

1 10 20 30 40
QUERY
UniRef90_H6MCY1
UniRef90_G7LMX6
UniRef90_S5V5E4
UniRef90_K8QW08
UniRef90_A5I2R5
UniRef90_UPI0004227DD2
UniRef90_UPI000479A68F
UniRef90_R7HNW9
UniRef90_H2HKX9
UniRef90_R0F2Q7
UniRef90_D0BKQ9
UniRef90_W6N5G8
UniRef90_UPI00046AC48A
UniRef90_L8D6E2
UniRef90_Q3A4E8
UniRef90_UPI0003610DEB
UniRef90_D5NV90
UniRef90_E6TP32
UniRef90_C0W3E4
UniRef90_UPI0002E55898
UniRef90_I0XMF9
UniRef90_T8D9F7
UniRef90_E4SYL7
UniRef90_UPI0003612C31
UniRef90_W8UHX5
UniRef90_C4ULV9
UniRef90_X1S0E3
UniRef90_J9H9H0
UniRef90_E6KPI6
UniRef90_F7KB53
UniRef90_X1B9K0
UniRef90_G6CEV9
UniRef90_H8N106
UniRef90_UPI0004724F8B
UniRef90_UPI0003B4C1E4
UniRef90_UPI0003B3333E
UniRef90_D5T4E9
UniRef90_W9B5K4
UniRef90_UPI0003B553D6
UniRef90_D3P966
UniRef90_C4LIF6
UniRef90_UPI00037DCDC3
UniRef90_Q65HT8
UniRef90_X7I8Z1
UniRef90_UPI000405116B
UniRef90_K4KVC2
UniRef90_Q5L6G3
UniRef90_UPI0004048704
UniRef90_J0RR18
UniRef90_H0DKW2
UniRef90_A6LH41
UniRef90_M6KD34
UniRef90_UPI000287D245
UniRef90_E4WHU7
UniRef90_D4H5Y7
UniRef90_M4X205
UniRef90_K1L5G0
UniRef90_H0UKL5
UniRef90_O59490
UniRef90_R5FS14
UniRef90_R6B8Z8
UniRef90_V6MMJ2
UniRef90_F0K6N7
UniRef90_J5VTG4
UniRef90_W4LRN6
UniRef90_F2IH93
UniRef90_I4X4S1
UniRef90_C6LGQ0
UniRef90_V5XM74
UniRef90_G8N0M5
UniRef90_R9SJR5
UniRef90_A5FQB6
UniRef90_X0VCH8
UniRef90_F3KZG9
UniRef90_UPI000365D62B
UniRef90_R7MGK2
UniRef90_G4Q667
UniRef90_M5U9X4
UniRef90_UPI000362E8DF
UniRef90_UPI00047A89D6
UniRef90_R6LP52
UniRef90_UPI000479765B
UniRef90_Q74C56
UniRef90_J9D8Q7
UniRef90_V2Q8Z9
UniRef90_UPI00040AD539
UniRef90_C9RQE0
UniRef90_B1BR84
UniRef90_UPI00047DFCB1
UniRef90_K6ZXV1
UniRef90_UPI0004051D4B

QUERY UniRef90_H6MCY1 UniRef90_G7LMX6 UniRef90_S5V5E4 UniRef90_K8QW08 UniRef90_A5I2R5 UniRef90_UPI0004227DD2 UniRef90_UPI000479A68F UniRef90_R7HNW9 UniRef90_H2HKX9 UniRef90_R0F2Q7 UniRef90_D0BKQ9 UniRef90_W6N5G8 UniRef90_UPI00046AC48A UniRef90_L8D6E2 UniRef90_Q3A4E8 UniRef90_UPI0003610DEB UniRef90_D5NV90 UniRef90_E6TP32 UniRef90_C0W3E4 UniRef90_UPI0002E55898 UniRef90_I0XMF9 UniRef90_T8D9F7 UniRef90_E4SYL7 UniRef90_UPI0003612C31 UniRef90_W8UHX5 UniRef90_C4ULV9 UniRef90_X1S0E3 UniRef90_J9H9H0 UniRef90_E6KPI6 UniRef90_F7KB53 UniRef90_X1B9K0 UniRef90_G6CEV9 UniRef90_H8N106 UniRef90_UPI0004724F8B UniRef90_UPI0003B4C1E4 UniRef90_UPI0003B3333E UniRef90_D5T4E9 UniRef90_W9B5K4 UniRef90_UPI0003B553D6 UniRef90_D3P966 UniRef90_C4LIF6 UniRef90_UPI00037DCDC3 UniRef90_Q65HT8 UniRef90_X7I8Z1 UniRef90_UPI000405116B UniRef90_K4KVC2 UniRef90_Q5L6G3 UniRef90_UPI0004048704 UniRef90_J0RR18 UniRef90_H0DKW2 UniRef90_A6LH41 UniRef90_M6KD34 UniRef90_UPI000287D245 UniRef90_E4WHU7 UniRef90_D4H5Y7 UniRef90_M4X205 UniRef90_K1L5G0 UniRef90_H0UKL5 UniRef90_O59490 UniRef90_R5FS14 UniRef90_R6B8Z8 UniRef90_V6MMJ2 UniRef90_F0K6N7 UniRef90_J5VTG4 UniRef90_W4LRN6 UniRef90_F2IH93 UniRef90_I4X4S1 UniRef90_C6LGQ0 UniRef90_V5XM74 UniRef90_G8N0M5 UniRef90_R9SJR5 UniRef90_A5FQB6 UniRef90_X0VCH8 UniRef90_F3KZG9 UniRef90_UPI000365D62B UniRef90_R7MGK2 UniRef90_G4Q667 UniRef90_M5U9X4 UniRef90_UPI000362E8DF UniRef90_UPI00047A89D6 UniRef90_R6LP52 UniRef90_UPI000479765B UniRef90_Q74C56 UniRef90_J9D8Q7 UniRef90_V2Q8Z9 UniRef90_UPI00040AD539 UniRef90_C9RQE0 UniRef90_B1BR84 UniRef90_UPI00047DFCB1 UniRef90_K6ZXV1 UniRef90_UPI0004051D4B

50 60 70 80

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

QUERY UniRef90_H6MCY1 UniRef90_G7LMX6 UniRef90_S5V5E4 UniRef90_K8QW08 UniRef90_A5I2R5 UniRef90_UPI0004227DD2 UniRef90_UPI000479A68F UniRef90_R7HNW9 UniRef90_H2HKX9 UniRef90_R0F2Q7 UniRef90_D0BKQ9 UniRef90_W6N5G8 UniRef90_UPI00046AC48A UniRef90_L8D6E2 UniRef90_Q3A4E8 UniRef90_UPI0003610DEB UniRef90_D5NV90 UniRef90_E6TP32 UniRef90_C0W3E4 UniRef90_UPI0002E55898 UniRef90_I0XMF9 UniRef90_T8D9F7 UniRef90_E4SYL7 UniRef90_UPI0003612C31 UniRef90_W8UHX5 UniRef90_C4ULV9 UniRef90_X1S0E3 UniRef90_J9H9H0 UniRef90_E6KP16 UniRef90_F7KB53 UniRef90_X1B9K0 UniRef90_G6CEV9 UniRef90_H8N106 UniRef90_UPI0004724F8B UniRef90_UPI0003B4C1E4 UniRef90_UPI0003B3333E UniRef90_D5T4E9 UniRef90_W9B5K4 UniRef90_UPI0003B553D6 UniRef90_D3P966 UniRef90_C4L1F6 UniRef90_UPI00037DCDC3 UniRef90_Q65HT8 UniRef90_X7I8Z1 UniRef90_UPI000405116B UniRef90_K4KVC2 UniRef90_Q5L6G3 UniRef90_UPI0004048704 UniRef90_J0RR18 UniRef90_H0DKW2 UniRef90_A6LH41 UniRef90_M6KD34 UniRef90_UPI000287D245 UniRef90_E4WHU7 UniRef90_D4H5Y7 UniRef90_M4X205 UniRef90_K1L5G0 UniRef90_H0UKL5 UniRef90_O59490 UniRef90_R5FS14 UniRef90_R6B8Z8 UniRef90_V6MMJ2 UniRef90_F0K6N7 UniRef90_J5VTG4 UniRef90_W4LRN6 UniRef90_F2IH93 UniRef90_I4X4S1 UniRef90_C6LGQ0 UniRef90_V5XM74 UniRef90_G8N0M5 UniRef90_R9SJR5 UniRef90_A5FQB6 UniRef90_X0VCH8 UniRef90_F3KZG9 UniRef90_UPI000365D62B UniRef90_R7MGK2 UniRef90_G4Q667 UniRef90_M5U9X4 UniRef90_UPI000362E8DF UniRef90_UPI00047A89D6 UniRef90_R6LP52 UniRef90_UPI000479765B UniRef90_Q74C56 UniRef90_J9D8Q7 UniRef90_V2Q8Z9 UniRef90_UPI00040AD539 UniRef90_C9RQE0 UniRef90_B1BR84 UniRef90_UPI00047DFCB1 UniRef90_K6ZXV1 UniRef90_UPI0004051D4B

90 100 110 120

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

QUERY UniRef90_H6MCY1 UniRef90_G7LMX6 UniRef90_S5V5E4 UniRef90_K8QW08 UniRef90_A5I2R5 UniRef90_UPI0004227DD2 UniRef90_UPI000479A68F UniRef90_R7HNW9 UniRef90_H2HKX9 UniRef90_R0F2Q7 UniRef90_D0BKQ9 UniRef90_W6N5G8 UniRef90_UPI00046AC48A UniRef90_L8D6E2 UniRef90_Q3A4E8 UniRef90_UPI0003610DEB UniRef90_D5NV90 UniRef90_E6TP32 UniRef90_C0W3E4 UniRef90_UPI0002E55898 UniRef90_I0XMF9 UniRef90_T8D9F7 UniRef90_E4SYL7 UniRef90_UPI0003612C31 UniRef90_W8UHX5 UniRef90_C4ULV9 UniRef90_X1S0E3 UniRef90_J9H9H0 UniRef90_E6KP16 UniRef90_F7KB53 UniRef90_X1B9K0 UniRef90_G6CEV9 UniRef90_H8N106 UniRef90_UPI0004724F8B UniRef90_UPI0003B4C1E4 UniRef90_UPI0003B3333E UniRef90_D5T4E9 UniRef90_W9B5K4 UniRef90_UPI0003B553D6 UniRef90_D3P966 UniRef90_C4L1F6 UniRef90_UPI00037DCDC3 UniRef90_Q65HT8 UniRef90_X7I8Z1 UniRef90_UPI000405116B UniRef90_K4KVC2 UniRef90_Q5L6G3 UniRef90_UPI0004048704 UniRef90_J0RR18 UniRef90_H0DKW2 UniRef90_A6LH41 UniRef90_M6KD34 UniRef90_UPI000287D245 UniRef90_E4WHU7 UniRef90_D4H5Y7 UniRef90_M4X205 UniRef90_K1L5G0 UniRef90_H0UKL5 UniRef90_O59490 UniRef90_R5FS14 UniRef90_R6B8Z8 UniRef90_V6MMJ2 UniRef90_F0K6N7 UniRef90_J5VTG4 UniRef90_W4LRN6 UniRef90_F2IH93 UniRef90_I4X4S1 UniRef90_C6LGQ0 UniRef90_V5XM74 UniRef90_G8N0M5 UniRef90_R9SJR5 UniRef90_A5FQB6 UniRef90_X0VCH8 UniRef90_F3KZG9 UniRef90_UPI000365D62B UniRef90_R7MGK2 UniRef90_G4Q667 UniRef90_M5U9X4 UniRef90_UPI000362E8DF UniRef90_UPI00047A89D6 UniRef90_R6LP52 UniRef90_UPI000479765B UniRef90_Q74C56 UniRef90_J9D8Q7 UniRef90_V2Q8Z9 UniRef90_UPI00040AD539 UniRef90_C9RQE0 UniRef90_B1BR84 UniRef90_UPI00047DFCB1 UniRef90_K6ZXV1 UniRef90_UPI0004051D4B

130 140 150 160

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

QUERY D R G R E W D K E I
 UniRef90_H6MCY1 S M A A H Y
 UniRef90_G7LMX6 K M T E K Y
 UniRef90_S5V5E4 N T T K L Y
 UniRef90_K8QW08 T M T K K Y
 UniRef90_A5I2R5 S T T Q I Y T H V D
 UniRef90_UPI0004227DD2 K M T D K Y
 UniRef90_UPI000479A68F K M T A K Y
 UniRef90_R7HNW9 T T T E I Y V H I D
 UniRef90_H2HKX9 T T T Q L Y T H V
 UniRef90_R0F2Q7 Q Q T A K Y
 UniRef90_D0BKQ9 S T T Q I Y T H L
 UniRef90_W6N5G8 S T T Q I Y T H V D
 UniRef90_UPI00046AC48A S T T Q I Y T N L
 UniRef90_L8D6E2 S T T Q I Y T H V A
 UniRef90_Q3A4E8 S T T Q I Y T H V
 UniRef90_UPI0003610DEB S T T Q I Y T N I D
 UniRef90_D5NV90 T T T Q I Y T H V
 UniRef90_E6TP32 T T T Q I Y T M V T V
 UniRef90_C0W3E4 T T T Q I Y T K V T V
 UniRef90_UPI0002E55898 K M T N V Y
 UniRef90_I0XMF9 S T T Q L Y T H M A
 UniRef90_T8D9F7 K M T D R Y N
 UniRef90_E4SYL7 S T T Q I Y T N L
 UniRef90_UPI0003612C31 S T T Q L Y T H L
 UniRef90_W8UHX5 T M T D K Y N
 UniRef90_C4ULV9 K M T N V Y
 UniRef90_X1S0E3 S T T Q I Y T H V D
 UniRef90_J9H9H0 G T T E I Y T H I D
 UniRef90_E6KPI6 A T T Q I Y T R V
 UniRef90_F7KB53 S S T Q V Y A
 UniRef90_X1B9K0 S S T Q I Y T H V
 UniRef90_G6CEV9 S T T Q I Y T H I
 UniRef90_H8N106 D M T M R Y A H L
 UniRef90_UPI0004724F8B S T T Q I Y T H I
 UniRef90_UPI0003B4C1E4 S T T Q I Y T H I
 UniRef90_UPI0003B3333E S T T Q I Y T H V Q V
 UniRef90_D5T4E9 S T T Q I Y T H I
 UniRef90_W9B5K4 S T T Q I Y T H V
 UniRef90_UPI0003B553D6 S T T Q L Y T H V
 UniRef90_D3P966 A T T Q K Y T H L N L
 UniRef90_C4LIF6 T T T Q I Y T A V S I
 UniRef90_UPI00037DCDC3 T T T Q I Y T H V
 UniRef90_Q65HT8 S T T Q I Y T H V
 UniRef90_X7I8Z1 R Q T D R Y
 UniRef90_UPI000405116B T T T Q V Y T L V T V
 UniRef90_K4KVC2 S T T Q I Y T H I A
 UniRef90_Q5L6G3 E T T T I Y T H V S M
 UniRef90_UPI0004048704 S T T Q I Y T H V
 UniRef90_J0RR18 T T T E I Y V H L D
 UniRef90_H0DKW2 S T T Q L Y T H V
 UniRef90_A6LH41 T T T E I Y T H I D
 UniRef90_M6KD34 G T T Q I Y T H V A I
 UniRef90_UPI000287D245 A T T Q I Y T H V D
 UniRef90_E4WHU7 T T T Q L Y T L V T V
 UniRef90_D4H5Y7 T T T Q K Y T H L N L
 UniRef90_M4X205 S T T Q I Y T H I A
 UniRef90_K1L5G0 T T T E L Y T H L D
 UniRef90_H0UKL5 L T T Q R Y L R I
 UniRef90_O59490 S T T Q I Y T K V
 UniRef90_R5FS14 S T T E I Y T H I
 UniRef90_R6B8Z8 V T T E I Y T H L A
 UniRef90_V6MMJ2 A Q T D R Y N D V
 UniRef90_F0K6N7 S T T Q I Y T H I D
 UniRef90_J5VTG4 T T T E I Y T H V E
 UniRef90_W4LRN6 A T T Q I Y T H I V
 UniRef90_F2IH93 T T T E I Y T H L D
 UniRef90_I4X4S1 S T T Q I Y T H V
 UniRef90_C6LGQ0 S T T Q I Y
 UniRef90_V5XM74 S T T Q L Y T H I
 UniRef90_G8N0M5 S T T Q M Y T H V
 UniRef90_R9SJR5 S T T Q I Y T S V D M
 UniRef90_A5FQB6 S T T Q L Y T H L
 UniRef90_X0VCH8 K T T E R Y T H
 UniRef90_F3KZG9 T T T Q I Y T H V A
 UniRef90_UPI000365D62B T T T Q I Y T L V T V
 UniRef90_R7MGK2 N T T E V Y T H V
 UniRef90_G4Q667 S T T Q I Y T H L
 UniRef90_M5U9X4 E T T T I Y V H I A
 UniRef90_UPI000362E8DF S S T Q L Y T H I
 UniRef90_UPI00047A89D6 K T T T V Y T H L
 UniRef90_R6LP52 S S T Q V Y A Q L V
 UniRef90_UPI000479765B T T T E V Y V H L D
 UniRef90_Q74C56 S T T Q I Y T H V
 UniRef90_J9D8Q7 S T T E I Y T H I D
 UniRef90_V2Q8Z9 S T T E I Y T H V
 UniRef90_UPI00040AD539 S T T Q I Y T H V
 UniRef90_C9RQE0 S T T Q I Y T H V D
 UniRef90_B1BR84 A T T E L Y T H V D
 UniRef90_UPI00047DFCB1 T T T Q V Y T L V
 UniRef90_K6ZXV1 E T T A L Y A Q V A
 UniRef90_UPI0004051D4B S T T Q I Y T H V A

UniRef90_B6XIJ5
UniRef90_UPI00042975AE
UniRef90_C0QJ38
UniRef90_O31206
UniRef90_L0B6A9
UniRef90_G4KPA1
UniRef90_R7WZ50
UniRef90_R6EYM4
UniRef90_UPI000308CB0B
UniRef90_F2LWR6
UniRef90_UPI000237ECC4
UniRef90_D5CP38
UniRef90_I7J3M3
UniRef90_D3TBG9
UniRef90_W4F195
UniRef90_S6JI18
UniRef90_F4A815
UniRef90_UPI0002378C62
UniRef90_UPI0003B2EF07
UniRef90_N6YH96
UniRef90_R7JBT4
UniRef90_A4C118
UniRef90_R6WKU2
UniRef90_UPI00037AA9E8
UniRef90_R6IBA4
UniRef90_F6B9L4
UniRef90_H5SB15
UniRef90_UPI000303D9E0
UniRef90_UPI0003CFF308
UniRef90_N8NV32
UniRef90_K0E167
UniRef90_K2B057
UniRef90_R6HQX4
UniRef90_B6BBP5
UniRef90_V6SPT5
UniRef90_UPI000471AA72
UniRef90_A4WB58
UniRef90_UPI0003693CFD
UniRef90_UPI00035C83A6
UniRef90_I4MENO
UniRef90_UPI0003B5F4FE
UniRef90_F8EP31
UniRef90_D6SM20
UniRef90_K5XHQ3
UniRef90_R7CJH2
UniRef90_UPI00047544A4
UniRef90_R7Y65
UniRef90_A6DQI4
UniRef90_UPI0002EFAF43
UniRef90_I2EWC7
UniRef90_K4LG56
UniRef90_R6VY47
UniRef90_D8J030
UniRef90_N1NLN9
UniRef90_R6U072
UniRef90_UPI000237D3C7
UniRef90_UPI000471FFDA
UniRef90_UPI00037A1E6A
UniRef90_I4C6M6
UniRef90_B9L8S8
UniRef90_H0UHV7
UniRef90_M7DHQ4
UniRef90_UPI00036AD11B
UniRef90_A3UAC0
UniRef90_W8AW21
UniRef90_U2LSD8
UniRef90_J8TPG3
UniRef90_UPI0003B76D0D
UniRef90_I7LFX8
UniRef90_UPI0003746A87
UniRef90_D3RN44
UniRef90_C4XSJ6
UniRef90_D7BN19
UniRef90_UPI0003B53256
UniRef90_UPI00047E17B2
UniRef90_D1CD80
UniRef90_M1Z026
UniRef90_M1P616
UniRef90_C8W5C7
UniRef90_UPI00021973C8
UniRef90_R5MB65
UniRef90_I1XHN2
UniRef90_UPI0004127A0A
UniRef90_G8MES6
UniRef90_A8UM85
UniRef90_U7G0P7
UniRef90_I4AFK6
UniRef90_C6CU47
UniRef90_U2K2B6
UniRef90_Q2W5Y0
UniRef90_F0IEU5
UniRef90_U6EBX1

