C L Y Q H P T S G G Q I T A T A Y T E D G D L L Q Q Y K L I T
UniRef90_F2JWW1 D A T P E G V V C C C L Y Q H P T S G G Q I T A T A Y T E D G D L L Q Q Y K L I T
UniRef90_E6RNI3 P Q A Q P D A V C C C L F K N S N N K T V S A F V P D V R G L L I S E T V I Y T
UniRef90_E6RNI3 P Q A Q P D A V C C C L F K N S N N K T V S A F V P D V R G L L I S E T V I Y T
UniRef90_U4LK71 P T R K G F K V Y G S C C C L V Y S S K K T G K N Y L F V F N A G K S D A T Y L Q Q Y E L T
UniRef90_C9SJ19 V A L G D W S A L L C C C S W K A P S A N N Y V F L F G K S S G H Q Q Y L V T
UniRef90_C9SJ19 V A L G D W S A L L C C C S W K A P S A N N Y V F L F G K S S G H Q Q Y L V T
UniRef90_UPI00047A9F34 E L E T T L K G D I Y G L L C C C T Y R Q A G A G E L H A L A N G K N D G A F E Q Q Y R L D D
UniRef90_L0DFQ9 F T A F D G K V P Y G L L C C C T Y R S P R D G T A Y V F V L F G K S G G A V E Q Q Y R L D D
UniRef90_C5JGK5 L G D W S A L L C C C P W R S P K T T G N Q Y F Y L F F G K K Q A V V Q Q F I V R R
UniRef90_C5JGK5 L G D W S A L L C C C P W R S P K T T G N Q Y F Y L F F G K K Q A V V Q Q F I V R R
UniRef90_N4VKU4 A Q E T A L L G D W S A L L C C C S W R S R S A N H Y V F L F G K A Q V V Q Q Y L V V
UniRef90_N4VKU4 A Q E T A L L G D W S A L L C C C S W R S R S A N H Y V F L F G K A Q V V Q Q Y L V V
UniRef90_A0A016XKM5 E P V D Y A L E A M C C C L Y R D G Q G L D H L F M I A K D D G L A E Q Q W L L L L
UniRef90_A0A016XKM5 E P V D Y A L E A M C C C L Y R D G Q G L D H L F M I A K D D G L A E Q Q W L L L L
UniRef90_Q3IFS5 S L P F F E H S Q L E S L C C C L F R R Q P L G D I S L F A V D A A V G E V H Q Q F I I Y
UniRef90_Q3IFS5 S L P F F E H S Q L E S L C C C L F R R Q P L G D I S L F A V D A A V G E V H Q Q F I I Y
UniRef90_F6CVU0 F I A P E A V C C C L Y Q N V T T G E T T V T G L S D E G D V V V Q Q Y K I R R R
UniRef90_F6CVU0 F I A P E A V C C C L Y Q N V T T G E T T V T G L S D E G D V V V Q Q Y K I R R R
UniRef90_M2TD10 E R L E S L L G D W S A A A C C C T W R S A K S G E S Y I F L F F G K K M V V Q Q F L I R R
UniRef90_M2TD10 E R L E S L L G D W S A A A C C C T W R S A K S G E S Y I F L F F G K K M V V Q Q F L I R R
UniRef90_C0SI59 L G D W S A L L C C C P W R S P K S G T R F F Y L F F G K K Q A V V Q Q F I V V
UniRef90_C0SI59 L G D W S A L L C C C P W R S P K S G T R F F Y L F F G K K Q A V V Q Q F I V V
UniRef90_U2DIB9 K V D A G K G E A Y G I C C C M Y K A P E A T Y A F L V L K D G T I N Q V A L D Q N
UniRef90_U1K9D9 T V P A G L D E I Y G L C C C M Y K A P E A T Y A F L V L K D G T I N Q V A L D Q N
UniRef90_L8LQT0 G I D D G E Q T A Y G L T T Y T S P L I S N G A Y V F V I S N D E S G R F Q Q Y Q L A N
UniRef90_UPI000374DFA2 L P T S L G D W S A A C C C V W R S P T S G E S Y I F L F F G K K M V V Q Q F L T T
UniRef90_B2WM13 L G D W S A A A C C C V W R S P T S G E S Y I F L F F G K K M V V Q Q F L T T
UniRef90_B2WM13 L G D W S A A A C C C V W R S P T S G E S Y I F L F F G K K M V V Q Q F L T T
UniRef90_UPI0002558385 P L K S E L E E I Y G L C C C M Y S S S T G N Q L Y V F M N D K S G L F Q Q Y K L T T
UniRef90_Z5XUP6 L P T T L T E I Y G M C C C M Y S S S T G N Q L Y V F M N D K S G L F Q Q Y K L T T
UniRef90_I8T5U9 L P S S N G E A Y G L C C C L Y R R A D N R A L F A F V V G K S G R I E Q L R V D K
UniRef90_W7Y8Q2 S I P S S V D D V Y G L C C C M Y F D A V A N K H Y V F V I N G K N G K I E Q W L L K
UniRef90_G2E7J1 P V D D G S A T A Y G L C C C T Y R G L S D G A D Y A F V T Q A D G K I A Q L R L L E
UniRef90_F3LNF6 R I A T G L D E V Y G T C C C L Y A P A G G L E A L V N D K K E G R V Q L R L E
UniRef90_UPI000255BA4B L R N L D M E D P Y G L C C C Y R K A G A D L M T W V S D K E G A V Q L R Q I E V
UniRef90_B8HQM4 P F I F S Q R T A Y G I A T Y R N R L T G K T Y A F V S S Q R E R T V A Q L E L L
UniRef90_QOUBI4 L G D W S T A C C C V W R S Q K S G A S Y L F L F F G K S K V V Q Q F L I R R
UniRef90_QOUBI4 L G D W S T A C C C V W R S Q K S G A S Y L F L F F G K S K V V Q Q F L I R R
UniRef90_I0HTL4 P V E A S L F R D G Q G L D H L F V V G D D G Q A E Q Q W L L L
UniRef90_I0HTL4 P V E A S L F R D G Q G L D H L F V V G D D G Q A E Q Q W L L L
UniRef90_QOCTZ5 K V L G D W S C C C L F R D G P R G A D Y V F L L G K K Q A V Q Q F L V R R
UniRef90_QOCTZ5 K V L G D W S C C C L F R D G P R G A D Y V F L L G K K Q A V Q Q F L V R R
UniRef90_UPI0002E44ED5 P T S L P D V Y G L C C C Q Y Q S P E T G G Y Y I V V I N D G S G V Y H Q Q Y Q L D D
UniRef90_S8CEA4 S V R G D F S A L C C C T W R S K E T T G Y Q Y I Y V M G K Y G Y I V R E K S D D
UniRef90_S8CEA4 S V R G D F S A L C C C T W R S K E T T G Y Q Y I Y V M G K Y G Y I V R E K S D D
UniRef90_UPI0003796BA6 I S P Q S A L C C C F Y Q N N D R T H L F T I G D D G L G H E Y L V S
UniRef90_UPI0003796BA6 I S P Q S A L C C C F Y Q N N D R T H L F T I G D D G L G H E Y L V S
UniRef90_U7QBF4 G V D D G E Q T A Y G L A T Y K S P I S D N S Y A F V T Q A D N Q F A Q L E L V
UniRef90_K6ZV69 L P T D L N D V Y G L C C C L Y K S H D D G K L E V T I N D T D G Q V F N R Y Q L A
UniRef90_UPI000365313E T S N I A T P R G F S F Y H S P D T G K Y F A Y V T D V G K V E Q Q W L L
UniRef90_W1S8I4 G T G E A Y G I C C C L G R D E A G L Y G F I V L K D G T I H Q I A I D
UniRef90_UPI0004057190 K V R T D V D Q E I Y G L C C C M G Y R D A G E Q T S V Y I N N K G S G R I H F V L F T
UniRef90_Q7NIT3 G F V F S A D A Y G L A L Y R N R H S G R T S F A F V S N Q K S R T I A K L E L F S
UniRef90_UPI0003A35A09 R L P T G K T E P Y G F C C C L G Y D G E T V H A F V T Y K D G A V Q Q R W R V S
UniRef90_QOAM33 A D V T E P Y G F C C C L Y R S P V D T Q S L Y A F L S D K E G T F V Q Y A L G
UniRef90_U5QIM4 G F V F S K D Q A Y G L A L Y R D R S T G R T Y A F V T Q S R T I A K L E L L
UniRef90_R4UQ44 L T D I D E I Y G L C C C M G Y N E S T E Q T S V Y V N G K S G V I Q Q F V I S
UniRef90_UPI00036F84A5 P F T N V E D P Y G F C C C L Y H D Q A H D A F Y A F T S D S D G V F I Q T R I S
UniRef90_UPI0003659G6Y3 I Q T G K T E P Y G I C C C L G D G S N P I A G V T Y K D G T V E L W K I S E
UniRef90_W3WTE0 S L K K V L G V C C C A W R S P V S S G E Q Y L Y L F G K G Q Q V Q F L L R R
UniRef90_W3WTE0 S L K K V L G V C C C A W R S P V S S G E Q Y L Y L F G K G Q Q V Q F L L R R
UniRef90_UPI0003619F55 E L P A G V C C C L Y K N V T T D E L T I S G F S E D G E I I Q Y K L R R
UniRef90_UPI0003619F55 E L P A G V C C C L Y K N V T T D E L T I S G F S E D G E I I Q Y K L R R
UniRef90_A3WK29 Q V S T D L D E I Y G L C C C M G Y E E H T D R L S V Y V N G K S G R I Q Q F W I S
UniRef90_UPI000301CA62 R V A A G A G E A Y G L C C C L W A T P E G A L T A F I V L K D G A I R Q I E L D
UniRef90_A8P5M1 K P D F S V Y G S C C C L Y H S R S S G K Y I F V N S K T A E Y L Q Y E L T S
UniRef90_S5C1H3 I D T T L T D I Y G M C C C L F V E N G V T Q V F A N D T S G L F F E R Y E V S
UniRef90_UPI00036593E7 K D A D L E S V C M G R N N Q A F D V V A T D A R G R L H Q Y
UniRef90_UPI00036593E7 K D A D L E S V C M G R N N Q A F D V V A T D A R G R L H Q Y
UniRef90_U5DNR8 G V D D G E A T A Y G L A T Y T S P V S S G K S Y V F V T Q A D G N V A Q L E L V
UniRef90_K9RD49 G V D D G E A T A H G V C C C M Y R S P S T G K L Y A Y P N S P S G R L E Q W L L K
UniRef90_D9USA7 E V G A G E A Y G L C C C L G R D A A G L S A F I V L K D G T I N Q L L T
UniRef90_G2IPZ8 F Y P V G G A G E A Y G M C C C L W T R A R D K A L F G F I V L K D G R I Q Q V R I D
UniRef90_S3GIZ1 F H T D M G E P Y G F C C C M G R R Q D G V Y L V A N N K A G Q L R I W R V R
UniRef90_M2U638 I P T P L T D I Y G L C C C A F S N N H T Q V L V N S T D G R Y L H Y Q L T
UniRef90_F5Z928 P V F E G E R D P M G V S L Y T R P S D K A I F A I V G R K T G P L W Q Y K L T
UniRef90_UPI00040A981B P A I F S S R T A Y G L A T W T D P S S G R S Y A V V S R R E S T A L L L L T
UniRef90_S3AMS3 P A I F S S R T A Y G L A T W T D P S S G R S Y A V V S R R E S T A L L L L T
UniRef90_UPI000468F490 P V F E G E K D P M G L A T Y T R P S D K A I F A I V G R K S P L W Q Y E L K
UniRef90_W0AG29 T V P S I E G E A Y G M C C C L F Y R D A G A L Y A F M V T K E G G I G Q V A L D
UniRef90_K0CP11 I S T T L N D I Y G M C C C L F V S G G T A H V F A N D T S G R F F E R Y S V S
UniRef90_A0A010QAZ2 I S T T L N D I Y G L C C C M F V S D G V A Q V F A N D T S G R F F E R Y H L S
UniRef90_D7W501 F E G E T A R G P M G I S M Y K N P Q T E E I F V I V G R K D G Y L W Q Y K L S
UniRef90_F9YVW2 P V F E G L R D P M G I A T Y S D A E N G K I Y V I V G R K E G T P L W Q Y E L T
UniRef90_QOC5T3 I P T P G M I E P Y G I C C C Q G R E N G R D L A G V T Y K D G T L Q Q W E M S
UniRef90_C7PMI9 P V F E G E K E P M G V A Q M Y T R P E D A A I F A I V G R K T G P L W Q Y R L V
UniRef90_A5FK69 P V F E G E R D P M G I A L Y T R P S D G K I F A I V G R K T G P L W Q Y E L S

UniRef90_L7INP0 P A D G G S F E V L L E V V R R A L L P A P V V V F V G C C A V S P R R Q D A K L L Y L Y T E E D D D Q Q
UniRef90_L7INP0 P A D G G S F E V L L E V V R R A L L P A P V V V F V G C C A V S P R R Q D A K L L Y L Y T E E D D D Q Q
UniRef90_K2K3B9 A A A Q T G E W V G A K L V V R R A L L P A P V V V F V G C C A V S P R R Q D A K L L Y L Y T E E D D D Q Q
UniRef90_UPI0003B70C98 V Q D T T E V H G A Q P V V R R A L L P A P V V V F V G C C A V S P R R Q D A K L L Y L Y T E E D D D Q Q
UniRef90_F2JWW1 L D G D T V K S A E Q P V V R R A L L P A P V V V F V G C C A V S P R R Q D A K L L Y L Y T E E D D D Q Q
UniRef90_F2JWW1 L D G D T V K S A E Q P V V R R A L L P A P V V V F V G C C A V S P R R Q D A K L L Y L Y T E E D D D Q Q
UniRef90_E6RNI3 D L A T N Q A K N I A V R R E F S A V T E A S G G C C A V S P R R Q D A K L L Y L Y T E E D D D Q Q
UniRef90_E6RNI3 D L A T N Q A K N I A V R R E F S A V T E A S G G C C A V S P R R Q D A K L L Y L Y T E E D D D Q Q
UniRef90_U4LK71 S T E P D G S Q L N T T L V V R R Q S F D V V P T E F F A G G C C A V S P R R Q D A K L L Y L Y T E E D D D Q Q
UniRef90_C9SJ19 R E A G E S V E F V E V V Q R S F D V V P T E F F A G G C C A V S P R R Q D A K L L Y L Y T E E D D D Q Q
UniRef90_C9SJ19 R E A G E S V E F V E V V Q R S F D V V P T E F F A G G C C A V S P R R Q D A K L L Y L Y T E E D D D Q Q
UniRef90_UPI00047A9F34 L T G E A P S A T L A R R A F R V E S Q S P E G C C A V S P R R Q D A K L L Y L Y T E E D D D Q Q
UniRef90_L0DFQ9 D N D R Q A I G A T R V R R A F R V E S Q S P E G C C A V S P R R Q D A K L L Y L Y T E E D D D Q Q
UniRef90_C5JGK5 R H G T K F E I L E V V Q S F D I L P V E P N A C C A V S P S E G T V Y F A D D D D K K
UniRef90_C5JGK5 R H G T K F E I L E V V Q S F D I L P V E P N A C C A V S P S E G T V Y F A D D D D K K
UniRef90_N4VKU4 R K G K A D I E L L V Q V Q T F P A P A E F S G S C C A V S A A Q S R M M L A D D D D R R
UniRef90_N4VKU4 R K G K A D I E L L V Q V Q T F P A P A E F S G S C C A V S A A Q S R M M L A D D D D R R
UniRef90_A0A016XKM5 P D A Q G G A P R L L R H L A L P P N A E S C C R G D D D Q R G L I L I T T E T G R
UniRef90_A0A016XKM5 P D A Q G G A P R L L R H L A L P P N A E S C C R G D D D Q R G L I L I T T E T G R
UniRef90_Q3IFS5 N A K Q Q H I D I Q P I R S F V G V P E V V Q G C C A V D D S R R E Q L Y L V I E G N I
UniRef90_Q3IFS5 N A K Q Q H I D I Q P I R S F V G V P E V V Q G C C A V D D S R R E Q L Y L V I E G N I
UniRef90_F6CVU0 H R N G Q I E S A V V R H A Q V V G G K L S A C C A V A D D E T G S L Y V A E Q D D V
UniRef90_F6CVU0 H R N G Q I E S A V V R H A Q V V G G K L S A C C A V A D D E T G S L Y V A E Q D D V
UniRef90_M2TD10 D S K D E A E L E V I Q T F P I D I E G E S C C S V F S N G Q V F F S A E D D R
UniRef90_M2TD10 D S K D E A E L E V I Q T F P I D I E G E S C C S V F S N G Q V F F S A E D D R
UniRef90_C0SI59 R E K N N A I D V L E V Q T F G I P V E P N S C C A I S P D D S T V Y A A D D D D K K
UniRef90_C0SI59 R E K N N A I D V L E V Q T F G I P V E P N S C C A I S P D D S T V Y A A D D D D K K
UniRef90_J2DIB9 A S G A A P T G R I V R S M K L G T Q S E G C C A V D D R D T G L Y Y A A E D D D V
UniRef90_U1K9D9 A N T G K I A A A K V R Q I S L N S Q P E G C C V A D D D R E R G R L Y V I G E E D D V
UniRef90_L8LQT0 A T D G K I D A E I V R E F T V V E G M V A D D T G L Q Y T L Y L Y G G E E N F
UniRef90_UPI000374DFA2 D L S N E K T I T A N L V R E F A V S S Q P E G C C V A D D T G T Q Y T L Y L Y G G E E N K
UniRef90_B2WM13 R D T K K R V E V L E V Q T F A A P I E A E T C C A V F S A G Q V F F S A E E D R
UniRef90_B2WM13 R D T K K R V E V L E V Q T F A A P I E A E T C C A V F S A G Q V F F S A E E D R
UniRef90_UPI0002558385 V V D N K K L K G N L T Q R I Q V G S I T E G M V A D D E T G G A I Y I A E E N V
UniRef90_Z5XUP6 G N A T S V N A K L V R E F N V P S I T E G M V A D D K T G E L F L G E E D E
UniRef90_I8T5U9 V S A A Q P A S V L Q L A S S Q S C C V V D D R T G M L Y V V G E E D V
UniRef90_W7Y8Q2 N D N D S I K G E L A R S F W V P E G M V V V D H V T N T L F V V G V E E D V
UniRef90_G2E7J1 D A G D G T V S A E V A R M I E L P S Q S E G M V A D R E L G V L Y V A M E D D V
UniRef90_F3LNF6 A D G R P V F S G R V K L R F K L E S Q V P E G C C V A D D D S Q R L F L G E E D R
UniRef90_UPI000255BA4B P T G N V D W S L R K L A T L E V A S Q V E G C C V V D D D E M Q M L F F G E E D G
UniRef90_B8HQM4 D A G Q G K V S Y R K I R E L V L P S Q V E G M V V D E E T K Q L Y M G Q E D D V
UniRef90_Q0UBI4 D K K K D V E I V E T F P V P I E G E T C C T V F L N G Q V F F S A E E D R
UniRef90_Q0UBI4 D K K K D V E I V E T F P V P I E G E T C C T V F L N G Q V F F S A E E D R
UniRef90_I0HTL4 G A Q G A R L V R R L A L P P Q T Q A C C R V D D A A G W L Y A Q E E E D A
UniRef90_I0HTL4 G A Q G A R L V R R L A L P P Q T Q A C C R V D D A A G W L Y A Q E E E D A
UniRef90_QOCTZ5 G N R K E L E I L E V Q A F P L P V E P S S C C A V D P E Q G V V Y F A A E E N T
UniRef90_QOCTZ5 G N R K E L E I L E V Q A F P L P V E P S S C C A V D P E Q G V V Y F A A E E N T
UniRef90_UPI0002E44ED5 F S S A S Q V T G K L V R E F K V P E S Q P E G C C V A D A Q T K T L Y L Y G G E E W
UniRef90_S8CEA4 K R R R K S D K L E I V Q E F A L P V E P N S C C T V T D G K V F F G G A N G
UniRef90_S8CEA4 K R R R K S D K L E I V Q E F A L P V E P N S C C T V T D G K V F F G G A N G
UniRef90_UPI0003796BA6 P G P S T W E L V E I R P L Y F G E Q V N A C C A V A P F N E K L L F S Q P P I
UniRef90_UPI0003796BA6 P G P S T W E L V E I R P L Y F G E Q V N A C C A V A P F N E K L L F S Q P P I
UniRef90_U7QBF4 D N G L G Q V D A N L V R T I E L P S Q S E A T V V D Q E L S F V Y L A M E N V
UniRef90_K6ZV69 I D S S D I S A K K I D Y F R A N S P E G C C V V D D D T K R L F F G E E S T
UniRef90_UPI000365313E D G S T G S V T A G K L V R S W T V P A H T E G L V A D D D E M K R L Y I A E Q E D V
UniRef90_W1S8I4 A S G A T P T G R T V R T M K L G T Q A E G C C A V D D R T G T L Y V A E E D V
UniRef90_UPI0004057190 A D G A T F A R E M T V P S Q V P E G C C V V D D A T Q R L F V G E E D V
UniRef90_Q7NIT3 D I G G G Q V G Y R K I A E M T L P N Q V P E G M V V D Q E L G L Y A G Q E D V
UniRef90_UPI0003A35A09 G F A D G A V S A T A G E G W K L E T Q L E G C C A A D E E N G Q F Y I G E E M R
UniRef90_Q0AM33 W D G T V V T T Q E V R V I T L G T I A E G C C V A D D R T G Q L Y M N E E N V
UniRef90_U5QIM4 D V I G G G R I L G Y Q K V G R I E L P S Q S P E G C C V V D D K T Q R L F V G E E D V
UniRef90_R4UQ44 N D G K M E K V R E L S V P S Q S P E G C C V V D D K T Q R L F V G E E D V
UniRef90_UPI00036F84A5 F D G E T M Q G G E L R R I N K V G S K S E G C C A V D D R T G L Y I A E E E V
UniRef90_A0A059G6Y3 G E A D G V T G Q K L R S V N L A T Q L E G C C V F D E V N G Q L Y I G E E H
UniRef90_W3WTE0 A V D E N E F E L V E V Q T F E T A F E A S S C C A V S P V D G L V F F G D D D S
UniRef90_W3WTE0 A V D E N E F E L V E V Q T F E T A F E A S S C C A V S P V D G L V F F G D D D S
UniRef90_UPI0003619F55 Y D G S N I I S A V P V R R F T V G G E I S A C C I T D D E N G L L F I A E Q D L
UniRef90_UPI0003619F55 Y D G S N I I S A V P V R R F T V G G E I S A C C I T D D E N G L L F I A E Q D L
UniRef90_A3WK29 K G A D D V K K V R E M S V A T Q S P E G C C V V D D K T Q R L F V G E E D V
UniRef90_UPI000301CA62 P A K A T G R I V R T M K L A T Q S E G C C V V D D A R T A R L Y V A E E D V
UniRef90_A8P5M1 P S L E A V L V R E F G N G G Q V E G C C V G D D E N G F V Y I G E E P Y
UniRef90_S5C1H3 F N K N K K A K G T L T Q S F S L P A S P E G C C V D T H T N T A Y F G E E G A
UniRef90_UPI00036593E7 Y F N G K S L Q L V K T M N T G A G I T S C C Q I N E S E K Q L V L A D E N L
UniRef90_UPI00036593E7 Y F N G K S L Q L V K T M N T G A G I T S C C Q I N E S E K Q L V L A D E N L
UniRef90_U5DNR8 A T S G G L V D A R V V C T L E L P S Q S E G L V I D R E T G T G Y V A E E D V
UniRef90_K9RD49 P A D E Q L I E A E V V R T L E L P S Q S E G V V I D Q E T G F L Y V A E E D V
UniRef90_D9USA7 V S G T G V T A E S V R L F D V G D E I E G C C Y A D E R T G A L Y V A E E D K
UniRef90_G2IPZ8 D A A G A P T G R I V R T M K L G T Q A E G C C A V D D R T G R L Y V A E E D V
UniRef90_S3GIZ1 L S G P T P R V E T V R S M K L G T Q A E G C C V V D D R T G L Y V A E E D V
UniRef90_M2U638 S E S G A P A T E L V R S L K V G S Q P E G C C V V D D E A D R L Y V A E E D V
UniRef90_F5Z928 L E D A S R V S A T L I H D F E L P S P E G C C V V D D T D T Q L A Y L G E E G A
UniRef90_UPI00040A981B D G S G T V K A E L V R K F G K F S E I E A V D N E L G Y I Y Y S D E E Q S
UniRef90_S3AMS3 G S D D G T V S Y R K V R T L Q L P S Q V E G M V V D T E N G L Y Y A G Q E D V
UniRef90_UPI000468F490 G T N N T K V E G T L V R K F G A Y S E I A V D N E L G A V Y Y S D E E Q F
UniRef90_W0AG29 L T G A Q P V G R L V R R L G K V G S Q A E G C C V V D D E R T H R L Y V A E E D V
UniRef90_K0CP11 I S P D K S I D G H L T Q S F S L P S Q P E G C C V V D T K T S T A Y L G E E G A
UniRef90_A0A010QAZ2 I D T A K T I N G H L T Q S F S L P S Q P E G C C V V D T K T N T A Y L G E E G A
UniRef90_D7W501 E K N G S I T G E V V R K F G K Y S E I E A I A V D N E M G Y I Y Y S D E Q F
UniRef90_F9YVW2 A N E L V T A Y K V R E F G K Y S E I E A I A V D N E L G Y I Y Y C D E T V
UniRef90_Q0C5T3 A A P E G V A G D L K T V K L E T Q L E S C V F D E A N G L M F V G E E N R
UniRef90_C7PMI9 D E N G V V A G R L L R K V F G A Y S E I E A I A V D N E L G Y V Y Y S D E T V
UniRef90_A5FK69 G N G K F A A K V V R K F G T Y S E I E A I A V D N E L G F V Y Y C D E Q A