UniRef90_B6XIJ5 R K L K W D D V R D G F L W I E Q E K T G T K T A I P L N T S N S I A N K T L Q 80
UniRef90_UPI00042975AE V N L K L S D L D D E F L K I K G K G N K E R L V P I G S S A L K Y L Q I Y S D
UniRef90_C0QJ38 S N L N V G D I R D Q E S H L V R V I G K G K G N E R E R L V P V I G S D R A L K A V Q I D D Y R
UniRef90_O31206 V G L S L S D I D R D Q E S H L V R V I G K G K G N E R E R L V P L G E E A I Y W L E Q D Y L Q
UniRef90_L0B6A9 I N L K I N N I N D N G G L V H V V M G K G G K D R I V P L G E E S M Y W I E R Y T
UniRef90_G4KPA1 I A L D V D L L N L N G S A G F L R C A S G A K R E R I P L Y P V A V K A L R D Y E
UniRef90_R7WZ50 V S L K T I E V F D G Y L R I T G K G N K Q R L V P I S A N A L H E L Q L W L Y
UniRef90_R6EYM4 V N L K F S D V F D G Y L R I T G K G N K Q R L V P I S A N A L H E L Q L W L Y
UniRef90_UPI000308CB0B I Q L N L S D V H S S A M G F V C V G K G N K R I L P I G Q T A L K A V D R Y L
UniRef90_F2LWR6 L N L A P T D I D S S E R M I H I N G A K G K D R I S L L S D N L L N L L L K
UniRef90_UPI000237ECC4 C R M K W N D I S D G V I Y L V Q G K T G V P L R I P V H P A L Q A H L L E
UniRef90_D5CP38 V G L S V A Q Q V D M G V T R V M G K G S K E R L V P L G E E A L D W V K R Y L A
UniRef90_I7J3M3 S E M K I L S D I F D T L R I H G K G N K D R Y V V F D K D T A R A L A T Y L L A N
UniRef90_D3TBG9 R N I R W E D V E F C L L R V M G K G R K E R Y V P F G H F A S E A L Q Q Y L L A
UniRef90_W4F195 T S I E M K D V Y D F C L L R V M G K G R K E R Y V P F G H F A S E A L Q Q Y L L A
UniRef90_S6JJ18 A A M L F K D V Y D D H L H I V I Q A K T G A R L R I S T K L R L E S I G G L E L G
UniRef90_F4A815 L R I T I F D V N L K Y L K C K G A K D K E R I P I G S Y A V N C L N E Y L K
UniRef90_UPI0002378C62 V G L D L D D D L D D G T N R T V L E F G K G G R Q R L V P I G R P A L A L D A Y R
UniRef90_UPI0003B2EF07 U P D L D V D D L H D D A V V R L F G K G S K E R I V P V I G Y A Q R A V S D Y R
UniRef90_N6YH96 V G L K V F A V N D G V L R I M G K G S K E R L V P M G E L A A D W L R R Y L L
UniRef90_R7JBT4 V N L K I T D Y D L F K E S K F L C T G K G S K D R L V P L G K K A L Q A I K N F L
UniRef90_A4C118 I T L K V S D I D F F E E G F L R V G K G N K E R Y V P I H K D A E S Y I S Y K
UniRef90_R6WKU2 T D L K M S D L D E K F I R V I G K G D K E R L V P I S E S A I Q E L R F W F V
UniRef90_UPI00037AA9E8 V G I N T S D I S D V T V L K L R G K G A K E R L V P L G K F A V S A V E D Y L
UniRef90_R6BA4 V G L T V T N I D L G S Q V V G N K E R I V P I G H T C C Q A V R Q L Q V I T R
UniRef90_F6B9L4 V T L D I E H V D M G Y I R C F G K G S K E R I P L G A V A A H Y V R E Y L R
UniRef90_H5SB15 C Q L R S D D I Y D V G I V R I R G K G S K E R L V P I G S Q V A L D W I E R Y R
UniRef90_UPI000303D9E0 V G L K V A D V Y D A M F C K C T G K G S K Q R I V P I G S K A I A A L R Y L G
UniRef90_UPI0003CFF308 I H L A V G D I D K K I H I K S A K G Q K D R I T I L P E K I M G E I R M L M
UniRef90_N8NV32 L N L R L E L N L K Q G Y L R I G K G N K E R L V P L G Q M A C E W I E K Y L
UniRef90_K0E167 V A L K V G D I D R M T L R V E Q G K G Q K D R Y A M L S P V L L E R L R V W W
UniRef90_K2B057 I N L K V K D I D L D E L T I H I K N A K G A K D R I T I V P A K I K
UniRef90_R6HQX4 V G L T L D T I D D L G N M F V L H G K G N K D R L V P C R S E A V E K Y L N G A R
UniRef90_B6BBP5 C N L K V S D I D S D R I H V E I Q G K G R K D R K V M L S P G L N L L R E Y W
UniRef90_V6SPT5 L N L K V A N I D S K S M R V H I E R G K G K K D R F V N L P E S I L D Q L R
UniRef90_UPI000471AA72 I M L D V G D V Q T G L G F A R C S G A G S K E R V P I G A A A S E C V E A Y
UniRef90_A4WB58 A N M K F S D I K D G Y L H I E Q S K G N K Q R I V P F G T P A K A L Q N W L A
UniRef90_UPI0003693CFD C G I D I G D I N N N T L R V T G K G N K Q R I V P F G T P A K A L Q N W L A
UniRef90_UPI00035C83A6 I D L K I K D I D D S K R I F I R K G G F K D R T V M L S D K L T E L L
UniRef90_I4MENO I V G V K F E D I D D D S V V K L T G K G A K Q R L V P I G G C A I R A I R K Y I
UniRef90_UPI0003B5F4FE V G L D V D D L E L G R V V R L F G K G S K E R I V P L G R Y A R N A L D A W R
UniRef90_F8EP31 I N L K I K D I D D R M Q I R I E V Q S K G K D R Y T L S P K A L D M L
UniRef90_D6SM20 I N L K I V L D F D Q A G I I R V V G K G A R E R L V P L H F S C M Q W L D F Y L
UniRef90_K5XHQ3 V G L R Q E Q I R Q G V L R T F G K G N K E R L V P L G D E A M Y W L E R Y R R
UniRef90_R7CJH2 V G L D L D R V S D E G T L R V L G K G S K E R L V P F S G L A E R V Q I Y L Q
UniRef90_UPI00047544A4 I G L T L A Q V S D Q G V V R V T G K G N K E R L V P L G E D A M W I D T Y L
UniRef90_R7Y65 I S L N V E D V D E K G F A T C R N G K K E R T V P L G E M S L K A L K D Y V E
UniRef90_A6DQI4 C G L R T D N Y E S G F L R V K G K G S K E R S V P F G T Q V A S M S R Q Y I K
UniRef90_UPI0002EF4F43 I S L N L E D L H M G F V R C F G K G G K E R I P L G Q S A L T A C E N Y L K
UniRef90_I2EWC7 I E L K I T N F D I G F V R V F G K G R K V R L I P I G R D A V K Y T N I Y L S
UniRef90_K4LG56 I S L N T E H L D L G F V R C L G K G S R E R I V P V G S E V A L R Y S R E Y L S
UniRef90_R6VY47 V N M K L S A I E E R F V R I M G K G S K E R L V P I S D T A L H E L E W Y A
UniRef90_D8J030 V L L K S T I E V N E G V L R V T G K G S K T R L V P F G E E A G S W L M R Y L A
UniRef90_N1NLN9 A K L R F D D V W D D H L H I V Q E K T G V K L A L P L S L R C E K I G Y T L Q
UniRef90_R6U072 I S L R T E D V N L T N G F I K V K K N S E R H I P L G K L A L K C L K E Y M E
UniRef90_UPI000237D3C7 I D L K I S N L E S G F V K I E G K G S K E R L V P I S T K A I K E I N L Y L S
UniRef90_UPI000471FFDA V N I Q L G H I D F D F T V V K G K G K E R L V L F G H F A S D A L W K Y I
UniRef90_UPI00037A1E6A T N L D V G D L D D R M Q A R V T G K G N K Q R V P F G K Q A R L A L N A W
UniRef90_I4C6M6 T S L N V H D L D D N G W L R V I G K G R K E R Y V P V I G T G A V K A L R Q Y L
UniRef90_B9L8S8 L N T K I S D I E N G W V K V T M A K G K Q R I V P I A K V A L D A I E E Y L
UniRef90_H0UHV7 L N L T V D D V E N G K V I K V T M A K G N K D R I V P I S L R L L P L L Q
UniRef90_M7DHQ4 T S L R V D N V R Q G V V R I T G K G D K E R L V P L G E E A V D W L L R Y M R
UniRef90_UPI00036AD11B I T L K L S H L D E G Y I L K V L G K G N K E R L V P I N D Y T Q K Y I N L Y K
UniRef90_A3UAC0 I T L N L S D L F F E G F I K V T K G N K Q R F V P I A E H T Q K L I S I Y K
UniRef90_W8AW21 V G L D V D D I D A E R A V V L R G K G G K Q R M V P I G R P A L A A L D N Y R
UniRef90_U2LSD8 A N L E L Q N V H E R I G T V R G K G D K E R L V P F G A Q A E R C I A D W L E
UniRef90_J8TPG3 Q Q L Q L S D L D F M I G T V F H G K G N K E R Y V P V G F E A C E A L N T Y I
UniRef90_UPI0003B76D0D V G L N V E D T D L G G V L R I R G K G K E R M V P I G R K A Q E A I R E Y L
UniRef90_I7LFX8 L A L K W S D I S D F D I I Q V P K T G S L R T V P I P S S L I P V L K E H K
UniRef90_UPI0003746A87 V G I N I A D I S D G E I T L R K G S K E R I V P L G S F A T K A I T D Y L
UniRef90_D3RN44 V N L T P S Q V S Q G V V R I L G K G K E R L V P L G E D A C N W L R D Y V R
UniRef90_C4XSJ6 V G L T L A D F D A Q A G L L R V I G K G S K E R V T P I H S L A M E F L S T Y
UniRef90_D7BN19 T G T D V S D V S P S N L R V I G K G D K E R L V P F G R P A R N A L M A W L
UniRef90_UPI0003B53256 I G L D V D D V H R A G L V R V T G K G N K Q R M V P V G S Y A R Q A L P A L A
UniRef90_UPI00047E17B2 C G S N L D D I D D E K V A R L M G K G S R Q R L V P V G G Y A C E A I A R Y L
UniRef90_D1CD80 V S L N V D D I N D D E S H L K C I G R G K T R K V P L S Q Y A A D V L K Y L E
UniRef90_M1Z026 T G L T L A H L D E R R V N V L G K G K E R I L P L G R K A A D A V R A Y M K
UniRef90_M1P616 V S R D L L N L D D F V T E M L R R G K G D K E R L V P V G R P W L F L R D Q L T
UniRef90_C8W5C7 V N L D L S D F D S R M L K A Y G K G S K E R M I P F S G Y A A A L K L Y I K
UniRef90_UPI00021973C8 A N L L L D Q L D F N G I V L I H G K G D K D R Y V P F G S F A Q K A L I E K Y F
UniRef90_R5MB65 V N L K M S A L D E Q F L R I S G K G K K E R L V P I S E N T I K Q L K F W E I
UniRef90_I1XHN2 V A L T F E Q L R Q G L I R C I G K G N K E R L V P L G E T A L D W Q L Y L I
UniRef90_UPI0004127A0A V G L K I S G L Y L D V E F I K I G K G N K E R L I P I G S S A I K C I K I Y K
UniRef90_G8MES6 L R M K F E D A K D G Y L W V D Q K T G A K K L E L T H I L Q N V I A Q C R
UniRef90_A8UM85 I H L K I S D I D S K R M L I R I D A A G K K D R Y T L L S H A L L K
UniRef90_U7G0P7 I S L N V D S I D M T A A Q L V T G K G N K T R Q L P M G K P A V T A L K R W L
UniRef90_I4AFK6 I N L K I Q D I D S Q N K Q I R V E S G M K K D R Y T L L S D K L L L D R Y K
UniRef90_C6CU47 I S L N V D S V N S Q N I R C V G S G M K E R I P F G R M A A A L L D Y L
UniRef90_U2K2B6 C H L T F P D L D E G Y L R V Q G K G S K Q R L V P L S E A A V H E L T R Y L A
UniRef90_Q2W5Y0 R N M G P K D I S D G Y L W V Q G K G G A R V S L P V I G R L Q V V N W S L S
UniRef90_F0IEU5 Q R L K W K E I D K I E L H F T Q K T K G V E Y K P I S K Q A L E L C G E R R
UniRef90_U6EBX1 V T I Q T N H I D E E R T I R I R G K G E K D R I V L F D D E T K G L I E D F L