UniRef90_L7INP0 D V Y V M D V G D M A G Q P T L K K V K G V K D A T G L A L Y S S G D 210 220 230 240

UniRef90_L7INP0 D V Y V M D V G D M A G Q P T L K K V K G V K D A T G L A L Y S S G D

UniRef90_K2K3B9 A V I W R F A A A A D A D A G T R G E A R I Q Q L V A E A S H L E V A D V E G L A L Y S S G D

UniRef90_UPI0003B70C98 A G I W F I G A E A P D A G T R A Q F L D Q V V E E P H G K L E E I E N I D L A I Q E G G D

UniRef90_F2JWW1 G V W K Y G A D A E N S V K D R A Q F L D V V V E P P H G K L E E I E N I D L A I Q E G G D

UniRef90_F2JWW1 G V W K Y G A D A E N S V K D R A Q F L D V V V E P P H G K L E E I E N I D L A I Q E G G D

UniRef90_E6RNI3 G V W A I N A D A E S D A N K Q P V A L V V N G K T L F A D V E G V T L V T P G K T

UniRef90_E6RNI3 G V W A I N A D A E S D A N K Q P V A L V V N G K T L F A D V E G V T L V T P G K T

UniRef90_U4LK71 G I W R F G A E P N S T S P E G F L V D S V N G K T L F A D V E G V T L V T P G K T

UniRef90_C9SJ19 I H Q I D L A E E S T S T P G L S V L G K T E D T A T G I A V Y T Q G T

UniRef90_C9SJ19 I H Q I D L A E E S T S T P G L S V L G K T E D T A T G I A V Y T Q G T

UniRef90_UPI00047A9F34 A V W T L P A D P E V P A T T R K V V M A V G E G K L V A D V E G L A L Y A G E D E

UniRef90_L0DFQ9 A I W E Y G A E P E V P A T T R R A V A R V G E H G L T A D V E G L A L Y Y A P

UniRef90_C5JGK5 S V Y T F K A E D S T T T T P E I T V V L G K A E D D V T G L A I Y V T E

UniRef90_C5JGK5 S V Y T F K A E D S T T T T P E I T V V L G K A E D D V T G L A I Y V T E

UniRef90_N4VKU4 G V Y A F N L T E S T A A P E V V K M G E A A A D V T G V A V Y S L N T

UniRef90_N4VKU4 G V Y A F N L T E S T A A P E V V K M G E A A A D V T G V A V Y S L N T

UniRef90_A0A016XKM5 G F W A Y A A D G E G G F W A Y A A D G E G

UniRef90_A0A016XKM5 G F W A Y A A D G E G G F W A Y A A D G E G

UniRef90_Q3IFS5 G V W Q Y D A N P E S D P M R T L I V A A N P G Q L Q G D I S D I S V T A E

UniRef90_Q3IFS5 G V W Q Y D A N P E S D P M R T L I V A A N P G Q L Q G D I S D I S V T A E

UniRef90_F6CVU0 G I W V Y G A D A E N V K D R R L M D V V A S P L G H L E E I E S S M D M V Y Q A N

UniRef90_F6CVU0 G I W V Y G A D A E N V K D R R L M D V V A S P L G H L E E I E S S M D M V Y Q A N

UniRef90_M2TD10 P L Y S F Q A S E T T T E A P A I Q T V A S D V V K V A G L A T Y H G I

UniRef90_M2TD10 P L Y S F Q A S E T T T E A P A I Q T V A S D V V K V A G L A T Y H G I

UniRef90_C0SI59 S I Y S F K A E D S T S A P K V D M V G K V E D D I N G L A V Y V A V S

UniRef90_C0SI59 S I Y S F K A E D S T S A P K V D M V G K V E D D I N G L A V Y V A V S

UniRef90_J2DIB9 S I Y S F K A E D S T S A P K V D M V G K V E D D I N G L A V Y V A V S

UniRef90_U1K9D9 G I W A T S L N P A D N S Q P V S V A K V G E D N H L V D D V E G L A L Y F G

UniRef90_L8LQT0 G I W K F L A E P E T D T P L L V D Q V G E D N L T P D V E G L L T I Y Y G S S

UniRef90_UPI000374DFA2 A I W S I S A E P D G K A P L S L F Y Q V D N E V L F A D V E G L S I Y K S Q S

UniRef90_B2WM13 P L Y S F Q A S E S T Q A P E I Q V S P V S G K

UniRef90_B2WM13 P L Y S F Q A S E S T Q A P E I Q V S P V S G K

UniRef90_UPI0002558385 A L W K Y N A N D L N Q K R T L I A K T N D M L V D D F E G V T L Y K K E K

UniRef90_Z5XUP6 G I W F I G A E P T A G T Q P V M L Q T I N D M L V D D F E G V T L Y K K E K

UniRef90_I8T5U9 G I W R F D A S P T G A D T S G E R L F A K A V D K R V L V D D V E G L L A L A R I V S D

UniRef90_W7Y8Q2 A I Y K F K A Q A P Q A D T S I R L T A A N N A H I S Y D I E G L L T L Y Y G P G

UniRef90_G2E7J1 G V L K F S A E V D G G N D Y S L V Q S I D A H F L K P D I E G L L T L Y Y G P G

UniRef90_F3LNF6 G I W M L D L N A A E P K P Q L V L K V G G E R L L Q A A D V E G M G F Y H A D R D

UniRef90_UPI000255BA4B G I W R L D A Y L A G E A K P Q L I A P V D G G E R L L Q A A D V E G M G F Y H A D R D

UniRef90_B8HQM4 G I W K V S L A R F G Q N S P L L L D R V G S R Y L Q A D V E G L T I Y Y A A G

UniRef90_Q0UBI4 P L Y S F Q A T E S T R A P E V K T V S D K I E V V A G L A T Y H S N

UniRef90_Q0UBI4 P L Y S F Q A T E S T R A P E V K T V S D K I E V V A G L A T Y H S N

UniRef90_I0HTL4 G V W A Y R A E A E G A P R R R A V A L A G P G P L R G G V Q A M A V V P G G D

UniRef90_I0HTL4 G V W A Y R A E A E G A P R R R A V A L A G P G P L R G G V Q A M A V V P G G D

UniRef90_QOCTZ5 M L Y S F Q A A E E S T V A P E I K A F G E V G D D I S G L A V Y V S H

UniRef90_QOCTZ5 M L Y S F Q A A E E S T V A P E I K A F G E V G D D I S G L A V Y V S H

UniRef90_UPI0002E44ED5 G I W T I G A E P D A G T K L E P F Y Q V D G D V L V D D V I E G L S L Y P N K R D

UniRef90_S8CEA4 K L Y S F P A A D S T A I P K I T D I I G E P A G G D E I N G L K S Y H H G K D

UniRef90_S8CEA4 K L Y S F P A A D S T A I P K I T D I I G E P A G G D E I N G L K S Y H H G K D

UniRef90_UPI0003796BA6 G I I S M N A D A E K D E E R K L L M Q A D Q L G E D F F G G L W I D H H S G N

UniRef90_UPI0003796BA6 G I I S M N A D A E K D E E R K L L M Q A D Q L G E D F F G G L W I D H H S G N

UniRef90_U7QBF4 G I L K F Q A E P D A G D N F E V V Y N V E D D I L V P D L E G L T L Y Y G D N

UniRef90_K6ZV69 G V W K M Q L D N I N E Q L I A K A H A P V K P D I E G M G I Y S I D

UniRef90_UPI000365313E G I W R Y G A E P G D S T A G T K V V S T N G G G D I V D D I K G V S I Y G S G

UniRef90_W1S8I4 G L W R F D A R A T G S T T P V Q I A A D G K N L V M D A E G V A I A P I G E

UniRef90_UPI0004057190 A V W Q F D A R A S A T T Q G Q A V I H V A D A G K E L S A D V E G L A Y A V V D

UniRef90_Q7NIT3 G I W R I S A A F E A S P V L V D K V G A K H L S A D V E G L L T I Y Y T A S

UniRef90_UPI0003A35A09 G F W R A P L S G G E A V L V D E I S G E G L T G D V E G L D I Y E G D A

UniRef90_Q0AM33 G V W T M G A E P T D R A E P Q P I A V T S G R E I A A D A E G A A L L P Q G E

UniRef90_U5QIM4 G I W R I P P S F N R T Q A V L I D R V S G K H I S A D A E G L T L Y Y T A G

UniRef90_R4UQ44 A V W L F D A A D G S T S G E A I I N V D Q Q E E L V D D I E G V T F A R V N

UniRef90_UPI00036F84A5 G L W R Y S A A P E A N E D R L L A P T D G Q N G L T A D I E G V A I M E T G E D

UniRef90_A0A059G6Y3 G I W T L A Y E E A D S Q P I E L D T I A A G N H L V A D V E G V S M W R G K D

UniRef90_W3WTE0 T V Y T F N A S E S T A T P E I T I L G K A S D D I T G L T V Y V S L

UniRef90_W3WTE0 T V Y T F N A S E S T A T P E I T I L G K A S D D I T G L T V Y V S L

UniRef90_UPI0003619F55 G V W A Y G A D A E N I K T R Q L V D A I A P L G K L E E I E G L D L I Y A Q N

UniRef90_UPI0003619F55 G V W A Y G A D A E N I K T R Q L V D A I A P L G K L E E I E G L D L I Y A Q N

UniRef90_A3WK29 G I W L F D A A V N S A E Q G E L I A K A T D A E I V P D I E G L A F A Q Y N N

UniRef90_UPI000301CA62 G I W R F D A R A S G S T P V K L I A A D G K R L V A D V E G L A I A A E G A

UniRef90_A8P5M1 G L W R Y G A E P D A G T D R V L V D S I Q G N L F P D V E G V A T L V H G P T

UniRef90_S5C1H3 G I W S M D I S S T K H E P T F V S A T A P P V E A D M E G V A L F T V D

UniRef90_UPI00036593E7 G L L F Y S S Q W E A D E S R A L Y R P E D I T G F E G V A T Y

UniRef90_UPI00036593E7 G L L F Y S S Q W E A D E S R A L Y R P E D I T G F E G V A T Y

UniRef90_U5DNR8 G I L K F A A E P N G G D D F T L V Q S V D T S Y V P D I E G L S I Y Y G E D

UniRef90_K9RD49 G I L K F S A E P D A G S D F T V V V S V D A D A Y L T P D I E G L S I Y Y G D N

UniRef90_D9USA7 G I W K Y G A E P G A D T S R T L F D T A S G G H L T A D V E G I T V A

UniRef90_G2IPZ8 G L W R F G A S P T A P V E P V K V I A A A D G R Q I V A D A E G V A L V P E G A

UniRef90_S3GIZ1 G L W R F A A D P A A P T T A T P I A R R V D G R T L V A D A E G L A I M R D A

UniRef90_M2U638 A I W R F D F A P D G N G K A T R I A G V D G Q R T I T D D I E G V S I M R D A

UniRef90_F5Z928 G L W A L D V S E A E T M P S S T L S K T F N K T V T A D L E G L S I F D V D

UniRef90_UPI00040A981B G M R K Y V I A D P D A K N N E L S A F F G Q K D F K A D N E G I A I Y K K T A

UniRef90_S3AMS3 G I W R I D A G L R G T P V L I D K V G G K R L S A D V E G L T L L H Q K A D

UniRef90_UPI000468F490 G I R K Y K A D P S L N D N Q E I A L F G Q K D C K A D H E G L A I Y K A S A

UniRef90_W0AG29 G L W R F D A R P T G A N A E V S I A K V D K Q R L F D D V E G L A I A S G S E

UniRef90_K0CP11 G I W A L D I T S N S N Q P Q F L A E I E A P V E A D V E G L A L F N V D

UniRef90_A0A010QAZ2 G V W A L N V S K N N E V P R F I A E I A A P V E A D V E G L A L F E V D

UniRef90_D7W501 G I H K Y Y A D P E K G N E E L S V I F G K G D F T S D V E G I S I Y P T S K

UniRef90_F9YVW2 G I R K Y Y A D P K K G N Q E L A L F A T E G F K R D H E G I A I Y H Q T D

UniRef90_QOC5T3 G L W T V A Y R E D A P T P A L I D T I D G P N L V A D V E G V S I W K G A N

UniRef90_C7PMI9 G V R K Y L A D P A K W E N K E L A L F A K E G N G L V S D V E G I S I Y P T S K

UniRef90_A5FK69 G I R K Y K A D P A L N D N K E L A F F G Q K D F K A D H E G I A I Y K K T D

UniRef90_L7INP0 Q E Y V F V A 250 Q E S Q L S V Y G 260 P D W T L L G T V Q L L A G L D D I 280
UniRef90_L7INP0 Q E Y V F V A Q E S Q L S V Y G Q Q P P W T L L G T V Q L L A G L D D I
UniRef90_K2K3B9 D R G Y L V V S S Q Q G N D N S Y I L Y F R Q Q E P P Y A L L K H F R I R T N L G I D G
UniRef90_UPI0003B70C98 G T R L L V V S S Q Q G N D N S Y I L Y F R Q Q E P P Y A L L K H F R I R T N L G I D G
UniRef90_F2JWW1 G K G V V L I A D E E G K G F N L Y D R N S G G E F L A K F D V
UniRef90_F2JWW1 G K G V V L I A D E E G K G F N L Y D R N S G G E F L A K F D V
UniRef90_E6RNI3 G T L W L S A T D D G G N K V Y A Y Q A Q T D W S L A G E H T I
UniRef90_E6RNI3 G T L W L S A T D D G G N K V Y A Y Q A Q T D W S L A G E H T I
UniRef90_U4LK71 K D G F I L V S Q Q G V S A Y N V Y R R K L P H K F V M T F T I S E D G K V I D G
UniRef90_C9SJ19 D A D Y L F I A S Q Q E E G T T V A V Y R Y P F F E L V G T L A L L T G L E E D I D G
UniRef90_C9SJ19 D A D Y L F I A S Q Q E E G T T V A V Y R Y P F F E L V G T L A L L T G L E E D I D G
UniRef90_UPI00047A9F34 H R Y L V I S S Q Q G N N S T Y V V Y L D A L P P Y A Y R G R F R L A L D S G V D G
UniRef90_L0DFQ9 G K G Y I L A S S S Q G G N N S T V I N V Y E R S G D H A Y V L T I D P K A S G N G D
UniRef90_C5JGK5 S S T Y L F I A S S E Y T T I G I Y Y S P K L I E L Q G T V E L T G L E E D I
UniRef90_C5JGK5 S S T Y L F I A S S E Y T T I G I Y Y S P K L I E L Q G T V E L T G L E E D I
UniRef90_N4VKU4 T D D Y L L V A Q E S A V A V Y R S S F F E L V G T L R L T G L E K V
UniRef90_N4VKU4 T D D Y L L V A Q E S A V A V Y R S S F F E L V G T L R L T G L E K V

UniRef90_A0A016XKM5
UniRef90_A0A016XKM5
UniRef90_Q3IFS5
UniRef90_Q3IFS5
UniRef90_F6CVU0 G K G Y L L I A D E G A G F L V Y D R E G E Q S F K A K F D V V E E A K I L A
UniRef90_F6CVU0 G K G Y L L I A D E G A G F L V Y D R E G E Q S F K A K F D V V E E A K I L A
UniRef90_M2TD10 S E D Y L F V A H D T T L D V Y D A T V K L R G S I A L S G I S E
UniRef90_M2TD10 S E D Y L F V A H D T T L D V Y D A T V K L R G S I A L S G I S E
UniRef90_C0SI59 S I H F L I V S A N T I L G V Y S P R L E L Q G S L K L T G F E E L
UniRef90_C0SI59 S I H F L I V S A N T I L G V Y S P R L E L Q G S L K L T G F E E L
UniRef90_J2DIB9 K D G Y V L V S S Q G G N N S Y Q L Y E A T P P Y R H L A G F R V G L D G G I D G
UniRef90_U1K9D9 K S P V L V S S Q G G N N S Y Q L Y E A T P P Y R H L A G F R V G L D G G I D G
UniRef90_L8LQT0 G K G Y L F A S S Q G G D S T Y A I Y E R S G D N N Y L G N F A I G N S R D I D G
UniRef90_UPI000374DFA2 A P D Y L V V S S Q G G N N S Y L V F D L S T G Q L A A R F K I G A D N G I D G
UniRef90_B2WM13
UniRef90_B2WM13

UniRef90_UPI0002558385 G Q G Y L I L S S Q G G N N S Y A V F D R A S H K Y L K S F T L V D G R V D G
UniRef90_Z5XUP6 T R Y L V V S S Q G G N N S Y V L Y K I V P S L E F A G K F A I S N N L A I D G
UniRef90_I8T5U9 R G G Y L V A S S Q G G D S Y A V Y A L L E D G A P V G R F R I T D N G G V D G
UniRef90_W7Y8Q2 T K G Y L L A S S Q G G N F S Y A I F A D L S E K N N Y I T S F I I K D G V F D G
UniRef90_G2E7J1 G T G Y L L V S S Q G G D S T Y A V F E R S G D N A Y V G S F V V A D T D G I D Q
UniRef90_F3LNF6 G R R W L V V S S Q G G N D S Y A V F A E A A P P W R V K G A L R I G L D P G I D G
UniRef90_UPI000255BA4B K S Y L V V S S Q G G N N S Y A V F A N R D G S E F V G H F K V D I N K G L D G
UniRef90_B8HQM4 N R G Y L L V S S Q G G N N T F A I Y D R R S T N R Y L G S F G L V N A G R V D G
UniRef90_QOUBI4 S S D Y L F V F H V Y D S K I A P K G T V E F N G V A D L S I E G
UniRef90_QOUBI4 S S D Y L F V F H V Y D S K I A P K G T V E F N G V A D L S I E G
UniRef90_I0HTL4
UniRef90_I0HTL4
UniRef90_QOCTZ5 R S H Y L F V A Q T D V I E I Y S P S L E L K G S L A V T G A E D I E I
UniRef90_QOCTZ5 R S H Y L F V A Q T D V I E I Y S P S L E L K G S L A V T G A E D I E I
UniRef90_UPI0002E44ED5 S E K Y L V A S S Q G G D S Y V V F D L A K N G Q V V A K F N L V A D E V I D G
UniRef90_S8CEA4 N T Y L L V G I E D A I E V F D D V K K L D K S I G T I K F A D E E
UniRef90_S8CEA4 N T Y L L V G I E D A I E V F D D V K K L D K S I G T I K F A D E E

UniRef90_UPI0003796BA6
UniRef90_UPI0003796BA6
UniRef90_U7QBF4
UniRef90_K6ZV69 G N G Y L I A S S Q G G D S S Y G L F E R A G N N E F L G Q F I I A G N G D I D Q
UniRef90_UPI000365313E G A G Y L L A S S Q G G N N R F A I Y R S R D D N R P L G A F A I P A N G N G I D A
UniRef90_W1S8I4 K D G Y V I V S S Q G G D N A Y V V Y K M S D D S Y V G R F R I V D G A I D G
UniRef90_UPI0004057190 G E P L L F V S S Q G G N D S Y L V F D G E A P W A L R S H F R I R T N P G I D G
UniRef90_Q7NIT3 N T G Y L I A S S Q G G D N T Y A V Y D R R D V N R F I G G F E I A D N K G V D G
UniRef90_UPI0003A35A09 G T G W I V V S S Q G G S S T F N V Y D R A A P N A Y I L G R F A L T L G E D M
UniRef90_QOAM33 R G G W L V V S S Q G G D N T Y A V Y D L E S H A F V T R L Q I V D A V I D G
UniRef90_U5QIM4 N Q G Y L L A S S Q G G D S T F V L Y D R R G R N R F L K S F A L T D N P G I D G
UniRef90_R4UQ44 G R D L L F V S S Q G G N D S Y L V F E G Q A P W S L L S H F R I R T N L A I D G
UniRef90_UPI00036F84A5 T G G W L F V S S Q G G D A Y A V F D L E T G A F L D R F R V T E G V V D A
UniRef90_A0A059G6Y3 G K G W I V A S A Q E A N D R Y V V Y E R Q A P H T P M G A F M L V E N A G V D G
UniRef90_W3WTE0 E T D Y L L V A Q T D I V E V Y D T S L N L M G T L T L S S D D D I
UniRef90_W3WTE0 E T D Y L L V A Q T D I V E V Y D T S L N L M G T L T L S S D D D I
UniRef90_UPI0003619F55 G K G Y L V V A D E G A G F L L Y R R D G D Y A Y E T K L S I K D
UniRef90_UPI0003619F55 G K G Y L V V A D E G A G F L L Y R R D G D Y A Y E T K L S I K D
UniRef90_A3WK29 E T L L F V S S Q G G S D S Y V I F D A E A P Y T L R H H F R I R T N V G I D G
UniRef90_UPI000301CA62 G N G W L V A S S Q G G D N T Y T L Y R L A D E R F A R R F R I T E G R L I D G
UniRef90_A8P5M1 D K G L L I V S A Q G G V S A F N I Y R R G T H E F V G T F T V Q A G Q V D K
UniRef90_S5C1H3 A Q T Y L I A S S Q G G N N S Y A I Y N I N S K N A L M G L T R I T A N N S I D G
UniRef90_UPI00036593E7 N D G T V A A S P Q S S S I W L Y S
UniRef90_UPI00036593E7 N D G T V A A S P Q S S S I W L Y S

UniRef90_U5DNR8 G E G Y L I A S S Q G G D N T Y S V F A R E E P N E F L G S F A V I G E N N G I D G
UniRef90_K9RD49 G T G Y L I A S S Q G G D S Y A V F A R E E G N E Y L G S F V V I G D N N G I D Q
UniRef90_D9USA7 A G T H L F A S S Q G G S D D Y T V Y D R S S G A Y Q G R F S V A S G S A A D G
UniRef90_G2IPZ8 E G G Y V I V S S Q G G D N A Y T L Y S L P D E R Y V G R F R I V D G T V I D G
UniRef90_S3GIZ1 R G G Y L I V S S Q G G D N A Y T L Y S L L A D M A Y A G R F R I G G A I D G
UniRef90_M2U638 G S K Y L I A S S Q G G D S T Y P V F R V E G D E A Y V G R F A V T A R G D I D G
UniRef90_F5Z928 G V R Y L V A S S Q G G N D N T F N V Y P R E G A P Y S L V G M I S I G A N K G L D G
UniRef90_UPI00040A981B T T G Y I L V S N Q Q N N T F N V Y P R E G A P Y S L V G M I S I G A N K G L D G
UniRef90_S3AMS3 G D G Y L L A S S Q G G D N S F A A Y D R E D D N E Y E G G F R V I A A S G T D G
UniRef90_UPI000468F490 T T G Y I L V S N Q Q A N S F M V Y A R E G S N G N P N E H K L A E V P T S
UniRef90_W0AG29 G D G Y L V V S N Q Q A N S F M V Y A R E G S N G N P N E H K L A E V P T S
UniRef90_K0CP11 A Q T Y L I A S S Q G G N N S Y A I Y H V H T E N E L M G L V Q I T A D K A I D G
UniRef90_A0A010QAZ2 G K T Y L I A S S Q G G N D S Y A I Y Q L K N E N P L T G L I K I T A D K A I D G
UniRef90_D7W501 G K G Y I L V S N Q Q N D T F M V Y L R E D Q S K G R I A E I P V S
UniRef90_F9YVW2 T T G Y I L V S N Q Q K N T F M V Y P R E G I A G N P H Q Y P L L A Q I P L S
UniRef90_QOC5T3 G A G W V V A S A Q E D D R F V Y E R Q A P H A P R G S F S I L A N V G I D S
UniRef90_C7PMI9 S T G Y L L V S N Q Q N N S F M I Y R R E G A N G A N E H K L M A E V P V S
UniRef90_A5FK69 S T G Y I L V S N Q Q A N S F M V Y P R E G A N G A N N H P L L A E V P T S

UniRef90_L7INP0 E I Q G L S I Y Q A Q T S T Y P S G A I 300 T F A I E A D A T E G 320
UniRef90_L7INP0 E I Q G L S I Y Q A Q T S T Y P S G A I T F A I E A D A T E G
UniRef90_K2K3B9 V S E T D G L E V T T R S L G A G F E E G A L V V Q D G R N R M P E A G Q N
UniRef90_UPI0003B70C98 V S E T D G L T V T A H A L P G Y P Q G V L V V Q D G Y N R M P Q Q P Q N
UniRef90_F2JWW1
UniRef90_F2JWW1
UniRef90_E6RNI3
UniRef90_E6RNI3

UniRef90_U4LK71 V T N T D G I V T A V G K K L N K D F P Y G L L V V H D D V N L P N G E R S S Q S
UniRef90_C9SJ19 E V E G I S L Y Q A T T S K Y P L G A L G F A A E A D N F E G
UniRef90_C9SJ19 E V E G I S L Y Q A T T S K Y P L G A L G F A A E A D N F E G
UniRef90_UPI00047A9F34 V S E T D G L E V T S A N L G S G A Y E D G L L V V Q D G R N R L P Q A P Q N
UniRef90_L0DFQ9 V A H T D G L D V T N E R T S P L F P R G L L V L Q D G E N A G R S Y A L E S E A G Q S
UniRef90_C5JGK5 E I E G L S I G Q K K S T N F P A G L I S Y A L E S E A G Q S
UniRef90_C5JGK5 E I E G L S I G Q K K S T N F P A G L I S Y A L E S E A G Q S
UniRef90_N4VKU4 Q V Q G L S V Y Q A A T A R Y P A G A L A F A V E A D D V S G
UniRef90_N4VKU4 Q V Q G L S V Y Q A A T A R Y P A G A L A F A V E A D D V S G

UniRef90_A0A016XKM5
UniRef90_A0A016XKM5
UniRef90_Q3IFS5
UniRef90_Q3IFS5
UniRef90_F6CVU0
UniRef90_F6CVU0
UniRef90_M2TD10 L S I E G G L S I L Q S P V A G Y P F G V I A A F E G E E D T G I A V G
UniRef90_M2TD10 L S I E G G L S I L Q S P V A G Y P F G V I A A F E G E E D T G I A V G
UniRef90_C0SI59 E A K G L S V Y Q S K H A N Y P A G L V G F A L K S S A G Q S
UniRef90_C0SI59 E A K G L S V Y Q S K H A N Y P A G L V G F A L K S S A G Q S
UniRef90_J2DIB9 S E E T D G I E L M L G D F G P A Y P G G L F I A Q D G H N A A A A Q N
UniRef90_U1K9D9 A S E T D G L A L S T R L R T P D Y P E G L L V I Q D G R N R F P D K P Q N
UniRef90_L8LQT0 V E E S D G A D I I N V S L G E A F P N G L M V V H D G S N E P A V Q N F N T N
UniRef90_UPI000374DFA2 T S E T D G L A V I S E P L G D A Y P Q G A L V V Q D G R N V M P V Q P Q N
UniRef90_B2WM13
UniRef90_B2WM13

UniRef90_UPI0002558385 T N D T D G I D A T S V S F S N F K K G F F I A Q D G E N K D D E T V K N Q N
UniRef90_Z5XUP6 V S E T D G L T V T A T P L P G Y P E G V L I V Q D G Y N R M P Q A P Q N
UniRef90_I8T5U9 T S E T D G I E L A L S D F F G P D F P Q G L F I A Q D G D N A P E A Q N
UniRef90_W7Y8Q2 V E E T D G I D A N A S L M G P K D F P K G M L V V Q D G N K D K K E N Q N Q N
UniRef90_G2E7J1 A N E S D G A D I I S T A L G S R Y P F G L L V V Q D G A N D P Q N E N D S T N
UniRef90_F3LNF6 V S E T D G L E V T S T P L G P A L P R G A L V V Q D G F K R L P D G A Q N
UniRef90_UPI000255BA4B S S E T D G L E V S S A A L G A Q Y P Q G L L V V Q D G R N R M P S A S Q N
UniRef90_B8HQM4 V Q E S D G A A V L N V P L G S S F P F G L L V T Q D G D N P D G E P R P N T N
UniRef90_Q0UBI4 G L S L L Q S S T E S Y P A G I I A
UniRef90_Q0UBI4 G L S L L Q S S T E S Y P A G I I A
UniRef90_I0HTL4
UniRef90_I0HTL4

UniRef90_Q0CTZ5 A G T A I Y Q S S S S Q Y P Y G L Y A I E S D S G V G
UniRef90_Q0CTZ5 A G T A I Y Q S S S S Q Y P Y G L Y A I E S D S G V G
UniRef90_UPI0002E44ED5 A S E T D G L A V I A A P L G D L Y P F G A L V V Q D G R N I M P V Q P Q N
UniRef90_S8CEA4 L E L N G F A V Y Q R G S K A H P D G T L V Y A G E N D S G A F F G T S S
UniRef90_S8CEA4 L E L N G F A V Y Q R G S K A H P D G T L V Y A G E N D S G A F F G T S S
UniRef90_UPI0003796BA6
UniRef90_UPI0003796BA6

UniRef90_U7QBF4 I N E T D G F D I T N V A L G S A F P N G L F V V H D G A N D P E L E N N S T N
UniRef90_K6ZV69 V S E T D G I E V V S V A L G D R F P K G L L V V Q D G R N V M P M A P Q N
UniRef90_UPI000365313E V T G M D G I D V T N F G L V G G P F P Q G F F V T Q D T S N D T G K Q N
UniRef90_W1S8I4 S E E T D G I E L M L G D F G P N Y P G G L F I A Q D G H N A A A A Q N
UniRef90_UPI0004057190 A S E T D G I E V T T A N L G P Q F P Q G A L L V Q D G R N R M P E A G Q N
UniRef90_Q7NIT3 V Q E C D G A A V L N V P L G A A F P L G L L V T Q D G G N T P G E A R D N T N
UniRef90_UPI0003A35A09 V T G T D G L D V A G E I S A S L P E G L L V V Q D D V N S H P G Q P Q N
UniRef90_Q0AM33 A T Q T D G L D I S A A D L G P E F P A G V L V V Q D D E N D T G G Q N
UniRef90_U5QIM4 V Q D C D G A A V L N V P L G A A F P L G L L V T Q D G D N T P G E V R A N T N
UniRef90_R4UQ44 A S E T D G I D V T T R S L G K G F E Q G A F M V Q D G R N R M P E A G Q N
UniRef90_UPI00036F84A5 T S Y T D G I E V F A H P A L G P D Y P E G V F L A Q D D E D N Q G G Q N
UniRef90_A0A059G6Y3 V T H T D G L D I V S A A L P P G Y P R G L L V A V Q D D A N P L K E Q D Q N
UniRef90_W3WTE0 E I Q G L S I Y Q A A T D A Y P A G A L A Y A L E S D A G E G
UniRef90_W3WTE0 E I Q G L S I Y Q A A T D A Y P A G A L A Y A L E S D A G E G
UniRef90_UPI0003619F55
UniRef90_UPI0003619F55

UniRef90_A3WK29 A S E T D G L E V T T Q S L G K G F E Q G A L V V Q D G R N R M P E A G Q N
UniRef90_UPI000301CA62 T Q E T D G I A V M T G D F G P A F P H G L M V A Q D G E N R P A Q N
UniRef90_A8P5M1 V T N T D G V A A V G T N L G E G F E M G V V V H D D V N P D G S R E D G A S
UniRef90_S5C1H3 V S E T D G L E A T N A N L G G V Y S E G L W V V Q D G R N V M P S E T Q N
UniRef90_UPI00036593E7
UniRef90_UPI00036593E7

UniRef90_U5DNR8 V Q E S D G L D I I N V P I G G F E S G L L V V Q D G S A D G E L Q N F A A N
UniRef90_K9RD49 V N E S D G L D V I N V P I G G E E F P N G L L V L Q D G A N D P Q N E N N S T N
UniRef90_D9USA7 C S D T D G I D A S D K P L G A A F P N G L F V C Q D G S N S T P G S S G N Q N
UniRef90_G2IPZ8 A Q E T D G I E F M A G D F G P E F P G G L F I A Q D G Q N G A Q A Q N
UniRef90_S3GIZ1 T S D T D G I E L A L G D F G P D Y P K G L F V A Q D G D N A P D T Q N
UniRef90_M2U638 T S H T D G L D A W S G P I G A F P N G L L A I H D D M D E P L P G Q Q N
UniRef90_F5Z928 V S E T D G L E T S N V N L G S Q F N G G L L V V Q D G R N V M P S Q R Q N
UniRef90_UPI00040A981B T V I E C D G A D V T N V N L G S Q Y K N G M F V A M S N G M T
UniRef90_S3AMS3 T E E S D G A A V L G E P L G R K Y P N G L L V V Q D G D D K P G E E R D S T N
UniRef90_UPI000468F490 T I I E S D G A D A T A I N L G S P F P D K G M F M A M S N G K T
UniRef90_W0AG29 T E E T D G I E V I V G D F G P A F P G G I M I A Q D G E N A P A A Q N
UniRef90_K0CP11 V S E T D G L D V T N A N L G G R F T E G L W V V Q D G R N V M P S E T Q N
UniRef90_A0A010QAZ2 A S E T D G L D V T N A N L G G R F T E G L W V V Q D G R N V M P S Q T Q N
UniRef90_D7W501 T L E S D G S E V T N V N L G P K F P K G V F V A M S N G R V
UniRef90_F9YVW2 S I L E C D G A D V T N I P L N E Q F P Q G M L V V M S N G K I
UniRef90_Q0C5T3 V S H T D G I D E V F S G A L P G F P R G V L V V Q D D G N P R S G Q D Q N
UniRef90_C7PMI9 T L E S D G S E V T A V P L G S K F P K G M F V A M S N G R V
UniRef90_A5FK69 T L E C D G A D V T N V N L G P K Y K N G L F V A M S N G M T

UniRef90_L7INP0 F G T T S L Q P I L D A L S I P P 330 340 350
UniRef90_L7INP0 F G T T S L Q P I L D A L S I P P N T A Y T P R S
UniRef90_K2K3B9 I K L V P W Q W V N T A Y T P R S
UniRef90_UPI0003B70C98 F K L I D W R Q I L D K L L P

UniRef90_U4LK71 F K M L S L E K V L A S P G L L K Q I D K E W N P R S
UniRef90_C9SJ19 F G L S S L E N I W E G L G V E P N T E Y D P R A L L
UniRef90_C9SJ19 F G L S S L E N I W E G L G V E P N T E Y D P R A L L
UniRef90_UPI00047A9F34 F K Y V P W S A V R E A L N L T K E A
UniRef90_L0DFQ9 F K L F A W D E V A S H R L V V D T T P A P R
UniRef90_C5JGK5 F G V S S L E P V F K K L G L K A N T K Y D P R P P K
UniRef90_C5JGK5 F G V S S L E P V F K K L G L K A N T K Y D P R P P K
UniRef90_N4VKU4 F G L V S L D E A L G R L G I T T F T E Y D P
UniRef90_N4VKU4 F G L V S L D E A L G R L G I T T F T E Y D P

UniRef90_M2TD10 S L S G A L A S L G I Q P N T K Y S P
UniRef90_M2TD10 S L S G A L A S L G I Q P N T K Y S P
UniRef90_C0SI59 F G V S S L E S A F A A L V L E P N T K Y D P R A P
UniRef90_C0SI59 F G V S S L E S A F A A L V L E P N T K Y D P R A P
UniRef90_J2DIB9 F K L V A W D D I A K A L N L P
UniRef90_U1K9D9 F K Y V S W Q D V L T A T G L
UniRef90_L8LQT0 F K Y L D L A D I P G L E L D T N S Y N P R
UniRef90_UPI000374DFA2 F K L L D W R K V A A L I

UniRef90_UPI0002558385 F K L V D F R E I L K H L P
UniRef90_Z5XUP6 F K I I D W R E V K K A L K
UniRef90_I8T5U9 F K L L S W V D V V Q G L R L E
UniRef90_W7Y8Q2 F K L I S F E R I L Q F L Q
UniRef90_G2E7J1 F K F I P W E N V A K S F P L I M E P T Y D P R Q
UniRef90_F3LNF6 F K I V D W R E V E R V L G L R
UniRef90_UPI000255BA4B F K L V S W A D I A E T L Q L P
UniRef90_B8HQM4 F K Y T P W Q S V A N A F P R K L S V T P G W H P R

UniRef90_Q0CTZ5 F G V S S L E P V F T E L R L E P N T R Y T P R S A R P
UniRef90_Q0CTZ5 F G V S S L E P V F T E L R L E P N T R Y T P R S A R P
UniRef90_UPI0002E44ED5 F K L V D W R K I
UniRef90_S8CEA4 F K S P S K L K A N T K Y D P R D C I N K
UniRef90_S8CEA4 F K S P S K L K A N T K Y D P R D C I N K

UniRef90_U7QBF4 F K F V P W E S V A N A F P E S L I I D T N Y N P R N P N
UniRef90_K6ZV69 F K L V S G E Y L Y D F I T L K I R
UniRef90_UPI000365313E F K L V P W Q S I A A A Y V P A L L V D A A Y D P R K I
UniRef90_W1S8I4 F K L V A W A D I V K A L G L P
UniRef90_UPI0004057190 V K V V P L E A I L Q T L N
UniRef90_Q7NIT3 F K Y T P W Q S L A K A F P S P L A I D T T W N P R
UniRef90_UPI0003A35A09 Y K L V D W R E V M T A L
UniRef90_Q0AM33 F K F V D L R S V I A A I
UniRef90_U5QIM4 F K F T P W Q A L A R A F P R P L A I D K S W N P R
UniRef90_R4UQ44 L K L V P L E N I L K T I K
UniRef90_UPI00036F84A5 F K L V D L R A I K T A L S
UniRef90_A0A059G6Y3 F K M V S W A D V E A A L G L P L L D A E
UniRef90_W3WTE0 F G A S S L E T A F E A L N L T L N T A Y D P R
UniRef90_W3WTE0 F G A S S L E T A F E A L N L T L N T A Y D P R

UniRef90_UPI0003619F55 L K L V P L Q T V L D
UniRef90_UPI000301CA62 F K L V D W G K V K S A L Q L P
UniRef90_A8P5M1 F K I V G L G Q I L E T F G L E D E V D T N W D P R R
UniRef90_S5C1H3 F K L V S G A R L K E A I

UniRef90_U5DNR8 F K Y V S L D E I A E T L N L D L D P D G F D P R N P Q A Q S
UniRef90_K9RD49 F K F V P W D G V A N S F D N S L Q I N T S Y D P R N P K P Q S
UniRef90_D9USA7 F K Y V P L D R V T S K L
UniRef90_G2IPZ8 F K L V A W A D I A A A L G L E
UniRef90_S3GIZ1 F K Y V S W A K I V K A L G L E
UniRef90_M2U638 Y K L V D W R E V K A A L D L P
UniRef90_F5Z928 F K F V A G D D L A D A I
UniRef90_UPI00040A981B F H F Y D W N Q I Q E L I D K K K
UniRef90_S3AMS3 F K F V D L K R V L D A L
UniRef90_UPI000468F490 F H F Y D W K L I Q E A I D K K K
UniRef90_W0AG29 F K L V A W D V L K A L K L K
UniRef90_K0CP11 F K L V A G A S L K D A I
UniRef90_A0A010QAZ2 F K L V
UniRef90_D7W501 F H Y Y D W R M V E K A I Q
UniRef90_F9YVW2 F Q Y Y D W Q E I A S K I K
UniRef90_Q0C5T3 F K L V N W A D V E A A L G L
UniRef90_C7PMI9 F H Y Y S W E D I Q A K I K E K
UniRef90_A5FK69 F H Y Y A W D L I Q K R I D E A K