UniRef90_B6XIJ5 L V L D R C K H E L N G K E S V V S Q R G D M L A D K T I G K S F S L A R D K S
UniRef90_UPI00042975AE T V R N H L D I K K G H D F I F L N K R D A H R K F M L S R V S M I F M T I K D L A K A V
UniRef90_C0QJ38 Y C I D G E T F D G A L F L N R D A H R K F M L S R V S M I F M T I K D L A K A V
UniRef90_O31206 Y G R P A L M Q G K T F D D I V F P S L R L R G K F M T R Q T F W H R I K H Y A V I A
UniRef90_L0B6A9 S S T R C K F P V S N T K N L F F I T S R L K A M T R Q A F W Q M V K K Y S V L A
UniRef90_G4KPA1 I N V R P I T A D M D D R A L F V N M R G E R M S R Q A F W K I I K Y Y Q E K A
UniRef90_R7WZ50 E S R G V L L G G R A C D R T L F V T N Q R G E G M T R Q A F W Y L I K R Y A S Q A
UniRef90_R6EYM4 D R N L M N I K P G E D E D A L F L N R R R G A H L T R T M I L I M I K N T A R S D A
UniRef90_UPI000308CB0B S K G R P M R K Q Y R T D A L F L E N G H Q K G Q R M L S R Q G F W K I L K R L A Q E A
UniRef90_F2LWR6 Y Y R K E Y R P T Q K Y L F E G H Q K G G M Y S P T S I A N L L K K A A I K A
UniRef90_UPI000237ECC4 E A R P A L L A G S Q V A D A L F V L T Q R R G E G M T R Q M F W Y L I K K H A K E G A
UniRef90_D5CP38 D V R D M L G N E S D Q N F V F L N N R R G Q K L S A R G I E Y I M K K V F N A A
UniRef90_I7J3M3 N T L E I Y G R K S K G Y V F M S Q R R G G K Y S P K S I Q L I V K N A A R R A
UniRef90_D3TBG9 N S R P K L M K G L Q N P K L F V N M R G G A L T A R G I R Y L I K D L D M M K N A
UniRef90_W4F195 E V V K A C R D A V V S K H L V H H S R G M P I M L D T L T S A F A A A R D R A
UniRef90_S6JJ18 V R D R M N A D N L E L L F C N L R G G K M T R Q G F W K I V K K Y A K D A
UniRef90_F4A815 A R P G L A A R G R G S A A V L F L N S R G G R L S R Q S S W N A L K T A A Q R A
UniRef90_UPI0002378C62 S R P G L A L K G K G T P A L F L N Q R R G G R L S R Q S V W L L I S K A A
UniRef90_UPI0003B2EF07 E A R P A L L A G R S C D E V F V T R L G S G M T R Q M F W R I I K Q Y A V H A
UniRef90_N6YH96 P E R D Y L L K K F Q T K Y L L I N D R R G K R V L T R Q M I F I L H E Q G K K L
UniRef90_R7JBT4 R T I R T H I E P K K G T L F L N R R R G K L L T R A M I F T I V K R L A A A A
UniRef90_A4C118 D R N V M K I K P G E E D Y V F L N R I H G K H L T R A M I F T I V K R L A A A A
UniRef90_UPI00037AA9E8 I R T R P A L A A K N S P A L F L N A R R G G K R L S R Q S A W Q I V L D A A
UniRef90_R6IBA4 G A L M E K N K T E A H D K L F V N S R G G R L L T D R S V R R I L D K Y I L T Q L
UniRef90_F6B9L4 S R V K L T K G K T E H R A L F V N A Q G G K R L L T R Q G F W K I L K K Y A R E A
UniRef90_H5SB15 R D A Y P L L R K Y A A T T L F L S N R A G Q L L D R M A V W I V K N A A K A A
UniRef90_UPI000303D9E0 E T R T G S V M A T P S E Y V F L S R A G K K L N D R E L W S I V K K Y V K R A
UniRef90_UPI0003CFF308 E S K S Y S E D P L F H S E Q G G G L H S R T A Q H I F Q D A L L R S
UniRef90_N8NV32 T E A R S Q L Y K S A T D Y V F L T Q H G G I M S R Q N F W Y A I K R Y A L Q A
UniRef90_K0E167 R V A R A Q G K M L D G G W L F P G L N P I E S L S T R Q L N R V V H A A A
UniRef90_K2B057 T D I Q N L I T G K K A D N I V F S E Q G G K L T T R T A Q K V F S Y A L K K A
UniRef90_R6HQX4 Q A L M A R Y N A A P H D K L L V N R L G N P V L S D R S V R R L L D K Y I L K K L
UniRef90_B6BBP5 R E A R P E G W L F P G K K I L N P V S S R Q L H R A F S S A K L I A
UniRef90_V6SPT5 S Y Y T Q Y K P K T Y L F E G Q Y G G Q Y S P R T I Q E V F K K A L T K A
UniRef90_UPI000471AA72 T R D K L L R E G K N E P A L F L N S R L G G R L N R Q G F W K M I K K Y A K E T
UniRef90_A4WB58 D V I R R C R D R F I S P F L V H G N K R K P V N L I L M S K E F A T A R D A A
UniRef90_UPI0003693CFD T G R S Q L I Q I P A S P K A V F L G D R G G R I N D R Q V R R I V M R A
UniRef90_UPI00035C83A6 R K Y Y K E Y K P T T Y L F E G Q Y G D Q Y S Q S S M R A V L K D A A K R A
UniRef90_I4MENO E K S R P L L S S K G K H T I F L N K R G N A L S R Q S A W F V V V I E A G E R A
UniRef90_UPI0003B5F4FE G R P E M A R A G R G T P A V F V N A R G G R L S R Q S A W T A I R A A A E R A
UniRef90_F8EP31 R K Y Y F Q Y K P I D Y L F E G Q D T P M Y S A R S I Q Q I L K A A C Q K A
UniRef90_D6SM20 Q H W R S S F S P R V D K V F L N R S G K A L S R Q G V W K I I K K Y T V M A
UniRef90_K5XHQ3 D A R G L L L G D K L G D V E F P S R R G G D P M T R Q T F W H R I K L H A R Q A
UniRef90_R7CJH2 D S R P Y C S K A H P S P A L F L N A R R G G R L S R Q S V H K V V E K A
UniRef90_UPI00047544A4 H G R P A L I T K A T V D T L F L S R R R G G Q M T R Q T F W H R I K H Y A V R A
UniRef90_R7Y65 N A R N I M I K D E N E K A L F V N V N G Q R L T R Q G F W K I I K Y Y E Q A
UniRef90_A6DQ14 N I R P Q L C K K N N P P E L I V N S N G R P L T R S R V W Q F L K E A A I K A
UniRef90_UPI0002EFAF43 E G R P K L I K P N K T D A I F V N Q R G K A L T R Q G V W K L M K E A H A R K A
UniRef90_I2EWC7 N I R N H Q D I D P E S E D I V F N R R G K K L T R V M I F L I I K N L A E Q A
UniRef90_K4LG56 R G R L K L R K N N W E R A L F L N R H G S R L S R Q G F W K I I K G Y A R R A
UniRef90_R6VY47 D R C H L R I K P G E E D Y V F L S R R G S H L T R I M V F Y I I R Q A A L A A
UniRef90_D8J030 E A R A Q I L Q G Q V D D A L F V T A R G G G P M T R Q M F W T L I K K Y A L Q A
UniRef90_N1NLN9 D V I T R C R D R L S P Y M L H Y H R G Q V S A N A I T T S E Q K T R D K T
UniRef90_R6U072 N V R P L L I R S E D E K T I F I N T N G Q K M T R Q G Y W K I L K Q Y K D Q A
UniRef90_UPI000237D3C7 E Y R R N L R I H P D H E D I F L N R R G K K L S R V M I F T I I K N I T R K L
UniRef90_UPI000471FFDA H Q A R T M E N A S H S Y L F V N F R G E P L T D R G V R Y L N K L I Q K A
UniRef90_UPI00037A1E6A L N H G R D E I A G D T P A L F V G V R G N R I D P R Q V R R I V E R A
UniRef90_I4C6M6 P L R S Q S K A K I F T E A L F L N S H G G R L S A R S V A R F V K Q C A L V A
UniRef90_B9L8S8 K K R P C Q K S E Y L F V N K D C K P L S R I V S A F N I T K K Y A
UniRef90_H0UHV7 E Y V Q E K R P T T A S S E L F V C K K T G M L S P I V Y V N K E I A E A V K R L
UniRef90_M7D HQ4 E G R G E L L K G R S S D A L F P G N R A T A M T R Q T F W H R I H Y A I R V
UniRef90_UPI00036AD11B N Q I R N E Q Q I K K P N D L F L N R R G A Q L T R A M I F T I V K Q L A K S A
UniRef90_A3UAC0 T E I R N H Q D I K K G H E D F L N R R R G R G L T R A M I F T I V K N L A K E C
UniRef90_W8AW21 G R P G L A A R G R G N S A L F L N H R G G R L S R Q S A W Q V L Q S A A E R A
UniRef90_U2LSD8 N G R S V F T G K R A V P W L F V N R R G G N R F S R K G I W K R F Q E L E A L S
UniRef90_J8TPG3 E D G R K S V N R A T V N H L F L N Y K G G P L S T R S F R T L L T K R V K E A
UniRef90_UPI0003B76D0D E K R G N D S G K T N G A L F L N K N S T R L T D R S V R R L L I K Y A R K A
UniRef90_I7LFX8 Q K Q K A G P S Y N D N D F V F T T E L G R N N I D V R N L T R A Y K R V L K K A
UniRef90_UPI0003746A87 V R I R P M L A A N K N D T N F L S R G A R L T R Q S A W N M V I R A A K D A
UniRef90_D3RN44 G P R F D I L G G R A S D F L F P T R R S D C M T R Q A F W Q L I K R Y A I L A
UniRef90_C4XSJ6 L S S R G A F G K P D Q H V F L N R S G K G L T R Q A F W K G I K R Y A L A A
UniRef90_D7BN19 D V I R G T L L E K N P T E Q A F V G A R G K R I D P R T V R T L T Q L T K A A
UniRef90_UPI0003B53256 E R A Q R R R R R S S P A L F L N K L G G R L S R Q S A W T V L T K T A E Q A
UniRef90_UPI00047E17B2 R G G R P Q L E A K A K R A L F L N K R G K R L S R Q S V W E I I R A A G Q R A
UniRef90_D1CD80 R S R P L L V R G Q D E Q A L F V N H R G G R L T R Q G F W L I L K A Y A S E A
UniRef90_M1Z026 E R Q A L L A K K K P E L P P F L N T R G G A V T V R G V R K I L H R Y L G P A
UniRef90_M1P616 S D R A K R G R P V I E R M A L F L N G S R L T T R S V E R L V K S Y G E R A
UniRef90_C8W5C7 D G R H K L S K I S Q S E A V F L N N S G T R L S D R G I R K I I D K Y I E K T
UniRef90_UPI00021973C8 E S G R M E K N H Q D H Q F V F V N S R G G N L T S R G I S Y L L D Q I I K K T
UniRef90_R5MB65 E R N H M K I K P G E E D Y V F L N R R G A H L T R T M I L I M I K R L G A E A
UniRef90_I1XHN2 D S R P Q L I Q G Q V T D D L F P T R R R G S M T R Q A F W Y I I K R Y A K L A
UniRef90_UPI0004127A0A D Q V R V H Q P I Q P G D Y L F L N N R G K S L S R V M I F Y I I K A L A L K A
UniRef90_G8MES6 D K A V S R Y L I H F P A E T Y Q H K R G A K V G A G S L E V A F R E A R T K A
UniRef90_A8UM85 D L R D Y Y K Q W K P E K Y I F E G L Y G K Q Y S A Q S V G O I V K N A A I K A
UniRef90_U7G0P7 K A R P L F V K D S S E K A I F L S K N G K R L S P S S V Q Q R I L K R H A
UniRef90_I4AFK6 Y Y I K Y K P T Q S W L F E G Q V A E G K I T Q Y S V R S L Q M L K R A V S K T
UniRef90_C6CU47 Q N G R A L R Q S E D E P A L F L N K L G T R M T R Q G F W K M V K K Y A K E A
UniRef90_U2K2B6 D P D R A T P R R G Q E N Y V F L N S R L G K A I T R I T V F V L I R E A A Q M A
UniRef90_Q2W5Y0 E V L A N C R D A V L S K H F L H H R P G D P I R A Q T I S L E F A E A R D K A
UniRef90_F0IEU5 D L E D L V F E N L P D P A W I S R P L K K W I T K A
UniRef90_U6EBX1 E K R N C D S E Y L F V N R S G N H L T P R Y V Q M L I K D Y A R V A

	130	140	150	160
UniRef90_B6XIJ5	GLSWE	GSPP	PTFH	ELRSL
UniRef90_UPI00042975AE	GLINK	TISPP	HTRR	HRSFA
UniRef90_C0QJ38	GLLG	SEV	HTVLL	HFAT
UniRef90_O31206	GLD	SKL	SPH	HTLML
UniRef90_L0B6A9		KIDT	HLLSS	PHVLL
UniRef90_G4KPA1	DIRAQ	KD	HLLSS	PHVLL
UniRef90_R7WZ50	DIRAQ	KD	HLLSS	PHVLL
UniRef90_R6EYM4	DIRAQ	KD	HLLSS	PHVLL
UniRef90_UPI000308CB0B	DIRAQ	KD	HLLSS	PHVLL
UniRef90_F2LWR6	DIRAQ	KD	HLLSS	PHVLL
UniRef90_UPI000237ECC4	VEGK	PKG	FNI	HGLR
UniRef90_D5CP38	GLHK	PL	SSPH	HTLRL
UniRef90_I7J3M3	GLISG	KV	SH	HELRL
UniRef90_D3TBG9	KINKN	KV	SH	HELRL
UniRef90_W4F195	EELHS	SN	Y	PP
UniRef90_S6JJ18	GLIFG	AS	PTFH	HMLR
UniRef90_F4A815	NIENK	KD	SY	T
UniRef90_UPI0002378C62	GLRNG	S	V	PL
UniRef90_UPI0003B2EF07	ERSG	IN	VE	SSPH
UniRef90_N6YH96	GLP	SER	IS	SPH
UniRef90_R7JBT4		HKS	IS	SPH
UniRef90_A4C118	DLKK	K	IS	SPH
UniRef90_R6WKU2	GLTKN	K	IS	SPH
UniRef90_UPI00037AA9E8	IATG	LQ	GR	V
UniRef90_R6IBA4	AMQ	K	V	SSPH
UniRef90_F6B9L4	NINK	K	V	SSPH
UniRef90_H5SB15	QLD	V	H	LLT
UniRef90_UPI000303D9E0	GL	H	R	K
UniRef90_UPI0003CFF308	GVQ	K	K	A
UniRef90_N8NV32	GVQ	AE	E	L
UniRef90_K0E167	EAG	L	D	K
UniRef90_K2B057	YTK	K	P	A
UniRef90_R6HQX4	ALR	K	N	V
UniRef90_B6BBP5	GLK	K	P	G
UniRef90_V6SPT5	NI	T	K	K
UniRef90_UPI000471AA72	NI	R	K	Q
UniRef90_A4WB58	GLK	P	P	K
UniRef90_UPI0003693CFD	GLE	N	G	I
UniRef90_UPI00035C83A6	GLK	Q	R	S
UniRef90_I4MENO		K	L	G
UniRef90_UPI0003B5F4FE	GLR	A	E	E
UniRef90_F8EP31	GLI	K	K	T
UniRef90_D6SM20	GLI	K	K	T
UniRef90_K5XHQ3	GLI	A	A	G
UniRef90_R7CJH2	GLR	I	G	I
UniRef90_UPI00047544A4	GLI	R	I	G
UniRef90_R7Y65	HIE	K	Q	D
UniRef90_A6DQI4	EIQ	N	K	N
UniRef90_UPI0002EFAF43	GIQ	N	E	I
UniRef90_I2EWC7	GIQ	K	N	I
UniRef90_K4LG56	GIQ	K	N	I
UniRef90_R6VY47	GIH	K	K	E
UniRef90_D8J030	GV	T	A	R
UniRef90_N1NLN9	DLK	W	E	D
UniRef90_R6U072	KID	K	E	P
UniRef90_UPI000237D3C7	GLE	K	N	I
UniRef90_UPI000471FFDA	ALT	T	G	K
UniRef90_UPI00037A1E6A	GQE	T	D	V
UniRef90_I4C6M6	GLA	K	N	K
UniRef90_B9L8S8		N	V	S
UniRef90_H0UHV7	G	W	K	K
UniRef90_M7DHQ4	GLR	K	K	R
UniRef90_UPI00036AD11B	N	F	S	Q
UniRef90_A3UAC0	NG	L	Q	K
UniRef90_W8AW21	GI	A	A	Q
UniRef90_U2LSD8	GV	T	A	K
UniRef90_J8TPG3	ALT	P	S	H
UniRef90_UPI0003B76D0D	SL	Q	K	Q
UniRef90_I7LFX8	NI	P	Y	R
UniRef90_UPI0003746A87	GI	E	A	E
UniRef90_D3RN44	GV	A	K	A
UniRef90_C4XSJ6	QV	S	T	R
UniRef90_D7BN19	GL	I	S	P
UniRef90_UPI0003B53256	GI	S	A	D
UniRef90_UPI00047E17B2	H	I	D	K
UniRef90_D1CD80	GL	K	G	I
UniRef90_M1Z026	F	S	K	G
UniRef90_M1P616	GL	P	Q	I
UniRef90_C8W5C7	GL	K	S	A
UniRef90_UPI00021973C8	SL	T	A	D
UniRef90_R5MB65	GI	Q	K	T
UniRef90_I1XHN2	H	I	D	K
UniRef90_UPI0004127A0A	GI	T	K	S
UniRef90_G8MES6	EL	T	Y	P
UniRef90_A8UM85	R	L	I	Q
UniRef90_U7G0P7	L	E	R	G
UniRef90_I4AFK6	S	I	T	K
UniRef90_C6CU47	GI	S	E	I
UniRef90_U2K2B6	GI	T	K	T
UniRef90_Q2W5Y0	GI	T	G	S
UniRef90_F0IEU5	GI	H	K	N
UniRef90_U6EBX1	GI	K	K	K

	D	M	T	R	M	Y				
UniRef90_B6XIJ5	T	T	T	E	I	Y	T	H	L	D
UniRef90_UPI00042975AE	S	S	T	Q	I	Y	T	H	V	A
UniRef90_C0QJ38	S	T	T	Q	I	Y	T	H	V	A
UniRef90_O31206	S	T	T	Q	I	Y	T	H	I	A
UniRef90_L0B6A9	S	T	T	Q	I	Y	T	H	V	V
UniRef90_G4KPA1	S	T	T	Q	I	Y	T	H	V	A
UniRef90_R7WZ50	S	T	T	Q	I	Y	T	H	I	D
UniRef90_R6EYM4	S	T	T	Q	I	Y	T	H	I	I
UniRef90_UPI000308CB0B	S	T	T	Q	I	Y	T	H	I	
UniRef90_F2LWR6	K	T	T	E	L	Y	T	H	V	
UniRef90_UPI000237ECC4	A	M	V	Q	H	Y	T			
UniRef90_D5CP38	S	T	T	Q	I	Y	T	H	V	A
UniRef90_I7J3M3	S	T	T	Q	I	Y	T	H	V	T
UniRef90_D3TBG9	K	T	T	Q	I	Y	T	H	V	A
UniRef90_W4F195	S	S	T	Q	V	Y	T	H	V	
UniRef90_S6JJ18	A	M	T	A	L	Y				
UniRef90_F4A815	A	T	T	Q	I	Y	S	S	I	I
UniRef90_UPI0002378C62	T	T	T	Q	V	Y	T	L	I	T
UniRef90_UPI0003B2EF07	T	T	T	Q	I	Y	T	K	V	T
UniRef90_N6YH96	S	T	T	Q	I	Y	T	H	V	A
UniRef90_R7JBT4	S	T	T	Q	L	Y	T	H	I	
UniRef90_A4C118	T	T	T	E	I	Y	V	H	V	D
UniRef90_R6WKU2	G	T	T	Q	I	Y	T	H	I	D
UniRef90_UPI00037AA9E8	T	T	T	Q	I	Y	T	L	I	T
UniRef90_R6IBA4	S	T	T	Q	I	Y	T	H	I	
UniRef90_F6B9L4	S	T	T	Q	I	Y	T	H	L	
UniRef90_H5SB15	S	T	T	Q	I	Y	T	H	L	D
UniRef90_UPI000303D9E0	G	T	T	Q	I	Y	T	H	V	D
UniRef90_UPI0003CFF308	K	T	T	Q	I	Y	T	Q	V	
UniRef90_N8NV32	S	T	T	Q	I	Y	T	H	V	A
UniRef90_K0E167	E	T	T	A	L	Y	A	Q	V	A
UniRef90_K2B057	R	T	T	Q	I	Y	T	K	V	
UniRef90_R6HQX4	S	T	T	Q	I	Y	T	H	V	
UniRef90_B6BBP5	E	T	T	E	R	Y	T	H	V	A
UniRef90_V6SPT5	K	T	T	F	I	Y	T	H	V	
UniRef90_UPI000471AA72	S	T	T	Q	M	Y	S	G	I	A
UniRef90_A4WB58	S	T	T	D	R	Y	N			
UniRef90_UPI0003693CFD	N	T	T	Q	I	Y	T	H	V	
UniRef90_UPI00035C83A6	K	T	T	E	I	Y	T	Y	V	
UniRef90_I4MENO	T	T	T	Q	I	Y	T	H	I	
UniRef90_UPI0003B5F4FE	T	T	T	Q	I	Y	T	H	V	
UniRef90_F8EP31	K	T	T	E	I	Y	T	H	L	
UniRef90_D6SM20	T	A	T	E	I	Y	T	H	V	
UniRef90_K5XHQ3	S	T	T	Q	I	Y	T	H	I	A
UniRef90_R7CJH2	S	T	T	Q	I	Y	T	H	V	
UniRef90_UPI00047544A4	S	T	T	Q	I	Y	T	H	V	A
UniRef90_R7IY65	L	S	T	Q	V	Y				
UniRef90_A6DQI4	A	T	T	E	I	Y	T	H	V	E
UniRef90_UPI0002EFAF43	S	T	T	Q	I	Y	T	H	V	
UniRef90_I2EWC7	T	T	T	E	V	Y	T	H	L	D
UniRef90_K4LG56	T	T	T	Q	I	Y	T	H	L	
UniRef90_R6VY47	A	T	T	E	I	Y	T	H	I	D
UniRef90_D8J030	S	T	T	Q	I	Y	T	H	V	A
UniRef90_N1NLN9	A	M	T	D	K	Y				
UniRef90_R6U072	A	S	T	M	L	Y	T	Q	I	A
UniRef90_UPI000237D3C7	I	T	T	E	I	Y	T	H	L	D
UniRef90_UPI000471FFDA	S	S	T	Q	V	Y	T	H	V	
UniRef90_UPI00037A1E6A	Q	T	T	Q	L	Y	T	H	V	
UniRef90_I4C6M6	S	T	T	Q	R	Y	T	K	A	D
UniRef90_B9L8S8	N	T	T	Q	I	Y	T	H	I	
UniRef90_H0UHV7	N	V	I	T	S	I	Y	T	H	
UniRef90_M7Dhq4	S	T	T	Q	I	Y	T	H	V	A
UniRef90_UPI00036AD11B	T	T	T	E	V	Y	M	H	L	D
UniRef90_A3UAC0	T	T	T	E	I	Y	M	H	L	D
UniRef90_W8AW21	T	T	T	Q	I	Y	T	L	V	T
UniRef90_U2LSD8	S	T	T	Q	I	Y	T	H	I	D
UniRef90_J8TPG3	S	T	T	Q	I	Y	T	H	V	
UniRef90_UPI0003B76D0D	S	T	T	Q	I	Y	T	H	V	
UniRef90_I7LFX8	A	I	T	A	I	Y	T	H	V	
UniRef90_UPI0003746A87	T	T	T	Q	I	Y	T	L	I	T
UniRef90_D3RN44	S	T	T	Q	I	Y	T	H	V	A
UniRef90_C4XSJ6	S	A	T	E	I	Y	T	H	V	
UniRef90_D7BN19	G	T	T	Q	R	Y	T	H	V	
UniRef90_UPI0003B53256	T	T	T	Q	I	Y	T	K	I	
UniRef90_UPI00047E17B2	T	T	T	Q	I	Y	T	H	V	
UniRef90_D1CD80	T	T	T	Q	V	Y	R	Q	I	K
UniRef90_M1Z026	S	T	T	Q	K	Y	T	H	L	T
UniRef90_M1P6I6	S	T	T	Q	R	Y	T	H	L	T
UniRef90_C8W5C7	S	T	T	Q	I	Y	T	H	V	S
UniRef90_UPI00021973C8	S	T	T	Q	I	Y	T	H	V	T
UniRef90_R5MB65	G	T	T	E	I	Y	T	H	I	D
UniRef90_I1XHN2	S	T	T	Q	I	Y	T	H	V	A
UniRef90_UPI0004127A0A	T	T	T	E	I	Y	T	H	L	D
UniRef90_G8MES6	G	M	T	E	L	Y	K	D	V	
UniRef90_A8UM85	K	T	T	E	I	Y	T	H	V	A
UniRef90_U7G0P7	A	T	T	Q	V	Y	T	H	L	D
UniRef90_I4AFK6	K	T	T	E	I	Y	T	H	V	
UniRef90_C6CU47	S	T	T	Q	R	Y	T	K	V	
UniRef90_U2K2B6	A	T	T	E	I	Y	T	H	L	D
UniRef90_Q2W5Y0	E	M	A	A	L	Y				
UniRef90_F0IEU5	K	T	T	Q	A	Y	A	K	V	
UniRef90_U6EBX1	S	T	T	Q	I	Y	T	S	V	D

UniRef90_Q1LR21
UniRef90_E4RZ11
UniRef90_C2CFL3
UniRef90_UPI00037B4935
UniRef90_G8X8F7
UniRef90_S7XCM3
UniRef90_N1UFY7
UniRef90_UPI00047BE3CD
UniRef90_E3ENU8
UniRef90_U2Q4V3
UniRef90_A8MFH3
UniRef90_A4U5T6
UniRef90_E8LNP0
UniRef90_I4EMH0
UniRef90_D4DRB5
UniRef90_H7CYV4
UniRef90_UPI0003731F9A
UniRef90_X1VNR0
UniRef90_A1AN30
UniRef90_F7V043
UniRef90_G0UHD9
UniRef90_UPI000471D18E
UniRef90_UPI00034554B9
UniRef90_B8DJJ4
UniRef90_UPI00037A5857
UniRef90_S4NNZ1
UniRef90_M5J5R4
UniRef90_UPI000380ECBE
UniRef90_M4XN10
UniRef90_X0SWV6
UniRef90_L0K7R0
UniRef90_K1X939
UniRef90_T0VAM4
UniRef90_C0DS64
UniRef90_R7AKC8
UniRef90_K2FPK3
UniRef90_U5S956
UniRef90_F2IG96
UniRef90_UPI00047C2FFA
UniRef90_UPI0003FA8D3F
UniRef90_R6PJR3
UniRef90_G2EAQ8
UniRef90_H2G509
UniRef90_B9CKF8
UniRef90_A6TN37
UniRef90_M6CKS0
UniRef90_A6Q7C2
UniRef90_NOAQS9
UniRef90_X1S891
UniRef90_B9EBF0
UniRef90_D4ZGA1
UniRef90_C3KX95
UniRef90_C7X948
UniRef90_UPI0003C7EBBC
UniRef90_I3IPJ4
UniRef90_N1UVG6
UniRef90_Q1QPX2
UniRef90_U2HDU8
UniRef90_D3VHZ9
UniRef90_F2G2Y9
UniRef90_H7ENR2
UniRef90_D8PIZ4
UniRef90_UPI000377F7B1
UniRef90_C4L615
UniRef90_UPI0003782045
UniRef90_UPI000319AEEA
UniRef90_R6FFZ1
UniRef90_S6D432
UniRef90_T0XYT0
UniRef90_UPI00035C4D20
UniRef90_A0A011QA50
UniRef90_UPI0002F319CE
UniRef90_UPI00020D978F
UniRef90_C0QB39
UniRef90_Q2GHC2
UniRef90_Q2VZC1
UniRef90_R6NBQ3
UniRef90_E8R2R9
UniRef90_K6BJF1
UniRef90_UPI00020D9D67
UniRef90_H6LJP0
UniRef90_R7BEY6
UniRef90_S3WTL7
UniRef90_A0A023NPS3
UniRef90_G4CPU9
UniRef90_M5DKZ7
UniRef90_UPI00036FEF78
UniRef90_C9P1H4
UniRef90_W9AZC8
UniRef90_C0W7A6
UniRef90_F6CPQ5
UniRef90_E3GWL1

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

UniRef90_Q1LR21
UniRef90_E4RZ11
UniRef90_C2CFL3
UniRef90_UPI00037B4935
UniRef90_G8X8F7
UniRef90_S7XCM3
UniRef90_N1UFY7
UniRef90_UPI00047BE3CD
UniRef90_E3ENU8
UniRef90_U2Q4V3
UniRef90_A8MFH3
UniRef90_A4U5T6
UniRef90_E8LNP0
UniRef90_I4EMH0
UniRef90_D4DRB5
UniRef90_H7CYV4
UniRef90_UPI0003731F9A
UniRef90_X1VNR0
UniRef90_A1AN30
UniRef90_F7V043
UniRef90_G0UHD9
UniRef90_UPI000471D18E
UniRef90_UPI00034554B9
UniRef90_B8DJJ4
UniRef90_UPI00037A5857
UniRef90_S4NNZ1
UniRef90_M5J5R4
UniRef90_UPI000380ECBE
UniRef90_M4XN10
UniRef90_X0SWV6
UniRef90_L0K7R0
UniRef90_K1X939
UniRef90_T0VAM4
UniRef90_C0DS64
UniRef90_R7AKC8
UniRef90_K2FPK3
UniRef90_U5S956
UniRef90_F2IG96
UniRef90_UPI00047C2FFA
UniRef90_UPI0003FA8D3F
UniRef90_R6PJR3
UniRef90_G2EAQ8
UniRef90_H2G509
UniRef90_B9CKF8
UniRef90_A6TN37
UniRef90_M6CKS0
UniRef90_A6Q7C2
UniRef90_NOAQS9
UniRef90_X1S891
UniRef90_B9EBF0
UniRef90_D4ZGA1
UniRef90_C3KX95
UniRef90_C7X948
UniRef90_UPI0003C7EBBC
UniRef90_I3IPJ4
UniRef90_N1UVG6
UniRef90_Q1QPX2
UniRef90_U2HDU8
UniRef90_D3VHZ9
UniRef90_F2G2Y9
UniRef90_H7ENR2
UniRef90_D8PIZ4
UniRef90_UPI000377F7B1
UniRef90_C4L615
UniRef90_UPI0003782045
UniRef90_UPI000319AEAA
UniRef90_R6FFZ1
UniRef90_S6D432
UniRef90_T0XYT0
UniRef90_UPI00035C4D20
UniRef90_A0A011QA50
UniRef90_UPI0002F319CE
UniRef90_UPI00020D978F
UniRef90_C0QB39
UniRef90_Q2GHC2
UniRef90_Q2VZC1
UniRef90_R6NBQ3
UniRef90_E8R2R9
UniRef90_K6BJF1
UniRef90_UPI00020D9D67
UniRef90_H6LJP0
UniRef90_R7BEY6
UniRef90_S3WTL7
UniRef90_A0A023NPS3
UniRef90_G4CPU9
UniRef90_M5DKZ7
UniRef90_UPI00036FEF78
UniRef90_C9P1H4
UniRef90_W9AZC8
UniRef90_C0W7A6
UniRef90_F6CPQ5
UniRef90_E3GWL1

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

UniRef90_Q1LR21	S	T	T	Q	I	Y	T	H	V	A	170
UniRef90_E4RZ11	L	T	T	E	I	Y	T	H	L	D	
UniRef90_C2CFL3	S	T	T	Q	I	Y	T	H	L	D	
UniRef90_UPI00037B4935	S	T	T	Q	I	Y	N	Q			
UniRef90_G8X8F7	T	T	T	E	I	Y	M	H	L	D	
UniRef90_S7XCM3	T	T	T	E	I	Y	M	H	V	D	
UniRef90_N1UFY7	N	S	T	Q	L	Y	T	H	V	A	I
UniRef90_UPI00047BE3CD	S	T	T	Q	R	Y	T	H	L		
UniRef90_E3ENU8	T	T	T	Q	I	Y	T	H	V		
UniRef90_U2Q4V3	T	T	T	E	V	Y	T	H	V	E	
UniRef90_A8MFH3	S	T	T	Q	I	Y	A	Y	V		
UniRef90_A4U5T6	E	N	T	A	L	Y	T	K	V	A	
UniRef90_E8LNP0	A	M	T	Q	R	Y	A	H	L	C	V
UniRef90_I4EMH0	S	T	T	Q	I	Y	Q	Q	V	A	
UniRef90_D4DRB5	S	T	T	Q	I	Y	T	H	V	A	
UniRef90_H7CYV4	S	T	T	L	I	Y	T	H	V		
UniRef90_UPI0003731F9A	A	T	T	Q	I	Y	T	H	L	D	
UniRef90_X1VNR0	S	T	T	Q	I	Y	T	H	L		
UniRef90_A1AN30	T	M	T	L	R	Y	S	H	L	A	
UniRef90_F7V043	S	T	T	Q	I	Y	T	H	V		
UniRef90_G0UHD9	S	T	T	Q	I	Y	T	H	V		
UniRef90_UPI000471D18E	S	T	T	Q	I	Y	T	Y	V	A	
UniRef90_UPI00034554B9	S	T	T	Q	I	Y	T	H	V	A	
UniRef90_B8DJJ4	A	A	T	E	I	Y	T	H	V		
UniRef90_UPI00037A5857	S	T	T	Q	R	Y	T	H	L	D	L
UniRef90_S4NNZ1	S	T	T	Q	I	Y	T	H	V		
UniRef90_M5J5R4	S	T	T	Q	I	Y	T	H	I		
UniRef90_UPI000380ECBE	R	T	T	E	I	Y	T	H	V		
UniRef90_M4XN10	S	T	T	Q	I	Y	T	H	L	D	
UniRef90_X0SWV6	S	T	T	Q	I	Y	T	H	I		
UniRef90_L0K7R0	S	T	T	Q	I	Y	T	H	V	D	
UniRef90_K1X939	S	T	T	Q	I	Y	T	H	V		
UniRef90_T0VAM4	S	T	T	Q	I	Y	A	H	V		
UniRef90_C0DS64	N	M	T	K	R	Y	I	R			
UniRef90_R7AKC8	A	T	T	Q	M	Y	A				
UniRef90_K2FPK3	S	S	T	Q	I	Y	T	H	V		
UniRef90_U5S956	S	S	T	Q	I	Y	A	H	V		
UniRef90_F2IG96	T	T	T	E	I	Y	T	H	V		
UniRef90_UPI00047C2FFA	A	T	T	Q	M	Y	T	H	L		
UniRef90_UPI0003FA8D3F	K	T	T	E	I	Y	T	H	V		
UniRef90_R6PJR3	G	T	T	E	V	Y	T	H	L	E	
UniRef90_G2EAQ8	E	T	T	M	I	Y	T	H	V	A	
UniRef90_H2G509	N	T	T	Q	I	Y	T	H	V		
UniRef90_B9CKF8	S	T	T	Q	I	Y	T	H	L	S	I
UniRef90_A6TN37	K	T	T	E	I	Y	T	H	V		
UniRef90_M6CKS0	N	S	T	Q	I	Y	T	H	V	A	I
UniRef90_A6Q7C2	E	T	T	Q	I	Y	T	H	I		
UniRef90_NOAQS9	S	S	T	Q	V	Y	T	H	V		
UniRef90_X1S891	A	T	T	Q	K	Y	T	H	L	N	L
UniRef90_B9EBF0	A	T	T	E	I	Y	A	H	V		
UniRef90_D4ZGA1	S	T	T	Q	I	Y	T	H	V	A	
UniRef90_C3KX95	A	A	T	Q	I	Y	S	S	I		
UniRef90_C7X948	S	T	T	Q	I	Y	A	K	V		
UniRef90_UPI0003C7EBBC	T	T	T	Q	I	Y	T	L	V	T	V
UniRef90_I3IPJ4	S	T	T	Q	I	Y	T	H	V		
UniRef90_N1UVG6	T	T	T	Q	V	Y	T	L	V		
UniRef90_Q1QPX2	D	T	T	A	L	Y	A	R	V	A	
UniRef90_U2H DU8	T	T	T	E	I	Y	T	H	I		
UniRef90_D3VHZ9	S	T	T	Q	I	Y	T	H	L	D	
UniRef90_F2G2Y9	S	T	T	Q	V	Y	T	H	L	D	
UniRef90_H7ENR2	S	T	T	Q	R	Y	T	H	I		
UniRef90_D8PIZ4	L	M	T	Q	R	Y	A	H			
UniRef90_UPI000377F7B1	S	T	T	E	I	Y	T	E	V	S	V
UniRef90_C4L615	S	T	T	G	R	Y	T	H	V		
UniRef90_UPI0003782045	S	T	T	Q	I	Y	T	H	T	D	
UniRef90_UPI000319AEAA	S	S	T	Q	I	Y	T	H	V		
UniRef90_R6FFZ1	K	T	T	E	R	Y	V	H	L	A	
UniRef90_S6D432	S	E	V	E	R	Y	T	R			
UniRef90_T0XYT0	Q	M	L	K	R	Y	T	H	L	K	
UniRef90_UPI00035C4D20	Q	T	T	Q	I	Y	T	H	V		
UniRef90_A0A011QA50	S	T	T	Q	I	Y	T	H	I		
UniRef90_UPI0002F319CE	S	T	T	Q	V	Y	T	H	L	D	
UniRef90_UPI00020D978F	S	T	T	Q	V	Y	T	H	V		
UniRef90_C0QB39	A	M	T	Q	R	Y	A	H	L	A	
UniRef90_Q2GHC2	S	T	T	Q	I	Y	T	H	L	D	
UniRef90_Q2VZC1	S	T	T	Q	R	Y	T	E	V	D	
UniRef90_R6NBQ3	A	S	T	Q	V	Y	A	N	L		
UniRef90_E8R2R9	T	T	T	Q	I	Y	T	Q	V		
UniRef90_K6BJF1	Q	M	L	K	R	Y	T	H	L		
UniRef90_UPI00020D9D67	S	T	T	Q	M	Y	T	H	V		
UniRef90_H6LJP0	T	T	T	Q	I	Y	T	H	V		
UniRef90_R7BEY6	N	V	T	Q	I	Y	T	H	V	A	V
UniRef90_S3WTL7	T	T	T	Q	I	Y	T	Q	V		
UniRef90_A0A023NPS3	A	M	T	E	H	Y	V	R			
UniRef90_G4CPU9	S	T	T	Q	I	Y	T	H	V	A	
UniRef90_M5DKZ7	Q	M	V	R	R	Y	A	H	F	S	V
UniRef90_UPI00036FEF78	S	T	T	Q	I	Y	T	H	L	D	
UniRef90_C9P1H4	S	T	T	Q	I	Y	T	H	V	A	
UniRef90_W9AZC8	T	T	T	Q	I	Y	T	H	L	D	
UniRef90_C0W7A6	A	T	T	Q	R	Y	T	H	V		
UniRef90_F6CPQ5	N	V	T	A	N	Y	A	H	I	A	
UniRef90_E3GWL1	S	T	T	E	I	Y	T	K	V		

	1	10	20	30	40
UniRef90_F5YGL4		LWEGEMADFDLPLDTPALRDRDKALILITMYSAGLRLIVS			
UniRef90_E6J5A7					ELLYSAGLRLIVS
UniRef90_K0HQG5	KTL	QAQVVEASLLLEA	PDPLTGL		
UniRef90_UPI00035F06D7		VITSEQQV	ELLENAPDDTGL		
UniRef90_D1AX16		LSVEEINLSLI	QSFNHEPRRN	QLIVKFLVA	TGARRIVS
UniRef90_W4VEW0					MYATGLRV
UniRef90_UPI000381E5DE		VVLGQAETRAVLDASDGS	PVGLRDI	ME	ELLYATGLRV
UniRef90_S4H4T3					ELLYATGMRRV
UniRef90_E1R041	KTMTD	PDI	QCQLLGA	CDE	DGLRDRRALI
UniRef90_R7F1R6					ELLYATGMRRV
UniRef90_C6I131	RR	LKEGELER	MLLAASKS		PVLPALIRLAI
UniRef90_K0K8D9	KAL	LVDDVLRLL	DVPGT		PRDRALLELLYSS
UniRef90_D3AC86	RT	LSKMEVNRQLI	ATVSK	EYLRDM	CLLEILFC
UniRef90_D1YIE1		SPEQVREFL	NAAKK	DSEIAYMYF	KLLSSTGLR
UniRef90_C9MYB7	E	ILLTKKEMKQ	IVDAN	CHT	PEGMKLLITKLI
UniRef90_F2I4X4		EAELEDP	LFENAKG	PT	PRALDKALLEFLY
UniRef90_F7XWP5		EATKII	ETLP	KQGLRDK	AVLMLLYG
UniRef90_Q25517		VLLTP	KEVDA	LALAI	PKTSSAR
UniRef90_G7LSH9	RR	LTSQEE	RRITRY	FKDKN	PEVLAIFRLAI
UniRef90_I1Y146	RR	LESGNE	QERILDA	AKKYGG	EISAIIRFAI
UniRef90_B7KE90		LTSET	EYNTT	LIEKA	NQNNQRDR
UniRef90_Y1CW68	R	TRYTD	NEEYNT	LISV	SVPV
UniRef90_Q989G6		VLSRDE	VARLL	NATTC	CKHQAAL
UniRef90_K0YVC7	R	VISAAE	MAKLLG	AYEPE	EDMRNKA
UniRef90_UPI000474FAF1		LYKEEL	AQLLF	MASDP	NLGGQRN
UniRef90_A9E9Q5		LS	EEVDRLL	DAARN	SGRALA
UniRef90_W4CAR9	K	VYTKEE	IHLLE	FLVQNE	PFHWRMMIT
UniRef90_D0Z997		LDVDDV	NRLLE	IVLQNE	PFHWRMMIT
UniRef90_E4TY18					ELLYTGM
UniRef90_W9V8S5	R	FLS	DDER	QRL	LALAIITL
UniRef90_R6WG44		LD	EEVNE	LLTMAP	CKS
UniRef90_R7A9D1		S	VQD	LKVLF	DSFNS
UniRef90_UPI000472201C		VLLAR	DEVER	FLKAT	VSDLE
UniRef90_Q164J2	K	TLSE	AEVDR	LLEART	S
UniRef90_D8GR56		LT	IEEV	DKLLEA	PNNKGI
UniRef90_A0A015MGN3	K	VM	TKAE	VERL	LESPP
UniRef90_C9YGC9	K	TL	TEA	QVEAL	LLNA
UniRef90_UPI0002EBED23	E	VFS	QQEIR	RLKAP	KLLKH
UniRef90_F4LTA4	R	G	YLT	EEEF	NKLA
UniRef90_NOAR10		ES	FTPE	EENK	KLAVAV
UniRef90_R6PCG2	K	YLS	LD	DSKK	LLDVA
UniRef90_C6BT31					DEDE
UniRef90_U2WQU4		LS	EEDT	GHLLE	ATQRLPE
UniRef90_R6KFR6	R	S	YMTIE	EEV	RALIA
UniRef90_UPI000465588F					ATPMK
UniRef90_K2G532	E	F	LD	GEE	VERLLE
UniRef90_F5WT55					EASAPG
UniRef90_G9AV45	R	D	R	YTD	KIEYERL
UniRef90_Q08VP6					VEEAS
UniRef90_UPI00047E800A		L	N	V	DET
UniRef90_F5YGL0		LS	Q	EGV	ENLL
UniRef90_R8ALG1					VGVHLL
UniRef90_U2V629	E	ILL	TK	EMKQ	IVDN
UniRef90_R5AB95		TL	AD	QDLTA	FLRE
UniRef90_D9VF68		VLR	AE	QADTA	FLM
UniRef90_G6B1C7	R	S	YMT	IE	EV
UniRef90_UPI0004128D98	R	E	YLT	LE	ENL
UniRef90_R7IY72	K	Y	LS	LE	QS
UniRef90_S7X2R5		V	F	S	KEE
UniRef90_UPI000479BFA0	K	A	L	T	V
UniRef90_G1UPM0	E	N	L	T	P
UniRef90_UPI000378870D		V	L	A	I
UniRef90_A0A022LVX8	R	V	V	S	A
UniRef90_UPI000477B569					DQV
UniRef90_C6M0Z2		I	T	E	A
UniRef90_Q3SFX5		LS	P	D	A
UniRef90_H5UN85					CARLL
UniRef90_M1MRA0	R	Q	R	L	T
UniRef90_U4TNX3					KSEI
UniRef90_S0P1L3					QSLF
UniRef90_D5B973	R	E	Y	L	T
UniRef90_W7ZX78	D	F	L	S	A
UniRef90_A0A058TA61	R	A	R	L	S
UniRef90_UPI00035E92BB	D	V	M	P	E
UniRef90_UPI000472C820					EEEMR
UniRef90_U2Z1N7		T	L	S	R
UniRef90_W3RN26		L	T	V	E
UniRef90_J3JJB2		V	L	T	A
UniRef90_B1QYK5	R	K	S	L	T
UniRef90_B1I259		V	L	L	Y
UniRef90_G2FQD2		V	E	E	S
UniRef90_UPI0003748A99					RVA
UniRef90_F2NBQ7		V	I	S	I
UniRef90_R8AXW1		V	D	Q	L
UniRef90_UPI000478BE72		V	E	A	V
UniRef90_V2QC62	R	D	R	L	N
UniRef90_M1MSV2	K	T	L	S	Q
UniRef90_C5CAL4	R	A	L	P	V
UniRef90_S2VTC5	K	T	L	T	V
UniRef90_UPI00046CB3C8		T	L	S	P
UniRef90_F8AAD9	R	F	L	S	P
UniRef90_F8NBF2	R	E	F	L	T