1 10 20 30 40

UniRef90_L8ERM7 P A V T P R A E T P A L D A A G G D A D D P A I W R D A A D P G R S S
UniRef90_UPI00036BDAED V A S V S A F A E T P A V E T N E G D A D D D P A I W V W N P A N D P S K S S
UniRef90_UPI000462D7D3 P A S L E T E F F A S G S G N D A D D D P A I W I D P A T P S P N S S
UniRef90_J7LOX6 A Q P P V P V T P A S V E T P P V L E A G G N A D A D D P A I W L D P D D P E R S S
UniRef90_D9VL69 Q A A S I S S V R P K A E T P P V L E A G G N A D A D D P A I W R N A A D D P G R S S
UniRef90_UPI0001DD0666 D P A V S V Y A T A E T A P V V R T A N A D A D D P A I W R N Q A N D P A S S
UniRef90_UPI0002F133F8 E D G S L P T V T P V S E T P A L L A G G N S D A D D P A I W R N A A D D P G R S S
UniRef90_UPI00047DD4B0 A L K P V T V T Q A L P H D T S D D P S I W V W N P N D A T K S S
UniRef90_E8U4Z1 V N V A A R A E S A G V T A P A D S D D P A V W V W D P Q D A T K S S
UniRef90_W5W786 A I P S L S A E A E T P A L D R R G G D A D D G L W V D R D R G E R S S
UniRef90_V5F743 V V E T E S L A T S T D D D I G D G A Y W L N S E D E T K S S
UniRef90_V5F743 V V E T E S L A T S T D D D I G D G A Y W L N S E D E T K S S
UniRef90_E1SW12 A I A E A P A W V E S D V A D R P G D T M D D P A I W V H P T H P E R S S
UniRef90_UPI00047D1D71 V I Q P P R A E T D T L K H D S D D P A I W V N T A A P N K S S
UniRef90_UPI00047D1D71 L P A V T P R A E T Q V L A G G N A D A D D P A I W R N T A A P G R S S
UniRef90_T0NU46 V I K P V I V T E P V N F D S D D P A I W V N P E D P S K S S
UniRef90_UPI0003B557C4 P A P S L P S V P A S M E T A A V A G A G D A D D P A I W R A A D D P A R S S
UniRef90_E4TCX8 V K P K V I T Q Q V K H D T D D P A I W V H P E D T S K S S
UniRef90_B7U1A1 A A I K P L Y V S E P V Q F D S D D P A I W V N P A D S S K S S
UniRef90_D2BFE8 Q S L P S A D P E V E T P A L D E A G G N A D D P A V W H P S R S G K S S
UniRef90_UPI0004638E28 P A P A T V T A R V E T P A V A G G N A D D P A V W V D P T R P G R S S
UniRef90_V6UEV3 S Q V P V S V I A D V E T P A V D E A G G D A D D P A V W V D P Q D S G R S S
UniRef90_C6XMH5 S I K P A Q V E T D P M V G V G D R A D D P A V W V S P K N D V A N S S
UniRef90_F0P303 A A N A I K P T L V T P T P H D T D D P A I W L N K N D P A Q S S
UniRef90_UPI0003C7458C A T A S L P A V T A R A E T A P L Q G G N A D A D D P A I W R N A A A P D R S S
UniRef90_UPI0003623BB6 Q S T A Q Q V V K P I E T D T V R H D T D D P A I W I N P T D H A K S S
UniRef90_E0TE92 T D R S V P A I M A K A E T S P V V S S D A D D P A I W I N P A N P A A S S
UniRef90_A3J4K5 A I K P K L I T E K T P H D T D D P A I W L H P T N T S S S
UniRef90_T0IFM8 L P A V T P A A E T D P V I G T P A D A A D D P A I W R N A A D D P A A S S
UniRef90_UPI00037FE5D4 L P A V T P T A E T A P L E G G N A D D P A I W R N E A D D P A R S S
UniRef90_UPI00047D565B A I K P V V I T Q A V E N D T D D P A I W I N P D D H S K S S
UniRef90_C2G3A4 E V Q P A V I S E A V Q F D S D D P A I W L N K K D P S K S S
UniRef90_UPI00036753A5 P A A P L P A V Q P R A E T P P L A G G N A D A D D P A I W R N P A D P A R S S
UniRef90_A6ECW0 A T V A P D A L K P V V D T V G Y D T D D P A I W I N S A D T L Q S S
UniRef90_UPI000367682D T A P A L P A V T P T A E T P T L A G G N A D A D D P A I W R N T A D D P G R S S
UniRef90_UPI000418873B H L A A I R P D A I I P T V I T Q A H D T D D P S I W V N P A D V T K S S
UniRef90_J4V1V1 L L D K K V Y I V K P I S E T G Q V I S K G D A A D D P A I W V N P Y N S S N S
UniRef90_M4SIK6 A V P A A L E T V V T T N P R V D A D D P A I W A D P R D P A R A
UniRef90_M3DM04 A L P T V T A T S E S A A L D E V G G D A D D P A I W R N P A D P G R S S
UniRef90_A4BD29 S V S T V Q T D S S Y D D I A D G V V W Q S E Q H A G H Y
UniRef90_A4BD29 S V S T V Q T D S S Y D D I A D G V V W Q S E Q H A G H Y
UniRef90_UPI0003698CD3 A L K P T V V T Q A T P N D T D D P A I W I N Y Q N P A E S S
UniRef90_A0A059EEY2 L P A A V E T A P M T G T G D K A D D P A V W V N V A N P A H S S
UniRef90_D2PPX8 H A T T E T P A D A G G N A D A D D P A I W R N K L Q P A K S S
UniRef90_F4C9Q4 T L V A T V I T E K D V K H D S D D P A I W I N S E Q V E K S S
UniRef90_K2EJY3 F E V H A T A A T D L P I Q R S D I M D D L A I W V N T K D P S K S S
UniRef90_UPI0003FB61E2 A E D T L A V I K P R Y I T D T V A H D T D D P A V W L N P A D P A A S S
UniRef90_UPI000248A06B A V P A A M E T H V T T D P Q V D A D D P V L W A D S R D P A R A
UniRef90_Q1YSY6 L V Q V P A L Y E T P P V I S P D D A A D D P A I W L N S A V P S Q S
UniRef90_V4PEC6 V V A T M E T E A V I T K A D S A D D P E I W A D A K D S H R A
UniRef90_U2YYG7 A V P V A G E T L V I T D P E V D A D D P A L W A D A R D P S R A
UniRef90_UPI000366A30F P A V P V V A Q T P V V A G G N A N A D D P A V W V H P S D P A R S S
UniRef90_I2GMK9 V K P V V T T D P V Q H D S D D P A V W I N P Q D P A R S S
UniRef90_E8WBG1 S L P S V G A T A E T A A L A G G N A N A D D P A I W R N D A D P G R S S
UniRef90_UPI00036AC16A D K D I Q V V K P S Y E T P Q V V S K G D A A D D P A I W F N K S N P S K S S
UniRef90_F0RMG0 A L P V V E A R A Q T A P V G D P A D S D D P A I W V D A A E P A R S S
UniRef90_S4A7N7 V T A T A V T A P V V S G S G D A A D D P A I W V H P A G D P A K S S
UniRef90_Q1K024 C D T P I I H P K K V T D M T P N D T D D P A I W I N P H D A K S S
UniRef90_K6YBB6 S V L S V S P V A L E T R S A D A Q G N D V D D P A I W I H P T N K A K S S
UniRef90_UPI00030E8364 D P A V T V T A R A E T P P V I G T P E D A A D D P A I W L N P A D P A A S S
UniRef90_W6TL34 A V K P L Y T T E P V Q F D S D D P A I W L N P I D S S K S S
UniRef90_S1TAG5 A P E V L P R A E T A A L D A G G N A A D D P A I W R N S A D P A S S
UniRef90_Q2SG22 A P P E V L A R F E S E A F A G N N S D A D D P A I W A H P E D P A K S S
UniRef90_UPI0003B46890 M P E P E V P G V H A D R E T T P V Q G P G D A A D D P A I L A A A D G N F
UniRef90_J4X626 E D K L V Y V V K P N A E T Q V I T K G D A A D D P A I W L N A N K S T N S S
UniRef90_F6IFH8 P R P Y L P A V P A Q A E T L P V I T A H A D A A D D P A I W R N A A D P A A S S
UniRef90_UPI000403500C L P D E K V E L I S P L H I S D S V I H D T D D P A I W L N K S N P S Q S

UniRef90_M4FTL4 Q P S L E T A P P D T P D E A A D D P A V W L H P T D P A R S S
UniRef90_M4FTL4 E Q A D A A V K P V V V T D S V A H D S D D P A V W I N P A D P A Q S S
UniRef90_B6IQK7 D K I H I V P A I D E T Q V I S K G D A A D D P A I W L N K L N P D R S S
UniRef90_UPI000473AB61 E T P P D D T A G G D A D D P A I W V D H A H P D R S S
UniRef90_UPI0003683354 H H Q S L S P A L I T E P S L Y D T D D P A I W L N K Q D I S K S
UniRef90_UPI00037E1505 H H Q S L S P A L I T E P S L Y D T D D P A I W L N K Q D I S K S

UniRef90_X1SU07 V L A V T E T T A V G T V N D S A D D P E I W V D P S D S N R V
UniRef90_E8RML6 V A A S F E T A P M V G F G D R A D D P A I W A N P A T N I S N S
UniRef90_UPI0003B3F6F2 A L P A V T P E A E T P A V E R G N A A D D P A I W R D P A D P E R S S
UniRef90_UPI00039D4582 A I Q P V V V T E Q T V F D T D D P A I W I N K Q E Q A K S S
UniRef90_H1ZBM0 V Q P V F V T D S L A H D S D D P A V W I N P Q D P S K S S
UniRef90_UPI000375B002 A I Q P T L V T E Q T V F D T D D P A I W I N P I D D Q S K S S
UniRef90_H1H5G9 P A V K T A V V A R A E T H P V G T N Q D A A D D P A I W R N A A N P A G S S
UniRef90_U2ZY21 L P A V T P R A E T A T L E G G N A N A D D P A I W R N P A D P H S S
UniRef90_H0BIO7 V V K P L Y V T D Q V I H D T D D P A I W V N P S D A K S S
UniRef90_L0G3A3 V P A T A E T V P V G T A N A D A D D P A I W R N P A N P A A S S
UniRef90_W9BUV8 S T D S M A V I K P V I T S D S V R F D T D D P A I W I N T S D T A Q S S
UniRef90_UPI00046F017F L P A I A P D V I T E N T L H D T D D P A I W V N R K D P S A S S
UniRef90_UPI000478B8F5 V A A S F E T P M T G T G D R A D D P A L W H P G D V S K S S
UniRef90_K2Q6T6 V I K P Q I I T D S V N H D T D D P A I W I N T D D P S R S S
UniRef90_UPI00036F9256 V L A S A E T V A V G T A G D A A D D P E I W V D P M D K S R S
UniRef90_U5C5H1 V L A S A E T V A V G T A G D A A D D P E I W V D P M D K S R S
UniRef90_V4Q690 V L A S A E T V A V G T A G D A A D D P E I W V D P M D K S R S

UniRef90_L8ERM7
UniRef90_UPI00036BDAED
UniRef90_UPI000462D7D3
UniRef90_J7LOX6
UniRef90_D9VL69
UniRef90_UPI0001DD0666
UniRef90_UPI0002F133F8
UniRef90_D9X389
UniRef90_UPI00047DD4B0
UniRef90_E8U4Z1
UniRef90_W5W786
UniRef90_V5F743
UniRef90_V5F743
UniRef90_E1SW12
UniRef90_UPI00047D1D71
UniRef90_NOCNN4
UniRef90_T0NU46
UniRef90_UPI0003B557C4
UniRef90_E4TCX8
UniRef90_B7U1A1
UniRef90_D2BFE8
UniRef90_UPI0004638E28
UniRef90_V6UEV3
UniRef90_C6XMH5
UniRef90_F0P303
UniRef90_UPI0003C7458C
UniRef90_UPI0003623BB6
UniRef90_E0TE92
UniRef90_A3J4K5
UniRef90_T0IFM8
UniRef90_UPI00037FE5D4
UniRef90_UPI00047D565B
UniRef90_C2G3A4
UniRef90_UPI00036753A5
UniRef90_A6ECW0
UniRef90_UPI000367682D
UniRef90_UPI000418873B
UniRef90_J4V1V1
UniRef90_M4SIK6
UniRef90_M3DM04
UniRef90_A4BD29
UniRef90_A4BD29
UniRef90_UPI0003698CD3
UniRef90_A0A059EEY2
UniRef90_D2PPX8
UniRef90_F4C9Q4
UniRef90_K2EJY3
UniRef90_UPI0003FB61E2
UniRef90_UPI000248A06B
UniRef90_Q1YSY6
UniRef90_V4PEC6
UniRef90_U2YYG7
UniRef90_UPI000366A30F
UniRef90_I2GMK9
UniRef90_E8WBG1
UniRef90_UPI00036AC16A
UniRef90_F0RMG0
UniRef90_S4A7N7
UniRef90_Q1K024
UniRef90_K6YBB6
UniRef90_UPI00030E8364
UniRef90_W6TL34
UniRef90_S1TAG5
UniRef90_Q2SG22
UniRef90_UPI0003B46890
UniRef90_J4X626
UniRef90_F6IFH8
UniRef90_UPI000403500C
UniRef90_M4FTL4
UniRef90_M4FTL4
UniRef90_B6IQK7
UniRef90_I0K2J5
UniRef90_UPI000473AB61
UniRef90_UPI0003683354
UniRef90_UPI00037E1505
UniRef90_X1SU07
UniRef90_E8RML6
UniRef90_UPI0003B3F6F2
UniRef90_UPI00039D4582
UniRef90_H1ZBM0
UniRef90_UPI000375B002
UniRef90_H1H5G9
UniRef90_U2ZY21
UniRef90_H0BIO7
UniRef90_L0G3A3
UniRef90_W9BUV8
UniRef90_UPI00046F017F
UniRef90_UPI000478B8F5
UniRef90_K2Q6T6
UniRef90_UPI00036F9256
UniRef90_U5C5H1
UniRef90_V4Q690

50
60
70
80

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

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

UniRef90_L8ERM7
UniRef90_UPI00036BDAED
UniRef90_UPI000462D7D3
UniRef90_J7LOX6
UniRef90_D9VL69
UniRef90_UPI0001DD0666
UniRef90_UPI0002F133F8
UniRef90_D9X389
UniRef90_UPI00047DD4B0
UniRef90_E8U4Z1
UniRef90_W5W786
UniRef90_V5F743
UniRef90_V5F743
UniRef90_E1SW12
UniRef90_UPI00047D1D71
UniRef90_NOCNN4
UniRef90_T0NU46
UniRef90_UPI0003B557C4
UniRef90_E4TCX8
UniRef90_B7U1A1
UniRef90_D2BFE8
UniRef90_UPI0004638E28
UniRef90_V6UEV3
UniRef90_C6XMH5
UniRef90_F0P303
UniRef90_UPI0003C7458C
UniRef90_UPI0003623BB6
UniRef90_E0TE92
UniRef90_A3J4K5
UniRef90_T0IFM8
UniRef90_UPI00037FE5D4
UniRef90_UPI00047D565B
UniRef90_C2G3A4
UniRef90_UPI00036753A5
UniRef90_A6ECW0
UniRef90_UPI000367682D
UniRef90_UPI000418873B
UniRef90_J4V1V1
UniRef90_M4SIK6
UniRef90_M3DM04
UniRef90_A4BD29
UniRef90_A4BD29
UniRef90_UPI0003698CD3
UniRef90_A0A059EEY2
UniRef90_D2PPX8
UniRef90_F4C9Q4
UniRef90_K2EJY3
UniRef90_UPI0003FB61E2
UniRef90_UPI000248A06B
UniRef90_Q1YSY6
UniRef90_V4PEEC6
UniRef90_U2YYG7
UniRef90_UPI000366A30F
UniRef90_I2GMK9
UniRef90_E8WBG1
UniRef90_UPI00036AC16A
UniRef90_F0RMG0
UniRef90_S4A7N7
UniRef90_Q1K024
UniRef90_K6YBB6
UniRef90_UPI00030E8364
UniRef90_W6TL34
UniRef90_S1TAG5
UniRef90_Q2SG22
UniRef90_UPI0003B46890
UniRef90_J4X626
UniRef90_F6IFH8
UniRef90_UPI000403500C
UniRef90_M4FTL4
UniRef90_M4FTL4
UniRef90_B6IQK7
UniRef90_I0K2J5
UniRef90_UPI000473AB61
UniRef90_UPI0003683354
UniRef90_UPI00037E1505
UniRef90_X1SU07
UniRef90_E8RML6
UniRef90_UPI0003B3F6F2
UniRef90_UPI00039D4582
UniRef90_H1ZBM0
UniRef90_UPI000375B002
UniRef90_H1H5G9
UniRef90_U2ZY21
UniRef90_H0BIO7
UniRef90_L0G3A3
UniRef90_W9BUV8
UniRef90_UPI00046F017F
UniRef90_UPI000478B8F5
UniRef90_K2Q6T6
UniRef90_UPI00036F9256
UniRef90_U5C5H1
UniRef90_V4Q690

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

UniRef90_L8ERM7 P P V F S A R T A Y G L A T W T D Q A T G R S Y A L V S R R E T T L V L L E L T 130 140 150 160
UniRef90_UPI00036BDAED P V N D P E V Y G Y C L G L Q Q D G S L L S F V N T S K S A K V F V H R I H
UniRef90_UPI000462D7D3 G T E A P N Y G F C M Y H S R A S D G K F Y A F V T S G P E T R L Q Q F E L A
UniRef90_J7LOX6 Q P V F A A D E A Y Y G L T T Y R H H D D D A F V V V S Q R E T R L R L L E L
UniRef90_D9VL69 R P V F S A G E A Y G L A T W T D R R T G R S Y A L V S Q R N T R I A L L E L
UniRef90_UPI0001DD0666 V A S G A G E A Y G L C L W T P P A G D A V V A F A V L K D G T I N Q V R I R
UniRef90_UPI0002F133F8 K V S A G P G E A Y G A C L Y R T D Q A L Y A F N V L K D G T I R Q V A L D
UniRef90_D9X389 A P V F S T R T A Y G L A T W Q D K S T G R A Y A L V S R R E T R L A L M E L K T
UniRef90_UPI00047DD4B0 P V F E G L R A T P M G L A L Y T R S A D G S D K K I F A V V G R K E G T L W Q Y E L T
UniRef90_E8U4Z1 P M V F G A N T A Y M G L A A Y R T A D G S A R V F V S Q R K H A R V L A E V R L V
UniRef90_W5W786 P L V F S A D Q A Y G L A A W Y D R A Q G G A A Y V L V T Q R H S T R L A L L R L
UniRef90_V5F743 D Y A A E G V C L H K N T T N G A L L L T G V T D D D G V A V Q Y K L K
UniRef90_V5F743 D Y A A E G V C L H K N T T N G A L L L T G V T D D D G V A V Q Y K L K
UniRef90_E1SW12 L P T D I E E I Y G L A L Y Q P A N D E L H V I A N G K S G E M V Q Y R L A
UniRef90_UPI00047D1D71 P V F E G F R T A M G L A L Y K N P E T S G K I Y A I V S R K N G T P L W Q Y L L A
UniRef90_NOCNN4 P S V F S K R D T A Y G L A T W T D P T S G K S F A L V S R R E R T I T L L E L R
UniRef90_T0NU46 P T G E G E R D L M G I A L Y T D P K G N I Y A I T G R K T G P L W Q Y L L S
UniRef90_UPI0003B557C4 V L P L D F V D P Y G L C L Y Q R P S T D N A L F A F V T E D D T G R L W M Q Q R L
UniRef90_E4TCX8 F D G E E H R S P M G I S L Y K N P S T G I M Y A I V G R K S G P L W Q Y K L
UniRef90_B7U1A1 E L Y R D L M G I A M Y T D P Q G Q I Y A I V G R K S G P L W Q Y L L E
UniRef90_D2BFE8 P F V F N T T Q A Y G L T T W K D S T G D A T Y A L V S R R H T T L G L V K L L
UniRef90_UPI0004638E28 A P V F A A S E A Y G L A A Y S D D D D A Y V V V S R R E T S L R L L E L
UniRef90_V6UEV3 T P V F A S S E S Y G L A A F S D D D D A Y V V V S Q R N E S R L R L L E L
UniRef90_C6XMH5 T P V D L V E P Y G I C M G N L D N S Y Q A G V T Y K N G T V Q I W T G T
UniRef90_F0P303 A V F E D S D D P Y M G I A L Y T Q S E T G K V Y A M V G R K N G P I V Q Y E L K
UniRef90_UPI0003C7458C A P I F S A D T A Y G L A L Y T D P S T R S Y A L V S R N N T T V A L L E L V
UniRef90_UPI0003623BB6 D T A S G F R D L M G I A L Y K A P S G G L Y A M V G R K T G P I G Q Y A L Q
UniRef90_E0TE92 R I P T I R P E P Y G V C L G I A G G A F T A F V T H K T G E V D G L Y L L T
UniRef90_A3J4K5 E V F E G E T E P M G L A L Y T R P S D G E I F V I V G R K N G S V A E S R L
UniRef90_T0IFM8 P A G H A P A E A Y G F C M G N A R A R D E L R A Y V V L K D G S V A E S R L
UniRef90_UPI00037FE5D4 P P V F S K R T A Y G L A T W T D R A R T R R S Y A L V S R R D T S V A L L E L T
UniRef90_UPI00047D565B S V F E G E T D P M G L A L Y T R E D G K F F V I V G R K T G P L W Q Y L L E
UniRef90_C2G3A4 E T G T D Y R D L M G I A L Y T A P T G K M Y A I V G R K D G T L W Q Y L L E
UniRef90_UPI00036753A5 P R V F S S R T A Y G L A L Y T D P R S G R A Y A V V S R R E R T L A L L E L
UniRef90_A6ECW0 F A G E S T R D P M G I A L Y T A A D S S I Y A I V G R K S G T P L A Q Y K L T
UniRef90_UPI000367682D P V F V S R D Q A Y G L A T W T D R G S G R S Y A L V S R R S T E I A L V E L R
UniRef90_UPI000418873B F T G D L E R D P M G V L A Y T R P D D D G A I F A V V G R K T G P L W Q Y E L T
UniRef90_J4V1V1 F S I N S K M I V Y G V C A G Y D I K Y G V V A F L T E D E G H V E M Y Q Y Y
UniRef90_M4SIK6 F I P T D M G E P Y G S C M G K R G G N F Y V V A N N K A G R I F Q Y R I T
UniRef90_M3DM04 A P V F S A D Q A Y G L A T W T D K A T G R S Y A L V S R R E T R L A L L E L
UniRef90_A4BD29 P F A P S G V C F Y K N P T T Q S A T V T A I S E A G D V A Q F K L I
UniRef90_A4BD29 P F A P S G V C F Y K N P T T Q S A T V T A I S E A G D V A Q F K L I
UniRef90_UPI0003698CD3 F E N E E I R D P S G V A T Y K K D H K I Y V I V G R K D G P S E G Y L L L
UniRef90_A0A059EEY2 T P T Q K D E P Y G I C A G Q V G T T Y Y A M P T Y K D G M A Q V W S V Q
UniRef90_D2PPX8 P R V F S A T E A Y G L A S Y T D P E T G R H Y A I A S R R N H T S L K L V E L
UniRef90_UPI000248A06B F V G E E E R A P M G I A L Y T R P E R D K Q V F A V V G R K S G P L W Q Y R L R
UniRef90_K2EJY3 T F E K T P Y G I C L Q K Q E D A F Y A I V T F K Y T G A E K W Q F
UniRef90_UPI0003FB61E2 Q Q G E N Q R D L M G I A L Y K N V S G K I Y A I V G R K S G P L W Q Y L L E
UniRef90_UPI000248A06B F I P T D M G E P Y G F C M G K Q G D T T Y L I P N N K Q G E I R L Y A V S
UniRef90_Q1YSY6 P A G Q S E I D I Y G A C M G L D K R L G L L A F V T E D E G R V E V W K Y T
UniRef90_V4PEC6 F V A M P T S E A Y G F C V G V T K A N Q L T F I M V G K T G D V T Q S L T
UniRef90_U2YYG7 L V S I G M D E P Y G F C M G R R G D E V Y A V V T T K L G T T H Q W P V S
UniRef90_UPI000366A30F P R V F S A T E A Y G L A A F T E R G S S Y V V V S R R H E T R L A L L R L
UniRef90_I2GMK9 E T G T A F R D L M G I A L Y K N K A G Q I Y A V V G R K S G P L W Q Y L L E
UniRef90_E8WBG1 A P V F S S D Q A Y G L A T W Q D K R S T G R A Y A L V S R R N T T L A L L E L R
UniRef90_UPI00036AC16A P Y I R A K S E V Y G V C G G Y D K T F G L I A F L T A D G S S E I E L L W S Y S
UniRef90_F0RMG0 P L L F G K R T A Y G L A A Y R T A A E G D R V L V S N G S F P V V G E F E L Y
UniRef90_S4A7N7 V P T E V T A H G I C L Y T S P E S G K L Y A V P S N G S G R V G Q W E L A
UniRef90_Q1K024 E Q G E D Q R A L M G I S L Y K R P S D G A I F A I V G R K N G P L W Q Y L L H
UniRef90_K6YBB6 P L I F A T N Q A Y G L A A V K T D K S M A F V S Q N S T T I E Q L E L F
UniRef90_UPI00030E8364 P V F G P G E A Y G I C F G A L A A D G Q V K V Y T A T K G G L I Y E N T F
UniRef90_W6TL34 P V Y E G Y R D L M G I A M Y T S P K G E I Y A I A G R K T G P L W Q Y L L E
UniRef90_S1TAG5 P W I F S E S T A Y G L A T Y T D S V T G R S Y A L V S N A T T H I A L L E L T
UniRef90_Q2SG22 P W I F S D D Q Y G L A V S K R K K H K D G Y A V I S R E D T D L A V L E E F T
UniRef90_UPI0003B46890 R I P V I S L E D P Y G L C M G R N A T G Q P L V F I G D S E G R V E Y W R L E
UniRef90_J4X626 E K D P S F K G V Y G V C A G Y D Q E F G V I A F I T E D E G S R V Q M W S
UniRef90_F6IFH8 P A G H A P A E A Y G F C L G G A L G P N E L R A Y A V V L K D G T V A E S G L Y
UniRef90_UPI000403500C E T G E D Y R D L M G I A L Y Q S P K S G K T Y V I A G R K N G P L W Q Y E V K
UniRef90_M4FTL4 P H V T L G D W N A I C P W Q S S S G N H Y F F L F G K G G R A L Q Y L V R
UniRef90_M4FTL4 P H V T L G D W N A I C P W Q S S S G N H Y F F L F G K G G R A L Q Y L V R
UniRef90_B6IQK7 P R V F D Q R S A Y G L T T W K G P D G H R V I V A Q R K E A R L V E H R L V
UniRef90_I0K2J5 E T G D Q F R D L M G I A L Y R D P K G V I Y A I V G R K S G P L W Q Y R L Y
UniRef90_UPI000473AB61 I N A K A N M V V Y G V C A G I D S R F G L I A F L T E D E G S K V Q
UniRef90_UPI0003683354 P R A F S A T E A Y G L A V A P D P A G G A P W V V S R R D T R L G V F R L A
UniRef90_UPI00037E1505 P V F E G E D S P M G I A S Y R S P E S G K F Y A I V S R K G G E L W Q Y E L K
UniRef90_X1SU07 E V G I E I Y G S C M Y R S P V T G E D Y Y A F I N D K D G T I E Q W R L F
UniRef90_E8RML6 F A S L A T S E A Y G F C L G K T T A G D L V A I M V G K N G D V A Q A T V S
UniRef90_UPI0003B3F6F2 T P T Q K D E P Y G C A G L V G S T Y Y A M P T Y K D G K A Q I W A Q D
UniRef90_UPI00039D4582 P A I F T D S Q A Y G L T T W T D R R T D R S Y A L V S R S G T R Q T L L E L T
UniRef90_H1ZBM0 K V F E G Y N E P M G I A L Y E G K E G G A F Y A I V G R K N G P L W Q Y R Y Q
UniRef90_UPI000375B002 P E F R D L M G I A L Y T Q P E T G K H Y V I A G R K N G P L W Q Y E L T
UniRef90_H1H5G9 E V E D G Y S E P M G I A L Y K E D D N K Q I Y A I V G R K S G P L W Q Y A L Q
UniRef90_U2ZY21 Q V A S G P G E A Y G L C M G G D G A D G A R V Y A A L K D G S V R E I A V S
UniRef90_H0BIO7 P R V F S A D Q A Y G L A T W T D R R S G R S Y A L A S R R N T V A L L E L L
UniRef90_L0G3A3 E T G N E Y R D L M G V A V Y H S P K N D K Q Y V L A G R K N G P L W Q Y E I K
UniRef90_W9BUV8 V P S G M G E G Y G V C V A P A P A P D A M T A Y A A I K D G T V R E I R I T
UniRef90_UPI00046F017F S V F D G E T E P M G I A L Y T R P T D Q A I F A I V S R K S G P L W T Y Q L R
UniRef90_UPI000478B8F5 E Y K D L M G V A V Y Q S P E S G K T Y V I A G R K N G P L W Q Y E V K
UniRef90_K2Q6T6 P V F T D S T E P M G L S L Y H S P K D G A M Y A I V G R K E G Y L H Q Y L L K
UniRef90_UPI00036F9256 V Q T G K D E P Y G F C M G E V D D T T L M I P T Y K D G S I Q I W T S S
UniRef90_U5C5H1 P E F R D L M G V A V Y H D Q V N K K H Y V I A G R K N G P L W Q Y E I
UniRef90_V4Q690 F L P M T T S E A Y G L C M G T I E A G I T I V I T G K N G D V V Q A I Y S