UniRef90_F5YGL4 V S L S L K A L D 50 S G G R V T G K G 60 D K E R I V F F S D E A K E A L A E Y L 80
UniRef90_E6J5A7 C G L D V D D V D E R S R L R V V I G K G D R E R A V P Y G E A P A D R A L R Y L D
UniRef90_K0HQG5 V T L K T F F Q L D N E A G V L R V M T G K G S K E R L V P F G E E A R A W L L R Y L N
UniRef90_UPI00035F06D7 V D L P F E Q Q L N E A G L V Q V M T G K G S K E R L V P I G E V A I E W L E R Y L K
UniRef90_D1AX16 I N L E I K D L I E N S D F E F A K G K G S K E R R F V P I Y L E L E K E I K E Y I
UniRef90_W4VEW0 I N L K M E D L H M G F R V R C F G K G S K E R L V P L G D I A N D A L E I Y L N
UniRef90_UPI000381E5DE C A L D L D D V D P G F R V R V F G K G R K E R S V P Y G V P A G A A L D G W L
UniRef90_S4H4T3 T S I N V Q D M D F E N H T V K V T K G N K K R V V P F G V P A A N A C K E W I
UniRef90_E1R041 S R L D V G D I D R R K Q I K I L G K G A K E R Y V V P L Y D M C I D E L D A Y L
UniRef90_R7F1R6 I G I Q L E D I D R R K Q I K I L G K G A K E R Y V V P L Y D M C I D E L D A Y L
UniRef90_C6I131 A C V T W N D V D R R T T L T L G T T K N G D R R I V P L S K E A V R I L S A L P
UniRef90_K0K8D9 V G L D V D D V D D T T E A S F L D G K G G K Q R L V P V G R P A L A A L E A Y L
UniRef90_D3AC86 A A L N I E D Y D S G E A S F L I H G K G N K E R M L F I S S I T V N Q K L Q K
UniRef90_D1YIE1 L A L K W D D I D F E K N V I H V T K T I N V G F N N V E L I A P K T K E S Y
UniRef90_C9MYB7 L N L E I K D V D D Y E F I K V L G K G S K Y R I P I Y D S L E N E I K N Y L A
UniRef90_F2I4X4 T N L T I T Q V D D K N S I A L L H G K G S K D R Y V P F G S Y C K K A L E Y L D
UniRef90_F7XWP5 L F L N K N D F R D S M E S I V K G K G K R E R M V P L P Q V K S A V M D Y M
UniRef90_Q25517 C G L C I G D V I S D D F L R V T G K G S K T R L V P L G E R A C K T I D A Y L C
UniRef90_G7LSH9 L S L R W E H I D L G I A H V P L D T K N G D S R T V P L S T S A L N I L A E I P
UniRef90_I1Y146 A K L R W E N I D K R V V T L P L D T K N G D S R T V P L S T S A L N I L A E I P
UniRef90_B7KE90 V G L N W R D L N N G G L A I V L G K G G K T R V V L P E K L W L D I Q Q L
UniRef90_Y1CW68 L D L K K S Q I L D D G G L I V Q S K T A V S Q I K A W T E R L S K A I A M A
UniRef90_Q989G6 S A L K V A D I D S E R M L I R V E R G K G G R Y R N A M L S Q D L L L L R Q
UniRef90_K0YVC7 S D L L A C D V D F D S Q A K V F Y G K G K E R I P L H D L A V D S M R T Y A W
UniRef90_UPI000474FAF1 Q G L T I D A A R D P R I L L I S G K G G R E R L V P L S E P A R D A L A A W L
UniRef90_A9E9Q5 V S L P V S A A R D P R I L L I S G K G G R E R L V P L S E P A R D A L A A W L
UniRef90_W4CAR9 L G L E W R H I D N G V I D I R Q S I T A Y K D G E P L I K E P K T K N R K E R
UniRef90_D0Z97 V G L D C R H I D D L T G E V I W V G I T A Y K D G E P L I K E P K T K N R K E R
UniRef90_E4TY18 T H L R L S D I S E G W S R I H G K G S K E R D R R V P L S G P G L E L L K K R A
UniRef90_W9V8S5 L G L D W K D V D R S N R F V L L L G K N K E R R V P L S G H T C C A A L S G Y Y
UniRef90_R6WG44 V G L T L E R V D D S N R F V L L L G K N K E R R V P L S G H T C C A A L S G Y Y
UniRef90_R7A9D1 C S L K R N D V H S E K I L K V T G K G D K E R I I P I V D A C V Q Q M E L Y L
UniRef90_UPI000472201C V A L T I K D L D R M V I H V R G S G K G R M D R Y V M L S E Q L L G I L R A Y W
UniRef90_Q164J2 L S L T I Y D I D L K L S Y V C R S L K E E E R I V P I G S V A V K Y L K N Y L
UniRef90_D8GR56 V S L D G E H V N E P E M G F V R C T G A G G K E R I P L G R V A S S A L T L Y
UniRef90_A0A015MGN3 I T L R M V Q L N E G M L R V T G K G S K E R L V P F G E V A G L W L S R Y L A
UniRef90_C9YGC9 V T L R M V Q L N E G M L R V T G K G S K E R L V P F G E V A G L W L S R Y L A
UniRef90_UPI0002EBED23 I N L K I T D V D F D Q V H I R E S K C K K D R Y V P V S I V L R G L T L Y F
UniRef90_F4LTA4 I H L K L D D V D N E K V I H I T K G S G K A R D L P I N D K L Y D L K N Y I
UniRef90_N0AR10 V N I K R N N V D L K A G F I S L E S A N T K T R K G R T V P I S T K T R L I
UniRef90_R6PCG2 V G I N I K D I D E C K L N V I G K N K E R T I Y L N N A C M K A L S D Y L S
UniRef90_C6BT31 C S I S P S E I D L K N K K L I I N G K G N K Q R L I P L C E N N S L K I L K E
UniRef90_U2WU04 I S L K R S Q V R E M Q R F L I S G K G K E R L V P L N D P A L N E A L T Q W M
UniRef90_R6KFR6 I K L Q W K D V F V D R G Q Y R L S V S M Q K T K E P I Y L P L P E A L K W M P
UniRef90_UPI000465588F C A L S P Q T V Q L G K L R L L I H G K G K E R V I Q I I D T P E L L E L M R I
UniRef90_K2G532 I G I N R D Q I N L G R Q E F S V R G K G D K R I V F I S D A E E S Y L N K R I
UniRef90_F5WT55 V H L E F S Q V Y D Q K W L R L L G K G N K E R M I P L S I D A I D G L S E Y I
UniRef90_G9AV45 L S M K K S Q I M E E G I L I K Q S K T S V A Q I K G W S P R L T S V I E M A
UniRef90_Q08VP6 L A L E W T D V F E E G I L H I R Q S E W Q G H V T V P K G G R D R R V P M T K R
UniRef90_UPI00047E800A T G L N T N D I L S D Q Q L R V L G K G S K Q R L I P I G R K A I E A L I Q H W S
UniRef90_F5YGL0 V S L N I R D L D Y E G I A R V R G K G N R E R L V P F G G E A R A W L K R Y L E
UniRef90_R8ALG1 V G L N C N M L D L A G E V Q V G K G S K E R R V P F G R T A L A W L E R
UniRef90_U2V629 I L N L E I K D V E N Q D Y E F I K G K G S K Y R I I P I Y D S L E N E I K N Y L
UniRef90_R5AB95 L G L K W Q S T I T V V R R Q I S R I N T K N A Y R V I P L G E Q A L
UniRef90_D9VF68 C G L D V A S V D F R V L S V V G K G D K E R T V P F G V P A A E A L T A W L E
UniRef90_G6B1C7 V G L K W K D V F L D N G Q Y R L S V A M Q K T K E P I Y L P L S N E A L K
UniRef90_UPI0004128D98 Q K L T W N E I E Q A K I N F T Q K K T K G V E Y M P L S K Q A L Q L C G E I G
UniRef90_R7IY72 V G I N I R D I D E N K M T V I G K G N K E R V I Y L N K S C I N A I N D Y L A
UniRef90_S7X2R5 A G L K F G D I D S D R M Q L R V R G G K G N K D R Y T L L S R E L L
UniRef90_UPI000479BFA0 L G I L R G E V G G R D T L R I T L G K G K T R L V P V L P V V S E A I E A Y L
UniRef90_G1UPM0 L N L Q W G D L D G F E R G F I T L R K K Q K T E T I P M N E Q A R T I L D G L
UniRef90_UPI000378870D V N L K I K D I H R M V I N I R G A K G K K D R I V A L S E G T L E L L R S Y Y
UniRef90_A0A022LVX8 V G I D V T D L D R G R L T V R G K E R V P F G V P A R D A L E A W L E R G R
UniRef90_UPI000477B569 C G L D L S D L D E G R L T V R V F G K G A K E R A V P Y G L P A Q R A L D D W L
UniRef90_C6M0Z2 V K L Q L G D L D L N R G C I R T G K G D K L R I V P M G E E A V Y W V E R Y C
UniRef90_Q3SFX5 V G I D L P D L D L A S G E A R V T G K G K T R L V P V G R Q A V A I T A W
UniRef90_H5UN85 V G L D V D D V D D L E R T A R V V G K G D R E R V V P F G T P A R D A V R R W L T
UniRef90_M1MRA0 A S L K V T D I D S E K M Q L F I R N A K G S K D R Y A L L S Q A N L E I L
UniRef90_U4TNX3 T G L T V G Q L D F S G V V L H G K G Q K D R Y V P F D A E T K K R L Q T Y L
UniRef90_S0P1L3 A S L R V D A I D Y T M Q V L K I G K G N K E R I V P F N D A H K H A M Q T Y E
UniRef90_D5B973 H K L T W S E V R D E G I D K S D N E I F R I V F K Q K K T E G M E Y L Y I S K
UniRef90_W7ZX78 T S L E L D H V H M G F L R V I G K G N K E R I V P L G S Q A S K A L T A Y L E
UniRef90_A0A058TA61 G S M L F K D E R D G F L H V I Q S K T G A R L R I S T S L R L E A I G L D L S
UniRef90_UPI00035E92BB V G I D L E N I D N E R W L K V R G K G N K E R Q V P V P E R A A A A V E R Y L
UniRef90_UPI000472C820 E H L T L R Q I D R N Q M I L V H G K G N K D R L V P F N T R T Q Q A L T A Y L
UniRef90_U2Z1N7 V T L P V A A L R D P E M L V R G K G G R E R M V P L S R P A W L A R R D A
UniRef90_W3RN26 I L L K R R D V P A G D V L V T G K G N K T R M V P V L Q T V L A L T A E Y V
UniRef90_J3JJB2 V G L D V T D L D H S Q R T L R V G K G R K E R T V P Y G L P A A R A L E G W L
UniRef90_B1QYK5 V S C N I K D L D L N D N T L K V I G K G D K E R T V C F T D K A K L Y I R K Y
UniRef90_B1I259 V G L D L A D L E L K Q A Y V R V G K G N R E R L L P L G G Y A V E A L K R Y L
UniRef90_G2FQD2 V S T R P E D I Q I G E R K G K V V V R N G K G M K R R E V P I N S D G R
UniRef90_UPI0003748A99 C G L D L D D I D R N T L L V L G K G N K E R T I P L G N P A M K A L N N W I K
UniRef90_F2NBQ7 I G L D V R D L H D E E F L H A L G K G S K E R L V P I T G T A A A M E A Y M
UniRef90_R8AXW1 A G L N L D S V D C R G G E I R V L G K G N K E R V L P V G R K A L K A L S A W
UniRef90_UPI000478BE72 V G L D V D D I E T D A S V R L H G K G K E R I V P V G R Y A V E A V T A Y L
UniRef90_V2QC62 V N M K K S N I K G N V Y Q L D G N E T K S G K G Q L I Y L H Q D L M N E L N K
UniRef90_M1MSV2 V N I N L N D L N F N D Q T L I N G K G R K E R L L Y I S S D V I D T L K T
UniRef90_C5CAL4 V G A Q T G D D G G Q P V R L F G K G S K E R V V P L G S Y A A A L D A W L
UniRef90_S2VTC5 T G L N L S H L N E R T L R V L G K G N K E R V V P Y G K P A H D A L R I W I E
UniRef90_UPI00046CB3C8 C D L T L G F V D L S M G Y V R V G K G S K E R V V P L G E R A A E A L R A Y R
UniRef90_F8AAD9 T S L T W G D I D L T Q G I F I R D P K N K T S R V A Y M T N E V Q
UniRef90_F8NBF2 I R L K W D N I D G G W M L H F R T K K T R K E S F L P I S D E A V I E L C G E R

UniRef90_F5YGL4 A R Q N R R I K A E H P T D R L F V N R R R G G P I S V A G V R W I T A K Y A E R S T
UniRef90_E6J5A7 T G R P A L I T N A R Q S G T D A L L L G A R R G S G R L D P R A A R R I V N E V S E A T
UniRef90_K0HQG5 E A R G A I L G G Q Q T P D D L F V I S T R Q R G S G M T R V M F W V I K K W A Q V A
UniRef90_UPI00035F06D7 E S R P V L V L G Q R W I P D S L F I S T R I G R T M T R Q T L W H R V K N L A Y D A
UniRef90_D1AX16 R E I R P K I K G S E K S Y L L F P G I L R R E N F W K I L N K H A
UniRef90_W4VEW0 K A R S Q F V K Q K A T P D T V F V N H H G N R P L D S R Q G F W K I K D I A A T A R
UniRef90_UPI000381E5DE D V J A R P K L F R P G S P A L F L G A R G A R L I D Q R T V R R L V H A R A
UniRef90_S4H4T3 E H G R S A L L E K H A E T S Q A L F L G A R A K R I D Q R V R S I V H E A
UniRef90_E1R041 L T A R R P A L V T V R G S E A L F V S T R R G R M S A A A L R E A F E R R V R L A
UniRef90_R7F1R6 E A R P S L T G K K K N N D L L L N Q N G G P L T T R G V R Y L L N K I I Q K T
UniRef90_C6I131 R R L D G K L W G I K P D W M T H G F R D A L F R A R K A Y E K E C K E K G T S
UniRef90_K0K8D9 V R A R P G L V K R G T P A L F L N A R K G R L S R Q T A W Q V L K T A A R R A
UniRef90_D3AC86 W I R T R Q E F N L Q D D A L F V N K Y G K R L S I S L E N L F Y K Y A R L A
UniRef90_D1YIE1 R D V P M K Y R S N I Y D F V F C K A N G D H L N L A T P A H W L Q R I Y K N N
UniRef90_C9MYB7 I Y R P K L K N A S E S E Y K I F P N T R R E K F W K D D L K T I A
UniRef90_F2I4X4 S G R P V L L K G H D H E Y I F V N S R R G E A L T P S G V T Y I L N D L V K K S
UniRef90_F7XWP5 E S C P Y Q L E H D Y I F V G V G G K L N P D V F R A N L R G L K K S L
UniRef90_Q25517 P F R E T F Q K Q R P E E H H F L S V R G H K L E R S C V W R R I L H Y A K Q L
UniRef90_G7LSH9 R N I D I Y V S G C H G T G R V F T Y S S G F K S A W R T A
UniRef90_I1Y146 P K T D D A V F I S R K K N R I S R K T V H Y M I K Q Y A K Q A
UniRef90_B7KE90 D S L P L N S G M V S L Y V I H Q Q S G S R Y T R D A F N S Q W M K A K K V A
UniRef90_Y1CW68 W W K V G R Q Q G V M H R D G W L F P G Q H A M K P I S T R Q L Y R V V E A A
UniRef90_Q989G6 I A R P A L L G G K E C P H F F V S T R G N K M T T D A L R K M F K K S L L A
UniRef90_K0YVC7 A E G R Q Q K S N L C P S S A V F L N A K G T P L T D R G I R F L N K I V K D A
UniRef90_UPI000474FAF1 V V R D K A D K G K P P A R H L F P S R G V M G H L T R H R F Y L L I K E F A V
UniRef90_A9E9Q5 M K L K N I W K R D E H F F L F F N E E G K P F Y P E T S P Y L H F R N L L K H
UniRef90_W4CAR9 S L R L S L Q P Q D D A L F V S R L G G R I S V Q K R F A E W G V K Q
UniRef90_D0Z997 T M V Q E Y Q K I N P S R E Y V F E L K G E K L S E N S L R Y T I I K A F A K V
UniRef90_E4TY18 E E R R G M G D E G R L E T G L V F P G R K N K S E P V D L R T P E E T A L K R A
UniRef90_W9V8S5 P V R Q M L K Y H P E H F L F V N N R G G R L T D R S V R R I L E K Y I
UniRef90_R6WG44 N L V R K N W Q K K T L S N F F I N Q Y G R V L T R Q Y V H N L I K K C E E C
UniRef90_R7A9D1 R C A R P Q H F L P G P D P A R P I T V R S L Q R A C R L L A A E T A
UniRef90_UPI000472201C D E K E A Q K K T E G H P P S R F L F A S R G V S G H L T R H R F Y L L I K E L
UniRef90_Q164J2 N I R H K L N I E Y N L D V L F L N L R G V Q M S R Q G F W K I V K Y A K E A
UniRef90_D8GR56 L S S A R E R Y E K P D R K Q F L N H L G T R M T R Q G F W K I L K Y A R E S
UniRef90_A0A015MGN3 G P R A E L L A A K Q S A D V F V T V R R G S G T A M S R I M F W G L V K R Y A
UniRef90_C9YGC9 E T S G P R E W L F N G K I T S R G Q Q T S R Q G I R Y A F R A A I R K A
UniRef90_UPI0002EBED23 E N I R D A K S S R F F A L K S T G K V S S S Y V N R L I K E A A Y E V
UniRef90_F4LTA4 K E Y I S I T D N Y S S D F L F L T Y E G E P L S S N T V R K N L A E I G E K A
UniRef90_NOAR10 V R P K K H D K K Y S E K A L F L S E R R E R I S N R T V Q Y T I N K E L S K A
UniRef90_R6PCG2 Y S L L Y Q Y A L H D S T S E F L N R D L K P L T D Q S V R R I I K K Y S E I A
UniRef90_C6BT31 R Q R D A D V T D R H S P L F P S R K V G H L T R Q R F A Q I L D D L A E K A
UniRef90_U2WQU4 A R G D K A P D D N V F D L P S P A M V N I L I K P W A K A A
UniRef90_R6KFR6 Y Y Q T F G G K I Q V S S T V L F N N R G R A L R L S P Q S V R R I I R K Y A K K L
UniRef90_UPI000465588F D I D P A L Q F I R F S N K K T S E N N E T K R L T S R S I Q R I V K Y A A K A
UniRef90_K2G532 N I R P P Q W M I Q P I E Q I F I N A K G K G I S R Q Y I D S M I K S R C K E M
UniRef90_F5WT55 S S L Q L K P G M S S V F I I H Q P N G S G Y T R D G F N S R W S A A R D E A
UniRef90_G9AV45 L A A L L A N R H L K G P R V L Y R D N G Q P A T R A A V S R W M A K A Q K R A
UniRef90_Q08VP6 Q V R N T L L K G E Q N A L F I S Q H G N R L S N R Q V A N R L Q R W T S E
UniRef90_UPI00047E800A D G R P K L J A K S S R S P A L F L G R T G K R F S R K G I W R N Y A A L A G L A
UniRef90_F5YGL0 W L J A L R P S F A P H D E A L F V S Q R G T R I S T R N V Q K R M A E W G I K
UniRef90_R8ALG1 A T Y R P K L K N S S E S F K I F P N T R R E K F W K D L K T I A
UniRef90_U2V629 A V L Q E Q K A K T V S E Y V F P S P S G G P I S P D S V R N M L R R V L K R A
UniRef90_R5AB95 D G R P A L J A G E T P K A V L F L G V R G K R L D P A H I N V C L K P W A V I A V
UniRef90_D9VF68 W M P E Q G N K T G N D F V F H L P A H I N V C L K P W A V I A V
UniRef90_G6B1C7 L P A D L T F K N L T N P A W L S R P L K K W I E S A
UniRef90_UPI0004128D98 S R P A P S L I K R D S K N S F L S E Q K K R I S N R T V Q L I I T K E L E A A
UniRef90_R7IY72 E K L R E Y Y R Y R P K T Y L F E G R G K A Y S K R S V Q D L F K I L L I E R
UniRef90_S7X2R5 A L C P Y V L H A E E R L F R G A R G G P L P R N I V Q R Q V E R L R S A L
UniRef90_UPI000479BFA0 S V I K S C R D R V L S K H L V H H T R G T P I K N T L T L A F A E A R D R L
UniRef90_G1UPM0 A V R K P K P G E H A L F L N N R G T R L T D R R V R D L V K F Y A
UniRef90_UPI000378870D D E G R M T Q A D E P H D F V F V N H R G E Q L T I N G F R Y L I L N D L L K R S
UniRef90_A0A022LVX8 A E A E A V A A G K P S K F L F P A R G R D G H L T R Q S F F V L I K D L R A A
UniRef90_UPI000477B569 S M C P Y A L A P D K P I F L G A R G G P L S P R I I Q L A M A R L R G A L
UniRef90_C6M0Z2 S R R A E L C A P D A A A A L F L G M R G R R I S R R A V R D V V H R L C A A A
UniRef90_Q3SFX5 I E E D R Q K A N E D A L F V S T G F P Y N R I S R R S I E V A I S K I G I R A
UniRef90_H5UN85 A E G R P L G G K K T T A A L F L N Y R G E R L T D R G V R L V F T N Y L K G L
UniRef90_M1MRA0 G M I G P W L A R S K G D Y L F P G S G R S H L A P R T V Q E L I K Y A Y Q A
UniRef90_U4TNX3 N A R P E I V T G S G E A V F L G I N G R K R I D Q R T V R T V V Y E A L E A L
UniRef90_S0P1L3 S G P R H A R R A S P S A V L L N K N G G R L S R Q A V H A C C E R W G R I A
UniRef90_D5B973 M A V R P G L A T E S E Q A L F V S Q R G G R L S N R S I Q S R L S R W G
UniRef90_W7ZX78 V R G R P A L A T H G Q P A L F L N Q R G A R L S R Q S A W A V I R R A A Q R A
UniRef90_UPI000478BE72 H M Q A Y N R D N I F I T K R V K R S F K T A
UniRef90_UPI00035E92BB W I N S R D S L A P K G D A L F I N K Y G D R L S I Y S L E D I Y S K Y I K L A
UniRef90_UPI000472C820 V R G R M A G A A R S T P A L F V N A C G D R L S R Q S A W A V L K R A A E R A
UniRef90_U2Z1N7 T G R P A L V T D S G E Q A L F L G A R G G R V S R Q R V R G R L E S A C A R A
UniRef90_W3RN26 G R P R L L R G R K R C D A V F V S R L G R M S R Q S V W N L V K K R C L E A
UniRef90_C6M0Z2 K M F A G K I P G A P E E Y V F K D R R H G K W S K A F G E S V K T C L K L N E
UniRef90_B1QYK5 K D G Q V F K D F T T G L V A Y H L K K W L K T A
UniRef90_B1Y259
UniRef90_G2FQD2
UniRef90_UPI0003748A99
UniRef90_F2NBQ7
UniRef90_R8AXW1
UniRef90_UPI000478BE72
UniRef90_V2QC62
UniRef90_M1MSV2
UniRef90_C5CAL4
UniRef90_S2VTC5
UniRef90_UPI00046CB3C8
UniRef90_F8AAD9
UniRef90_F8NBF2

UniRef90_F5YGL4 G L Q K N V H P H A L R R H F A T H L L V N A G G C D V R V Q Q E L L L G H H A S T P
UniRef90_E6J5A7 P G A P R V L S P H A L R R H S A T H L L L N E G G A D L L R R H V Q Q E L L L G H H A S T P
UniRef90_K0HQG5 G I T V P L S P H T L R R H F A T H L L L N N H G G A D L L R R T V Q Q L L L L G H H A S T D L
UniRef90_UPI00035F06D7 G I R S K L S P H T L R R H F A T H L L L N N H G G A D L L R R T V Q Q L L L L G H H A S T D L
UniRef90_D1AX16 Q N V G I E K K I H P H L F R H T A T M M I E N G A D L L R R V Q Q E L L L L G H H A S T I
UniRef90_W4VEW0 G I E K N L S P H T L R R H F A T H L L L N E N G G A D L L R R A V Q Q E M L L L G H H A S T I
UniRef90_UPI000381E5DE I D A V D A P D L S P H G M R H T A T H L L L E N G G A D L L R R S V Q Q E L L L G H H A S T I
UniRef90_S4H4T3 A A A N V P D V A P H A L R H S A T H M L N S G G A D L L R R S V Q Q E L L L G H H A S T I
UniRef90_E1R041 G L D A D I S T P H A M R H T Y A T L L L L E N G G A D L L R R S V Q Q E L L L G H H A S T I
UniRef90_R7F1R6 S I E K N D I S P H M L R H F A T S L L L N E G G C D L M S V Q Q E L L L G H H A S T I
UniRef90_C6I131 P D M T F L V N L R F H D L R R H E A T R F F E K K L N L M E V A S I T L G H H A S T I
UniRef90_K0K8D9 G I T A E V S P H T L R R H F A T H L L L N N G G A D V L R R A V Q Q D I L L G H H A S T I
UniRef90_D3AC86 H I N S E A T P H Y L R H F A T Q L L L N N G G A D V L R R A V Q Q D I L L G H H A S T I
UniRef90_D1YIE1 S N L K Q I T I H G F R H T F A T L M L N Q G G A D P K R D V Q Q K I L L G H H A S T I
UniRef90_C9MYB7 K N A K I E K N V Y P H I F R H T A T H L L L N G N G A D I R T V Q Q E I L L G H H A S T I
UniRef90_F2I4X4 A S N L H P H K L R H F A T H L L L N H G G A D I R T V Q Q E I L L G H H A S T I
UniRef90_F7XWP5 G L P E T S P H A F R H F A T H L L L S Q D G D L L R T I Q T T L L G H H E S L L
UniRef90_Q25517 T H K Q V S P H S L R H F A T H L L L D N K G A D L R V I Q E M L L L G H H A S L L
UniRef90_G7LSH9 L Q V M A I E D L H F H D L R H E A S R L F E L G T N V M E I A A I T G H H K S M
UniRef90_I1Y146 N I A N L R F H D L R H E A T R F F E M G L N I M E V S S I T G H H K D L L
UniRef90_B7KE90 G L N G N S P H W L R H S A T H S L D I E R G C N L H L L Q Q S L L G H H S N L
UniRef90_Y1CW68 A E K F P E F N F T F H D L K A K G I S D L E D G T D I R I Q V L L G H H A K L L
UniRef90_Q989G6 Q A A D I A K R V G P H T L R R H F A T H L L L E D G T D I R I Q V L L G H H A K L L
UniRef90_K0YVC7 G L D A S L S P H D M R H T F A T H L L L E G G A D L R R S V Q Q E M L L G H H A R L L
UniRef90_UPI000474FAF1 A L T I H I S P H A L R H T A T H L L L N E N G A D L R A I Q T M L G H H A D V I
UniRef90_A9E9Q5 T G G V P P E K V T P H T L R R H F A T H L L L A N G G A D L R A I Q T M L G H H A D V I
UniRef90_W4CAR9 K L P Y I T F H S L R R H T S A T H L L L N G V H A K R A I S E R L L G H H A N I L
UniRef90_D0Z997 G V T S H I H P H K L R H F A T H M L E S S G D L R A V S E L L G H H A S M
UniRef90_E4TY18 G L K V T P H Q L R H T Y A T L L N N S G A S R I A D V S E L L G H H A S M
UniRef90_W9V8S5 G L E D F R W H D L R H S A S L A M N G A S L A E A V A E V L G H H A S M
UniRef90_R6WG44 N M L A L H K N N V S P H T L R H F A T H L L L E H G G A D L R A V Q Q E L L G H H A N L
UniRef90_R7A9D1 K L N P N L S A H S F R H F A S H L L L D G N A D L R I V Q Q E L L G H H S D I
UniRef90_UPI000472201C G L D K M V T V H T L R H F A T H L L L Q Q G V D I R V I Q D L L G H H R I
UniRef90_Q164J2 A V N A G V S P V T P H T L R H F A T H L L L A N G G A D L R S I Q T L L G H H A D V I
UniRef90_D8GR56 N I D K N I N A F T L R H F A V H L L L Q N G A D I K S V Q Q E L L G H H K E D L
UniRef90_A0A015MGN3 G I T T E I T P H T L R H F A A H L L L E N G A D L R S V Q Q E M L L G H H A D I
UniRef90_C9YGC9 L Q A G I R V P L S P H T L R H F A T H L L L N H G G A D L R S V Q Q M L L G H H A D I
UniRef90_UPI0002EBED23 G I K K D V C I H T L R H T A T H L L I E M G L D I M S V K K Q L L G H H A Q L L
UniRef90_F4LTA4 G L K K D V S A H I L R H T F G T N L L E K G G A S V V S I Q K K I L L G H H A S M
UniRef90_NOAR10 G V H K R V S P H T F R H T G A L Y Y L N N G G D P F S L Q K I L L G H H S D M
UniRef90_R6PCG2 G L D S N K Y S V H K L R H T A A T L M Y Q Q V D I R A L Q E L L G H H E S T I
UniRef90_C6BT31 G V T E T I S P H M F R H T A T M L L E N G V D I R A V I Q T L L G H H S D I
UniRef90_U2WQU4 G L D K A K I L S P H V L R H F A T H L L S H G G A D L R A V Q Q K M L L G H H S D I
UniRef90_R6KFR6 G L N K R F T F H T A R H T F A T M M L L G A D L Y T T S K L L G H H A S V I
UniRef90_UPI000465588F P E Q Y A A T P H M F R H T A T T L L S E A G M D I R Y S I Q S L L G H H S S I
UniRef90_K2G532 G I V K D V H P H T L R H F A T D L L S N G A D L R S V Q Q T M L L G H H S S I
UniRef90_F5WT55 G I L T P I S A H T L R H F A T A I L D T G V D L R I Q E L L G H H Q D I
UniRef90_G9AV45 R F K F P K F D F T F H D L K A K G V S D L D G D I Y E K R A I T L G H H K N V
UniRef90_Q08VP6 G L P V T R A L H V L R H T A T H L L L E M G L A M R G A P A K A I Q E L A G H H E N L
UniRef90_UPI00047E800A Q A L S Q Q V N P H K L R H Y A T H M L E S S G D L R A V Q Q E L L G H H A N L
UniRef90_F5YGL0 G T S S R V H T L R H F A T E L L A G S G A D L R A V Q Q E L L G H H A N L
UniRef90_R8ALG1 Q E V S S H V H P H K L R H F A S H L L L E S S G A D L R A V Q Q E L L G H H A N L
UniRef90_U2V629 K N A K I E K N V Y P H I F R H L A T L L L G N G A D V R I V Q Q E L L G H H A N L
UniRef90_R5AB95 G L P Y V R F H D L R H T F A T L L L Q N G G V D V K T V S G M L L G H H A S A
UniRef90_D9VF68 P G A A D M G P H G L R H S A T H L L L E N G G A D L R T V Q Q E L L G H H A S L
UniRef90_G6B1C7 G I T K H F T F H T A R H T F A T M M L L G A D L Y T V S K L L G H H T S V
UniRef90_UPI0004128D98 G I T K K I T F H N F R H T F A T L L S S G T D I Y T V S K M L L G H H S V I
UniRef90_R7IY72 G L D T K K I L S V H K L R H T A A T L M Y Q N V D I R A L Q E L L G H H E S L
UniRef90_S7X2R5 G I K K D A T F H T L R H T A T H L L L E Q G T N I R V I Q E L L G H H S L L
UniRef90_UPI000479BFA0 G L E E S V T P H A L R H F A T H L L L S S G G D L R Y E L Q E L L G H H A S P
UniRef90_G1UPM0 R L P E S F R L V T F H G L R H F A S W L A S S G V S M Y T I Q K L T H H A S P
UniRef90_UPI000378870D R I R Q D V T F H S L R H Y A T H L H E A G A D I K L I Q E L L G H H N D L
UniRef90_A0A022LVX8 P G E G P S G P H T F R H T A T H L L D G G G A D L R A V Q Q E L L G H H S L L
UniRef90_UPI000477B569 A R A A G L P H T S P H D L R H S A T H L L L D G G A D L R A V Q Q D L L G H H S L L
UniRef90_C6M0Z2 G I T S L S P H G L R H F A T H L V N H G V D L R A V Q L M L L G H H A N I
UniRef90_Q3SFX5 G L G Q H V H P H M L R H F A T H V L Q S S G D L R T V Q Q E M L L G H H A S I
UniRef90_H5UN85 T A G E G L P D L S P H G L R H S A T H L L L E S G G A D L R T V Q Q E L L G H H A S L
UniRef90_M1MRA0 N I S K K V T V H S L R H F A T H L L L E S G G I S I F H I K Q L L G H H S D I
UniRef90_U4TNX3 S L T A K I H P H M L R H T F A T M L N N G A D L R S V Q Q E L L G H H A S L
UniRef90_S0P1L3 H L D S E I H P H K L R H T A T H L L L N N G A D M R T V Q Q E L L G H H A S L
UniRef90_D5B973 G I S K H I T F H S A R H T A V L L L E N G A D I Y T V S K R L L G H H K E I
UniRef90_W7ZX78 T H V N I K K S F S P H T L R H F A T H L L L E N G A D L R S V Q Q E M L L G H H A D L
UniRef90_A0A058TA61 G I D L G E N P P S F H E M R S L A R L H A L E G R D P Q K L G H H R N A
UniRef90_UPI00035E92BB L A T T G D S T V H P H S F R H Y A T H L L A D G A D L R A I V Q Q E L L G H H A R L
UniRef90_UPI000472C820 K L G G T I Y P H K M R H F A T H L L A N R G G A D L R A I V Q Q E L L G H H A S L
UniRef90_U2Z1N7 R A G L A P D V T P H V L R H F A S H L L A G G A D L R A I V Q Q A L L G H H A S L
UniRef90_W3RN26 G L P D S A T P H A L R H F A T H L L L G R G G D L R A I V Q Q E L L G H H A S L
UniRef90_J3JJ26 Q V P D L G P H G L R H S A T H V L L S G G A D L R S I V Q Q E L L G H H S L
UniRef90_B1QYK5 N L G K P L G P H L L R H T M A T L L Q S G G A D L R I V Q S L L G H H T T P
UniRef90_B1I259 A S G V P D R Q A G P H L L R H F A T H L L L E A G A D L R T V Q Q E L L G H H A R L
UniRef90_G2FQD2 Q L D P G N V T P H V L R H T A T K I L R S G V D I V T V A A L L G H H A S R I
UniRef90_UPI0003748A99 E G A Q R L G P H A L R H S A T H L L L E S G G A D L R T V Q Q E I L L G H H A S I
UniRef90_F2NBQ7 G I D G L H P H T L R H F A T H M L A G G A D L R V L Q Q E I L L G H H A S I
UniRef90_R8AXW1 V V K G A D Q R L N P H M L R H F A S H L L L E S S G D L R A V Q Q E L L G H H A D I
UniRef90_UPI000478BE72 D L T G H V S P H T L R H F A T H L L D G G A D V R V V Q Q E L L G H H A S V
UniRef90_V2QC62 C N K A G I E N F R F H D L R R T F A T L L L Y N N T N I K T I Q N I L G H H S S I
UniRef90_M1MSV2 N I E T K S T P H Y L R H T A T Q L L L N N G A D I R A V Q Q E I L L G H H S S I
UniRef90_C5CAL4 G L E A D V S P H T L R H F A T H L L L A N G G A D V R V V Q Q E I L L G H H A S V
UniRef90_S2VTC5 G V S V I S P H G L R H S A T H M L E G G A D L R A V Q Q D L L G H H A S L
UniRef90_UPI00046CB3C8 G V P P S T I S P H T L R H F A T H L L L E G G A D L R A V Q Q M M L L G H H A D L
UniRef90_F8AAD9 G V Q D P R M K V C F H T L R H T F S W L V M A G V P I Y T V K E L M G H H K T
UniRef90_F8NBF2 G L T K H I T F H C F R H T F A T L L A A G T D L Y T I S K L T H S D V