UniRef90_L8ERM7 P G A G G T V G Y R K V R T L D L P P 170 180 190 200
UniRef90_UPI00036BDAED L D T F R A E E V A R S L W S F G S Q M E G G C A N D D D D N G L L F L Y G G Q E E E H
UniRef90_UPI000462D7D3 D N G A G K V D A T E E V R S L E P I T P P Q T T E E G C V A D D D E E F H V L Y A G G Q E E D A
UniRef90_J7LOX6 K D E D D G L V G D Y E T E V D T L L E L P P Q V E E G M A V V D D E E E H V L Y A G G Q E E D V
UniRef90_D9VL69 P T P A G T V D Y R Q V R T L E L P S Q V E E G M V V D D P A R N F G L Y A G G Q E E D V
UniRef90_UPI0001DD0666 D D P K S T R I E H T M S V A T Q S E E G C C V V D D A R N T F G L Y A G G Q E E N D G
UniRef90_UPI0002F133F8 L T G A A P W K S T L E V R S L D L P P Q V E E G M V V D D P A R N F H R L Y A G G Q E E D V
UniRef90_D9X389 P T A S G T V A Y R K V R S L D L P P Q V E E G M V V D D P A R T G T L Y A G G Q E E D I
UniRef90_UPI00047DD4B0 D A G N G K A G A T V V R K F G N Y S E I E E A L V V D D A N E S G T L Y Y C G D Q E Q Q F
UniRef90_E8U4Z1 A D G D R V I T F A P V R T V D L P P Q V E E G M V V D D A E L G F A Y L G D Q E Q Q V
UniRef90_W5W786 V A E Q D K I G Y Q V V R T L D L P P Q A E G M V V D D A Q T G V L Y Y A G G Q E Q D V
UniRef90_V5F743 Y Q D G E I K S V L V R E L E V G G G E L S A C C I V D D D E T S T L Y L A E Q D L
UniRef90_V5F743 Y Q D G E I K S V L V R E L E V G G G E L S A C C I V D D D E T S T L Y L A E Q D L
UniRef90_E1SW12 D W R D E V L R A T E L R R L W L P S Q Q P E E G C V A D D D R A H R L F A G S E E D A
UniRef90_UPI00047D1D71 P N R K G Q V I Q A T R T V R K F G E Y S E I V E E G M A V D D D A L G Y L Y Y A G S D E N V
UniRef90_NOCNN4 D T R A G K G F I E A K L V R K F G N Y S E I T E E S L A V D D N E N G Y L Y Y S D E E Q F
UniRef90_T0NU46 D S G K G F I E A K L V R K F G N Y S E I T E E S L A V D D N E N G Y L Y Y S D E E Q F
UniRef90_UPI0003B557C4 R F E D N G A M R S E T V R K F S L G T I T E E G C A V D D D Q T G T L Y L A S D E Q V
UniRef90_E4TCX8 V E K N G K I T G E L V R K F G K Y S E I I E S A I A V D D D E L G Y I Y Y S D E Q F
UniRef90_B7U1A1 D N G K G Q L K A T L K R K F G K Y S E I I E S A I A V D D N E L G Y I Y Y S D E Q F
UniRef90_D2BFE8 P K P N G K V G Y Q V V R T L D L P P Q V E E G M V V D D Q Q E E H V L Y A A Q E E A V
UniRef90_UPI0004638E28 E D R G G R V G Y R T E D T L D L P P Q V E E G M V V D D Q Q E E H V L Y A A Q E E A V
UniRef90_V6UEV3 K D R G G K V G Y R L P G T F G L P P Q V E E G M A V D D T E E G V L Y A A Q E E A V
UniRef90_C6XMH5 L Q E D G S I V S A K F E R S A K L E T Q L E E G C V F D D N E Q S L F L G A D E E T K
UniRef90_F0P303 A I S G S I V S A K F E R S A K F G A Y S E I E I E A I M V D D N E L G Y V Y Y A G E E T S
UniRef90_UPI0003C7458C A R P G G T V G Y R T V R T L D L P P Q V E E G M V V D P A N G Y L Y Y A G Q E D V
UniRef90_UPI0003623BB6 D D G S G H V K A T L V R K F G T Y S E I E E S L A V D D N E L G Y V Y Y S D E E G V
UniRef90_E0TE92 V E G Q A T P S P I M P W T L E L G E Q L E E G C V V D D E Q N S Q V F V G R E E G G
UniRef90_A3J4K5 S I N G V V Q A K I T R K F G K Y S E I I E A T A I D D N E L G Y I Y Y S D E E Q T
UniRef90_T0IFM8 V E K D G R I A A D Y V R L V K F A T Q S E E G C V V D D D A G K V L F V A G E E D V
UniRef90_UPI00037FE5D4 A G A G G T V G Y R T V R T L T L P P Q V E E G M V V D D P A N G M L Y Y A G Q E D V
UniRef90_UPI00047D565B S E E S S I V Q A K L V R K F G K Y S E I I E A T A V D D N E M G Y I Y Y S D E E G V
UniRef90_C2G3A4 D N G G Q V V K A T L V R K F G E Y S E I I E A L A V D D N E L G Y I Y Y S D E Q T
UniRef90_UPI00036753A5 P T R S G G T V T Y R K V R T L R L P P Q V E E G M V V D P D T G T L Y Y A A Q E D V
UniRef90_A6ECW0 D D G T G A V K A E L I R K F G K Y S E I I E A T A V D D N E S G F I Y Y A G Q E D V
UniRef90_UPI000367682D P T A A G T V T Y R T V R T L A L P P Q V E E G M V V D P A N G M L Y Y A G Q E D V
UniRef90_UPI000418873B G T S T G T V T A N V V R K F G S F S E I E L A T A V D D N E L A V V Y Y C G D E N E
UniRef90_J4V1V1 D D G S G L R L L K R F K N Q N Q S E E G C V Y D D D E N R T L F I S E E E G E
UniRef90_M4SIK6 A G P S G P V A T L E R R M K V A T Q V P E E G C V V D D E K A D T L Y L G A Q E D V
UniRef90_M3DM04 P T A D G R V G Y R R I R T L D L P P Q V E E G M A V D D P A T G T L Y A G Q E D I
UniRef90_A4BD29 V R N G Q V T P K P V R E F N V G G E L S S C V I D S R D A K L Y I A E Q N V
UniRef90_A4BD29 V R N G Q V T P K P V R E F N V G G E L S S C V I D S R D A K L Y I A E Q N V
UniRef90_UPI0003698CD3 E N N N G K I E A K L I R K F G K Y S E I I E A T A V D D Q E S G F V Y Y S D E T A
UniRef90_A0A059EEY2 T D K M S E I G P E L V A E I Q V G Q Q L E E G C V F D E A N G Q V F L G E E E H
UniRef90_D2PPX8 K V A A G K S I T Y S P V R S Y H L P P Q V E E G M V V D D T D T G K L Y A G S D E D V
UniRef90_F4C9Q4 D N G A G S I S G D L V R K F G K Y S E I I E A T A V D D N E L G Y I Y Y S D E Q T
UniRef90_K2EJY3 W A E N N R I H M E K V L S Y P I Q S L A E G C V V D D H T G T V F I G S E E D R
UniRef90_UPI0003FB61E2 D N G R D N V K A T L V R K F G A Y S E I E A T A V D D D A L G Y V Y Y S D E E G K
UniRef90_UPI000248A06B A G A K G P Q A R L D R V M K L G S Q T E G C V S D D D A G M L Y Y V G E E D V
UniRef90_Q1YSY6 A D G L K L L H T F D N G G E S E E G C V Y D D D E N R T L L I S E E E V
UniRef90_V4PEC6 T T E N G P K A T V M R Q V F A T G S Q S E E G C V V D D D A S G R L Y I A E E N T
UniRef90_U2YYG7 A G P D G P V L G A E R V L T L G S E E G C V V D D D A A D T L Y V G E E D V
UniRef90_UPI000366A30F A D A G G R V S Y R T A D T L D L P P Q V E E G M A V D D Q V T R V L Y A G Q E D V
UniRef90_I2GMK9 D N G S G T V K A T L V R K F G Q Y S E I E E S V A V D D D E L G Y V Y Y S D E E G K
UniRef90_E8WBG1 P T A A G T V G Y R L V R T L S L P S Q V E E G M V V D D P A N G M L Y A G Q E D V
UniRef90_UPI00036AC16A S L G L T L L T T F K N G N Q S E E G C V Y D D D E N R T L F I S E E E D R
UniRef90_F0RMG0 D D G G G V S V R P V R L E L P P Q F E E G M V D D A E Q G V A F L G Q E Q T
UniRef90_S4A7N7 V S G D A V T A T S V R L F D A G S A V E E G C Y A D E T T G K L L I G E E D V
UniRef90_Q1K024 D D G S G Q L S A T L V R R F G T F S E I I E A T A L D D A L G Y I Y Y S D E E G V
UniRef90_K6YBB6 D D G K G K V P N Y R S M T R M N F P S H F E E G M V A D T A H G F L Y L A G E E D V
UniRef90_UPI00030E8364 G L G U P I G S V R T V A T V P S Q T E E G C I A D L R T N T L Y I L A G E E D A
UniRef90_W6TL34 D D G T G H I R A T L K R K F G N Y S E I I E S L A V D D N E M G Y I Y Y S D E Q F
UniRef90_S1TAG5 A T R E G T V N Y R Q V R T E L D L P P Q V E E G M A V D D P E R G T L F A G A Q E E V
UniRef90_Q2SG22 M T K D G L M T Y D L T F E L D P P Q V E E G M V I D E R N Q V L Y A A Q E E Q V
UniRef90_UPI0003B46890 G D Q A S K R R D F D F D S Q T E E G C V Y D A R R H L L Y V G Q E D R
UniRef90_J4X626 Y N E N G L S L L K T F N N A N Q S E E G C V Y D D D E N R T L L I S E E E D R
UniRef90_F6IFH8 E K D G R I V P D Y L R Q V K F A N S Q S E E G C V V D D D A T H T L Y I A E E D V
UniRef90_UPI000403500C S Q D G N L S L E L V R K F G N F S E I I E A T A V D D N E L G Y I Y Y S D E G T
UniRef90_M4FTL4 K V N G A V E I L E V R S I P V S A V F V G C A V S H K H S T L F L T E D V
UniRef90_M4FTL4 K V N G A V E I L E V R S I P V S A V F V G C A V S H K H S T L F L T E D V
UniRef90_B6IQK7 V N P D G T V G H V R L R H W D F P P Q F E G L V D D Q E R G L F A G Q E D V
UniRef90_I0K2J5 D D G T G H V G A T L V R K F G Q Y S E I E E S L A V D D D A L G Y V Y F S E E G K
UniRef90_UPI000473AB61 M W N Y G P I G M T L I T F G N A T Q S E E G C V Y D D D E N R T L F I S E E D R
UniRef90_UPI0003683354 D D G T G R V T Y R R T D T V D L P S Q V E E G M V F D P A D G T L Y A A Q E D V
UniRef90_UPI00037E1505 E N E G S V S A E L V R K F G G G K E I E E S L A V D D E E L G Y I Y F S D E E G K
UniRef90_X1SU07 D N G S G A V D G E L V R T M S V A T Q P E E G C A A D D I M A V L Y I G E E E A
UniRef90_E8RML6 V A A G K P V L S E T R R F N V G T Q S E E G C V V D D D V N Q T L Y I A E E E A
UniRef90_UPI0003B3F6F2 M S S L P T L A P E L T A S E I Q V G Q Q L E E G C V F D D T N G M I F V G E E E H
UniRef90_UPI00039D4582 G P P E G T V D Y R Q V R S L V L P S Q V E E G M V V D D P A N G M L Y A A Q E E V
UniRef90_H1ZBM0 T N A A G K V E L Q L A R K F G A Y S E I I E A T A V D D Q E L G Y V Y Y S D E G A
UniRef90_UPI000375B002 S D A S G I S L N L V R K F G Q F S E I E A I A V D D N E L G Y I Y Y S D E G T
UniRef90_H1H5G9 A N K E G Q I N L V L K R K F G V Y S E I E A I A V D D Q E L G Y V Y Y S D E T A
UniRef90_U2ZY21 Y A P G R L T G A I T R E W K I P T Q I E E G C V V D E T A N R L F V G E E M V
UniRef90_H0BIO7 P T R S G T V T Y R K V R S L D L P S Q V E E G M V V D P A D G T L Y A G Q E D V
UniRef90_L0G3A3 T D G G Q I S L E L V R K F G Q F S E I E A T A V D N E L G Y I Y Y S D E E G V
UniRef90_W9BUV8 H K D G K V E H S A G A T W K L N S Q I E E G C V V D P A T G A L Y V G E E D V
UniRef90_UPI00046F017F G D D Q G T V K G L V V R K F G K Y S E I E A I A V D D D L G Y I Y Y S D E Q V
UniRef90_UPI000478B8F5 S T A T G I E L E L V R K F G N Y S E I E A I A V D D A E M G Y I Y Y S D E Q V
UniRef90_K2Q6T6 P S E G K V K A E L V R E F G K F S E I E A I A V D D A N G I V Y Y S D E G E
UniRef90_UPI00036F9256 D T G T T L Q R S L Q V V G Q F G Q L E E G C V V D D D G A G L F L G E E E H
UniRef90_U5C5H1 G A N T G I Q L E L V R K F G K Y S E I E A I A V D H Q L E G F V Y Y S D E G V
UniRef90_V4Q690 E T E A G P R G E I V R R F N V G T Q S E E G C V I D D R T G A L Y I A E E A K

UniRef90_L8ERM7
UniRef90_UPI00036BDAED
UniRef90_UPI000462D7D3
UniRef90_J7LOX6
UniRef90_D9VL69
UniRef90_UPI0001DD0666
UniRef90_UPI0002F133F8
UniRef90_D9X389
UniRef90_UPI00047DD4B0
UniRef90_E8U4Z1
UniRef90_W5W786
UniRef90_V5F743
UniRef90_V5F743
UniRef90_E1SW12
UniRef90_UPI00047D1D71
UniRef90_NOCNN4
UniRef90_T0NU46
UniRef90_UPI0003B557C4
UniRef90_E4TCX8
UniRef90_B7U1A1
UniRef90_D2BFE8
UniRef90_UPI0004638E28
UniRef90_V6UEV3
UniRef90_C6XMH5
UniRef90_F0P303
UniRef90_UPI0003C7458C
UniRef90_UPI0003623BB6
UniRef90_E0TE92
UniRef90_A3J4K5
UniRef90_T0IFM8
UniRef90_UPI00037FE5D4
UniRef90_UPI00047D565B
UniRef90_C2G3A4
UniRef90_UPI00036753A5
UniRef90_A6ECW0
UniRef90_UPI000367682D
UniRef90_UPI000418873B
UniRef90_J4V1V1
UniRef90_M4SIK6
UniRef90_M3DM04
UniRef90_A4BD29
UniRef90_A4BD29
UniRef90_UPI0003698CD3
UniRef90_A0A059EEY2
UniRef90_D2PPX8
UniRef90_F4C9Q4
UniRef90_K2EJY3
UniRef90_UPI0003FB61E2
UniRef90_UPI000248A06B
UniRef90_Q1YSY6
UniRef90_V4PEC6
UniRef90_U2YYG7
UniRef90_UPI000366A30F
UniRef90_I2GMK9
UniRef90_E8WBG1
UniRef90_UPI00036AC16A
UniRef90_F0RMG0
UniRef90_S4A7N7
UniRef90_Q1K024
UniRef90_K6YBB6
UniRef90_UPI00030E8364
UniRef90_W6TL34
UniRef90_S1TAG5
UniRef90_Q2SG22
UniRef90_UPI0003B46890
UniRef90_J4X626
UniRef90_F6IFH8
UniRef90_UPI000403500C
UniRef90_M4FTL4
UniRef90_M4FTL4
UniRef90_B6IQK7
UniRef90_I0K2J5
UniRef90_UPI000473AB61
UniRef90_UPI0003683354
UniRef90_UPI00037E1505
UniRef90_X1SU07
UniRef90_E8RML6
UniRef90_UPI0003B3F6F2
UniRef90_UPI00039D4582
UniRef90_H1ZBM0
UniRef90_UPI000375B002
UniRef90_H1H5G9
UniRef90_U2ZY21
UniRef90_H0BIO7
UniRef90_L0G3A3
UniRef90_W9BUV8
UniRef90_UPI00046F017F
UniRef90_UPI000478B8F5
UniRef90_K2Q6T6
UniRef90_UPI00036F9256
UniRef90_U5C5H1
UniRef90_V4Q690

GI WR L R A D L T G 210 T P K L I D K V G G K R L T A D V I E E P K
GL WR V T H E N G V E I K R E L M D T A D N Q G R L V A D V I E G V D I W V G G P N
GV WK Y G A E P D A G A D D A E S V I D R V V G A G E N I L E A D A D A E G V M S I A Y G A D
GI WR I E L D K D E F A D D A E L S V I D R V V G A G E N I L E A D A D A E G V T T L V H A G D
UniRef90_D9VL69 GI WR I D A G L T G T P K L I D K V G G K R L T A D V I E G L T T L V T E P D
UniRef90_UPI0001DD0666 GI WR F R V G G S D P V G E L V A P I D N G M L V A D A D A E G L V A I L P E G H
UniRef90_UPI0002F133F8 GI WR F D A R P E G S T Q P I R V V A A A D A E G Q R G I V A D A E G L V A I A E G P D D
UniRef90_D9X389 GI WR M R A D L T T K P V L V D K V G G Q E R L L S A D V I E G L T A I F Q G S D
UniRef90_UPI00047DD4B0 GI R K Y V A D P E T K N D N E L A L F G Q G A D F K A D N E G L T A I Y R K K S A G
UniRef90_E8U4Z1 GI W K L P L A A G T P R L M H A V K P A G G A H L V S A D V I E G L T L Y Y G R D D
UniRef90_W5W786 GI WR M S A R L D D T P V L V D K V G G Q H L V S A D V I E G L T L Y Y G R D D
UniRef90_V5F743 GI W A Y G A D P E D I N S R Q I V D S I A P L G N L Q E I E A L D L L Y L S D
UniRef90_V5F743 GI W A Y G A D P E D I N S R Q I V D S I A P L G N L Q E I E A L D L L Y L S D
UniRef90_E1SW12 GI W L F D A R P D G D S Q G V M I A E V G P N L V A D V I E G M D L Y H G D S
UniRef90_UPI00047D1D71 GI R K Y Y A D P N K G N Q Q L A L F A T G G F T A D H E G L I S I Y Q L S S D
UniRef90_NOCNN4 GI WR L R A D L T G G R P K L I D K V G G Q S K L S A D A D V I E G L T T L Y T E S D
UniRef90_T0NU46 GI R K Y Y A D P D K G N Q E L L A D V F A Q T G F T E D H E G I S I Y K T K T G
UniRef90_UPI0003B557C4 AV W V Y D A D P E S G N D R S K L A D V N S G D S L I S A D A E G V A I W P Q T G S
UniRef90_E4TCX8 GI H Q Y Y A D P E K G N Q S I A L V F G Q S G D F L S D T I E G V A I Y P Q T G S
UniRef90_B7U1A1 GI R K Y Y A D P A K G N Q E L A L F A T T G G F K E D N E G I S I Y K T T D D
UniRef90_D2BFE8 GI WR M R A D L T G T P T L M D K V G G Q H L S A D A E G L T T Y Y R G D D
UniRef90_UPI0004638E28 GI WR V E L D D A E F E R S P E L L D R V V G G E H L S A D A E G V T V Y H A E G D
UniRef90_V6UEV3 GL WR I E L D D E E F E S P R L I D R V V G G E H L S A D A E G V T V Y H A E G D
UniRef90_C6XMH5 GI W S L D L A N A D S A P Q K V D F I E D G N D L V A D T E G L S A L W R G E N E
UniRef90_F0P303 GI R K Y Y A D P E K G N K E L A F F G Q N D F K R D H E G I A L Y K T S E
UniRef90_UPI0003C7458C GV WR L R A D L T G T P V L I D K V G G D R L A A D V I E G L T T L L T E P D
UniRef90_UPI0003623BB6 GV R K Y Y A D P E R G S N A E L A L F A K T G F A E D H E G L S I Y K T G A
UniRef90_E0TE92 GI E R F R L T T D G T S D G E M I L A D R V G S D N I V A D H E G L S I Y K T K D D
UniRef90_A3J4K5 GI R K Y L A D P S K N D N N E L A F F G Q N D F K S D N E G I A I Y K K T E G
UniRef90_T0IFM8 GI W K V P L A G A T L V A E P F A R V G A Q D G L V A D V I E G L A V A R E S G D
UniRef90_UPI00037FE5D4 GI WR V R A D L T S R P T L I D K V G G R R L S A D V I E G L T L I E E P D
UniRef90_UPI00047D565B GV R K Y I A D P A L N N Q E L A L F G T K G F R A D H E G I S I Y K T G T D
UniRef90_C2G3A4 GV R Q Y Y A D P E K G N K Q L A L F A T S G G F A E D H E G L S I Y K L T R D
UniRef90_UPI00036753A5 GI WR L P A D L T G T P R L T D R V V G G T R L S A D V I E G L T L V T G T D
UniRef90_A6ECW0 GV H K Y H A D P S K G N E E L A L F A D T T G F V S D H E G I S I Y K T G P
UniRef90_UPI000367682D GI WR V R A D L T G T P R L V D K V G G T H L S A D V I E G L T L L T E P D
UniRef90_UPI000418873B GI K K Y I A N P A I A N N T E L A F F G Q K H D F K A D H E G I A I Y K T G P
UniRef90_J4V1V1 RI R A Y D I N D D D F S N F N V V D T R E G F I D E D P E G L A I Y K T D A
UniRef90_M4SIK6 AI WR E D F D P R G S A D P M Q V A V A D G L R L T A D V I E G L T A I L R D R
UniRef90_M3DM04 GI WR L R A D L T G R P V L I D R V V G G R R L S A D V I E G L T L Y Q E P
UniRef90_A4BD29 GV W V Y G A D V E N V K D R R L L E T V A P L G H L T E I E D M D L T L Q E E
UniRef90_A4BD29 GV W V Y G A D V E N V K D R R L L E T V A P L G H L T E I E D M D L T L Q E E
UniRef90_UPI0003698CD3 GI R K Y Y A D P A K G N D E L A F F G Q N D F K R D H E G I A I Y K T S E
UniRef90_A0A059EEY2 GI W K L D L N D W S A A P V S V D T I A A Q N L V A D V I E G M D I W A G A D
UniRef90_D2PPX8 GI W K L D A D L S G P A T M V D K V G G R H V T A D V I E G L I A I F D D G G
UniRef90_F4C9Q4 GI R K Y M A D P A V N N N E E L A L F G Q S G F S K D H E G L A I Y K T G A
UniRef90_K2EJY3 GI W A F P E K A P G K M I A R V G E N G L T A D V I E G L A L Y
UniRef90_UPI0003FB61E2 GV R K Y Y A D P E K G N A E L A L F A T T G G F T E D H E G I S I Y E L T D
UniRef90_UPI000248A06B GI WR F A L N A G A G A P L K V A P I D G Q R L T A D V I E G L T T L Y K T S A
UniRef90_Q1YSY6 NL R A Y P V E A L D F S N P L I I D S R E G N I G G D P E G V T T L Y K T S A
UniRef90_V4PEC6 AL W R Y G L D P A S G S A R T A V E S L P S Q K L V A D V I E G L T T L M R D D
UniRef90_U2YYG7 AL W R Y D F D P S G S G Q A V E I A R V D Y E R F K V A D I E G V T T L M R D G
UniRef90_UPI000366A30F GL WR I G V S G G R F A A E T L I D R V V G G T R L A A D A E G V T T I Y H G R D
UniRef90_I2GMK9 GV R K Y Y A D P E K G N Q E L A L F A S T G F A E D H E G I S I Y K L T D D
UniRef90_E8WBG1 GI WR L P A D L R G R P V L V D K V G G K R L S A D V I E G L T L V R E S G E
UniRef90_UPI00036AC16A GI R A Y N I D D E L D F S S P I V I D N R S G Y I N G D P E G V T T I Y K T S E
UniRef90_F0RMG0 GV WR W D L D G R R S V L L D Q V A P L A P R L H A D V I E G L T L V R G S A
UniRef90_S4A7N7 GV W V Y G A E P G S G T A R T K L D S T G G H I T A D T E G I T
UniRef90_Q1K024 GV R K Y Y A D P S Q G N K E L A L F A T K G F A G D H E G I S I Y T Q P N
UniRef90_K6YBB6 GI W K A D L N P A N S Q E W Q L V A K V G S D K L L A D A E G L A I Y D P G G N
UniRef90_UPI00030E8364 GI W A I D L N A T G A K R M V A T V D N R M L V A D V I E G L A I A P E G G K
UniRef90_W6TL34 GV R K Y Y A D P A K G N K E L A L F A K E G F T E D N E G I S I Y K T T D
UniRef90_S1TAG5 GI WR L R A D L R G R P V L V D K V G G A R L V S A D V I E G L T L Y E Q E D
UniRef90_Q2SG22 GV W R I P M D P D A E L P D V V A S F G G Q R H L K A D V I E G L T T I Y Y G P
UniRef90_UPI0003B46890 GI W Q I D P E S G E R R L I E S I E Q G H L V A D V I E G L D I Y D G E S
UniRef90_J4X626 GI Y K I N S N D F S N P V I L D S R S G E N I D D D P E G V A I Y K T S T
UniRef90_F6IFH8 GI WR V P L T G E L K A P V I F A R V G A E N D L V D D V E G L A I Y A Q K G G
UniRef90_UPI000403500C GV R K Y Y A E P D M G N E E L A L F A T E G F T D D H E G I S I Y K T S E
UniRef90_M4FTL4 G Q D V Y T M E L V E N T A A P V I T K V D N V T A A T G V S V Y E T S S S
UniRef90_M4FTL4 GV Q D V Y T M E L V E N T A A P V I T K V D N V T A A T G V S V Y E T S S S
UniRef90_B6IQK7 GL WR V D A A P F H E T R G S T R S P F D N R R V A R D V I E G L A L Y Y G P E
UniRef90_I0K2J5 GV R Q Y Y A D P Q K G N A E L A L F A T T G G F T Q D H E G L S I Y A A T T D E
UniRef90_UPI000473AB61 GI Y K I N N E L D F S N A P L I I D N R S G N I D D D P E G V T T V Y K S S E
UniRef90_UPI0003683354 GV WR I P L R A G R F G T P T P V D R V A G T H L S A D A E G L T S I Y A A G H H
UniRef90_UPI00037E1505 GI R K Y Y A E P A M G N E E L A L F A T E G F T D D H E G L S I Y Y A F P D
UniRef90_X1SU07 GV W K F G A E P E D G N A R T L V D S V G V H L V P D V E G L A I Y Y A T D
UniRef90_E8RML6 GI W M Y S L D P A T G P Q R K A L A S L P S D V L K A D V I E G L T L L R D G Q
UniRef90_UPI0003B3F6F2 GV W K L D L N D L S V A P V T I D T I A A A N G L V A D V I E G M D I W E G E N D
UniRef90_UPI00039D4582 GI WR L R A D L T G R P K L V I D R V V G G K H L A A D V I E G L T L T E S D
UniRef90_H1ZBM0 GV R K Y Y A D P A K G N Q E L A F F A Q T D A K R D H E G I A I Y K K E A
UniRef90_UPI000375B002 GV R K Y Y A D P A K G N E E L T L F F G T E G F T K D H E G I S I Y K L D A
UniRef90_H1H5G9 GL R K Y Y A D P E K G N E E L A F F V K G D A K R D H E G I A I Y K K D A
UniRef90_U2ZY21 GI H A F D L N T A D A K P T L F A K A D R R Q L V A D V I E G L A L A S L P D
UniRef90_H0BIO7 GI WR M P A D L R G K P V L V D K V G G S R V S A D V I E G L T L R E R N
UniRef90_L0G3A3 GV R K Y Y A D P E M G N E E Q L A L F A T E G S G F T K D H E G I S I Y K L R D D
UniRef90_W9BUV8 GI W K I D A R P E A A P V L F A A A D G K Q M V A D V I E G L A L A T R E G
UniRef90_UPI00046F017F GV R K Y Y A H P D S N Q E E L A L F A N T G F T E D N E G I S I Y K T G A
UniRef90_UPI000478B8F5 GV R K Y Y A D P G K G N E E L A L F A T E G F T K D H E G I S I Y K T G A
UniRef90_K2Q6T6 Y R K Y Y A E P S K G N Q E L S C F G A S Y F R D D I E G I A L A N G V N
UniRef90_UPI00036F9256 GI W K L D L R Q P D S S P E I V D T I E A G N G L V A D V I E G L S I W I G E G
UniRef90_U5C5H1 GV R K Y H A N P E K G N E E L A L F A T S G F T Q D H E G I S I Y Q L D D
UniRef90_V4Q690 GI WR Y G V E P A T G S T R V E L Q A A P S N I L V P D V I E G L A L L V D E D

UniRef90_L8ERM7 G D G Y L L A S S 250 Q G D N T R Y V V A Y D 260 R E D D N E Y E G G F R V 270 V A A S P A L D 280
UniRef90_UPI00036BDAED D E G Y V L V S S A Q Q A N D R Y V V Y D R T A S G N D L F V K S F A I N I V I K A D G G S T L V D G
UniRef90_UPI000462D7D3 G A G Y L F V S S Q Q G A N D T F I A V Y D R S R G D N D Y V L G S F A I V D A N G P A T V D D A
UniRef90_J7LOX6 G A G Y V L V S S Q Q G D D T F A V Y E R R G G S D N D Y V L G S F A I V D A N G P A T V D D A
UniRef90_D9VL69 G D G Y L L A S S S Q Q G D D T F V A Y D R E R G G N E F E G A F R I I T A A S G A V L D G G
UniRef90_UPI0001DD0666 R G G Y L L A S S S Q Q G D N A Y A V Y F R L P G D M E A P V V G R F R I I T A A Q G A V L D G A
UniRef90_UPI0002F133F8 D G G Y L L V S S S Q Q G D N A Y A V Y F R L P G D M E A Y V V G R F R I I T A A Q G A V L D G A
UniRef90_D9X389 G D G Y L F A S S S Q Q G D D T F A L Y D R E E D S D N E Y E G G F R V L G A A S A T T D G S
UniRef90_UPI00047D4B0 T E G Y L L V S S N Q Q A N T F M V Y P R E T G D N K A F L G S F R V L L A E I P T S
UniRef90_E8U4Z1 T R G Y L L A S S Q Q G D N T F A V F D R T G D N A F L G S F R V L T A A G K T V L D G
UniRef90_W5W786 G S G Y L I C S S Q Q G D S T F A V Y R R E P G N A Y V G S F R V L T A A G K T V L D G G
UniRef90_V5F743 G K G Y L V V G D E G K G M M L Y N R D D W S L K K A N I Q L D D G
UniRef90_V5F743 G K G Y L V V G D E G K G M M L Y N R D D W S L K K A N I Q L D D G
UniRef90_E1SW12 K G Y L V V S S Q Q G N D S Y V L Y D S E P P Y A Y R G R M R I L G N K A G I D G
UniRef90_UPI00047D1D71 T T G Y L L V S S D Q Q A N K F H L F S R E G D S V S N P H E H Q L K V I T V L K
UniRef90_NOCNN4 G D G Y L L A S S Q Q G D N T F A A Y D R R Q D D N A Y E G G F R V L A A N S R L D G
UniRef90_T0NU46 K K G Y L L V S S D Q Q A N K F H I F S R E T A D N G L I G R F E I I A N G G E I V D R S
UniRef90_UPI0003B557C4 A A P W L V V S S D Q Q A N K F A V F N T A D N G L I G R F E I I A N G G E I V D R S
UniRef90_E4TCX8 N T G Y L L V S S N Q Q A D T F N V Y R R E N P T A G K I I T S I P V T S S
UniRef90_B7U1A1 S T G Y L L V S S D Q Q A A N H F Q V F N R E G T K Q D P N K H V L I T S I P V T S S
UniRef90_D2BFE8 Q K G Y L L A S S Q Q G D N T F A A Y R K R E G S N A Y L G S F A V I G T H N S V D D G
UniRef90_UPI0004638E28 G A G Y V L A S S Q Q G D N T F A A Y R R R G S N A Y L G S F A V I G T H N S V D D G
UniRef90_V6UEV3 G T G Y V L A S S Q Q G D N T F A V Y A R E G D N A H L G N F A I K D G P A I D D G
UniRef90_C6XMH5 G E G Y L V A S S A Q Q A N D R F V V Y D R K A P H A P R G I T L T A D G A I D A
UniRef90_F0P303 T D G Y L L I S S Q Q A A N F V V Y K R E G E S T N P H N H K M I A K I P F D S
UniRef90_UPI0003C7458C G D G Y V L A S S S Q Q G D D T F V A Y D R E D D N E Y E G G F R V L A A S V L D G
UniRef90_UPI0003623BB6 K T G Y L L V S S D Q Q A N Q Y H I F R R E G E P G H P N D H K L K V I V K V D A
UniRef90_E0TE92 K T G Y L V A S S Q Q G A N D T F A V Y T R E L T G A Y L G R F R I A P G D E V D G
UniRef90_A3J4K5 T T G Y L L V S S N Q Q A N T F I V Y T R E E N S N Q E N K H I K I A E I P T S
UniRef90_T0IFM8 G R A W L V A S S Q Q G D N T F A L F D L S S G K L S G R F R I T D G G T G G G
UniRef90_UPI00037FE5D4 G D G Y L M A S S Q Q G D D T F A F Y D R E S D A N E Y E A G L R I T A T G G P D G
UniRef90_UPI00047D565B K S G Y L L V S S N Q Q A N S F I V F N R E G S T N G N P N N H L P L A E I P V A
UniRef90_C2G3A4 S T G Y L L V S S D Q Q A N R F Q I F S R R E G T K E N P Y A H Q L K T V P V A
UniRef90_UPI00036753A5 G T R H L L V S S Q Q G D D T F A L Y R R G V Y A A G F R V I T A K T V P V D G
UniRef90_A6ECW0 S T G Y L L V S S N Q Q K N T F M V Y P R E G K D G N A N L H P L I A E V P V S
UniRef90_UPI000367682D G D G Y L L A S S Q Q G A N T F A L Y D R E V D N E Y E G G F R V L T A A S P L D S
UniRef90_UPI000418873B T T G Y L L V S S N Q Q A N T F M V Y A R E G S N G N V N E H K L L A E I P T S
UniRef90_J4V1V1 N K G Y L I A S S Q Q G D N S F N L Y N R Q E N P Y N Y I G S F K I G H S L G I D N
UniRef90_M4SIK6 G V D Y L I A S S Q Q G D A T F P V W R D E E G A N H Y V G F F A V E E G G A L D A
UniRef90_M3DM04 G D G Y L L A S S Q Q G D D T F A L Y D R E E G N E Y E G G F R I I G A S D T D D G
UniRef90_A4BD29 G N S V L W V A D E G A G L V A L Q T N A D T S F I G A L S V E G F D E V K L
UniRef90_A4BD29 G N S V L W V A D E G A G L V A L Q T N A D T S F I G A L S V E G F D E V K L
UniRef90_UPI0003698CD3 K N G Y L L V S S D Q Q A N F N V Y K R E G S I S N P N E H Q V L A K I P V S
UniRef90_A0A059EEY2 G A G Y L V A S S Q Q A A D R F V V Y N L K A P H A P R G V F T V T A N G S I D A
UniRef90_D2PPX8 G E G Y L L A S S Q Q G D N T F V A Y D R E G S N P Y L T N F R I S A G G T V D G
UniRef90_F4C9Q4 E T G Y L L V S S N Q Q G S H T F M V Y P R E G T K A N K N E Y P L I A E I P V D G
UniRef90_K2EJY3 G G K Y L I A S S Q Q G S C S Y N I Y K P S P P Y S F L G S F K I T P G T H E G
UniRef90_UPI0003FB61E2 S T G Y L L V S S D Q Q A N S F I F P R E G D A V D A N K H T L L K K I T V L D
UniRef90_UPI000248A06B G A A Y L I A S S Q Q G A D T Y P I W R D D Y A Y Q G R F A V I E G G A I D A
UniRef90_Q1YSY6 T E G Y I I L S S Q Q G D S K F N L Y N R T A P A Y A Y L G S F E V G E V G T V D G
UniRef90_V4PEC6 G K T Y L I A S S Q Q G D S T F A V V R V I E G E A P Y Q G R F S V V A G K G I D A
UniRef90_U2YYG7 G E A F L I V S S Q Q G D S T F A V Y R I E G D H V Y L G R F A V A G D V D G
UniRef90_UPI000366A30F G Q G Y V L A S S Q Q G D S T F A V Y T R S G G N R Y L G S F R V V A G D V D G
UniRef90_I2GMK9 T T G Y L L V S S D Q Q A N R F H I F S R E G A V A N P N Q H D L K V I T V S
UniRef90_E8WBG1 G D G Y L L A S S Q Q G D D T F A L Y D R E D N E Y E G G F R V I G A S A D L D G
UniRef90_UPI00036AC16A K E G Y V I V S S Q Q G D D T F N L Y D R L S P Y K Y I G S F K I G H F K E I D G
UniRef90_F0RMG0 G R G Y L L V S S Q Q G S N A Y A V Y S R D D G K R Y F G S F Q V T A G S D L
UniRef90_S4A7N7 A G N R L F V S S Q Q G S N A Y T V Y D R R N G S Y L G R F G V A S G T V A D D
UniRef90_Q1K024 G Q G Y L L V S S D Q Q A N E F H I F P R Q G T T D D P H H H P L L K V V E L A
UniRef90_K6YBB6 G K G Y L L A S S Q Q G D N T A V A V F R D D G D N Q F V N S F T V A D G E L D G
UniRef90_UPI00030E8364 D G G Y L V A S S Q Q G D N T A V A V F R D D G D N Q F V N S F T V A D G E L D G
UniRef90_W6TL34 T T G Y L L V S S D Q Q A N Q F K V Y S R E G V K N K N D H Q L I T S I K V S S
UniRef90_S1TAG5 G D G Y L L T S S Q Q G D D T F V A Y D R E D D Y E Y E G R F R V I G A A S A L D G
UniRef90_Q2SG22 K S G Y L L A S S Q Q G D D R Y V V Y D R Q S N P Y M G E F A I V A D G P Y T D G
UniRef90_UPI0003B46890 Q R W L I A S S Q Q G D D S Y V V Y E L D P W R Y V A K F R I V P D Y G I D D G
UniRef90_J4X626 N D G Y L L S S Q Q G D N S F N V Y D N P T E S Y N Y L G S F K I G H S G G V I D N
UniRef90_F6IFH8 N G S W L V A S S Q Q G D N A Y A V F D P T S G K L A G R F R I I T T G G K I D G
UniRef90_UPI000403500C T E G Y L L V S S D Q Q A N L F H V F P R E G S Q S N P H Q H S L I T T L P L S
UniRef90_M4FTL4 S E D Y V F V A Q E N S I S V Y R H P W D L V G K V I T L T G R D K I
UniRef90_M4FTL4 S E D Y V F V A Q E N S I S V Y R H P W D L V G K V I T L T G R D K I
UniRef90_B6IQK7 G T G Y L V A S S S Q Q G D D T F A V F E R R G G D N R Y L G S F R I I V A G G G V D G
UniRef90_I0K2J5 S T G Y L L V S S D Q Q A N R F H V F R R E G T A T E P F K H E L V S K T V L V
UniRef90_UPI000473AB61 K D G Y V I V S S Q Q G D S F N L Y N R Q E P Y A N Y L G S F K V I G S N K G I D N
UniRef90_UPI0003683354 G E R L L A S S S Q Q G D S T F A A Y D L S R R A R Y T G G F A V V D S S T V D G S
UniRef90_UPI00037E1505 G T G Y L L V S S D Q Q A N K F H I F P R E G T T E N S H Q H D L L A K A V I Q I D G
UniRef90_X1SU07 T T G Y L I A S S Q Q G N D T Y V I Y K R E G N A Y V G T F Q I I V A G D E I D G
UniRef90_E8RML6 K T Y L I A S S Q Q G D S A F A V W R V I E G S P V Y Q G R F S V F P G S G I D A
UniRef90_UPI0003B3F6F2 G E G Y L V V S S A Q A A N R F V V Y D L Q A P H A A R G I F T V T A N G S V D A
UniRef90_UPI00039D4582 G D G Y V V A S S Q Q G D S T F V L Y D R E D H N E H E G E F R V T A A S T L D G
UniRef90_H1ZBM0 T T G Y I V V S S N Q Q D N S I L I Y P R E G A S D N P H E H Q L I T T I P V A
UniRef90_UPI000375B002 N T G Y I L V S S D Q E A N Q F H V F P R E G T A E N P N Q H E L I T I K T S
UniRef90_H1H5G9 N S G Y I I V S S D Q Q D N S I L I Y P R E G E Q G N P H E H R L I A K I P V S
UniRef90_U2ZY21 G R R L L A S S Q Q G D N A Y A A Y D A V S G H F L G R F R I I G D G A I D G
UniRef90_H0BIO7 G D R Y L L A S S Q Q G D D T F A A Y A R R T G R E Y A G D F R V I T A A S A T D G
UniRef90_L0G3A3 K T G Y L L V S S D Q E A N Q F A V F P R E G A D N P H H H Q L I T K A K T S T
UniRef90_W9BUV8 A S S L L V A S S Q Q G D N A Y A V F D T A T G T L V G R F R I I N G G A L D G
UniRef90_UPI00046F017F T T G Y L L V S S D Q Q A D K F H I Y K R E G T A D N P H H H Q L I V K T V K V A S
UniRef90_UPI000478B8F5 A T G Y I L V S S D Q E A N Q F H V F P R E G A E G N P H E H Q L I S K L P L S
UniRef90_K2Q6T6 G K N Y I I V S S N Q Q N H S F V I F D S S D L S F V K E V N L S
UniRef90_UPI00036F9256 T E G Y L V A S S A Q A A D R F V V Y D R A A P H A L R G V V T I T A D G S V D A
UniRef90_U5C5H1 N T G Y I L V S S D Q E A N Q F H V F P R E G S E N N P H Q H D L I T V V K T S A
UniRef90_V4Q690 G L S Y L I A S S Q Q G D S A F A V W Q V A G E T S Y K G R F S V F P G N G F D A

UniRef90_L8ERM7 S E E C D G A A A L K A P L G A K Y P N G L L V V Q D G H D A P G D P R P S T N 300 310 320
UniRef90_UPI00036BDAED V S H T D G L T V S S A Y L G D N L P S G L L V V Q D D A N T E P R A N Q N
UniRef90_UPI000462D7D3 V T G T D G L D V T T G N A L G P Q F F E Q G L L V V H D E S N A D G E A T S N
UniRef90_J7LOX6 T Q H S D G A T V T V N V P L G D A F P P Q G L L V V H D G E E T P E G D R E S T N
UniRef90_D9VL69 S E E C D G A A A L N A P L G A R Y P H G L L V V Q D G K E T P G G D R E A T G
UniRef90_UPI0001DD0666 T E E T D G I D L H A G S F F P A D Y P A G L F V A Q D G I N P P Y A Q N
UniRef90_UPI0002F133F8 T E Q T D G I E L M V G D F G P D F P P G G L F I A Q D G I N P P A A Q N
UniRef90_D9X389 S Q E C D G A A V L N A P L G S R F P N G L L V V Q D G H E T P E V P D G A T G
UniRef90_UPI00047DD4B0 T I E C D G A D V T S V N L G G A N Y K N G L F V A M S N G R T
UniRef90_E8U4Z1 S E A C D G A V V V N A N F G A A F P R G L L V V Q D G E N D G V K D A T N
UniRef90_W5W786 A E H S D G A A V V G V P L G D K Y P K G L L V V H D G D N T P G G K R N N T D
UniRef90_V5F743 V D E I K S L A V A N
UniRef90_V5F743 V D E I K S L A V A N
UniRef90_E1SW12 S A E T D G A V T A A P V G S G G W A S G M L V V Q D G R N R M P D G F H N
UniRef90_UPI00047D1D71 A S H S D G S E T I A L P F N K T F K K G L F E V V M S D D D K T
UniRef90_NOCNN4 S E E C D G A A A L N A P L G S Q Y P N G L L V V Q D G H D A P G G D R P A T N
UniRef90_T0NU46 S D G S D M V S I P L N A T F R H G L F V V M S D D K T
UniRef90_UPI0003B557C4 T S E T D G I D V H A L P L G P G Y P E G V F L A Q D D A E D T G G Q N
UniRef90_E4TCX8 T K K S D G S E A S A V N F G D K F P K G I F V A M S N G K V
UniRef90_B7U1A1 T N N S D G S D I Y S K A L N N D F K H G L F V A M S D N K T
UniRef90_D2BFE8 V E H S D G S T V L N V P L G D F D E G L F I A H D G A N T P A V P R E N T N
UniRef90_UPI0004638E28 V Q H S D G S T V V N V P L G R N F P K G I L I T H D G E A A P A G D R E S T N
UniRef90_V6UEV3 V Q H S D G S T V V N V P L G D A F P K G L L I T H D G E A S P A D P D D S T N
UniRef90_C6XMH5 V T H T D G L D V S S A S L P G Y P A G I L V V Q D D G N P K S G V D Q N
UniRef90_F0P303 S I E C D G A D A V N A N F G K P F T N G L M V T M S N G K V
UniRef90_UPI0003C7458C S E E C D G A A V L N A P L G R K Y P N G L L V V Q D G E D T P A D D R D A T N
UniRef90_UPI0003623BB6 A Q V S D G S D V T N V P L G K Q F P H G L F V A M S E G K T
UniRef90_E0TE92 A E E T D G L D V T S R A L P G Y P E G M L V V Q D G F N D D G N Q N
UniRef90_A3J4K5 T V I E C D G A D A T S I Q L N Q A F P K G M L V A M S N G M T
UniRef90_T0IFM8 T S E T D G I E V L L G D F G P Q F P E G L M V A Q D G D N A P K A Q N
UniRef90_UPI00037FE5D4 S E E C D G A A A L N Q P L G P D Y P R G L L V V Q D G H D T P H G E R G A T G
UniRef90_UPI00047D565B A L I E S D G S E A S S L N F G S K F P K G I F V A M S N G K V
UniRef90_C2G3A4 A R Q S D G S D V V N V P L N D T F K N G L F V A M S D D K T
UniRef90_UPI00036753A5 A E E S D G A A V L N A P L G P E Y P H G L L V V H D G H E D D P G G R E A T D
UniRef90_A6ECW0 T I E S D G S E V S N I N L G P K F P K G L F V A M S N G K V
UniRef90_UPI000367682D A E E S D G A A L D A P L G P K Y P K G L L V V Q D G H D T P G G D R E A T G
UniRef90_UPI000418873B T I E C D G A D A T S L N M G K F P K G F L V A M S N G M T
UniRef90_J4V1V1 V S D T D G I D V T N I N L G T N Y K K G L F V V Q D G T N D G A E I V E R Q N
UniRef90_M4SIK6 V T G T D G I D A W S G P I G P F P E G A I A M H D T A D G D G P Q Q N
UniRef90_M3DM04 V E E C D G A A V L N A P L G H R Y P R G L L V V Q D G Q E T P G V P D G S T G
UniRef90_A4BD29 V S A A N G
UniRef90_A4BD29 V S A A N G
UniRef90_UPI0003698CD3 T I E C D G A D A V N F N F G P T F P K G F F V A M S N G K V
UniRef90_A0A059EEY2 V T H T D G L D V S S A A L P G F P K G I L V V Q D D G N P A S G V D Q N
UniRef90_D2PPX8 S E E C D G A M V S S A S F G S A Y P D G L L V V Q D G F N A P G E P R A N T N
UniRef90_F4C9Q4 A M E T D G A D A S S V N L G A Q F P E G I L V A M S T N R T
UniRef90_K2EJY3 T E E T D G I D V T E A N L G G P Y T N G L F V A H D N R S S K G G G S N
UniRef90_UPI0003FB61E2 A N K S D G S E T V S V P L N A D F P K G L F V A M S D D K T
UniRef90_UPI000248A06B V T G T D G L D A W S G P I G P Y P E G A I A M H D T A D G A G P Q Q N
UniRef90_Q1YSY6 V S I T D G V A A I N Y P L N E D F P R G L L V V Q D N D N I S K T T R K P Q N
UniRef90_V4PEC6 V T G T D G V A A L G G Q V P G Y P K G G V V M Q D D S D T D G E A P A T Q N
UniRef90_U2YYG7 V H G T D G L D A W S G P I G G F P N G L L A I H D D Q E D S G P N Q Q N
UniRef90_UPI000366A30F A E H S D G A A V T N V P L G R D Y P R G M L V V H D G E A E P G G E R E A T N
UniRef90_I2GMK9 A H Q S D G S E T V S V P L N S Q F R Y G L F I A M S D D R T
UniRef90_E8WBG1 S E E C D G A A V L D E P L G A R Y P H G L L V V Q D G H E T S A E G R E A T G
UniRef90_UPI00036AC16A V T D T D G I S A I N F N L N N D F K R G L F V A Q D G T N D G K L K V K R Q N
UniRef90_F0RMG0 V Q D S D G A D A V L T P L G S D Y P G G L L V V Q D G E A G G A E G Q T N
UniRef90_S4A7N7 C E D T D G I D A T A L L G S A F P K G V F I C Q D G S N G A P G G S G N Q N
UniRef90_Q1K024 T C E S D G S E A T S T P L G K N F P Q G M F V A M S D N C T
UniRef90_K6YBB6 V N E T D G M M V V N V N L G G R F D Q G M L V M Q D G Q N K G P K P R E N S N
UniRef90_UPI00030E8364 A E E T D G I E L D N R A F G A D Y P G G L F I A Q D G Q N A P Q A Q N
UniRef90_W6TL34 T N Q S D G S D I Y S K P L N G D F K H G I F V A M S D N K T
UniRef90_S1TAG5 S E E C D G A D V L A E P L G S R Y P N G L L V V Q D G H M A P D G D R E A T G
UniRef90_Q2SG22 T Q E T D G G A V I N V N M G P D F P Y G L L V V Q D G D N T P G G K R E A T N
UniRef90_UPI0003B46890 V S E T D G L A V S T A A L T G Y P K G V L V V Q D G R N R A P A A P Q N
UniRef90_J4X626 V N D T D G I D V V S N R L N S K Y P K G L L V V Q D G T N D G K K I V K R Q N
UniRef90_F6IFH8 T S D T D G I E V V L G D F G P Q F P E G L F I A Q D G D N A P D A Q N
UniRef90_UPI000403500C T L S S D G N E V T S A D L G G E F S E G L F V A M S D D K T
UniRef90_M4FTL4 E I E G L S T Y Q A S T S R Y P Q G V L T Y S M K A K S R G
UniRef90_M4FTL4 E I E G L S T Y Q A S T S R Y P Q G V L T Y S M K A K S R G
UniRef90_B6IQK7 V Q E C D G A E I V S Y A L P G F P N G L M V V Q D G Y N D D S M G E P E A T N
UniRef90_I0K2J5 T H E S D G S E T V S V P L N Q Q F R H G L F V A M S D D R T
UniRef90_UPI000473AB61 V N D T D G I D V S V N F N L G N K Y P M G L F V L Q D G T N D G K N K V K R Q N
UniRef90_UPI0003683354 V Q H S D G A A V V T V P L G P D F P H G L L V L H D G E N T P N D G R E S T N
UniRef90_UPI00037E1505 T R E S D G S E I T Y Q T F N G K F P G G L F V A M S D D K T
UniRef90_X1SU07 T S D T D G I D V S N F G M G P H F P N G L F A V Q D G S N P G A N Q N
UniRef90_E8RML6 V T G T D G V A A L G G Q V G P Y T K G I V V M Q D D M D T E G E T R A R Q N
UniRef90_UPI0003B3F6F2 V T H T D G L D V N S T A L P G Y P R G V L I V Q D D A N P T S E V D Q N
UniRef90_UPI00039D4582 T R E T D G V A V L N A A L G E S Y P D G L L V V Q D G D E T P S E P R E A T N
UniRef90_H1ZBM0 A I E C D G L E I T A Q G L D P K F P K G M L V M M S N G K V
UniRef90_UPI000375B002 A L S S D G S E L V S L P L N K T F P K G L F V A M S D D R T
UniRef90_H1H5G9 A I E C D G L E V T S L G V S N I F N Q G M L V M M S N G K V
UniRef90_U2ZY21 T S E T D G I D V V I G D F G P G F P G G L F V A Q D G D N G G G T Q N
UniRef90_H0BIO7 S E V C D G A A V V S E P L G S R Y P G G L L V V Q D G T A T P A Q D R E A T G
UniRef90_L0G3A3 V S S D G S E S L S T A L G A D F P H G L F V A M S D D K T
UniRef90_W9BUV8 T S E T D G I E L A V G D Y G P G F E Q G L F I A Q D G D N G G G T Q N
UniRef90_UPI00046F017F A H K S D G S E V T N L P F L P K F K R G V V V M S E G K V
UniRef90_UPI000478B8F5 T I S S D G S E V T N K A L G P D F P K G L F V A M S D D K T
UniRef90_K2Q6T6 T I E T D G C E V T T A L L G S A F P N G L F V A M N D E R N
UniRef90_UPI00036F9256 V S H T D G L D V S S A A L P G F P R G V M I V Q D D A N P L P E V D Q N
UniRef90_U5C5H1 V S S D G S E V T S L P L N T T F S K G L F V A M S D D K T
UniRef90_V4Q690 V T G T D G V A A L G G Q V G P Y A E G V V M Q D D S D T P T G A R A R Q N

UniRef90_L8ERM7
UniRef90_UPI00036BDAED
UniRef90_UPI000462D7D3
UniRef90_J7L0X6
UniRef90_D9VL69
UniRef90_UPI0001DD0666
UniRef90_UPI0002F133F8
UniRef90_D9X389
UniRef90_UPI00047DD4B0
UniRef90_E8U4Z1
UniRef90_W5W786
UniRef90_V5F743
UniRef90_V5F743
UniRef90_E1SW12
UniRef90_UPI00047D1D71
UniRef90_NOCNN4
UniRef90_T0NU46
UniRef90_UPI0003B557C4
UniRef90_E4TCX8
UniRef90_B7U1A1
UniRef90_D2BFE8
UniRef90_UPI0004638E28
UniRef90_V6UEV3
UniRef90_C6XMH5
UniRef90_F0P303
UniRef90_UPI0003C7458C
UniRef90_UPI0003623BB6
UniRef90_E0TE92
UniRef90_A3J4K5
UniRef90_T0IFM8
UniRef90_UPI00037FE5D4
UniRef90_UPI00047D565B
UniRef90_C2G3A4
UniRef90_UPI00036753A5
UniRef90_A6ECW0
UniRef90_UPI000367682D
UniRef90_UPI000418873B
UniRef90_J4V1V1
UniRef90_M4SIK6
UniRef90_M3DM04
UniRef90_A4BD29
UniRef90_A4BD29
UniRef90_UPI0003698CD3
UniRef90_A0A059EEY2
UniRef90_D2PPX8
UniRef90_F4C9Q4
UniRef90_K2EJY3
UniRef90_UPI0003FB61E2
UniRef90_UPI000248A06B
UniRef90_Q1YSY6
UniRef90_V4PEC6
UniRef90_U2YYG7
UniRef90_UPI000366A30F
UniRef90_I2GMK9
UniRef90_E8WBG1
UniRef90_UPI00036AC16A
UniRef90_F0RMG0
UniRef90_S4A7N7
UniRef90_Q1K024
UniRef90_K6YBB6
UniRef90_UPI00030E8364
UniRef90_W6TL34
UniRef90_S1TAG5
UniRef90_Q2SG22
UniRef90_UPI0003B46890
UniRef90_J4X626
UniRef90_F6IFH8
UniRef90_UPI000403500C
UniRef90_M4FTL4
UniRef90_M4FTL4
UniRef90_B6IQK7
UniRef90_I0K2J5
UniRef90_UPI000473AB61
UniRef90_UPI0003683354
UniRef90_UPI00037E1505
UniRef90_X1SU07
UniRef90_E8RML6
UniRef90_UPI0003B3F6F2
UniRef90_UPI00039D4582
UniRef90_H1ZBM0
UniRef90_UPI000375B002
UniRef90_H1H5G9
UniRef90_U2ZY21
UniRef90_H0BIO7
UniRef90_L0G3A3
UniRef90_W9BUV8
UniRef90_UPI00046F017F
UniRef90_UPI000478B8F5
UniRef90_K2Q6T6
UniRef90_UPI00036F9256
UniRef90_U5C5H1
UniRef90_V4Q690

330 340 350
F K F V D L R D V L K A V D
F K L V D W R E V E K A L G
L K Y V P L S A V L R
F K L T R W D A V A S A F P E P L V I D T S F D P R
F K F V D L G E V L G A I D
F K L V S W A A I L E A L E T S P K A D
F K L T A W G D I K A A L G L R
F K F V D L G D V V E A A D L
F H Y Y S W D S I Q Q L I D
F K L V A W E D V A A P L G L R A A T D A
F K F V G W E H V A E S F P S P L L V D T T

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

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

1 10 20 30 40

UniRef90_K6H468
UniRef90_UPI000479EC28
UniRef90_T2KR38
UniRef90_GOL3R2
UniRef90_S6WEE4
UniRef90_D3Q053
UniRef90_J9DE28
UniRef90_I0GX85
UniRef90_UPI000405FD63
UniRef90_UPI00035F18F2
UniRef90_A4BZB5
UniRef90_UPI000255AF26
UniRef90_F0RE83
UniRef90_UPI00047B73E4
UniRef90_M7YE22
UniRef90_A0A059FG14
UniRef90_S6UNQ5
UniRef90_G8R7W3
UniRef90_Q1GNE5
UniRef90_B3EJU3
UniRef90_B4S367
UniRef90_UPI000477CA37
UniRef90_UPI000372E0A8
UniRef90_D5BCF0
UniRef90_UPI00046F3571
UniRef90_I3C519
UniRef90_S7VT11
UniRef90_F8L721
UniRef90_F4QY51
UniRef90_UPI000478AD85
UniRef90_W2UMC4
UniRef90_Q08T31
UniRef90_UPI00036E2459
UniRef90_UPI0004799CDD
UniRef90_S9QG3
UniRef90_D9QKN6
UniRef90_A0A024FGL4
UniRef90_B3ECB6
UniRef90_UPI0004762D53
UniRef90_UPI0003626ACE
UniRef90_UPI00029AAE9A
UniRef90_UPI00046F654A
UniRef90_W6K1Y0
UniRef90_A3XQ67
UniRef90_D2Q2G1
UniRef90_UPI0003760A07
UniRef90_K0JTN8
UniRef90_A6WC06
UniRef90_UPI00037EEC64
UniRef90_J5KEI8
UniRef90_M5RHP0
UniRef90_UPI0003466645
UniRef90_A7BMY2
UniRef90_UPI00037B21AF
UniRef90_J9N0E1
UniRef90_R4TBM0
UniRef90_UPI00036F3662
UniRef90_H1VMI7
UniRef90_UPI00036AC291
UniRef90_C4RE25
UniRef90_J2P055
UniRef90_Q1D1J7
UniRef90_U2U7H6
UniRef90_H8MLP5
UniRef90_M7T831
UniRef90_M7T831
UniRef90_K9YSJ8
UniRef90_K9YSJ8
UniRef90_L7UH05
UniRef90_Q2H2H9
UniRef90_J5K822
UniRef90_W7ISX4
UniRef90_K9YEA5
UniRef90_G8S690
UniRef90_G2LWJ7
UniRef90_H1VMZ5
UniRef90_UPI00028872B8
UniRef90_B3QZ52
UniRef90_UPI0003B4D25C
UniRef90_A0A021VZZ7
UniRef90_B2FLX4
UniRef90_A6R7A7
UniRef90_UPI0003102E44
UniRef90_E6WSA0
UniRef90_UPI0004161D9C
UniRef90_UPI000405EF92
UniRef90_G7URQ0
UniRef90_B5JDS5
UniRef90_UPI00047AAA09
UniRef90_UPI000237C4C3
UniRef90_A0A021VWQ9
UniRef90_G7USS1

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

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

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

V I P A D V I S E K T T Y D S D D P A I W V N P K N P S E S

D P S P V A Q T Q A F V D D A G A S P A N A A D D P A I W V H P R D P G R S

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

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

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

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

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

UniRef90_K6H468
UniRef90_UPI000479EC28
UniRef90_T2KR38
UniRef90_G0L3R2
UniRef90_S6WEE4
UniRef90_D3Q053
UniRef90_J9DE28
UniRef90_I0GX85
UniRef90_UPI000405FD63
UniRef90_UPI00035F18F2
UniRef90_A4BZB5
UniRef90_UPI000255AF26
UniRef90_F0RE83
UniRef90_UPI00047B73E4
UniRef90_M7YE22
UniRef90_A0A059FG14
UniRef90_S6UNQ5
UniRef90_G8R7W3
UniRef90_Q1GNE5
UniRef90_B3EJU3
UniRef90_B4S367
UniRef90_UPI000477CA37
UniRef90_UPI000372E0A8
UniRef90_D5BCF0
UniRef90_UPI00046F3571
UniRef90_I3C519
UniRef90_S7VT11
UniRef90_F8L721
UniRef90_F4QY51
UniRef90_UPI000478AD85
UniRef90_W2UMC4
UniRef90_Q08T31
UniRef90_UPI00036E2459
UniRef90_UPI0004799CDD
UniRef90_S9QGY3
UniRef90_D9QKN6
UniRef90_A0A024FGL4
UniRef90_B3ECB6
UniRef90_UPI0004762D53
UniRef90_UPI0003626ACE
UniRef90_UPI00029AAE9A
UniRef90_UPI00046FB54A
UniRef90_W6K1Y0
UniRef90_A3XQ67
UniRef90_D2Q2G1
UniRef90_UPI0003760A07
UniRef90_K0JTN8
UniRef90_A6WC06
UniRef90_UPI00037EEC64
UniRef90_J5KEI8
UniRef90_M5RHP0
UniRef90_UPI0003466645
UniRef90_A7BMY2
UniRef90_UPI00037B21AF
UniRef90_J9N0E1
UniRef90_R4TBM0
UniRef90_UPI00036F3662
UniRef90_H1VMI7
UniRef90_UPI00036AC291
UniRef90_C4RE25
UniRef90_J2P055
UniRef90_Q1D1J7
UniRef90_U2U7H6
UniRef90_H8MLP5
UniRef90_M7T831
UniRef90_M7T831
UniRef90_K9YSJ8
UniRef90_K9YSJ8
UniRef90_L7UH05
UniRef90_Q2H2H9
UniRef90_J5K822
UniRef90_W7ISX4
UniRef90_K9YEA5
UniRef90_G8S690
UniRef90_G2LWJ7
UniRef90_H1VMZ5
UniRef90_UPI00028872B8
UniRef90_B3QZ52
UniRef90_UPI0003B4D25C
UniRef90_A0A021VZZ7
UniRef90_B2FLX4
UniRef90_A6R7A7
UniRef90_UPI0003102E44
UniRef90_E6WSA0
UniRef90_UPI0004161D9C
UniRef90_UPI000405EF92
UniRef90_G7URQ0
UniRef90_B5JDS5
UniRef90_UPI00047AAA09
UniRef90_UPI000237C4C3
UniRef90_A0A021VWQ9
UniRef90_G7USS1

50 60 70 80

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

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

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

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

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

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

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

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

UniRef90_K6H468 D N K I Y V A A S N R T A K S 100 E F W E F N P Q S D N L F D V I A A R S M
UniRef90_UPI000479EC28 G R R T L D L A V V S D R R E G R D R Q L R V Y A I D R S G V L T D V T T A T P
UniRef90_T2KR38 N D S T T V D I L M M F S E R E E K N S Q M R L F Y T V P D M T P L D N G G F
UniRef90_G0L3R2 N D T T V D I L M F T E R E E K S Q Q V R L F S I V P D M K P L D N G G F
UniRef90_S6WEE4 G K K N V D L A V A S N R D R N S Q L S L F S I D R A S G A L T S E L A G
UniRef90_D3Q053 D G D K T D L A V A S D R D G M D T L G S L F S I D P D S G G E L T D V S D P D M
UniRef90_J9DE28 S G A N I N L A V A S N D G V N G I L S L F S I L N Q M S G E V T H M G D H
UniRef90_I0GX85 G K R T V D L A V V T D R E G L D K L R L Y K I E A S G G L T D I T A N V
UniRef90_UPI000405FD63 N D S K T D V L L F T E R E K N Q I R M F S V P A D N G G F K V F E D E G N
UniRef90_UPI00035F18F2 D G R R S D V A V V T D R E G R D R V H F Y R I D P P R R A P L T E V T D A A V
UniRef90_A4BZB5 N D T T T D I L V F T E R E E K M Q L R I F S V P E M K P L D A G G F
UniRef90_UPI000255AF26 T D S T T D I L M F T E R E E R Q Q V I R L F S V P D M Q P L D N G G F
UniRef90_F0RE83 N D S T T D V L V F T E R E E R Q Q Q I R M F S V P D M M P L D N G G F
UniRef90_UPI00047B73E4 N D S T V D L L V F T E R E E K Q Q I R M F S V P D M K G V L D G G G F
UniRef90_M7YE22 G D R R L D F A V T G E R F T S K L S R F Y S L D M K E I H P G G G V E V Y V G
UniRef90_A0A059FG14 I A I A S N D S H N V I L S W F D I N P Q T L T V S G H I G N S
UniRef90_S6UNQ5 G D S T I D I A V V A E R F N T H K M S L F S I D R A S G A L S E V I G E
UniRef90_G8R7W3 G D I I V A S E R N D T G M T A L R V Y R L D M M P L D N G G I D A F V G
UniRef90_Q1GNE5 N G N N V D I A V V T E R L E T S K N R L R I F R L D G A K P A I T A L G
UniRef90_B3EJU3 G G K P V D I A V V T E R L T S K N R L R V F A L P G D M T A I D N G G V
UniRef90_B4S367 A S G P V D I A V V S D R E H D R L R I H R I D P D D P D A P L T D V T D N G P D A
UniRef90_UPI000477CA37 P D G E F L L A A S N R T D H S I D F F R A A P D R N A F A F V A
UniRef90_UPI000372E0A8 S D S T V D I M I F T E R E R E Q I R V F S V P D M K P L D N G G F
UniRef90_D5BCF0 N D S T T D I I A F T E R E R E N Q I R V F S V P D M K P L D G G G F
UniRef90_UPI00046F3571 N D S T V D V L A F T E R E R E R Q Q I R L F S I P D M K P L D G G G F
UniRef90_I3C519 N D S T T D I M V F T E R E E K H Q I R M Y A I P D M T P L D N G G F
UniRef90_S7VT11 N G D V I D V V G C G V R G T N E I K I F K I D P S T R E L I D V T H S S G
UniRef90_F8L721 D G R P Q L L I G A S D R T P G R T G V A L Y L F D P A G T G D N K V R Y W G
UniRef90_UPI000478AD85 G G K M I D I A V A E R G R M A L R V F Q L P E M T P I D N G G I
UniRef90_W2UMC4 N D S V D I I A F T E R E R G M L R L R F S V P N M K P L D R G G Y
UniRef90_Q08T31 A G G T T P L I V V A N G T S R S L T A Y V V D P T Q L V L R P V D A S A L
UniRef90_UPI00036E2459 Y K D S T Y I V G T D T S A N K I Y L W K Y K N S Y L H K K S K E G S F I D
UniRef90_UPI0004799CDD N D S T T D I L M F T E R E K N R I R L Y A I P E M T P L D G D G F
UniRef90_S9QGY3 R G R K V D L A V V T D R T G D R L R I Y A I D P A G G P L F D V T A R A A
UniRef90_D9QKN6 A G R P Q L L I G A S D R T P G K T G V S L F L F D P A G T G D N G I R P W G
UniRef90_A0A024FGL4 N D S N I D I I G F T E R E K N Q V R I F S V P D M N M D M K A V D K G G I
UniRef90_B3ECB6 N G K P V D I A V V T E R M S G K L R V F T L P D M K A V D K G G I
UniRef90_UPI0004762D53 G D R R R D L A L V S D R G R D R V R V Y E I D Q R S R V L R D S T A P E T
UniRef90_UPI0003626ACE D I S K T T L L F G S N R N D S S L D L W V L D N N K M N S D I E S F K L
UniRef90_UPI00029AAE9A N D S T I D L L A F T E R E G K K Q V R I F S I D M K P L D Q G G F K V F E N
UniRef90_UPI00046FB54A N D S T V D V I A F T E R E R N R I R L F S V P D M K P L D N G G F
UniRef90_W6K1Y0 G G K R T D V A V V S D R Y R N Q L R F F A I N P A T R Q L R E V T A P G V
UniRef90_A3XQ67 T D S T T D I I A F T E R E R K M L R I Y S V P D M Q P L D G G G F
UniRef90_D2Q2G1 G G R V R D L A V V T D R G R D Q L R V Y A V D R R G A V L A D V T S P N A
UniRef90_UPI0003760A07 G G R V I A V A S D R A D V T Q A V A L F T L D T S T R R L V P M G
UniRef90_K0JTN8 G G R A R D L A F V S D R G R D R I R V Y E V D G R G S V V R D V T D P A A
UniRef90_A6WC06 G G R V V D L A V V S D R G R D R I R L F E I D P R G A V L R D V T A A D A
UniRef90_UPI00037EEC64 D G R A T D V A V V S D R Y N D Q I R F F A I D P A G A D L T E V T A P E L
UniRef90_J5KE18 L N D T N Y F F G T N T G S N T I D L W I Y K N Y I L T N A A K A K K
UniRef90_M5RHP0 G N Q Q I D L V A V N Q R A E G F K L R L Y R L D R E S R E L V A I D H G G I
UniRef90_UPI0003466645 G G R A T D L A V V S D R G Q D R V R L F A I D A D A A E L R D V T G S G M
UniRef90_A7BMY2 N D S T T D I L V V T E R E Q Q Q L R I Y S V P E D G G G L K V F E D E A E
UniRef90_UPI00037B21AF N G T L T N I P G G I H
UniRef90_J9N0E1 G D L A V V S D R G R D R V R V Y R I D P A S R V L R D V T D P A A
UniRef90_R4TBM0 G D L A V V S D R G R D R I R V Y R I D P D G A V L T D V T D P A A
UniRef90_UPI00036F3662 S H
UniRef90_H1VM17 Y G D V A V V T D R G L D K L R F Y R I D G D G V L S D V T S P D A
UniRef90_UPI00036AC291 G G Q R A D L A V V T D R G R D Q L S R Y R I D P D T R L L T D V T A P D V
UniRef90_C4RE25 G G Q R A D L A V V T D R K D G R I R L S R Y D F A T G Q A S I D A R
UniRef90_J2P055 S G V Q Q T L V V A A S I N F N G L A A Y T A D P D R A E V E R I G A A G F
UniRef90_Q1D1J7 S G I Q Q T L A V A A S V T S S G L V A Y T V D P D R A D R V E R L G G A G
UniRef90_U2U7H6 A G G T S A A L V L S A S P T L Q G L V P Y V M D A D G G L T R L S P T S A
UniRef90_H8MLP5 Q E Q D I I V T I A Q T D S F F R L Y N A S S F E Q I G Q
UniRef90_M7T831 Q E Q D I I V T I A Q T D S F F R L Y N A S S F E Q I G Q
UniRef90_M7T831 Q E Q D I I V T I A Q T D S F F R L Y N A S S F E Q I G Q
UniRef90_K9YSJ8 G A N T L S V A V T S N L N R G L T A Y S V D G L R A T D R V Q R I G T G
UniRef90_L7UH05 N K K P T G L A V S I S Q P D S V L R A W E L P D F D E V K S
UniRef90_Q2H2H9 P S Q P T D L A V V S D R G R D R V R A Y R V S A A G V R N D V T S P G A
UniRef90_J5K822 A G Q K V D L A V V T D R G L D R L R V Y R I G A S G L F N D V T A P T F
UniRef90_W7ISX4 K D L A V T I A M P D S V I R V Y E L P A F T E I E A
UniRef90_UPI00028872B8 D N Q V I D I V V I G E L E R K K V R V F S L P D L I P I D V R G I D V
UniRef90_B3QZ52 D L A L V V E R D N Q R V Q L F A L P D F K P L E L
UniRef90_UPI0003B4D25C D L V F V E R D N R R V Q L F A L P E F T P L A V
UniRef90_A0A021VZZ7 G D L A F V V E R D N R R V Q V L S L S M P A A T S R A V G V A D T R A
UniRef90_B2FLX4 D L L W L V E R D N H R V Q V L S L S M P A A T S R A V G V A D T R A
UniRef90_A6R7A7 K D I I V S I A A T D S V L R V Y E V A D P G E Q P S N
UniRef90_UPI0003102E44 N G I A V D L L V T V E R D N H R V Q V L R L P D F A P L G V
UniRef90_E6WSA0 F V V E R D N R R V Q M F S L P D F V P L L S
UniRef90_UPI0004161D9C D V L L V E R D N R R V Q G F A L P S L E P L G H F G T
UniRef90_UPI000405EF92 Q G D L A F V V E R D N H R V Q V F S L P D F K S V A T
UniRef90_G7URQ0 G I A T V D Y V F V E R D N H R V Q M L A L P L A S F K P L L A
UniRef90_B5JDS5 D L M L V V E R D N R R V Q V L S I P E F Q P L A S F G E
UniRef90_UPI00047AAA09 D L V F V V E R D N R R V Q V L S I P E F Q P L A S F G E
UniRef90_UPI000237C4C3 N G L A V D H L F V E R D N H R V Q V L Q V F S A L R L P G F T H V T S
UniRef90_A0A021VWQ9 N G I A V D L A F V V E R D N H R V Q V L L H L P D F A P L G S
UniRef90_G7USS1 N G I A V D L A F V V E R D N H R V Q V L L G L P D L R P R G F