UniRef90_F5YGL4	S T T Q R Y T H V	170
UniRef90_E6J5A7	A T T Q I Y T H V	D M
UniRef90_K0HQG5	S T T T I Y T H V	A
UniRef90_UPI00035F06D7	S T T Q I Y T H V	A
UniRef90_D1AX16	T T T E V Y T H V	E
UniRef90_W4VEW0	S T T Q I Y T H V	
UniRef90_UPI000381E5DE	A T T Q I Y T H V	
UniRef90_S4H4T3	N T T Q R Y T H V	S I
UniRef90_E1R041	S T T Q I Y T H L	S I
UniRef90_R7F1R6	S A T G I Y T H V	
UniRef90_C6I131	Q M L K R Y T H L	K
UniRef90_K0K8D9	T T T Q V Y T L V	T L
UniRef90_D3AC86	V T T Q I Y T E V	S L
UniRef90_D1YIE1	D M T L I Y T H	
UniRef90_C9MYB7	T T T E V Y T H V	E
UniRef90_F2I4X4	S S T Q I Y T H	
UniRef90_F7XWP5	S T T Q R Y T K V	D V
UniRef90_Q255I7	A S T E I Y T H V	A
UniRef90_G7LSH9	N M L K R Y T H L	K
UniRef90_I1Y146	M M L K R Y T H L	K
UniRef90_B7KE90	S L T S R Y L H	
UniRef90_Y1CW68	S Q T A R Y N R	
UniRef90_Q989G6	N S T A F Y T K V	A
UniRef90_K0YVC7	S T T Q I Y T H V	
UniRef90_UPI000474FAF1	S S T Q I Y T H V	
UniRef90_A9E9Q5	A T T E I Y T H V	
UniRef90_W4CAR9	S T T M I Y G H V	
UniRef90_D0Z997	S T T Q I Y T H L	D
UniRef90_E4TY18	A T T Q I Y T K L	
UniRef90_W9V8S5	A M V K R Y A H L	
UniRef90_R6WG44	S T T Q I Y T H V	
UniRef90_R7A9D1	Q T T Q I Y T H I	
UniRef90_UPI000472201C	N S T A R Y A R V	A V
UniRef90_Q164J2	A T T E I Y T H V	
UniRef90_D8GR56	S A T Q I Y S S V	
UniRef90_A0A015MGN3	S T T Q I Y S Q V	
UniRef90_C9YGC9	S T T T I Y T H I	A
UniRef90_UPI0002EBED23	R T T L M Y L H I	A
UniRef90_F4LTA4	A V T T R Y L H Q	D M
UniRef90_N0AR10	S M V R K Y L Q	
UniRef90_R6PCG2	A T T E I Y T H V	
UniRef90_C6BT31	S V T E I Y T H V	S L
UniRef90_U2WQU4	S T T Q I Y T H V	
UniRef90_R6KFR6	K M T Q V Y A K I	
UniRef90_UPI000465588F	S T T Q I Y T H V	A
UniRef90_K2G532	T T T Q I Y T H I	
UniRef90_F5WT55	S T T Q I Y T H V	
UniRef90_G9AV45	E Q T A A Y D R	
UniRef90_Q08VP6	S T T Q R Y M H L	
UniRef90_UPI00047E800A	S T T Q V Y T H L	D
UniRef90_F5YGL0	A T T Q I Y T H V	D M
UniRef90_R8ALG1	S T T Q I Y T H L	D
UniRef90_U2V629	T T T E I Y T H V	E
UniRef90_R5AB95	G F T L D Y A H V	
UniRef90_D9VF68	A T T Q L Y T H V	T V
UniRef90_G6B1C7	K M T Q V Y A K I	V
UniRef90_UPI0004128D98	K T T Q V Y A K V	V
UniRef90_R7IY72	A T T E I Y T H V	
UniRef90_S7X2R5	R T T S V Y L H V	
UniRef90_UPI000479BFA0	S T T Q A Y T H V	D
UniRef90_G1UPM0	Q M T Q R Y A H L	
UniRef90_UPI000378870D	K T T L R Y T H V	
UniRef90_A0A022LVX8	G T T Q I Y T H V	
UniRef90_UPI000477B569	S S T Q I Y T H V	
UniRef90_C6M0Z2	N T T Q I Y T H V	A
UniRef90_Q3SFX5	S T T Q V Y T H L	D
UniRef90_H5UN85	S T T Q I Y T H V	
UniRef90_M1MRA0	S S T C F Y L H L	
UniRef90_U4TNX3	S T T Q I Y T H V	T M
UniRef90_S0P1L3	S T T Q I Y A H V	
UniRef90_D5B973	R T T E I Y A K I	
UniRef90_W7ZX78	S T T Q I Y T H V	
UniRef90_A0A058TA61	A M T E M Y	
UniRef90_UPI00035E92BB	S T T Q K Y T K V	S L
UniRef90_UPI000472C820	E A T Q I Y T H I	E
UniRef90_U2Z1N7	S T T E I Y T H V	
UniRef90_W3RN26	S T T Q I Y T A V	D
UniRef90_J3JJB2	A T T Q R Y T H V	
UniRef90_B1QYK5	S T T Q I Y A E	
UniRef90_B1I259	S T T Q I Y T R V	
UniRef90_G2FQD2	D T T A I Y T Q	
UniRef90_UPI0003748A99	A T T Q I Y T H V	
UniRef90_F2NBQ7	T T T Q L Y T H L	D
UniRef90_R8AXW1	S T T Q V Y T H L	D
UniRef90_UPI000478BE72	T T T Q L Y T M V	S V
UniRef90_V2QC62	M M T E R Y	
UniRef90_M1MSV2	T T T Q I Y T E V	
UniRef90_C5CAL4	T T T Q V Y T L V	T V
UniRef90_S2VTC5	Q T T Q R Y T H V	D
UniRef90_UPI00046CB3C8	A T T Q V Y T H V	
UniRef90_F8AAD9	A M T E R Y A H L	A
UniRef90_F8NBF2	S T T Q V Y T D V	V

UniRef90_K8E4F6
UniRef90_S3K0N9
UniRef90_B2IA18
UniRef90_Q7UY32
UniRef90_U2SAR9
UniRef90_V9R9H9
UniRef90_B3CTI8
UniRef90_UPI00046A3029
UniRef90_UPI00046AECBF
UniRef90_I0JIM0
UniRef90_K2EFL5
UniRef90_I0KYD2
UniRef90_W5IK26
UniRef90_Q64WI5
UniRef90_A8UJZC8
UniRef90_UPI0003711DD8
UniRef90_A0A023NVB3
UniRef90_UPI00047187C4
UniRef90_R7B871
UniRef90_H0FA08
UniRef90_UPI0003062248
UniRef90_Q92C75
UniRef90_K2EBZ5
UniRef90_A2SD71
UniRef90_UPI0002557DFB
UniRef90_C7MNC6
UniRef90_UPI00047632C3
UniRef90_U7UBP8
UniRef90_UPI00031DD323
UniRef90_R6Z669
UniRef90_F2NVQ0
UniRef90_M9VCG7
UniRef90_R5QN16
UniRef90_UPI000372C47C
UniRef90_I8QTY2
UniRef90_D2U145
UniRef90_C6DHB5
UniRef90_I9H2V8
UniRef90_I9S9G8
UniRef90_A8MK22
UniRef90_E5XTJ3
UniRef90_W9V9C0
UniRef90_UPI0003B4980B
UniRef90_A6DBC8
UniRef90_B3ETL0
UniRef90_C9RBU5
UniRef90_G5F5K1
UniRef90_UPI000372D216
UniRef90_R4KSP8
UniRef90_U3AD91
UniRef90_A0A024LV79
UniRef90_UPI000368B5DC
UniRef90_D4JT05
UniRef90_R5QKE5
UniRef90_UPI000289984C
UniRef90_S2ZMQ9
UniRef90_UPI00030F70DC
UniRef90_W1J6M9
UniRef90_I8WPD1
UniRef90_Q0AFY9
UniRef90_U1N2J9
UniRef90_UPI0004671A01
UniRef90_UPI000255641B
UniRef90_A7FIZ1
UniRef90_X1B859
UniRef90_UPI0003F607E5
UniRef90_UPI0003B5E6B5
UniRef90_B6B0J8
UniRef90_UPI00034C0B17
UniRef90_R5JTW9
UniRef90_A4AH05
UniRef90_UPI00037DB013
UniRef90_Q83N36
UniRef90_UPI0003721001
UniRef90_UPI0004657BCF
UniRef90_UPI00047C6574
UniRef90_UPI0003630988
UniRef90_N9NZX5
UniRef90_K9EE68
UniRef90_I4B829
UniRef90_W6RY83
UniRef90_G7UQ51
UniRef90_G1UWH3
UniRef90_B1FJ84
UniRef90_UPI00047AC46B
UniRef90_F6IPJ0
UniRef90_R7RV84
UniRef90_UPI0003FABDF5
UniRef90_F8AZ80
UniRef90_UPI00035EC68C
UniRef90_UPI000347A93A
UniRef90_V9RD22

UniRef90_K8E4F6 C G L K W T D I D F E M L G V E N G K Y D L G T P K T K S S Y R T I M L R Q L E 80
UniRef90_S3K0N9 A Q L K L G D V D S A A Y D S L V R G K G G K D R R V V F F S K E A C A A L K R Y V
UniRef90_B2IA18 C G L R W D S D D D D A G L I R V S V L G K G S K R Q R V V P V G S Y A L S A L R E W C
UniRef90_Q7UY32 A R L R W G S D F D D F D Q I R V S V L G K G K D R Y V M L A D D L P L M R Q L W
UniRef90_U2SAR9 I G L Q W H D L T R G L L H V R R T L W R G I E G L P K G G R E R T V D V P A S
UniRef90_V9R9H9 V N L R F W Q D I R G E G E L L I T P K G K N K E R S L P L P I V R E S L D G Y I K
UniRef90_B3CT18 L S M R W E N I R G E G V W Y I P E T K N G E S Q T V P L I N L L I
UniRef90_UPI00046A3029 A G L K P E D L D D G T A R V I G K G G K T R I V P V G S K A A Q A L R E W M K
UniRef90_UPI00046AECBF L K M R E T D I R E G M L L I D Q N K G R K K L R M N I T G Q L E E L L R R
UniRef90_I0JIM0 L G V K W E D I D N E L I E V K R N L I Y D K D G F R F G E L K N E A S Y R T I
UniRef90_K2EFL5 L T L K W S D I D I N R R F F V L R P E N T K S C R R R A V P L N A M A L
UniRef90_I0KYD2 C G L D V G D V D H G R I R V F G K G G R E A V P Y G V P A Q R A L D D W L R
UniRef90_W5IK26 V G L N T G D I D F S S R T V R V T K G N K Q R V V P F G A P A S H A L Q E W L
UniRef90_Q64W15 L N L T P Q D I N S E T M S V R M G K G K C R Y S L L S P K L L E E L R H Y F
UniRef90_A8UZC8 L A L I R R E N L R N G Q T A L F N I D Y I E N L Q E G D I A Y K V L G K G N K E R
UniRef90_UPI0003711DD8 I A L P R R A A F R P N G T A L V R G Y G A K D R L V P V G A P A R A V E A W L
UniRef90_A0A023NVB3 V H L E W R H V D L S A K T A H L P D T K N G E S R T V A L S S A A V A A L S A
UniRef90_UPI00047187C4 I E L T V G D I D S S A Q I L I H G K G G K D R Y V I L H Q E E L K H Y L S F I R
UniRef90_R7B871 C G L K W S D I D S F A Q I V I S R K S G K R A L K L P S F A V S I L R E Y R
UniRef90_H0FA08 L K L E D G H L R D E G L Y F E Q Q K T G K R L V V E W T P Q L R
UniRef90_UPI0003062248 L A M S E M D V D R G G D V H V K Q G K T G K R L R V E L E D E G Q L A R L L E R
UniRef90_Q92C75 A G I M L S D L D T S Y Q A I T R G K G N K E R Y V P F G A Y A E D A I T D Y R
UniRef90_K2EBZ5 V K L D V G D I N L G E F S V L G K G R K V R I V Y L S A S A K E W L K R Y L A
UniRef90_A2SD71 E A L R W A D V D L E R A E V H R S K N G D K K V L P L V P A V A S V E L
UniRef90_UPI0002557DFB L G L T G A D L P L G P S L R L L G K G G K E R V V P L I A P A R A S V E R
UniRef90_C7MNC6 A A L T V D D L D R G T A R L F G K G S K E R V V Y L H A L J A I E S M G A Y L H
UniRef90_UPI00047632C3 V R L R L A D L D R D K L R V R Q G K G M K D R M T L L S P T A M S V V Q A Y M
UniRef90_U7UBP8 A S I N L E D I R D D K S L R I M G K G K E R T V Y L N D A C I K A L Q D D Y
UniRef90_UPI00031DD323 L G L K G T D V K A L A A G I V T G K G G K M R E V P V L P Q V A R A V A D Y V
UniRef90_R6Z669 L G L E W S D L D F D N G F V H I T K A S Q Y R E V G L P D I V I N M L K K Y R
UniRef90_F2NVQ0 A S L K F Q D F T S D F I V T G K G K D R R V Y F E Q D A R N S L M L Y L K E
UniRef90_M9VCG7 C G L D L G D V D H S R Q T V R V T K G N K Q R T V P M G G P A L R A V D E W L
UniRef90_R5QN16 L A L D V I K D R P F S D M M T V F G K G R E A V P V L P A V R S A I E A Y L
UniRef90_UPI000372C47C L S L T I E D I R F A N G M S C Q V G K G N K K R T V Y I P S K A L K L T R Y I
UniRef90_I8QTY2 C G L D L G D V D D R R L L R V H G K G G R E S V P F G V P A A G A L R A W R
UniRef90_D2U145 L A L R K D L M E A G I Y I K Q G K T G K S Q I K G W S E R L T K T I K L A K
UniRef90_C6DHB5 V G M D C Q H I L E A S G E V W M G T G S K E R K L P I G K T A V T W L E R W L
UniRef90_I9H2V8 L N L T P K D I S E R M L I R V G K G K F R Y S I L L S G K L V T W L N E L R T Y Y
UniRef90_I9S9G8 A A L T W E N I R K D K A G N T Q L H I I Q Q K T Q E I L S L P L S
UniRef90_A8MK22 L N L T M E N V D E K I Y T I S G K G D K D R I I P I S N K L Y I L D D
UniRef90_E5XTJ3 V G L N L L D V D F Q A R S A R V G K G D K E R L V P L G G P A V A A L D A Y R
UniRef90_W9V9C0 V A V N L G D I D M S E G E L S V L G K G S K T R R L P V G A Q A R E A V R H W
UniRef90_UPI0003B4980B V G I N L V D L K E K E V M V L G K G S K Q R L L P I T K K A V E T I K A W L K
UniRef90_A6DBC8 L N I K L S D I H G D W I E I K G K G N K T R I A L L H P L A V A A L K D Y L E
UniRef90_B3ETL0 I S L R M S D I Y F E E M F L Q V V G K G N K R L V P L G K I A L K Y L R I Y I
UniRef90_C9RBU5 E H L N L S D V D R G E L R V W G K G K E R I A L L H P L A V A A L K D Y L E
UniRef90_G5F5K1 C G L D L R D V L D E E L L R V M G K G S K E R V V P V L G T A A R A L A S Y L
UniRef90_UPI000372D216 C G L D L G D M R G C T V R V V G K G N K E R V A P F G Q P A R E A L A R W L G
UniRef90_R4KSP8 V H L A V N D V A E H D L S I R Q G K G G K C R I I P M H N E L Q K V I
UniRef90_U3AD91 I S I D V R D V K S G E L R V I G K G D K E R K V P F S G M A T E W L G Q W L K
UniRef90_A0A024LV79 C G L D I D D I D R R V L Q V L G K G N K Q R T V P F G E P A Q V E L T A W L I
UniRef90_UPI000368B5DC V D L R L S D I D L Q A G R I N C R R L K G S T Q N I H P L E G D E M R L I
UniRef90_D4JT05 C A L T W D D I D L D N G V I H I R K T I Q R I Y V N T S M R D I P M I K E L Y
UniRef90_R5QKE5 L E M R W E H I N N A N W Y I P R T K N G T S M S V P L V K Q L V F L K N L K
UniRef90_UPI000289984C A D I T V S D I R I N A P S T I R G K G S K T R I P V M P Q T V N I K V Y I
UniRef90_S2ZMQ9 A R L D R G D L M L R Q G V R F G K G S K E R D V P L Y K T A C D W L E L Y L
UniRef90_UPI00030F70DC I S I H L S D I S E E G I A F A Q Q T G K G S K L I V S M T P D L E E V I A K A K
UniRef90_W1J6M9 V G L D C R H I D L E S G E V W V H G K G S K E R K V P F G R T A Q E W L Q R W
UniRef90_I8WPD1 Q K L T W S E V E Y T R I V F K Q K T G G Q E Y L D I T P Q A E K Y L
UniRef90_Q0AFY9 L A L R E S D L T D G R I N V K Q Q K T G K K L R V I K L E G E L A A L I D R I K
UniRef90_U1N2J9 V G L D W N D I D R E S G T I R I G K G N K E R V I P I A S P L E P L L D A Y R
UniRef90_UPI0004671A01 F S L T W G D V D M E R G V L I L R D T K S G K T R A A Y M T E A V T
UniRef90_UPI000255641B I A L S S L N I N E Q K L Y R I T G K G E K R V V P L A D F A L D A I T K Y L
UniRef90_A7FIZ1 L A L R R D Q L R E P G L V R I K Q G K T A A R Q I K A W S E R L R D A I T
UniRef90_X1B859 A G L K L N D L N L D M R F V C T G K G G K E R I I P L G T Y A V Q A L T K Y I
UniRef90_UPI0003F607E5 V G L N L R D I K L S E K E I M V T G K G S K Q R L P I T K S A V E T I T L W
UniRef90_UPI0003B5E6B5 V G M D N L N D V D R Q R L V R V R G K G D K Q R V V P F G G P A D D A V G E W L
UniRef90_B6B0J8 I L G L T G A D V P L P T A L R I L G K G G K E R V V P V L P A A R E A V Q A Y L
UniRef90_UPI00034C0B17 L Q L A L E D V D R G T L M V R Q G K G R K D R M L P I G A R A V A W I E K Y L
UniRef90_R5JTW9 Q K L K W S D I E E Y N L N F T Q Q K T K G V E Y M P I S Q A Y K L C G E R K
UniRef90_A4AH05 A G L S L S D I D D S R L T V R V G K G A K E R V V P F G I P A H H A I S D Y R
UniRef90_UPI00037DB013 V S I K V T N L K F D Y F T I L G K G N K E R V V I N D V A V N A I K Q Y L S
UniRef90_Q83N36 V S L N V N A F S D Q N L R L T G K G N K R M V L F G S Y A R N A V D N Y L
UniRef90_UPI0003721001 C S L D L G G V D R R E R T V R V L G K G G K E R V P A A E A I D A Y L E T G R
UniRef90_UPI0004657BCF V G L D V D D L D L R D G F A R V G K G G K A R V V P I G S Y A R E A V D A Y R
UniRef90_UPI00047C6574 V G L D V D D L D A G S G T V L R G K G G K D R V V P I G S Y A W E A V D A Y L
UniRef90_UPI0003630988 F R L K W S D V D F G F I T I R D P K G V K K Q I I P L N H A A R K L L
UniRef90_N9NZX5 Q S L R I K D I E F N R L R I T D G K N K T R I V P F G S K A K D S I V M A W L Q
UniRef90_K9EE68 I A L T W R D I E I D G E N K N Y R L H I I Q K K T K E A I S L P L S
UniRef90_I4B829 T L L K I A D I D F G L V Y V A S G K G E K D R Y V P I T S R A L G V L
UniRef90_W6RV83 I N L K L D N I N L K D H F L I F N K S E E R F I P I G R Y C V N I M K K Y L
UniRef90_G7UQ51 R F L R W E D V E E W T L T I R E T K N G Q P R H V P I G S M A Q G A L Q A
UniRef90_G1UWH3 L K A R W E N I D Q R L L T V P V S K S G K P R H I S L S G E A V E V I R S I
UniRef90_B1FJ84 V G I E W P N I D R R V L W L P D S K N G E G R A V
UniRef90_UPI00047AC46B E K L T W S E I E D P E Q T E I S L L K Y R Q R K T G R F E Y L P I S K
UniRef90_F6IPJ0 I L S T A S V L P L R D T L V V T G K G A K Q R V V P L L P I I T R D A V D D Y K
UniRef90_R7RV84 I N L N W N V L F Y T K D K G Y S I R F K H K K T D S I Q Y N L P I S N
UniRef90_UPI0003FABDF5 V S L D T Q N L D S G T V L Y R H G K G Q K S R V V P V G R C A R Q A I Q R W L
UniRef90_F8AZ80 V G L D V D D L D L D A A S V R L G K G G R A R V V P L G R Y A E A I A A Y L V
UniRef90_UPI00035EC68C V S L K V K T I R D G L T A V R G K G S K D R V V P L T G A A R A I E L W L P
UniRef90_UPI000347A93A V G L S V D D V D G L S V K V T G K G N K Q R V V P I G S F A R A A I D A Y R
UniRef90_V9RD22 L S L K I E N V D F S S N F L L E G T N T K T R K G R L I P L I Q G R T V R L I