UniRef90_K6H468 T L P T N I D V Y G I C A G L I D E V P L V F L T E D K G P R V E F W V P
UniRef90_UPI000479EC28 P R A F S A T E A Y G L A V V P D P A G G A P W V V T S R R K E T R I G V F R L A T
UniRef90_T2KR38 P V F E D E T D P M G I S S L Y K N S P T T N K T Y A I V S R R K T G Y P L Y Q Y K E I T
UniRef90_G0L3R2 P V F A D M R L P M G V S S L Y K N S P K D Q S I Y A I V G R K T G P T L Q Q Y K E I T
UniRef90_S6WEE4 E I P T P L A E I Y G V C L F K P S G E L Y A F A N G K D G R F L Q Q Y R L S T
UniRef90_D3Q053 K P I F S E D Q A Y G L T T W S S D K T G A Y A L V S R N A E T D V A L Q I W E I P
UniRef90_J9DE28 P V I G K T E P Y G I C L G I R D G G Y V S A V T Y K N D G T I Q I W E I P
UniRef90_I0GX85 P L L F A K D E A Y G L A L Y S S P K D G T L Y A I V G R R K S H S T R L G I F R L
UniRef90_UPI000405FD63 S A F R Y P M G L S L Y S S P K D G T L Y A I V G R R K S G D P L Y Q Y K E I T
UniRef90_UPI00035F18F2 P R A F S A S E A Y G T A A W R D P R T G R S Y L L A S R R T A D V G L F E I L Q
UniRef90_A4BZB5 K V F E D E K L P M G I A T Y K S P I D T S F Y A I I S R K S G P K Q Q Y K L V
UniRef90_UPI000255AF26 K V F E D A T G P M G I A I Y K S P K D S T V Y A I V G R K S G Y P L Y Q Y K L V
UniRef90_F0RE83 S V F K N E K P M G V A L Y K T S S V D N T L Y A I V G R K D G Y L H Q Y K L S
UniRef90_UPI00047B73E4 S V F E D E R L P M G V S L F K S P K D A T V Y A I V G R K T G P A E Q Y A L N
UniRef90_M7YE22 E T G D M Y R D E P M G V A V Y H D Q T N D K H Y V Y A G R K N D G T V L W Q Y E I T
UniRef90_A0A059FG14 P T G K E E P Y G I C A G L P A S G E L Y A F A N G K D G R F L Q Q Y R L S T
UniRef90_S6UNQ5 I P T P L A E I Y G V C L F K P A S G E L Y A F A N G K D G R F L Q Q Y R L S T
UniRef90_G8R7W3 E K G E E F R D L M G I S S Y K N S A P A D G K V Y V I V G R K N D G S V L W Q Y E I T
UniRef90_Q1GNE5 R V A A G P G E A Y G L C V K K N S A P G E P I T A A L I V K D G S V R V G T L T G
UniRef90_B3EJU3 P V F E E Y N A P M G I A F Y K R P S D G K M Y V I V S R K Q G P L W Q Y L L E
UniRef90_B4S367 P V F E N L A A P M G I A L Y K R P S D N A M F A V V S R K Q G P L W Q Y L L E
UniRef90_UPI000477CA37 P W I F S D S Q A Y G L T T W T D P E T G R S Y A V A T Q A A T T L A L L E L L
UniRef90_UPI000372E0A8 S L P I T L D D P Y G L C M A R L H N G L R V W V S D S D H R V L Q E W R I S
UniRef90_D5BCF0 K V F Q D T R E P M G V S I Y K S P Q S G K T Y A I V G R K N D G Y L H Q I E L I
UniRef90_UPI00046F3571 P V F E D E T D P M G I S G L Y K N P V S N I V S V I V S R K D G Y L Y Q Y E L I
UniRef90_I3C519 P V F T D V T A P M G I S L Y H S E V D G A M Y A I V G R K D G Y L Y Q Y I L K
UniRef90_S7VT11 K V F A D E T D P M G V S I Y K N P K T D A Q I S V F V S R K N G P I H Q Y G L L
UniRef90_F8L721 I S S G F H S D T Y G F C L Y K R Q S D G Q L F C F V S T K H T E I H Q Y R L D
UniRef90_F4QY51 S T A T D V V E P Y G F C F A R R G E E V H A V L V G H E G E L R Q F I V A E
UniRef90_UPI000478AD85 P V F D G T R A P M G V A L Y K R A S D G A V F A I V G G K D G Y L W Q Y R L E
UniRef90_W2UMC4 P V F E D F R P M G I S L Y K N P E N G L T Y A I V S R K N G P K E Q Y L L Y
UniRef90_Q08T31 R L P N F D P R T V N L Y R S S A S G K V Y A F T A N P G G T L Q Q L E L T
UniRef90_UPI00036E2459 E T P H Y S D E A Y G V C A G L I D D Q Q F A F V T E K G P R V R L W E F S
UniRef90_UPI0004799CDD L V F E D E E D P M G I A I Y T N P D S D Q R T Y A F V S R K I G P L Y Q Y E I V
UniRef90_S9QG3 R R V F P E R T A Y G L A L Y R D P S N R F H A F V T Q R S R A V A W E L Y
UniRef90_D9QKN6 A I T T D V V E P Y G F C F A R I G N T E V H A V L V G H E G E S V R Q F V V T
UniRef90_A0A024FGL4 K V F E D E Q D P M G I A F Y T S A R K D N S T Y F I V S R K E G S V Y Q Y L I
UniRef90_B3ECB6 P V F T G E R D P M G V A L Y K R K H D G A I Y A V V S R K E G P V W Q Y R L E
UniRef90_UPI0004762D53 P R V F A A S E A Y G L A G G K D R R D G T L A V S Q R N E S R L A L L T T V
UniRef90_UPI0003626ACE P V K S T L K G V Y G V C S G H H E Y F G N I A F I T E D E G S R V Q L W S Y
UniRef90_UPI00029AAE9A E L D S H F K S P M G L G T Y L S R I D G S Y Y V I V G R K D G P K E Q Y K I D
UniRef90_UPI00046FB54A Q V F E E E T D P M G I S L Y K D P V S K N I Y A I V S R K S T R I H Q Y Q F L
UniRef90_W6K1Y0 P V F F T E K T A Y G L A V W Q P T G G P T Y V A L T Q E G T T R I A T V R L T
UniRef90_A3XQ67 P V F E E F Q Y P M G V S L Y K S A A D G A F Y A I V G R K T G P L E Q Y K I T
UniRef90_D2Q2G1 P L V F S K R T A Y G V A V I A D P A G P L V A V S R R S E T R I G L F R L V
UniRef90_UPI0003760A07 R Y P V I G P G E A Y G M C L W T Q A K D K A L F G F V V Q S E T R I D Q V A I D
UniRef90_K0JTN8 R P V F S A S E A Y G L A S G F V G R T P V V V T N R E T T R V A L L H V V
UniRef90_A6WC06 A P V F N T P E A Y G L A A G L A P D G G V Q V L T T R R N T T E F A V L E L V
UniRef90_UPI00037EEC64 E F L F S P D T A Y G L A V Y Q P R R G A A Y A V V T Q E G S T T I A T A R L T
UniRef90_J5KE18 F A L S D K S A A Y G L C A G I T A K N E I I A F V T E A K G P R I Q L W K F
UniRef90_M5RHP0 E T G P N Y G G C L Y R S S L D D R L Y F F T T S K Q D G C E Q I E L S
UniRef90_UPI0003466645 P T V F S A D D A Y G L T A F T E R G E S Y A V V S R A D E T I P L A L L R L
UniRef90_A7BMY2 L V L K R L P M G L A V Y K S P L D N K V Y V I V S R K T G P L Y Q Y Q L L
UniRef90_UPI00037B21AF P V V D D Y K V Y G S C Y T K S P K T G K Q Y L F V N E K S A R Y L Q Y E L T
UniRef90_J9N0E1 P V V F S A S E A Y G L T A G R D P R T G A R W V A V T R R E T R V A L L R L V
UniRef90_R4TBM0 A P V F S A R T A Y G L A A G R D P R T G V R W V A V T R R E T R V A L L R L V
UniRef90_UPI00036F3662 P V V P D Y T Y G S C V Y K S P K T G K Q Y L F V N E K S A R Y L Q Y E L T
UniRef90_H1VMI7 P W L F S T S E S Y G L A I Y G S Y A V V T R R H T E L G L F R I K
UniRef90_UPI00036AC291 P F A F S R D Q A Y G L G T Y V D P A G G A Y V V V S R R S T P E V G V F R L
UniRef90_C4RE25 P L M L G Y A G E G L C H R S A R D G S L Y A V F A L G S D Q Q L D Q W L L F
UniRef90_J2P055 L T G T Q F S A V A L Y Q N E D S G R F Y V F A G T S T G V L R Q Y E L A
UniRef90_Q1D1J7 A F V T G A Q F S A V T A L Y Q S R D S G Q F F V F A G T P T G V L R Q Q Y Q L A
UniRef90_U2U7H6 P L D V I G V T Y A G T V R L A R L T D G T I Q A F V S G G G L R Q Q L L T
UniRef90_H8MLP5 P L A K T L G D W S A L C A W K S Q T S G E Q Y L Y L F G K S Q A V Q F L L R
UniRef90_M7T831 P L A K T L G D W S A L C A W K S Q T S G E Q Y L Y L F G K S Q A V Q F L L R
UniRef90_M7T831 P L A K T L G D W S A L C A W K S Q T S G E Q Y L Y L F G K S Q A V Q F L L R

UniRef90_K9YSJ8 P F L L T S A G Y T S V A F Y R S P S S G R L F V F A S N D V G S L S Q F E M S
UniRef90_L7UH05 A R S T V L G D W S A L C S W K S P S G H D Y V Y L F G K K E A K V F L V R K D
UniRef90_Q2H2H9 R P V F S A S E A Y G L A A G T P V I G G R D V V V T S R R S E T R A L L H
UniRef90_J5K822 G V D D G E A T A Y G L A T Y T S P V S G K S Y A F V T Q A D G Q V A Q L E L L
UniRef90_W7ISX4 P L L F S R D Q A Y G L A T Y G R Y A V V S R R R T T R L G L F R L
UniRef90_K9YEA5 N Q L R E P Y G L S W R K H E G G Y E V V V S D K D Q R F R R Y Q L D
UniRef90_G8S690 A R T T K L G D W S A I C S W R S K L N D Y E V F L F G K T L V V Q Y L V
UniRef90_G2LWJ7 F D N E G K S E V F D L S L F K D I D T V K Q Y V L V A S K T N N F R Q Y E L I
UniRef90_H1VMZ5 I G A D N L K R P Y G L T V F A S P N T Y E L Y V T D N Y E T E R V H H Y Q F S
UniRef90_UPI00028872B8 F G Q S E L R E P Y G L W V H P Q D G G Y E V V V S Y E K D A R F R R Y A V R
UniRef90_B3QZ52 P R L R A L Q Q P Y G L W V R A L G P Q Q L E V I V T D A Y R R M Q R Y R L Q
UniRef90_UPI0003B4D25C F A A D D L R K P Y G L W V D H R A D G Y S V Y T L T E L D K R V R Q Y E I T
UniRef90_A0A021VZZ7 R K V M L G D W S A L C P W R S P Q D T G N Q Y F F L V R R E G S K F E I L
UniRef90_B2FLX4 F A A D D L R K P Y G L W V N K R E G G Y D V Y V T D S Y D A G R V R R Y A M T
UniRef90_UPI0003102E44 F G Q D G L Q Q P Y G L W V R H R G Q G Y E V L V S D A D E R F R R Y E V V
UniRef90_E6WSA0 D E L V K P Y G L W V D K A D G G Y Q L Y V T D A D E R V K R Y S F T
UniRef90_UPI0004161D9C F G A S D L R S P Y G V S I E T E P G D L D V Y V T D N Y M D G R V K R F R V E
UniRef90_UPI000405EF92 F G D A E L L Q P Y G L W V R H G Q G Y Q V I V S D N D R R L H R Y Q V R
UniRef90_G7URQ0 S E L V K P Y G L Y V E P A H G E Y H V Y V T D S Y E R R R Y L L E
UniRef90_B5JDS5 F A G E D L A K P Y G L W V N P V D A G Y E L Y V T L S G L D R R V K R Y L V K
UniRef90_UPI00047AAA09 F G Q E Q L I R P Y G I A M D K T E N G Y E L Y V T D N Y E F H R V H H Y F L N
UniRef90_UPI000237C4C3 F G E A Q L R S P Y G V W V N E T A P G E L D A Y I T D S A Q R V R F Y R L R
UniRef90_UPI0001VWQ9 I G A D T L R V P Y G L W L Q E T A P G E L E L V T D S D Q R V R R F K V Q
UniRef90_G7USS1 I G A D T L R V P Y G L W L Q E T A P G E L E L V T D S D Q R V R R F K V Q

UniRef90_K6H468 Q T R 170 T L I G T F S N G G 180 E S E G C V F D D E T N K T V F L S E E E 200
UniRef90_UPI000479EC28 D D G T G H I T Y R L P A R K F P V P P Q E V E E G M V F D D P T D G G V L Y F A S Q E E D V V
UniRef90_T2KR38 T N D S G K V N S A K L V R K F G T F F S E I E E A I A V D D D H E L G F H V Y F S D E E Q Q H
UniRef90_G0L3R2 A N D N K G Q A Q G E L T V R S F K V F E T Q Q V E E G C V A D D D H Q R R Q R L F L G G E E E D V V
UniRef90_S6WEE4 A P D G R A Q G E L T V R S F K V F E T Q Q V E E G C V A D D D H Q R R Q R L F L G G E E E D V V
UniRef90_D3Q053 E T D A G A T V G Y E T P A R L V L F K I G P A G K V E E G M T V D D T R T R G K E L V F V G G Q E E Q Y
UniRef90_J9DE28 A N F D E A S A Y K P A R L V L F K I G P A G K V E E G M T V D D T R T R G K E L V F V G G Q E E Q Y
UniRef90_I0GX85 E E K N G K V T Y R L P R Q F R L P P Q V E E G M V V D D R A E A G V L Y F A S Q E E D V V
UniRef90_UPI000405FD63 A D T L G V V K S S L V R K F G K F F S E I E E A I A V D D S A E L G F V Y Y S D E E Q Q H
UniRef90_UPI00035F18F2 V T P A G T V T Y R K V R T L T L P S Q I E E A I A V D D S A E L G F V Y Y S D E E Q Q H
UniRef90_A4BZB5 R E A N G I Q A K L V R K F G D F F S E I E E A I A V D D A E M G F I Y Y A D E E D G H
UniRef90_UPI000255AF26 A S S G G E V T M E L V R K F G A F F S E I E E A I A V D D S E N G L Y V Y Y S D E E Q H
UniRef90_F0RE83 T D T T G V V Q S T L V R K F G V F F S E I E E A I A V D D S E L G Y V Y Y S D E E Q H
UniRef90_UPI00047B73E4 A D S L G V S S N Y V R K F G K F S E I E E A I A V D D D N E N G F V Y Y S D E E G V V
UniRef90_M7YE22 T S D S T L D L A L V R K F G K Y S E I E E A I A V D D D N E L N G R Y L Y Y S D E E G V V
UniRef90_A0A059FG14 W E T V N K L T P S L D R V V K L P S K L E E G C V A D D D A N E R R L F V L G E E E A F
UniRef90_S6UNQ5 A P N G R A Q G E L V R S F K V F E T Q Q V E E G C V A D D D Q R R Q R L F L G E E E D V V
UniRef90_G8R7W3 A N S P E S V S A E L V R K F G A Y S E I E E A I A V D D D E L G Y I Y Y C D E E N V V
UniRef90_Q1GNE5 L P A G A A P T F T L E W E H K I P T Q S E G C V F D D G D T L Y Y V G E E E V G
UniRef90_B3EJU3 D S G N G Y I T A H K A R A F G Q W S E I E E A V A V D N E L G Y V Y Y S D E E C V V
UniRef90_B4S367 D D S G S Q V J A T K V R E F G A W S E I E E A V A V D N E A G R I Y Y S D E E G F V
UniRef90_UPI000477CA37 P T P E G T V T Y R E V R T L E L P P Q A E A V A V D P E S A G R I Y F A A Q E E T V V
UniRef90_UPI000372E0A8 R D Y Q G G H M T R D W Q F D G Q V E E G C V A D D T A K Q Q L Y L G E E E D R D
UniRef90_D5BCF0 P S E K G F T P K L V R E F G L F F S E I E E A I A V D D D E L G F V Y Y C S D E E G D
UniRef90_UPI00046F3571 S D S T G V R A K E Y I R K F G K F F S E I E E A I A V D D D E L G F V Y Y S D E E G V V
UniRef90_I3C519 S D S L G V K A K L V R K F G K F F S E I E E A I A V D D D K E G L V Y Y S D E E G A V
UniRef90_S7VT11 A D S L G V R A N L L V R K F S G T K E Q V E E G M V A D D D E Y G Y F Y A C D E R H
UniRef90_F8L721 D N G T G R F Q G T L V R K F G V T H Q V E E G M V A D D D E Y G Y F Y A C D E R H
UniRef90_F4QY51 A G T D G R P A A Q L V R R A E I L G S I S E G C A A D P A T D A L Y I A E E N V V
UniRef90_UPI000478AD85 D A G N G S V R G T K V R A F G A F S E I E E A I A V D D Q S L G Y V Y Y S D E T G V V
UniRef90_W2UMC4 A D S L G V H A K L E R K F G D F F S E I E E A I A V D D D E N G Y V Y Y S D E T G V V
UniRef90_Q08T31 P Y E D G G L G G E S V R S F E V G S S I S G V V D A E Q R A L Y Y S V P D T
UniRef90_UPI00036E2459 G N N L N L V N T F S N A S S E S E G C A I D D N E N K K F L F I S E E N R
UniRef90_UPI0004799CDD S D S L G V Q A K L A R K L G N F S E I E E A I A V D D D N E L G F V Y Y A D E E M E
UniRef90_S9QG3 E A G T E Q V G Y R E V R E F R F D S Q F E G L V V D Q Q E G L Y A A Q E E V V
UniRef90_D9QKN6 V G A D G T P V S R E V R R F E I G S I S E G C A A D P A T D A L Y L T E E N V V
UniRef90_UPI0004799CDD A D S L G V T S K F V R F E N G F S I E E A I A V D D P A T D A L Y L T E E N V V
UniRef90_UPI0004799CDD D S G N G F V R A S L V R K F G I W S E I E E A V A V D D D R S G F V Y Y S D E E G V V
UniRef90_UPI0004762D53 A G A G D S V S V N H L A T V D L S S Q V E E G M V D S D H G V Y Y A A Q E A V V
UniRef90_UPI0003626ACE R D N L K L L H T F Q D A T Q S E G C V Y D S D S D N S T L F I L S E E D R
UniRef90_UPI00029AAE9A T S P L G L D L N L I R K F G N F S E I E E A I A V D D D E M G M V Y Y S D E E T H
UniRef90_UPI00046F654A S D S T G I K T K L V R K F G K F F S E I E E A I A V D D D E L G F V Y Y S D E E G V V
UniRef90_UPI0003626ACE S S A N G I G Y T D S R H L P L P P Q L E G M A V D D N A R N V L Y A A Q E E D V V
UniRef90_UPI0003760A07 T Q S D S L V G F E L V R K F G N F S E I E E A I A V D D D A M G F V Y Y S D E E G D
UniRef90_UPI0003760A07 T D G P S N I S Y R P V T H W D F P P Q Q F E G M V F D R T T R T L Y A A Q E E D V V
UniRef90_UPI0003760A07 V S G P S P R V T T V R S M K L G S Q A E G C V V D D R T R T L Y Y A E E D V V
UniRef90_K0JTN8 P A A G G S V G T R V V R S Q F T L P P Q P E E G M V V D S A H G V L Y A A Q E E D V V
UniRef90_A6WC06 P A A D G T V G Y R Q V S R Q A L P P Q A E G V V H A V G G A W F V A A Q E E D V V
UniRef90_UPI00037EEC64 T G P D G V G Y T D V E H L G V G P Q L E G L A V D R R T G T L Y A A Q E E D V V
UniRef90_J5KE18 D N D N L N L L A T F D N A S E S E G C V F D D D E N M T L F V S E E N R
UniRef90_M5RHP0 I N E N G F Y T G K K V R H L D V G S K C E G A V A D D Q L G M L Y V A A Q E E D V V
UniRef90_UPI0003466645 T E S G G A V G Y E H V D T V D L P S H V E G M V V D A E A G A L Y A G O E A V V
UniRef90_A7BMY2 D N G K G E I D A R Q V R E F N V G S Q T E G C V A D D D Q H G Q L Y I G E E D V V
UniRef90_UPI00037B21AF S F N G Q F G L S L V R K F G R F S E I E E A I A V D D D A A S L V Y Y A D E E D V V
UniRef90_J9N0E1 S T S K G E L Q T K L V R E F G Q G G S Q V E G C V T D E E N S W I F L G E E P S
UniRef90_R4TBM0 D K A D G T V G T A P I G T I D L P S Q L E G S I L D T A N R V L Y T A Q E E D V V
UniRef90_UPI00036F3662 D R P G G T V G T A P V A T V D L P P Q L E G S V L D G R V L Y T A Q E E D V V
UniRef90_H1VMI7 A T P N G T L Q T A L V R D F T G G S Q V E G C V T D E D N G W I F L G E E P S
UniRef90_UPI00036AC291 K T I N G Y S Y V K V D G L A L P T Q A E G M T V D P V L G M L Y V A Q E E D V V
UniRef90_C4RE25 V E R A R G L V G R P V R R L L P S S E A K Y C V A D D P D T G V V H L A Q Q K A V
UniRef90_J2P055 P T A D G K L D G R I V R R L H L S E A K Y C V A D D P D T G V V H L A Q Q K A V
UniRef90_Q1D1J7 G D T G S V T A T L V R T L A T T G P I A G L A V D E A S D S L F V T Q Q G Q
UniRef90_U2U7H6 A D E G G N V T A T L V R T L A T T G P I A G L A V D E A S D S L F V T Q Q G Q
UniRef90_H8MLP5 P T D G G V T A T P L R D I L P A G D V Q G L A V D P A Y R A L Y V A Q Q G Q
UniRef90_M7T831 G Q E G S L D I T E I Q T F E T P V E A S S C A V S D E T V F F S G D D N P
UniRef90_M7T831 G Q E G S L D I T E I Q T F E T P V E A S S C A V S D E T V F F S G D D N P
UniRef90_K9YSJ8 G E A V D N P N E F L F W D D E K V
UniRef90_K9YSJ8 G E A V D N P N E F L F W D D E K V
UniRef90_L7UH05 G E D G G V S A T L V R Q P I S V S G G A V T G M V V D E E R G H L Y V V I A G A
UniRef90_Q2H2H9 K D E D D Y E D A K F V R P I S V S G G A V T G M V V D E E R G H L Y V V I A G A
UniRef90_J5K822 M W N Y G P F G M T L I T T F G N A T Q S E G C V Y D D E N R T L F I S E E D R
UniRef90_W7ISX4 V V I E G R T V D T R V A A T L D L P P Q V E E G M V D S R A G V L Y A A Q E E D V V
UniRef90_K9YEA5 P Q I G P A V D A E V R V I D L P P Q V S E G L V V D E E L G F M Y V A E E E V V
UniRef90_G8S690 E E R Q G R V T Y R T S D T L D L P S Q I E E G L V V D A E A G V L Y A A Q E E D V V
UniRef90_G2LWJ7 A A G Q G W Q A R L T Q S F G D T S E A E S V F G D E A N A R L M L A E E D V V
UniRef90_H1VMZ5 R Q G K S V E L V E V I S L P T P T E F S G C V V V Q S Q A K M I A T A D D D K
UniRef90_UPI00028872B8 D N G R G S V E G K Y I R K F G Q N N K N V S I S V N E K D G Y V Y Y C D N G T
UniRef90_B3QZ52 V E N G K V T Y K L A G V F G D T A T V E S I Y A D P A N N T L L V A D E E H
UniRef90_UPI0003B4D25C K Q G A V Q A L R Q T F G D T S A A E S V F G D A A N D R L L I A E E D V V
UniRef90_UPI0003B4D25C L G A G A P V A Q H V A A F G D T S A P E S I W G D P A H D R L L I A E E D T
UniRef90_B2FLX4 R D G A K V E A K L V A S I G D T T E V E S L W G D P E N D R L L I A E E D E
UniRef90_A6R7A7 E D Q N K R I K K D Q L E G T V Y F S A D D D K
UniRef90_UPI0003102E44 V Q G D K A Q G T L V S S I G D T S A V E S I W G D P A N D R L L I A E E D E
UniRef90_E6WSA0 Q A A D G W S A R A A G T F G D T S A P E S L F G D P A N D R L L V A E E D V V
UniRef90_UPI0004161D9C V D G A D I Q G E L A G A F G D T G E V E S L F G D P A N D R L L V A E E D E
UniRef90_UPI000405EF92 V D G D G R V Q A R L A N T F G D T T D V E S I A G D A G H D R L L I A E E D T
UniRef90_G7URQ0 R E G G R W T A G A D G H F G D T T S E A E S V F G D A A N N R L L I A E E G T
UniRef90_B5JDS5 V E G A T A D G E L D H T F G D T T G V E S I F G D K V H N M L V A E E G R
UniRef90_UPI00047AAA09 R D G A G Y R A Q L V S A F G D T S E V E S I W G D P L H G R L L I A E E D E
UniRef90_UPI000237C4C3 V N D N T L Q V K H L K A F G A T E K V E S I L V D R P L H G R L L I A E E Q R
UniRef90_UPI000237C4C3 F D N D N A M S A E Y Q A F G A T H A V E S I A G D R A G N R L L I A D E D Q
UniRef90_UPI000237C4C3 F D N D N A M S A E Y Q A F G A T H A V E S I A G D R A G N R L L I A D E D Q
UniRef90_G7USS1 L D Q D G S I T G T A D G S F G D T G E V E S I I G G D P A H D R L L I A D E D R

UniRef90_K6H468
UniRef90_UPI000479EC28
UniRef90_T2KR38
UniRef90_GOL3R2
UniRef90_S6WEE4
UniRef90_D3Q053
UniRef90_J9DE28
UniRef90_I0GX85
UniRef90_UPI000405FD63
UniRef90_UPI00035F18F2
UniRef90_A4BZB5
UniRef90_UPI000255AF26
UniRef90_F0RE83
UniRef90_UPI00047B73E4
UniRef90_M7YE22
UniRef90_A0A059FG14
UniRef90_S6UNQ5
UniRef90_G8R7W3
UniRef90_Q1GNE5
UniRef90_B3EJU3
UniRef90_B4S367
UniRef90_UPI000477CA37
UniRef90_UPI000372E0A8
UniRef90_D5BCF0
UniRef90_UPI00046F3571
UniRef90_I3C519
UniRef90_S7VT11
UniRef90_F8L721
UniRef90_F4QY51
UniRef90_UPI000478AD85
UniRef90_W2UMC4
UniRef90_Q08T31
UniRef90_UPI00036E2459
UniRef90_UPI0004799CDD
UniRef90_S9QGY3
UniRef90_D9QKN6
UniRef90_A0A024FGL4
UniRef90_B3ECB6
UniRef90_UPI0004762D53
UniRef90_UPI0003626ACE
UniRef90_UPI00029AAE9A
UniRef90_UPI00046FB54A
UniRef90_W6K1Y0
UniRef90_A3XQ67
UniRef90_D2Q2G1
UniRef90_UPI0003760A07
UniRef90_K0JTN8
UniRef90_A6WC06
UniRef90_UPI00037EEC64
UniRef90_J5KEI8
UniRef90_M5RHP0
UniRef90_UPI0003466645
UniRef90_A7BMY2
UniRef90_UPI00037B21AF
UniRef90_J9NOE1
UniRef90_R4TBM0
UniRef90_UPI00036F3662
UniRef90_H1VMI7
UniRef90_UPI00036AC291
UniRef90_C4RE25
UniRef90_J2P055
UniRef90_Q1D1J7
UniRef90_U2U7H6
UniRef90_H8MLP5
UniRef90_M7T831
UniRef90_M7T831
UniRef90_K9YSJ8
UniRef90_K9YSJ8
UniRef90_L7UH05
UniRef90_Q2H2H9
UniRef90_J5K822
UniRef90_W7ISX4
UniRef90_K9YEA5
UniRef90_G8S690
UniRef90_G2LWJ7
UniRef90_H1VMZ5
UniRef90_UPI00028872B8
UniRef90_B3QZ52
UniRef90_UPI0003B4D25C
UniRef90_A0A021VZZ7
UniRef90_B2FLX4
UniRef90_A6R7A7
UniRef90_UPI0003102E44
UniRef90_E6WSA0
UniRef90_UPI0004161D9C
UniRef90_UPI000405EF92
UniRef90_G7URQ0
UniRef90_B5JDS5
UniRef90_UPI00047AAA09
UniRef90_UPI000237C4C3
UniRef90_A0A021VWQ9
UniRef90_G7USS1

210
220
230
240

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

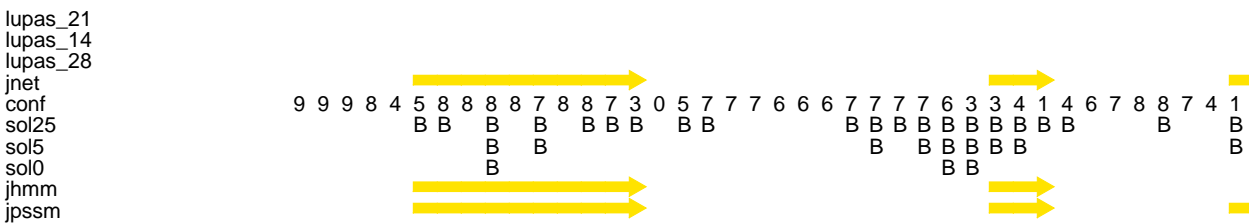
UniRef90_K6H468 K E G Y I L L S S 250 Q G D N K Y N V Y N R T Y P H E F L T S F T I D D D P G I D 280
UniRef90_UPI000479EC28 G E K T L L A S S Q Q G D S T F V V Y D S R G F R H T T G F A V A D G S T V D G G
UniRef90_T2KR38 G A G F L I V S N Q Q D H S F N I F K R G D N S Y V V K T L N L L
UniRef90_G0L3R2 G E G Y I I V S D Q Q R G Q F N I Y S R K T N A F V V R A V N L
UniRef90_S6WEE4
UniRef90_D3Q053 G K G Y L L A S S Q Q G D D S M Y A V V Y S L S G G N D Y L G S F S I A D G S K T D G
UniRef90_J9DE28 G Q Q Y L L I L S S Q Q G D S R F F V V Y D R R T P T N R P V C Y R F K L E K A P G D Y R L Y R F K L A G N P E I D K
UniRef90_I0GX85 R D G Y V I L S S Q Q G D S R F F V V Y D R R T P T N R P V K V F S V L T D G S R V D G S
UniRef90_UPI000405FD63 G T G Y I I V S S D Q Q K G Q F N I F S D R T T N E F L K A V N L V A D G S K T D G
UniRef90_UPI00035F18F2 G R Q Y L I V S S Q Q G D Y T Y S V Y D T S R G D R W T G A F R V A S G P S V D G S
UniRef90_A4BZB5 N A G Y L I V S S D Q Q R G Q F N V F D R T T N K F I N A V N L T A D G S K T D G
UniRef90_UPI000255AF26 G E G Y I I V S S N Q Q K G Q F N I F S R D D N T F V K A V N L T A D G S K T D G
UniRef90_F0RE83 G K G Y I I V S S D Q Q K G Q F N I F S R D D N T F V K A V N L T A D G S K T D G
UniRef90_UPI00047B73E4 G H G Y L I V S S N Q Q K G E F N I F D R E T N A Y I N A V N L T A D G S K T D G
UniRef90_M7YE22 K E G Y I L V S S Q Q E A N L F H V F P R E G S G D P H S H K L I T T T A T S S
UniRef90_A0A059FG14 A Q G Y L V V S S A Q E A D R Y V V Y D R A P P Y A P R G V F S I V D N T G I G G
UniRef90_S6UNQ5 A H D Y L V I S S Q Q N D S Y V V Y D A E P P Y T L R G A F R V L G A S A G I D G G
UniRef90_G8R7W3 G K G I I F V S S D Q Q A T R L A A F P R E G A D N D A H N H P L L G Y A A Y K
UniRef90_Q1GNE5 G Q R Y L I A S S D Q Q A N A Y A V F R L P G V D Y I G R F A V A A G A F G A
UniRef90_B3EJU3 T D G Y I I V S S D Q A A G K L R L Y P R N G K D L H E P H K H E L V I G T V Q T G
UniRef90_B4S367 N G G W I I V S S D Q A G E L H L Y S R N R G G T P D T M E H H T L K R V V K T A
UniRef90_UPI000477CA37 G G G R L L A S S Q Q G D D S F F A Y D R E D D E A H T G G F R V A A S E L D G
UniRef90_UPI000372E0A8 S E S L L V A S S Q Q G D D S Y L V Y R L N P W Q Q L V K F Q V T A D P G V D G
UniRef90_D5BCF0 G K G Q I I V S S N Q Q K G Q F N F F N R E D N S F E Y A L N L G G
UniRef90_UPI00046F3571 G Q G V L I V S S D Q Q K G Q F N L F S R K D G S F I K A I N L G G
UniRef90_I3C519 G E S Y I I V S S N Q Q N H S F V I F S R K N T H E F V K E L N L S G
UniRef90_S7VT11 G E G F I I V S S N Q Q D H S F N F Y K R S D N S Y V V K T L N L G G
UniRef90_F8L721 G K G Y L I V S S Q Q G D S T F K I Y E R T G S N K F V K S I H A E G
UniRef90_F4QY51 A R Y L I A S S Q Q G D S T F P V W R D G A E Q F K G R F V V V D G T V D G V
UniRef90_UPI000478AD85 S T G F L I A S S D Q Q K Q F N I F R R E G S A G K P H D H V S I A T I P V S
UniRef90_W2UMC4 G G G Y I I V S S D Q Q K G Q F N I F S R K E N R F V K A I N L S
UniRef90_Q08T31 Q D G Y L L A T S G G S D E I A V Y D R Q P P Y S Q V G S F T V S E T N T T D R
UniRef90_UPI00036E2459 T N G Y L I A S S Q Q N N T F N I Y D R T E T N A Y V G S F Q I K E N N S I D G
UniRef90_UPI0004799CDD G S G A I I V S S N Q Q A H T F S V F D R E T N A F I K E I N L G G
UniRef90_S9QGY3 E K G Y L I V S S Q Q G D D T F H L Y D R E G G N R H L G T F Q V E G G
UniRef90_D9QKN6 A R Y L I G S S Q Q G D D T F P V W R D G A P Y V G R F V V K D G A I D G
UniRef90_A0A024FGL4 K E G Y I I V S S N Q Q A H S F S I F D R V T N V F I K E V N L G G
UniRef90_B3ECB6 G S V V I I S S D Q G A G Q L H L F R E S G S A S D G S K G V R R I G I V K T A
UniRef90_UPI0004762D53 R G G R I I A S S Q Q G D S T F V Y E R T G A N Q V L G G F T V A A G N G N D S
UniRef90_UPI0003626ACE N E G F V I L S S Q Q N S T L N I Y S R R Y P H N F I N S F N I V G N G S I D A S
UniRef90_UPI00029AAE9A G K G Y I I V S S N Q K N N T F S V F S R T D N R Y L K E L H L S
UniRef90_UPI00046FB54A G E G L I V S S D Q Q K G Q F N L F S R K E N S F I K A V N L G
UniRef90_W6K1Y0 G G Q I V S S Q Q G D D R F A V Y N T G A N R P L G S F R I R G I D G A D N
UniRef90_A3XQ67 G S G M I I V S S D Q Q G Q F N I Y D R K T N E L I N V L N L T
UniRef90_D2Q2G1 G T R T L Y A S S Q Q G D S T F A V Y R L D A G L S H R A G F Q V A D G P A T D G
UniRef90_UPI0003760A07 R G G Y L V V S S Q Q G D N A Y T L Y R L P A V T Y A G R F R I G G G A D G
UniRef90_K0JTN8 G D G Y L L A S S Q Q G D S R F V A Y E R T G R N R Y A G T F T V G A G R N D S
UniRef90_A6WC06 G A G Y L L A S S Q Q G D S T F A A Y A L E P P R Y S G G F S V V D G A P V D G
UniRef90_UPI00037EEC64 R T G Y V I V S S Q Q G D D T Y G V Y D L T G H N R S L G T F R V A G D G V D D
UniRef90_J5KE18 N D G Y L V A S S Q Q G N N T F N I Y Q R N Y P Y D F I S S F V V G D S D L I D G
UniRef90_M5RHP0 K V R Y L T V S S D Q Q S T F H V L P L V G G S T Y R F A I E N
UniRef90_UPI0003466645 G E G H V V A S S Q Q G D D T F A L Y D R E D G A Y A G S F S V E D
UniRef90_A7BMY2 G N G Y L L A S S Q Q G N N T F T I Y K R T G N N D Y I G T F K I K V N L K I D K
UniRef90_UPI00037B21AF G E G F L I V S S D Q Q R G Q F N V F S A T D N R F V K A V N L P
UniRef90_J9NOE1 T E G F I L V S S C Q G V S A Y N V Y R R A S P H E Y V T T F T L V E D G Q I D G
UniRef90_R4TBM0 D G K L L A S S Q Q G D S R F V V Y D R E G T P R R D F R V V A G H G T D S
UniRef90_UPI00036F3662 D G T L F A S S Q Q G D S R F V V Y G H R T R D L R I V A G R G T D S
UniRef90_H1VMI7 D Q G Y V I V S S N Q Q V S A Y N V Y R R A E P H D Y V T T F T I T A D G R V D A
UniRef90_UPI00036AC291 L S G T L I V S S Q Q S D E F F T Y D R L T N R H K G G F V I A G
UniRef90_C4RE25 S A G T L V V S S N Q G D D T F H T Y D R R T G R P T G R F A V V D G A V D G
UniRef90_J2P055 Q G D Y L V A A N A D A G D Y N V Y D R N A D D R F L G R F R I Q A N G A D A
UniRef90_Q1D1J7 G E G Y I L V A D T G A D A F A V Y E R R A R T L V G S F R L A D D G G V I R
UniRef90_U2U7H6 G E G Y I L V A D P G A D A F A V Y E R R A R T F V G S F R L A D D G G V I Q
UniRef90_H8MLP5 L D G Y L V A S D P S A N T F V F D R R T L G R V G A F Q L G Q D D G G T D A
UniRef90_M7T831 S S D Y L A V A Q T D V V A L Y D V S F T L L G S W R L T G D E D I D
UniRef90_M7T831 S S D Y L A V A Q T D V V A L Y D V S F T L L G S W R L T G D E D I D
UniRef90_K9YSJ8 G K G Y L L A S S Q Q G D S S Y A V Y S R E G N N E Y L G S F V I G D N G E I D Q
UniRef90_K9YSJ8 G K G Y L L A S S Q Q G D S S Y A V Y S R E G N N E Y L G S F V I G D N G E I D Q
UniRef90_L7UH05 T E G Y L L A A D T Q A G T F A V L D R R T Y A F L G S F T V P G D G G V I G G
UniRef90_Q2H2H9 G V D Y L L V A M E D T V A V Y G P P F D F I G N L K L V G S N K D L D N
UniRef90_J5K822 K D G Y V I V S S Q Q G D S S F N I Y N R Q E P Y N Y L G S F K V G S N K D L D N
UniRef90_W7ISX4 T G D K L I A S S Q Q G D S R F V L Y Q R T G N F H A L R D F R V E G
UniRef90_K9YEA5
UniRef90_G8S690 G S G Y W I A T D Q F K D R F Q V F D R K T L A H V G A F A G R V W A L D A G K P C D T
UniRef90_G2LWJ7 G L D Y L F V A Q E S S V A V Y E Y P F D L L G T V K L T G L E D I
UniRef90_H1VMZ5 E N D Y L L L S N V N N N T F L F Y A K E G K G E K G K F K L L E E L Y L L
UniRef90_UPI00028872B8 S T G Y W I A T D Q D A N T F H I F D R K T F A H L G A F L G E L
UniRef90_B3QZ52 G S G Y W I G T D Q F K D R F H V F D R Q S L A Y V G A F A G R V T A N T D G
UniRef90_UPI0003B4D25C G S G Y W I A T D Q F K D R F H V F D R A S L R H L G A F A G K T V G N T D G
UniRef90_A0A021VZZ7 K D G W W I T T E Q G K S V I F H L F D R H T L K P V G A F Q G N T
UniRef90_B2FLX4 A S I Y L F L A S D D T I G I Y S P K L E L R G T I E L T E L E D I
UniRef90_A6R7A7 K D G W W I T T E Q G K S V F H L F D R H T F K H V G A F Q G N T
UniRef90_UPI0003102E44 G S G W W V A S D Q F A D R F H L F D R R S L E H V G S F A G Q A T G L T D G
UniRef90_E6WSA0 G G W W V T T E Q A R D T F H L F R D S L E H A G A F R G E M
UniRef90_UPI0004161D9C D V G Y W I G V D Q L A P R F H V F D R S T L A L V G S F E G K V
UniRef90_UPI000405EF92 G S G W W L A S D Q F D D R F H L F D R R T L E H A G S F V G N V T G L T D G
UniRef90_G7URQ0 T S G Y W F V T D Q G N N Y H I F D R E S F K H L G T L E G E R
UniRef90_B5JDS5 G A G W W I T T E Q G K G R F H L F D R A T L D H A G A V T G R M
UniRef90_UPI00047AAA09 T S G Y W I T T D Q D N N W F P V F D R K T L K Y M G S F A G E V
UniRef90_UPI000237C4C3 G D G Y W I A V D Q P R T W F H V Y D R D S L E P R G S F S G E V
UniRef90_A0A021VWQ9 D S G W W I A V D Q L T P T F R V Y D R V S L A P L G T F T G E R
UniRef90_G7USS1

UniRef90_K6H468 T S E T D G L D V T N Y N L R G K F S K G L M V A Q D G Y N Y D G E E M K N Q N 310 320
UniRef90_UPI000479EC28 V Q H S D G G A V T S T P L G R D F P H G L L V L H D G E N T P D D G R V S T N
UniRef90_T2KR38 T L E T D G C D V T T E A L G P K Y P N G L F V S M N D E K D
UniRef90_G0L3R2 T L E T D G C E V V T V P L N D T F K S G L F V A M N D E K N
UniRef90_S6WEE4
UniRef90_D3Q053 T Q H S D G G A D V V N T E V G V D D Y F A G L L V V Q D D G N T P E G D E S S T N
UniRef90_J9DE28 V T H T D G L A V T Y L P L V M P D Y P E G L F V A Q D D K N E G V S G R I Q N
UniRef90_I0GX85 V Q H S D G G A A T A V S L P P G Y P K G L L V L H D G E N K P D D G R V S T N
UniRef90_UPI000405FD63 T L E T D G C D V V T V P L N A T F K N G L F V A M N D E K D
UniRef90_UPI00035F18F2 S E E T D G L A A T G Q A L G T A F P H G L F V A Q D G Y N A P A G D R T D T N
UniRef90_A4BZB5 T L G T D G C E V V T T P L N E K F K S G L F V A M N E E K N
UniRef90_UPI000255AF26 T T E T D G C D V V T V P L N N T F K S G L F V A M N D A K D
UniRef90_F0RE83 T T E T D G C C E V V T V P L N N V F K N G L F V A M N D A K D
UniRef90_UPI00047B73E4 T T E T D G C E A V T V P L N D T F K N G L F V A M N D E K N
UniRef90_M7YE22 T T S D G S E V T S T A L P P H Y P K G L F V A M S D D K T
UniRef90_A0A059FG14 V T H T D G L D I T S A P L P G L P G G L L V V Q D D A N P V S E F N Q N
UniRef90_S6UNQ5 T S E T D G L I E V T S M N L G G P W S K G M L V V Q D G R K R M P E Q A Q N
UniRef90_G8R7W3 A L E T D G L I E L V S Q P L N E D Y P K G I L V A M S E G K T
UniRef90_Q1GNE5 T S E T D G I E A V A G N F P P A Y P D G I F I A Q D G D N G A K A Q N
UniRef90_B3EJU3 A K E T D G I E A A A E L V T E E Y P S G L L V A M S D D K T
UniRef90_B4S367 A L E T D G L I E A A P K L N G T G F P K G L F V A M S D D R T
UniRef90_UPI000477CA37 S E E C D G L E V F A E P L G E R Y P D G L M V V Q D G E A T P E N D D E A T G
UniRef90_UPI000372E0A8 A S E T D G L A V S S V A T A S F P A G L L V V Q D G R N R A P A Q A Q N
UniRef90_D5BCF0 T T E T D G C C E V T T A S L N G D K F T K G L F V S M N D N G E K N
UniRef90_UPI00046F3571 T Q E T D G C C E I V T T P L N A K F T K G L F V A M N T Q R D
UniRef90_I3C519 T Q E T D G C C E I V T T S L P V F K D G L F V A M N D K
UniRef90_S7VT11 T L E T D G C D I V T T S L P V K K F P N G L F V S M N D E K D
UniRef90_F8L721 V T K T D G L I G V T S L K I P P N Y P T G V F A A H N D K N N
UniRef90_F4QY51 T G T D G L A A L G G A V G P F P E G L V V I Q D D V N D T G T Q N
UniRef90_UPI000478AD85 A K E T D G L E V T A K A L S P S P F E G A L V M M S T D R T
UniRef90_W2UMC4 T T E T D G C D D V V T Y P L N K V F S K G L F V A M N D D G T
UniRef90_Q08T31 V D R P L Y V E V S S L P L G N S F P Q G F V A V H D A I N S P S Q N
UniRef90_UPI00036E2459 V S D T D G L E D V N T F A L N S D Q F A E G L L V V Q D G K N T G E N T I P K E N
UniRef90_UPI0004799CDD T L E T D G C D A T T E A L G N Q F P N G L F V S M N D E K D
UniRef90_S9QG Y3 V G E T D G H D V V N V P M G A G F P R G L V V L Q T G K A P P P P S T E P V N
UniRef90_D9QKN6 V T G T D G L A A W S R P T G P F P N G L V V V Q D V N D V G N Q N
UniRef90_A0A024FGL4 T S E T D G C D V T T L S L G T K F P N G L F V S M N D N K
UniRef90_B3ECB6 A V I D T D G L I E A S S V L S T A G F P A G I L V A M S D D R T
UniRef90_UPI0004762D53 V E H S D G A A V T T V S L G P D Y P R G L L V V H D G S R R P A L T D P N T G
UniRef90_UPI0003626ACE V T D T D G V D V V N N L G P L F P K G L L V V Q D G S N D G A G S I R K Q N
UniRef90_UPI00029AAE9A T L E S D G C E L V T V A L N E E F R N G L F V A M N D Q K N
UniRef90_UPI00046FB54A T L A T D G C D A V T V S L V N T M F T E G L F V A M N E Q R D
UniRef90_W6K1Y0 V N G S D G L D V V T V P L V A G F P R G L L V S H D E P D S G P G E R D P T N
UniRef90_A3XQ67 T T E T D G C E A V T V P L N D T F K N G L F V A M N D D G T
UniRef90_D2Q2G1 V Q H S D G A A V S T R S L G A R F P H G L L A V H D G E N T P G G D R E G T N
UniRef90_UPI0003760A07 T S D T D G L E L A L G D F P G A H P D G L L V A Q D G D N A P D T Q N
UniRef90_K0JTN8 V E H S D G A Q V T A D L G G E F R R G L L V V H D G E R R P A G D L P T T G
UniRef90_A6WC06 V Q H S D G A L T T A D L G P A F P H G V F V S H D G E A M P G S D R V A T N
UniRef90_UPI00037EEC64 V N G S D G L A V S N A P V G E Y E T G L L V T H D E P E T G P D D R D A T G
UniRef90_J5KE18 V S D T D G I E I K N N Y F N E D F P N G L I V V Q D G K N T G N V I K S K E N
UniRef90_M5RHP0 A Q Q S D G I E I V A R S F V G Q E F P Q G F F A C H S D H
UniRef90_UPI0003466645 V E H T D G L E V V S R P F G G D D Y D E G L I V V Q D G E A E P P G R G D A T G
UniRef90_A7BMY2 V S D S D G L D V I N V P L G E A F Y G V F I A Q D G W N N N P V A P Q N
UniRef90_UPI00037B21AF T S D T D G C D V I T T A L S P T F S T G L F V A M S N D K T
UniRef90_J9N0E1 V S N T D G L T A V G T A L N K D F P H G L V V V H D D A N P N G K T S A E A S
UniRef90_R4TBM0 V E H S D G A A I S T K S L G P L F P H G L L V V H D G E R R P A A T D A T T G
UniRef90_UPI00036F3662 V E H S D G S A L T T A S L G R R F P H G L L V V H D G R R P A A G D L P T T G
UniRef90_H1VMI7 V S N T D G L A A V T G H L G R D F P H G L V V T H D D A N P N G S T S A E A S
UniRef90_UPI00036AC291 V Q E C D G A A V V N T R L P G Y P N G L L V V H D G D A L P G Q E R A A T N
UniRef90_C4RE25 A Q E C D G A A V T A T P L P G F P G G L L V V H D G R N T P D T P R P D T D
UniRef90_J2P055 I E G P A G L F G V R A P L G A D L P A G A L L V T D D R K V G A N
UniRef90_Q1D1J7 A N D P V A L A V T A S S L G T T Y P D G L F V G S D A F S N P Q R
UniRef90_U2U7H6 A N D P V A L A V T S A S L D T A F P N G V F A G S D A L A N P Q N
UniRef90_H8MLP5 V E Q S R G L V A F S G A L G T A F P E G L F V A H D G V S S S T L S D N
UniRef90_M7T831 E V I Q G L S F Y Q E T T P A Y P A G V M
UniRef90_M7T831 E V I Q G L S F Y Q E T T P A Y P A G V M
UniRef90_K9YSJ8 V N E S D G L D V I N V N L G S A F P N G L A V F Q D G A N D P Q N E N N S T N
UniRef90_K9YSJ8 V N E S D G L D V I N V N L G S A F P N G L A V F Q D G A N D P Q N E N N S T N
UniRef90_L7UH05 A V A P R A L A V T S G P V G A F A D G L F V A Q S S S G T G T D D
UniRef90_Q2H2H9 E I Q G L A V Y Q G S T S K Y P S G V L A Y A I E S D D V T G
UniRef90_J5K822 V N D T D G L D V I N F N F N K Y P M G L F V L Q D G T N D G K N K V K R Q N
UniRef90_W7ISX4 V E H S D G A A I V T G R L N L L V V H D G E R P D G T G
UniRef90_K9YEA5
UniRef90_G8S690 T A S V S L P G Y P K G L L V L P H G E N I T T N D R A S T D
UniRef90_G2LWJ7 T A N T D G V W L D Q R S D T R F P G G V F Y A H D D Q A V A A
UniRef90_H1VMZ5 E V I Q G L S L Y Q G S T A K Y P S G A L G F A V E A D N D V A G
UniRef90_UPI00028872B8 T K Q S N D F A I S L K N F G G K F S R G L F I G F A V E A G K G D D R K
UniRef90_B3QZ52 T A N T D G V A L S Q Y A F G P F K N G A F A V H D D G N V A A
UniRef90_UPI0003B4D25C V W M D A R G D A R F P G G V F Y A H D D Q A V A A
UniRef90_A0A021VZZ7 V W L I Q Q N G S V R F P N G V F A V H D D Q A V A
UniRef90_B2FLX4 V A N T D G I W M M Q Q P S A R F P H G L Y A V H D D Q G V V A
UniRef90_A6R7A7 E I E G L S W M Q S K S A N Y P A G L L S Y V L A S K A Q K S
UniRef90_UPI0003102E44 V A N T D G I W L D P H A S P R F P D G V L A V H D D Q G V V A
UniRef90_E6WSA0 V L D P R G D A R F P Q G V F Y A S H L D L G V A
UniRef90_UPI0004161D9C V A N T D G I W L H Q E P T R N F P Q G A F A V H D D Q G M V A
UniRef90_UPI000405EF92 T S H T D G L I A L H A A A T P S F P Y G M Y A V H D D R A V A A
UniRef90_G7URQ0 V W L D E R G D A R F P Q G V F Y A S H L D V A V S A
UniRef90_B5JDS5 T L N T D G I W I S Q T P M P R F P Y G A L Y T C D N D K A I S A
UniRef90_UPI00047AAA09 V A N T D G I W L H Q A A S A R F P Q G V L A V H D D Q G V V A
UniRef90_UPI000237C4C3 T R N T D G V A L T Q H S F G N F K N G V F Y V H N D G S I T A
UniRef90_A0A021VWQ9 T A H T D G I A L H A A G T S A F P T G L Y A V H D D R S V T A
UniRef90_G7USS1 V S Q T D G I V L Y A A G T P R F P A G A L F A Q H D D R A V A A

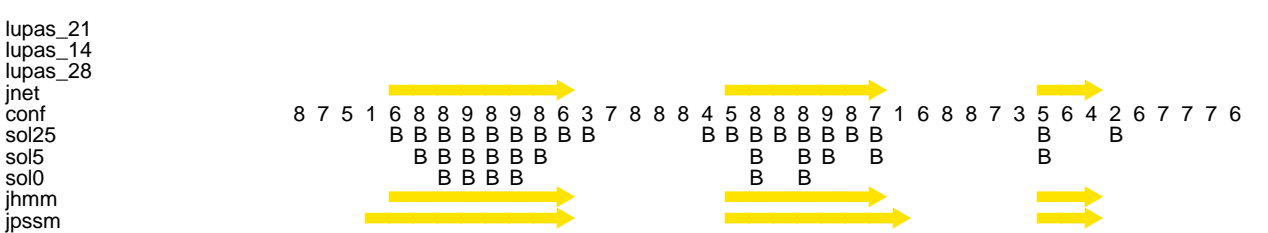
UniRef90_K6H468
UniRef90_UPI000479EC28
UniRef90_T2KR38
UniRef90_G0L3R2
UniRef90_S6WEE4
UniRef90_D3Q053
UniRef90_J9DE28
UniRef90_I0GX85
UniRef90_UPI000405FD63
UniRef90_UPI00035F18F2
UniRef90_A4BZB5
UniRef90_UPI000255AF26
UniRef90_F0RE83
UniRef90_UPI00047B73E4
UniRef90_M7YE22
UniRef90_A0A059FG14
UniRef90_S6UNQ5
UniRef90_G8R7W3
UniRef90_Q1GNE5
UniRef90_B3EJU3
UniRef90_B4S367
UniRef90_UPI000477CA37
UniRef90_UPI000372E0A8
UniRef90_D5BCF0
UniRef90_UPI00046F3571
UniRef90_I3C519
UniRef90_S7VT11
UniRef90_F8L721
UniRef90_F4QY51
UniRef90_UPI000478AD85
UniRef90_W2UMC4
UniRef90_Q08T31
UniRef90_UPI00036E2459
UniRef90_UPI0004799CDD
UniRef90_S9QGY3
UniRef90_D9QKN6
UniRef90_A0A024FGL4
UniRef90_B3ECB6
UniRef90_UPI0004762D53
UniRef90_UPI0003626ACE
UniRef90_UPI00029AAE9A
UniRef90_UPI00046FB54A
UniRef90_W6K1Y0
UniRef90_A3XQ67
UniRef90_D2Q2G1
UniRef90_UPI0003760A07
UniRef90_K0JTN8
UniRef90_A6WC06
UniRef90_UPI00037EEC64
UniRef90_J5KEI8
UniRef90_M5RHP0
UniRef90_UPI0003466645
UniRef90_A7BMY2
UniRef90_UPI00037B21AF
UniRef90_J9N0E1
UniRef90_R4TBM0
UniRef90_UPI00036F3662
UniRef90_H1VMI7
UniRef90_UPI00036AC291
UniRef90_C4RE25
UniRef90_J2P055
UniRef90_Q1D1J7
UniRef90_U2U7H6
UniRef90_H8MLP5
UniRef90_M7T831
UniRef90_M7T831
UniRef90_K9YSJ8
UniRef90_K9YSJ8
UniRef90_L7UH05
UniRef90_Q2H2H9
UniRef90_J5K822
UniRef90_W7ISX4
UniRef90_K9YEA5
UniRef90_G8S690
UniRef90_G2LWJ7
UniRef90_H1VMZ5
UniRef90_UPI00028872B8
UniRef90_B3QZ52
UniRef90_UPI0003B4D25C
UniRef90_A0A021VZZ7
UniRef90_B2FLX4
UniRef90_A6R7A7
UniRef90_UPI0003102E44
UniRef90_E6WSA0
UniRef90_UPI0004161D9C
UniRef90_UPI000405EF92
UniRef90_G7URQ0
UniRef90_B5JDS5
UniRef90_UPI00047AAA09
UniRef90_UPI000237C4C3
UniRef90_A0A021VWQ9
UniRef90_G7USS1

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

UniRef90_UPI00031AD186 1 D[V]P H[V]V V[G]E A F[V]T 10 20 30 40
 UniRef90_UPI00047EC7AF V[S]A E D P R D E L D S L A T W P A E D G Q T
 UniRef90_UPI0004798001 V[A]E T L T I E N P G D E L D S L A T W P T E D G R V
 UniRef90_UPI000466A44A V[V]E E A F L T E M T P D D N V D S P A A W T A P D G A T
 UniRef90_C1AAC0 V[V]E T I S A L D T A A N V D G P A V Y F G A D S A S
 UniRef90_I4VRE9 P V V K E A F I T A S A E A D N I D S V A T W H A P D G S A R
 UniRef90_UPI000465E41E V[Q]A P Y A A A G A V[L]V E E T F V[T]R P E D E L D S L A T W V[G]E D G I T
 UniRef90_L9ZX9
 UniRef90_UPI000144D06E P M F A T E P V E N A G L D S I G F L M R K H
 UniRef90_UPI0003B40851 V T A S S D E L E S P L T A V H A L P N A N G
 UniRef90_UPI0003A7F9BA K H
 UniRef90_UPI000368FD43 L A A C Q S G A G Q P S V E T T P H L R I A S A T P V D A E S A
 UniRef90_UPI000381E8D9 D D L I F L P N S E S P W L G
 UniRef90_Q0APH9 D P Q A P S L G
 UniRef90_J9N0E0 A V Y Y S N R N P
 UniRef90_K6UMJ6 L S S V L V Y A E D E P V T R V Q D A T G A W W I H E Y D A S G R
 UniRef90_D2UZU3 D N I D S L V V Y K H E
 UniRef90_A3UCD8 V T G A F E T A G R A E S L I F L P N D D A P W T G
 UniRef90_Q03601 S G G
 UniRef90_W8RAU7 L P E Y K V R I E A Q P V A S V G D N L S G L T L W A V V N N P E E
 UniRef90_W2SZG0
 UniRef90_E9GKU4 P D N S
 UniRef90_E6Q315
 UniRef90_I1FV44 D N H
 UniRef90_I1FT05 D N H
 UniRef90_K2KMQ1 P D S P G K L
 UniRef90_UPI0002659AE3 P D G S
 UniRef90_L8H5E3
 UniRef90_L8H5E3
 UniRef90_UPI0003B41152 P D P E G D G V A P S Q Q T R S A M V T G G R A E S L L F L P N A D A P W T G
 UniRef90_U1NB55
 UniRef90_UPI00046D854C P D N S
 UniRef90_F4WIS7 P D N S
 UniRef90_W8BM30 P D N S
 UniRef90_C3ZU72
 UniRef90_C3ZU22 P S G S
 UniRef90_E0VK33 D N S
 UniRef90_I1EGB5 D N H
 UniRef90_R1DP49
 UniRef90_E0RPA9
 UniRef90_C3ZPM4 A V S P E N Y
 UniRef90_S9UMW1
 UniRef90_UPI0003B3EBB8
 UniRef90_D3DGA4
 UniRef90_G9IS42 P A V S G E G
 UniRef90_UPI00022C9439 P D N S
 UniRef90_U2CJF2
 UniRef90_C3ZU73
 UniRef90_UPI00021A603B
 UniRef90_C3ZU63



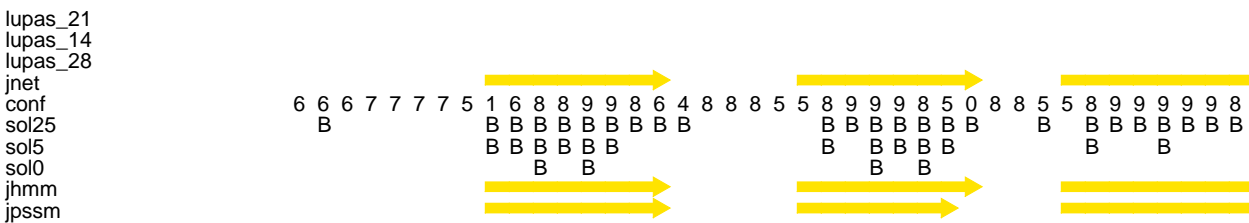
		90		100		110		120
UniRef90_UPI00031AD186	A T V	D D R Y A F V V E R D	N R R V	Q Q M F A L P G F E P L L				G
UniRef90_UPI00047EC7AF		Q G D H L F V A E R D N	H R V	Q V F L				P D F T P L G T
UniRef90_UPI0004798001		H G D L L L V S E R D	N R R V	Q M L A L P G F E P L				L G S F G E G L
UniRef90_UPI000466A44A	N G V	A V V D D V L L V V E R D	N R R V	Q A F S L P				E L A P L G S F G
UniRef90_C1AAC0	V	G D S L L L V V E R D N	H R V	Q				G F V L P S F T P A G V
UniRef90_I4VRE9	S R P	N G I A V I D D R E R D N	H R V	Q V F A L P D G				A L R L P D F V P A G S
UniRef90_UPI000465E41E		F G E L V F V A E R D A	P R V	Q				I R L P D R T P L G T
UniRef90_L9ZX9		D L A V V E R D N	R R	Q V				
UniRef90_UPI000144D06E	G	T T I N F V L V T E R D	N K	Q V A V F				D S S M N F L G T F G N
UniRef90_UPI0003B40851	R G S A	L P L I A A A N L E T G	T V	D F I G F S A E Q S A L L E V				P V S G L
UniRef90_UPI0003A7F9BA		F V L V T E R D N K	H	V A V E N T S M E F				L G S F G E
UniRef90_UPI000368FD43	S K D G	L L V A T L D R	K R Q Q A	V L L G L D R Q H R W S Q P L Y V P K T				
UniRef90_UPI000381E8D9	R G A S F	P L I L G N D R E G G	L H A Y V L L A E T N Q L	L V D A P L A				
UniRef90_Q0APH9	R G E S	L P L I F G A A A D S Q A V R G F A V V R D G A Q V L D L P L G A						
UniRef90_J9N0E0	K D I	L V T L A Q P D S I V R V Y E M P						K F E Q I K D A D F
UniRef90_K6UMJ6	P S R V	V D G G V S Q Y R Y D E R	G L L V S V I T D P A G G	V V R I V R D E R V				
UniRef90_D2UZU3	L D K E	Y L F V T E R D	G R R V	C I V D I G D D F K I V Y S F G E E V				
UniRef90_A3UCD8	R G E T	F P L L F G I D	D M G A L R G F V I V R E T R E V I E L P L E S					
UniRef90_Q03601	A S S K	L R V L V S D R Y N H R	L S V H L E S F G G H G Q G N A K F N N P W G					
UniRef90_W8RAU7	G D	N L L A V A E E R S	Q S I V I L P V P A Q H G D L R R A D Y A S V					
UniRef90_W2SZG0	A T F K	Q K L I V S D R Y N H R	V C I F	D M D G N Y L N S F G G H G Q				
UniRef90_E9GKU4	N R I	G Q Y I I A D R Y N H R	L Q V F	D P S G R F L R V F G S Q G				
UniRef90_E6Q315	D P A N G	W L Y V T N L N N N T M T A Y N A Q G A Q Q S L T						
UniRef90_I1FV44	A I T	P D K F I L V S D N D R	I Q K I S M D	G Y L I A S V G E L G				
UniRef90_I1FT05	A I T	P D K L I V V S D R S I	Q K V S M D G Y R I A S V T G K K	G S G				
UniRef90_K2KMQ1	A A D T	G A I Y V A D T G N H A I R	R I D R Q T G Q V T T L A G N G P					
UniRef90_UPI0002659AE3	A V N R	I G Q I I V S D R Y N N R V	Q I F	D A S G R F I R A F G G D G				
UniRef90_L8H5E3	G V A V	D V A A I V V A D C G S R Q V H L R R A D D G S C						V R T L E A
UniRef90_L8H5E3	G V A V	D V A A I V V A D C G S R Q V H L R R A D D G S C						V R T L E A
UniRef90_UPI0003B41152	R G E T	F P M L F G V D	D L G V L R S F V V V R E T R E V I E L P L E T E					
UniRef90_U1NB55	N R F R	Q L I V S D R Y N H R	I V I F	D Q L G Q F I K A F G G H G				
UniRef90_UPI00046D854C	N R	I G Q F I A D R Y N H R	I Q V F	D P S G R F L R A F G F Q G				
UniRef90_F4WIS7	N R I	G Q Y I I A D R Y N H R	I Q V	L D P S G R F L R A F G S Q G T				
UniRef90_W8BM30	N R I	G Q Y I I A D R Y N H R	I Q V	L D P Q G R F L R A F G S Q G				
UniRef90_C3ZU72		I V V A D L Y N R R V Q V H		S T E G V Y L R H F P T V V P				
UniRef90_C3ZU22	V V S	P S N D I F V T D H N N R R V Q V H		S T E G V Y L R H F P T V V P				
UniRef90_E0VK33	N R	I G Q F I A D R Y N H R	I Q V	L D P S G R F L R A F G S Q G T				
UniRef90_I1EGB5	A I T	P D K Y V L V S D D H R I	Q M I S M D	G Y L M A S V G K Y G				
UniRef90_R1DP49	N G	P A S V A V S S D A D F F N N R I R	K I D T S D G E T T T L A G S G T					
UniRef90_E0RPA9	G T H	R G D L L E V S N W E S N D I A F	L D P V S G R V V	G				
UniRef90_C3ZPM4	N S Q	G W I V T A D R Y N H R V	Q I F D S N G R F I R Q F G Q E G					
UniRef90_S9UMW1	A I T	G T T L Y V A N A G S F T V	S M Y N A A N P T V P L Y I G E F N G					
UniRef90_UPI0003B3EBB8		P I G I A I A G D R D A G N H R L	Q V F D R A G N F L F S F G H Q G A					
UniRef90_D3DGA4		V F V S D E E Q G	I Y A I D T D K L E L K H I E L K G M					
UniRef90_G9IS42	D G Q	L V S C A	D L H N Q I V R F G K D K K M Q V V Y E K Y D G K Q					
UniRef90_UPI00022C9439	N R I	G Q Y I I A D R Y N H R	I Q V	L D P S G R F L R A F G S Q G T				
UniRef90_U2CJF2	E K P	H V H S A A V K D A D L G T D E I S C Y E	L D E E G K P G K F L E A G S G					
UniRef90_C3ZU73		I F V A D K N N R R V Q V H		S T E G V Y L R H F P T V V P				
UniRef90_UPI00021A603B	D T G A T	G L V Y V S E	G G N N R I S V F T S D	G V F V S S F G S K G				
UniRef90_C3ZU63	S P S N D	L F V A	D S H N R R V Q V	L S T E G V Y L R H F P T V V P				



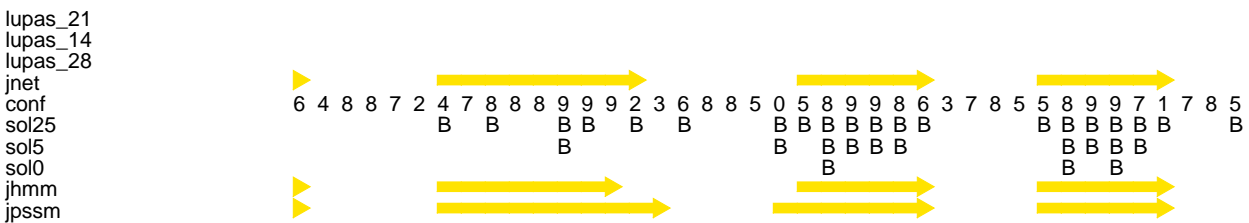

```

UniRef90_UPI00031AD186   F G A D E L V Q P Y G L W I H E S A P G E Y E V L V S D A D R R R F R R F L V V
UniRef90_UPI00047EC7AF   F G A D Q L R S P Y G L W I H E S A P G E Y E V L V S D A D R R R R Y R I F
UniRef90_UPI0004798001   L R S P Y G V W A Y E A A P G E L H V Y V T D S F M L G A A Y D I V
UniRef90_UPI000466A44A   E D S L A L P Y G V W A D R G D E G I V V Y V T D A D R R V R R F A V T
UniRef90_C1AAC0          F G V D R L R K P Y G L T A L P D T A G G M V Y V T D N Y E T A R V K Q Y R V
UniRef90_I4VRE9          D V L L K K P Y G L W I R A V D G G Y D V D V T D D D A H K R V L R F R
UniRef90_UPI000465E41E   F G E D E L R S P Y G L W L H E A A P E E L D V Y V T D S G E R V R R Y R V D
UniRef90_L9ZX9Y          F G Q A R L R K P Y G C T V F R S Y F G Y E L F V T V S E L D E R V K H Y R F T
UniRef90_UPI000144D06E   N E L R S P Y G I T F Y K H D D K S Y K V L V T D R Q D R I L S W D F T
UniRef90_UPI0003B40851   D T E I E I R A V C T A D S D Q S R L D F F A L G A D G Q V E R W R V R
UniRef90_UPI0003A7F9BA   N E L G S P Y G I S Y K V D D G K Y K V F V T D K Q D R I L S W D F S
UniRef90_UPI000368FD43   R F A T I E G L C L Y R D A G R N G Y L F L V I G E E G I G E Q W L V A
UniRef90_UPI000381E8D9   P V T I E G G V S G L C L K E I G I G Y V D Y V L L S G D D R G H I V R I R
UniRef90_Q0APH9          I E P L D G V S G L C L M R E G T G F V E L V V L S T G A H A E I W R V R
UniRef90_J9N0E0          K V I E P L D G V S G L C L M R E G T G F V E L V V L S T G A H A E I W R V R
UniRef90_K6UMJ6          A L T S V I T D Q L G A L C S W K S P A G N D Y V Y L F G K G Q A A Q L L L Q
UniRef90_D2UZU3          L K R P Y A L D L M K N Q D E E T Y H V F V T D N D K R I Q L F E I I
UniRef90_A3UCD8          E A A L S T A A G V C L F S Q G I G Y V E L A V L I G E D A E A R I V R V R
UniRef90_Q03601          V A V D D L G S I Y V A D K D N H R V Q
UniRef90_W8RAU7          S L P T G A S D N S G F G L G Y D R E G D R L F V V K E H S P R K L Y E I Q
UniRef90_W2SZG0          S N G K F N N P W G V A V D E L G T I Y V A D K D N H R V Q M
UniRef90_E9GKU4          T T D G K F S Y P W G V T T D A L G F I Y V C D K E N H R V Q V F Q S
UniRef90_E6Q315          G T F P N L N D P S G I A Y D P A N G W L Y V I T N Y N T T V T A Y
UniRef90_I1FV44          R E P L Q F S G P Y G I A I S P I T G Q V Y I V V L N P D L T F H S F G S K
UniRef90_I1FT05          P L K F N H P A G I A I S P I T G Q V Y I A D P G N H R I Q V L
UniRef90_K2KMQ1          F A D A E L A S P W D L A L S G G T L Y F A N A G T H R A E V Q V R L A
UniRef90_UPI0002659AE3   R S D G K F Q C P W G L T T D S L G F I Y V C D K E H R V Q V F Q S D
UniRef90_L8H5E3          P G S A Q L R W P W G V A V D A A E G H I V V T D H N H R V H V W R
UniRef90_L8H5E3          P G S A Q L R W P W G V A V D A A E G H I V V T D H N H R V H V W R
UniRef90_UPI0003B41152   A T L S P A A G V C L Y D Q G I G Y V E L A L L I G E D A S A Q L V R I R
UniRef90_U1NB55          P S S G R F N N P W G V C V D E T G I I Y A V D K D N H R V Q
UniRef90_UPI00046D854C   T A D G R F N Y P W G I T T D A L G F I Y V C D K E N H R V Q V F Q S
UniRef90_F4WIS7          A D G R F N Y P W G I T T D A L G F I Y V C D K E N H R V Q V F Q S
UniRef90_W8BM30          I T D G K F N Y P W G I A T D S L G F I Y V C D K E N H R V Q V F Q S
UniRef90_C3ZU72          G T G D K N M Y P Y D V C M D G S G T L W V V D G E T T D H V V Q Y S T D
UniRef90_C3ZU22          G T G D N T I Q P R D V C M A G N G T L W V V E G G S A D H V V Q Y S T N
UniRef90_E0VK33          A D G R F N Y P W G I T T D A L G F I Y V C D K E N H R V Q
UniRef90_I1EGB5          S G P L Q F N D P D G I A I S P I T G Q V Y V A T S G G E T T T L A G S T S
UniRef90_R1DP49          G T A A S F N Q P F G V A V S P D G G T V Y V A T S G G E T T T L A G S T S
UniRef90_E0RPA9          R V P V S A T P R G L A V T P D D R F L Y V C N Y D T G V L E K I D I P
UniRef90_C3ZPM4          S R D G Q L S Y P W G V A T D R M G F I Y V C M D K D H R V Q V F R L D
UniRef90_S9UMW1          A N L S S P H G L A I T G T T L Y I A N R G D G T I E I Y D I S
UniRef90_UPI0003B3EBB8   R L G E L G R P M H M E A K G G K L Y V A D Y L N D R V Q V F S L D
UniRef90_UPI0003D3DGA4   G I R G V G V I T K D G K Y L A V A S K K L G K L L V V S T E
UniRef90_G9IS42          L N G P N D L W L I T P K G G I Y F T D P Y Y R E G H A E V Q D V R
UniRef90_UPI00022C9439   A D G R F N Y P W G I T T D V L G F I Y V C D K E N H R V Q V F Q S
UniRef90_U2CJF2          P R S F A F L Q A G N M V Y V T C E L K N R I A V Y R W E
UniRef90_C3ZU73          G T G D K D M E P H D V C M D G N D T L W V V G R S D H V V Q Y S T D
UniRef90_UPI00021A603B   S N I D Q F N G P I G L A F D K D G F F Q G L V Y V T D F E N H R I Q
UniRef90_C3ZU63          G T E D T D I K P R D V C M D G N G T L W V V G Q G T A D H V V Q Y S T D

```



UniRef90_UPI00031AD186 P A G D G W R A R A T G A F G D T S A P E S L F G D P D N D R L L V A E E D V
UniRef90_UPI00047EC7AF G D D Q A R F T V R D E G S F G D T S E V E S I A G D P A Q Q R L L V A D E G E
UniRef90_UPI0004798001 P D D G G H P R A E P I D T F G D T S E V E S L A G D P V H D R L L V A D E H R
UniRef90_UPI000466A44A L A D G R V A A R D L G A F G D T T P V E S I L A D P D H D R L L I A E E D S
UniRef90_C1AAC0 A L R N G R L V A T H V R D F G D T T S A E S I L A D P D H D R L L L A E E D S
UniRef90_I4VRE9 V G A G K S L D A Q Q I G A F G E A D G V E S I W G D P V H D N L L V A E E G S
UniRef90_UPI000465E41E A S G E G A F G A T E G R R L R V V E S I A G D S A H G R L L I A D E H R
UniRef90_L9ZX9 V T E T G I D A S H V N T F G A T S E V E T I Y A D P A S N R L A I A D E R A
UniRef90_UPI000144D06E I V D S G I D A S H V N T F G A T S E V E T I Y A D P A S N R L A I A D E R A
UniRef90_UPI0003B40851 D T G A E Q L S A E R L T G F D A P F S A R R C A Y D P A G G A L Y V S S P L S
UniRef90_UPI0003A7F9BA I N D D T F A V S S A S I F G S P T Q V E S I H V D K H F K T M L V A E E M K
UniRef90_UPI000368FD43 A G Q R L L A T P K R V R G L S L P P E S S Y C Q V D D R T G E L V V N E E N V
UniRef90_UPI000381E8D9 D T G E D Q I S Q E V R T S F A L P F P A R N C C Q V L N S A I Y L S G P T G
UniRef90_Q0APH9 D A G E D Q L S V E R I R D F P L P A P A R Q C A A F D L N S A I Y L S G P T G
UniRef90_J9N0E0 E T
UniRef90_K6UMJ6 V F G R V V S S Q D A A G E S A S A F D A A G R L V W A R D A D G
UniRef90_D2UZU3 A N K K D T F Q S K Y V K K I G V L N I V E T V V I D E A Y D R L L I A D E N I
UniRef90_A3UCD8 D A G G A G L S V E E R A A R T L P F P A R S C A A A E D D L L V A G P T A
UniRef90_Q03601 F D K N G Q F I A K F G S F G L P G Q L N S I A V S R V T H H V Y V S D S N H
UniRef90_W8RAU7 G V K A G Q L N L K I I D R K D M A S D L A S V H F D E R T G H L L L S E E A K
UniRef90_W2SZG0 F D K N G L F V G K F G N S G H G P G Q L Q N I A V N K G N H Q V Y V S D S N H
UniRef90_E9GKU4 D G T F V G K F G T P G Q L E Y I A V S S T N R V I V S D N N H
UniRef90_E6Q315 D A Q G A Q Q T L T G S F P N L N W P S G I A Y D P A N R W L Y V T N S G I
UniRef90_I1FV44 G S A N G Q F Q S P R D I A I D S Q G L V C V T D F D N H R
UniRef90_I1FT05 N P D L T F S H S F G S E G S A S G Q F Q S P V A I D S Q G L V Y V A D D N H
UniRef90_K2KMQ1 G S G G E N I T D G P A A E A T L A P S Q S L A L S P D G G T L Y F A D E T S
UniRef90_UPI0002659AE3 G S F V G K M G S E H P S Y I A V S S T N R V I V S D T N N H R V Q V F D N G K
UniRef90_L8H5E3 A G D G T F V R T F G G P A Q P R G V A V D E A A G H I F V A D H R V
UniRef90_L8H5E3 A G D G T F V R T F G G P A Q P R G V A V D E A A G H I F V A D H R V
UniRef90_UPI0003B41152 D A G G E G L T L E S R D A R A L P F P A R S C A A A N E D I L V A G P T A
UniRef90_U1NB55 F D S N G Q F V S K F G G P G Q L E Y I A V H K Q T Q H L Y V T D S N H
UniRef90_UPI00046D854C D G G S G R G Q L E H P H Y I A V S S T N R V I V S D S N N H R V Q I F D V
UniRef90_F4WIS7 D G T F V G K F G G R G Q L E Y I A V S N T N R V I V S
UniRef90_W8BM30 D G T F V G K F G K L G P L E G I A V S N T N R V I V S D D N N H
UniRef90_C3ZU72 G T A M A R F D M K K G Y H F R G I A V D M R T N H I L V T D A D G
UniRef90_C3ZU22 G T A M A R F D L K K S H F R G I A V N V R T S H V L I T D A D Q
UniRef90_E0VK33 F Q S D G T F V G K F G T Q G N K P G Q L E Y I A V S N T N R V I V S D D N N H
UniRef90_I1EGB5 D W G N D H I Q P D L T F S H S F G S P R G I A I D S Q G L V Y V T D N N H
UniRef90_R1DP49 G F A D G T G T A A S F K E P Y G V A V S P D G G T L Y V A D E N H
UniRef90_E0RPA9 H Q Q V V K V I D W E F G A K R H A V V D R Q G R F L Y L S D M Y L
UniRef90_C3ZPM4 G A F V R K F G A N G Q F E N I V S D S S N H R I Q V F D K Q R
UniRef90_S9UMW1 N P T S P A H V T E F G S G D R P E G L A T T G T L Y V A N Q N D
UniRef90_UPI0003B3EBB8 G K P L R T I G G S G P G Q F D A P S E G M A V D D E G L L Y V V D F N H
UniRef90_UPI0003B3EBB8 S W K V V R E Q V P L G E N P E F V K V H P K R D L L V T Y E E T
UniRef90_G9IS42 G V Y Y L S P D G E V I R V I A D Y K Q P N G L V G T P D E K T L Y V A D N D R
UniRef90_UPI00022C9439 D G T F V G K F G G R G Q L E Y I A V S N T N R V I V S D D N N H
UniRef90_U2CJF2 K E E R R L S F V Q M V S L G V G S I G G I V L S D D G R Y I Y V G N R
UniRef90_C3ZU73 G T A M A G F G L K K G H H F R F I A V D M R T N H I L V T D A D K
UniRef90_UPI00021A603B F S P D G K F V G K F G T K G S G P G Q P T C I A I D A A T G L V Y V S D A N N
UniRef90_C3ZU63 G T A M A R F N L T K I G C V R G I A V D M R T N H I L V T D A D Q



```

UniRef90_UPI00031AD186 R L R E Y D L Q G R Y R G R 210 220 230 240
UniRef90_UPI00047EC7AF G L R E Y T F D G K P T G R E L P V G T F E D V G A S Q Y R A Q A E G I A L L R C A D
UniRef90_UPI0004798001 G L R E Y T L D G R Y T G G G V A P G V F T A E P E G L A L W S C T P
UniRef90_UPI000466A44A E L K V Y D L S G R Y A G R T L G R D V F K A Q A E G I A L R S C C D D
UniRef90_C1AAC0 H I K V Y S R D G R F T G T V F G R G Y F P Q Q A E G I A L Y R C C G A
UniRef90_I4VRE9 R L K L F D L K G N Y R G R D V G N G I Y R H Q A E G I A L Y A C T D
UniRef90_UPI000465E41E R L H E Y D L E G R Y T G R S L P D G T F V G E A E G V A L W D C G F
UniRef90_L9ZXY9 S L K L Y D L A G N F V S V G P T V F D A D P E G I A L D Y T D D
UniRef90_UPI000144D06E E H H K I M A L D L T S G E V L K E D L G N F N R G N D P E G I A L V A N P D
UniRef90_UPI0003B40851 Q L A R I D A N G E A T A Q R D L N V S G M
UniRef90_UPI0003A7F9BA E H H K I M A L D L E T G Q T K V E D L G D F N R G N D P E G I A L V K N K D
UniRef90_UPI000368FD43 G F W R Y A A D A E A P L L R Q P V D T V Q P G G I A E A A A G M A L V P G G
UniRef90_UPI000381E8D9 G V T R L T E S G E V A A Q S E A F S L A D L L A V E L Q
UniRef90_Q0APH9 G L A R L T A D G T L L A D A R Y P A A S L T I G E F N
UniRef90_J9N0E0 K K S F E F V Q S T K A P K I T K V G K V E D D V T G L A V Y V P K K
UniRef90_K6UMJ6 K V W R Y S V D P T G G V T R H E Y G R F D A R T A T V G P D G A R T E F A Y D
UniRef90_D2UZU3 K I Y N F S S H E F S G N T I G L A A G Q T F A G E P E G F V I Y S C Q T
UniRef90_A3UCD8 G L A R V T P E S A Q S A F A A G L S V A D V S Y T E L L
UniRef90_Q03601 R I S V F D P H G V H L F S F G E E G F H G G P R G I A I D
UniRef90_W8RAU7 M V L E L D G Q G D L V S F R S L W S G F A G K N S V P Q A E G M T F D A H
UniRef90_W2SZG0 R I S V F D V Q Q T F L F S F G S E G F H G G P R G V A V D
UniRef90_E9GKU4 R L Q V F D V N G K V I A S F G G E G A D P R G V A V D
UniRef90_E6Q315 G S G T V T A Y D A Q G A Q Q T L T G S F P N I N A D P Y G I A Y D P
UniRef90_I1FV44 I Q K F S P D G K F V G Q F G S E G S G P G Q V N G P R G I T I D T A
UniRef90_I1FT05 R I Q K F S Q D G K F V G Q F G S G L L Y S P I G I T I D N E
UniRef90_K2KMQ1 S V R A V R S T P E G P V V I E T L V G V N G D Y A S A R L Q G L D W W E A G
UniRef90_UPI0002659AE3 C Q F T F G A E G S E E G L F R F P R G I A V D D
UniRef90_L8H5E3 Q V W H A T D G S F L G S F G S E G V G P Q P T G V A V D A
UniRef90_L8H5E3 Q V W H A T D G S F L G S F G S E G V G P Q P T G V A V D A
UniRef90_UPI0003B41152 G L S R V S P S G E Q S A F A S G L S V S D V A Y T E L L
UniRef90_U1NB55 R V C V F D H N G N P V F Q F G Q E G F H N G P R G I A V D
UniRef90_UPI00046D854C N G R V L T A F G S E G S D E D G N N H R V Q I F D V N G R V L T S D P R G V A V D
UniRef90_F4WIS7 D G N N H R V Q I F D V N G R V L T S D P R G V A V D
UniRef90_W8BM30 R I Q I F D V N G K V L K I T G S E G S D D P R G I A V D
UniRef90_C3ZU72 A V H V F R P D G S L V R T V R Y P R D G E I T H P R Y V T V D D
UniRef90_C3ZU22 G E V L V F R P D G S L V R T V R Y S L A G E I K R P R Y I T V D
UniRef90_E0VK33 R I Q I F D V N G S D F G N E G S D E G Q F K F P R G V A V D
UniRef90_I1EGB5 H I Q K F S P S G K F V G Q F G T E G S G P G Q V N G P I G I T I D T A
UniRef90_R1DP49 R I R K I D T S D G E T T T G S T S G S A D G T G T A A S F E G P A S V A V S S
UniRef90_E0RPA9 G I T K F D L G S E A P V K E R Y I G P K L N T I A L S P D
UniRef90_C3ZPM4 F V L K F G S E G S G N G Q F Y P R G V A V D
UniRef90_S9UMW1 G T V E I Y D I A N P T A P V R V T E F G S G D L S E P V I G L A I
UniRef90_UPI0003B3EBB8 R V Q V L D A E G R F G K T G E K G I W A A L F N Y P T D V E L L
UniRef90_D3DGA4 G V E K A Y I V A I D T K N W K E A F R F E G G E S E G M A F S K E G
UniRef90_G9IS42 K I W K Y D I Q P D G T A N K T F F A P H G S D G M T M D N K G
UniRef90_UPI00022C9439 R I Q I F D V N G S D F G S G S D E G Q F K F P R G V A V D
UniRef90_U2CJF2 G I G V F A V D N S D L S P V Q W I S S E G K N P R G F T L A P S G
UniRef90_C3ZU73 G V Q V F R P D G S L V R T V R H P R G E M K G P G Y V T V D
UniRef90_UPI00021A603B H L S I F T S D G K F G S A G S N I D Q F N G P R G L A F D
UniRef90_C3ZU63 G T V Q V F C P D G S L V R T V R H P R D V E M R H P G Y V T M D

```



		250		260		270		280
UniRef90_UPI00031AD186	G S G W W V	G S D Q F A D R F H L F D R R	S L A H A G S F A G E V T G L					
UniRef90_UPI00047EC7AF	D A G Y W V	A A D Q P Q T H F L L F D R D	T L A S R G G F M				G E V	
UniRef90_UPI0004798001	E S G Y W I	A A D Q P R T V F R V F D R T	T L A P R G Q F S G T V T G W T D G					
UniRef90_UPI000466A44A	G S G W W L	T T E Q G T G R F H L F D R E	T L D Y V G				G V A G A K	
UniRef90_C1AAC0	D A G Y W V	T T D Q G A N T F H L F D R				N T F A H V A S F A G P V		
UniRef90_I4VRE9	G S G Y W I	G S D Q S D Q R Y L V F D R V	S F D Y L G A L R P A E					
UniRef90_UPI000465E41E	D R G Y W V	A A D Q P H T V F R L F D R V	S L A P R G S F R G R V					
UniRef90_L9ZX9	E D G Y W L	C T D Q L D S R F H V F D R D	S F D H R A T F R					G E R
UniRef90_UPI000144D06E	N S G Y W I	C T E Q S D N R F H L Y D R E	T L E Y M N T M					Y L D N
UniRef90_UPI0003B40851		G F A V L S G Q G S D S V Q L L D	P N S L E T S Q T L T F G P G V P A					
UniRef90_UPI0003A7F9BA	N T G Y W L	C T E Q S D N R F H L Y D R Q T L E R						L S T M Y L E D
UniRef90_UPI000368FD43								
UniRef90_UPI000381E8D9	G R P V V I T S V T D T P L L T V Y N A E	D L S E L S S L R T V D G L N A P M						
UniRef90_Q0APH9	G T R L V L A A D G N G E T V D T F D A A T	L E A G I S I D I V D G L S T P G						
UniRef90_J9N0E0	G S D Y L F V A	Q T D K I T V Y D	S S F K L K G T L S L T G Q K D I					
UniRef90_K6UMJ6	G E R R L V V T	D A G G G S W L Y E R D A A G R V V						
UniRef90_D2UZU3	T T G F Y I F T D A Q L D D R F H I V R R D	N L C Y V V G S F M G N V V S K T D G						
UniRef90_A3UCD8	G R P V A L I A S A Q T G L V S V Y D A R	S L D L I V I D V Q F E D G L S A P A						
UniRef90_Q03601	S Q E N L I A D S G N N R I Q V F D A Q G	Q F V S S F G T G G A G Q L K G						
UniRef90_W8RAU7	G N L Y L V S E P	N L F Y A F E R K						
UniRef90_W2SZG0	S Q G N V L V A D S G N N R I Q V F	T S D G E F I C T F						G T W G G G
UniRef90_E9GKU4	D Q G Y I V A D S G N N R I Q V F T A D G	V F V K A F						
UniRef90_E6Q315	A N G W L Y V T N Y N N T M T A Y D A Q G A Q L T G S F	P N I N G P Y G I A						
UniRef90_I1FV44	A A G L V Y V S E E G N N R I S V F	T S D G V F V S K F						G S K G S N I D Q
UniRef90_I1FT05	A T G L V Y V S E W G N N R I L V E T S K G	V F T N S F						G R W G S N I D N
UniRef90_K2KMQ1	P E G G L L V A D S Y N N A L R V V D							
UniRef90_UPI0002659AE3	Q G Y I I V S D S G N N R I Q V F	Q P D G S F I K A F						
UniRef90_L8H5E3	A T G N V I V A D S G N H R V Q V W	R A G D G S F V R T F						
UniRef90_L8H5E3	A T G N V I V A D S G N H R V Q V W	R A G D G S F V R T F						
UniRef90_UPI0003B41152	G R P V L I A S S Q T G L V S V Y D A R	T L D L I T D V Q F E D G F S A P A						
UniRef90_U1NB55	D Q G F I I V A D S G N N R I Q I F	Y P D G R F M H S F						
UniRef90_UPI00046D854C	D Q G Y I V V A D S G N N R I Q I F	P E G A F L K A G E F K G L E G V A V T S						
UniRef90_F4WIS7	D Q G Y I I V A D S G N N R I Q I F	S P D G A F L K S F						
UniRef90_W8BM30	D Q G Y I V I A D A G N N R I Q I Y	S P D G T F L K T F						G S W G S G
UniRef90_C3ZU72	G E G N I L V S D W D T H S V Y V D E S G K F L F L G S G K G Q L N G P L G I							
UniRef90_C3ZU22	G E G N I L V S D Y N S N S V Y V D E S G K F P F							
UniRef90_E0VK33	D Q G Y I F V G D S G N N R I Q I F	H P D G S F L K S F						
UniRef90_I1EGB5	A T G L V Y V S E Y G N N R I S V F	T S D G V F V K K F						G S K G S N I D Q
UniRef90_R1DP49	D G G T V Y V A D Y F N N R I R K I D T S D	G A T T T L A G S T S G S						
UniRef90_E0RPA9	G R Y L F V S S R G H N	N P E T Y L K K						G P D H G K V F
UniRef90_C3ZPM4	Q E G H I I V G D S G N N R L Q V F R Q D G S F							
UniRef90_S9UMW1	T G T T L Y V A N Q G N S T I E I Y N I T N	P L A P V R						V T E I G S G E
UniRef90_UPI0003B3EBB8	P N G R L T V A D A Y N D R V Q V F D P N G P G S A P G W F K V A T G V A I D R							
UniRef90_D3DGA4	R Y L L V T N E G E N S I S V Y D L D T K K K L R							
UniRef90_G9IS42								
UniRef90_UPI00022C9439	D Q G Y I V V A D S G N N R I Q I F S P E G	A F L K S F						G G W G S G
UniRef90_U2CJF2	G W L L A A N Q D S N L V V F E R E P D T G L L R K K K V Y E A G A V							
UniRef90_C3ZU73	G K G N I L V S E W G T H S V Y V Y D E S G K F							
UniRef90_UPI00021A603B	K D G F L Y I C D S D N N R V V V Y							
UniRef90_C3ZU63	G E G N I L V S D W N N N Y V Y V Y D E S G K F R F							