UniRef90_K8E4F6 N K L F Y G S N Y F D G N F L C T K E N G Q P V T P N S L K Y N V E K V R K L T
UniRef90_S3K0N9 A E R G K T I G K A G T E A L F I N R K G G A L S A R A G M R F V S R Y S S A
UniRef90_B2IA18 A S S G G G A Q F V F F F P V D R Y G G P I L S A R A V Q V R I K Q A R L Q R Q
UniRef90_Q7UY32 R H T K G V G Y Q F P S E G R R V D R H I L S A R A T I Q R A V K Q Q A R L S
UniRef90_U2SAR9 V V D D N A H R H R R G R E V F V C Q E D G Q P L L T N K G K M A A P L G R A L R A A
UniRef90_V9R9H9 C C P Y H V K S A V V N E Y V F V G V N G R K K S G H L R T Y F A N R L Q K R I R K E
UniRef90_B3CT18 E K L K Q Y S Y S S E S E W V F P G Q R R N S G H L R T Y S I N V A W K R V K K R A
UniRef90_UPI00046A3029 Q R Q A L A K P G E T A L F M S R Y G K N T S R R S I D Q R L K I Q A
UniRef90_UPI00046AECBF I S E R K R Q F S V R S L A L C N E R D G A K L G R D A M R Y R F D A R L K K A
UniRef90_I0JIM0 K I D D Y V S K E L T R Q D L V F C R E D D G R P I Y P R T L T T I F N R L I K K A
UniRef90_K2EFL5 E A I K A L Q Q G N N S E M V F P A R C G A K V L K S Y D W L F K K A V K S A
UniRef90_I0KYD2 R G R P L L A G A R S G D A L L L G A R G G R L N P T T A R Q L V G G Y A E T A
UniRef90_W5IK26 N R G R P S E L A D R Q D S E A V F V G S R G G R L N Q R Q V R Q V V H R L A E E A
UniRef90_Q64W15 R E Y R P Q K W L F E G E T P G E Q Y S A S A L V K V L K E A A
UniRef90_A8UZC8 I V P L S E N V L E E L F R Y L K K Y K V S P I T F P I S Y H S L W R R I L N
UniRef90_UPI0003711DD8 A A E D A A R G P K P T R F L F K P Y S R G G H L T R Q R L A Q I L K D V A L A A
UniRef90_A0A023NVB3 P A L S T K R R G R V F S N W G T K F A L E K A W A N C R K N A L S T Y L E E A
UniRef90_UPI00047187C4 V A L L S K G D L T E N E K R L F I N Y K G G P L T T R G L R T L L D Q L I K K S
UniRef90_R7B871 K A Q A Q N R R Y E T N D Y I F V G R E D G H V M H P D A L H R W F T D F L K K Y
UniRef90_H0FA08 V A V D R A Q E L R V S P T R T P Y L L G G R G G N L R L H S N V W R T F K D A
UniRef90_UPI0003062248 I R E R K K A Y A V H S T M L I V S E H G R S V S V A G M S R R W Q K A C Q A A
UniRef90_Q92C75 R I E L M T R F K K T H D S L L L N H Y G D P L T T R G I R Y C L R K I I S K A
UniRef90_K2EBZ5 T R H D S F S P R Y S G K R M I P D D F E G E S L R L T V R S V Q R L V K K Y A
UniRef90_A2SD71 A K H A G A A N A L V F P S T R R P D I A Y N F D P A W D R A L K A A
UniRef90_UPI0002557DFB Y M A L C P W P M E A G A L P L F R G I R G G P L P A Q T I R K A M A Q V R A Q M
UniRef90_C7MNC6 F R N D L L R G R T D P G Y F F L S T R G L P M N T D A I R K M F K T T L I Q A
UniRef90_UPI00047632C3 I Q F Q P L E R W L F P G Q R S E R H V I G N R T E R T V Q K V E N A R R R A
UniRef90_U7UBP8 K P L P D V E D K A L F L S R L N K R I V I G N R G I Q N M I E K H I L L E A
UniRef90_UPI00031DD323 A A C P Y Q L K A D G P L F V G A R G S P L S P R I Q L A M E R L R G A L
UniRef90_R6Z669 T W Y E A E K E K C G N L W I F V T W N G S P M H P D T V T D W F R S F I E K N
UniRef90_F2NVQ0 R K A R F P Q A E K G C S R I F L S Q K G T A L S A H G I W Y I V S R Y T
UniRef90_M9VCG7 G R R Q E W V C P T S G R A L F L G T R G G R I D Q R V V R R L V H T H L R A
UniRef90_R5QN16 R E F R P D G A K P N T P L F I G A Q G E R V I N D R G V M Q R Q I R R L R D E L
UniRef90_UPI000372C47C K E F N I K E G P L F V N L K G G P L T D R G A Y I L Q K T S V R Y
UniRef90_I8QTY2 T S G R P L L A S P R S G V A L M L G Q G G R L D P R T V R R I L A R C A
UniRef90_D2U145 Q L P L K E G V N S L Y V L H Q A N G K L R Y S R D G F N S R W L K A K E E A
UniRef90_C6DHB5 A L R E L F G P Q D D A V F L S N Q G R R I S M R N V Q K R F A E W G I K Q
UniRef90_I9H2V8 K E Y R P Q K W L F E G E Q V T P G E Q Y S P S A L V K I L K D A A R K A
UniRef90_I9S9G8 P E A L K Q L P E R G K A L D T E R V F N G L T S L G R T N E L L S R W K K D A
UniRef90_A8MK22 Y V K N I R P D V E S N K F C T K K T G S L S P Q Y I N R M L H I A G K D S
UniRef90_E5XTJ3 S Y S R E A P P G K A T N A L F L N A R G E R F S R Q S T W A S L R H A A A K A
UniRef90_W9V9C0 L R V R A N L A D A D E P A L F V S S R G T R I N P R T V Q K R L E R W A
UniRef90_UPI0003B4980B V R P D F C E A G E T A L F T S K L R R I S A R S V Q A R M E K K W G L Q Q
UniRef90_A6DBC8 E F I Q K Y L K I N P K K E Y L F E K D G K K Y S E N Q L R Y N I Q K A F K K I
UniRef90_B3ETL0 E E V R I H F P L I K K E N C V F L N K R G S K M S R V M F L T I K E L A S K A
UniRef90_C9RBU5 R G R P R R S R G E E N A L F L N H R G E R I T R Q A V H A L V E R Y G R M V
UniRef90_G5F5K1 E E W R P L V H G R P G P A V F L S Q R G S R I T R Q A V H A L V E R Y G R M V
UniRef90_UPI000372D216 E G R P E L V R K S G R D A V F L G S R G G R I N P R Q V R R L V E V A
UniRef90_R4KSP8 G Y Y I A K R L S T S K Y L F P N K N G V P L S T Q Y I R K M V K Y A V V K A
UniRef90_U3AD91 V R N E L A S A D E A A L F V S K L G T R I L S V R S V Q K R M A E W G Q K Q
UniRef90_A0A024LV79 E G R P A L A T A D S P A L L L G A R G K R L D P R Q A R T V V H Q T V S A V
UniRef90_UPI000368B5DC K R W L R V R S N S G D F L F V S E R G T P L R H A A W R I F K E A G E K A
UniRef90_D4JT05 E V L K P L K K V V R S D Y Y V L T N D A E P T E P R T Y R N Y Y K R L D K L
UniRef90_R5QKE5 R E S V K S D W F F P M G N D A T R H M G Y P Q K A W K R L K Q A A
UniRef90_UPI000289984C N D N D L L N E F K M S K V F F N K D G E K L T R A G L A Y L N K Y V E I A
UniRef90_S2ZMQ9 Y E A R P L K V A P A E E A L F L S N R G R R M S A D V L R K M F E A H V L E A
UniRef90_UPI00030F70DC A L P R K V R T L T L F C A R A R G P V I Y E T V K L A F A K A R K A A
UniRef90_W1J6M9 L E M R G L F E P D D N A I F I S T R S G K R I S A R N V Q K R F E Q W G I K Q
UniRef90_I8WPD1 G E R G N P D D F V F V G F T Y G S W T S L E L Q R W S L T A
UniRef90_Q0AFY9 S R K V K H T I R S G Y L L V D E T G K K L S Y T T L V R S H F D K A R E L A
UniRef90_U1N2J9 R D R G S G P L F Q S E R T G K R I S V R T V Q H T K G H I D R L
UniRef90_UPI0004671A01 A M L A G I E R R G H N D L V F L S A N G G R L I S E T F N R V V A A L G F N N
UniRef90_UPI000255641B N K L K E L N K K P V D E H I F F D P K L K P Y S R Q K L Y E A L K K Y A I R A
UniRef90_A7FIZ1 A E S L P L N S G I S S V Y I I H Q R T G L R Y T R D G F N S K W R K A R E V A
UniRef90_X1B859 D K T R P G L L K Q K E E L H L F L S R G R K I S R Q T F W K A V K A Y A K K S
UniRef90_UPI0003F607E5 L K I R P D F A E E G E T A L F L S K Q K K R I S T R S V Q M R M E K W G L A
UniRef90_UPI0003B5E6B5 E K G R P V L A P A G P D A L F L G M R G R R I D Q R A V R T V V H E M A R L L A
UniRef90_B6B0J8 N I C P Y P L E P N A P L F R G I R G G A L N P R A V Q S V M A K A R M Q L
UniRef90_UPI00034C0B17 A D V R P H L C C G H E D G C F L S H L G E P F T P N R L T Q L V R A Y V D K A
UniRef90_R5JTW9 K D G E L V F A G L P D P S W I S R P L E R W V K A S
UniRef90_A4AH05 G R P Q L I E E T D G S A P L F V G A R G K R V S T R T V E V I A H L L A E V
UniRef90_UPI00037DB013 Y R K L F L P I N A C E N N V Y L F P S K A K Q G Y M T R Q N F A L L L K A L
UniRef90_Q83N36 Q H S R P K L J A R S H P A W F L S N R G K R L T R Q Q A G N I R K L G E A A
UniRef90_UPI0003721001 P S L A I R S E Q P D L A A F F L G R R G A R L G T N T V Y R L V A R E L
UniRef90_UPI0004657BCF A R P E L A G A G R G P A L F L N A R G G R L S R Q G A W M V L R A A A D R A
UniRef90_UPI00047C6574 V R A R P A T A G A G N P A L F L N A R G G R L S R Q S A W A V L R T A A
UniRef90_UPI0003630988 V Y P L W N G D F V P E A N V F I T Q K G N L G A R Q I E N R V K F Q A Q R A
UniRef90_N9NZX5 Q E S V K Q L P K R E N E K D S K I F K G L I T L G R T N E I L P R W A E Q A
UniRef90_I4B829 T D Y T A N R K E K S A Y L F A G P F G K L T G D A I Q D I V K R H I R Q L
UniRef90_W6RY83 S Y R K E L D K F Q S E Y V F L N V K G E P L T R Q G F W K L I K E Y A K E L
UniRef90_G7UQ51 H Y D R D P T K Q S E V F K N G Y R D G S P W G L H S A W Q R V R D A A
UniRef90_G1UWH3 P R V P G C P W L F P G R G P G K P L S D I Y I F W N R L R R G L
UniRef90_B1FJ84 A L S T R A A Q A L A A A T D R N G P V F P G L T V D A I K C A Y R R A
UniRef90_UPI00047AC46B Q A R E L V I G E R K G Q D E Q V F S G L K Y S A T N N T I L K N W L L R A
UniRef90_F6IPJ0 C P W P V A L E N H R K D P L F R G A K G G P L S Q G M V Q K A V A R A R V S L
UniRef90_R7RV84 Q A Y T M L G E P Q E L S Q Q I F A G L T K K L A R D R L L E K W T D A
UniRef90_UPI0003FABDFE E L R P G Y A C S S E K A L F V S R R G K R I A C R T V Q L R L E R W Q V K L
UniRef90_F8AZ80 R A R P V L A S R R A S P A V F L S R R G T R L S R Q S A W T V L R T A A V A A
UniRef90_UPI00035EC68C L R D T T L P K R S R A A N Y L F P S R G K S G H M T R E R F A Q T L K T L A M A
UniRef90_UPI000347A93A A R P V F A R G A S T P A L F L G A R G A R L S R Q S A W L V I Q A A E R A
UniRef90_V9RD22 K E L I K E N E E F D S E Y V F L A N Y G E K M T T N N F R Q R L N Y A D R A

UniRef90_K8E4F6 G EGTNR HVDFNFHSFRHTHATLLE 140 NNAKAPKEIQQT RLGHHSRSL
UniRef90_S3K0N9 EGTNR HVDFNFHSFRHTHATLLE 140 NNAKAPKEIQQT RLGHHSRSL
UniRef90_B2IA18 GMAK HVDFNFHSFRHTHATLLE 140 NNAKAPKEIQQT RLGHHSRSL
UniRef90_Q7UY32 GIGKKA HVDFNFHSFRHTHATLLE 140 NNAKAPKEIQQT RLGHHSRSL
UniRef90_U2SAR9 GIGSREAGT HVDFNFHSFRHTHATLLE 140 NNAKAPKEIQQT RLGHHSRSL
UniRef90_V9R9H9 GDLK P DTT HVDFNFHSFRHTHATLLE 140 NNAKAPKEIQQT RLGHHSRSL
UniRef90_B3CT18 GDLK P NLR HVDFNFHSFRHTHATLLE 140 NNAKAPKEIQQT RLGHHSRSL
UniRef90_UPI00046A3029 MRQG I S A N I R HVDFNFHSFRHTHATLLE 140 NNAKAPKEIQQT RLGHHSRSL
UniRef90_UPI00046AECBF I N S N P I A E Y Q V R D L R A K A G S T L L K A D T G D S L Q Q A Q Q K R L G H H S S D I
UniRef90_I0JIM0 E V T K I R I H D L L R R T V G S W M A K G M P I A V I S K E L L L M G H H S S D I
UniRef90_K2EFL5 G L E D F R I H D L L R R H T A S W L L V E A G G V E L L V K V Q R D R L G H H S S I L L
UniRef90_I0KYD2 G L P R T S P H A L L R H S A T H L L L E D G G G A D L L R R A V V Q Q E M L G H H S S I L L
UniRef90_W5IK26 G V P D I S P H S L L R H S A T H L L L E D G G G A D L L R R A V V Q Q E M L G H H S S I L L
UniRef90_Q64W15 H R A G I K H R V H V H M L L R H T A T H L L L E Q G G T D L L H T I Q Q E L L G H H A N D I
UniRef90_A8UZC8 I G K K A G V L L S P H K L L R H T A A T H L L L Q G A E L L R S V I Q Q E L L G H H A D P
UniRef90_UPI0003711DD8 G I D P V R V R L S P H V L L R H T F A T H L L L Q H G A D L L R S L Q Q A M L G H H A D S L
UniRef90_A0A023NVB3 P D P A F L N D L R S F H D L L R H E A T R L L F E R G G L G I M E V L A S M T G H H K S L L
UniRef90_UPI00047187C4 G E T Y N L H P H M L L R H T A T S M L N H G G A D L L R A T V S K R L L G H H K N S T
UniRef90_R7B871 G L P P I T L H S L L R H T N A S L L A N G V D L L R A T V S K R L L G H H K N S T
UniRef90_H0FA08 A I K A S V S D V T L H D L L R A M A G T D A E S S Q G I D P S A L L G H H A D S P
UniRef90_UPI0003062248 K V T G I Q F R D L L R A K A G T D K D S A G A D L L R T K A Q Q Q Q L G H H S S V L
UniRef90_Q92C75 S L T R K I H P H M L L R H T F A T L L N N G A D M R T V V Q Q E L L G H H A S S V L
UniRef90_K2EBZ5 T R A G I A I D A T P H T L L R H T F A T L L R N G A D L L R S V V Q Q E L L G H H A N V L
UniRef90_A2SD71 G V K S F R F H D L L R H S C A S L A Q N A G G A T L L R E I A E E V L G H H R S Q L L
UniRef90_UPI0002557DFB G L P A S A T P H A M R H T F A T H L L L E N A G G A D L L R A I V Q Q E L L G H H A S S L
UniRef90_C7MNC6 G V R A A Y T P H D M R H T F A S L L L E G G A D L L R S Y L Q Q E L L G H H A S S L
UniRef90_UPI00047632C3 G I V K K V S V H S L L R H T A T H L L L E G G A D L L R S Y L Q Q E L L G H H Q S A
UniRef90_U7UBP8 G L D P N K Y T T V S K L L R H T A A T L L M Y R N G A D L L R A I V Q Q E V L G H H V S L
UniRef90_UPI00031DD323 G L P A S A T P H A L L R H T F A S H L L L G R G G D L L R A I V Q Q E L L G H H A S L
UniRef90_R6Z669 N L P K I T F H G L L R H T N A T M L S K N V D V I A R I V A S R L G H H A Q I S L
UniRef90_F2NVQ0 G I E G T G S H V S P H A F R H T F A T M L S N S G A D L L R A I V Q Q E L L G H H S N I L
UniRef90_M9VCG7 E P D S P D L V G P H G L R H M A T H L L L E G G A D L L R T V V Q Q D M L G H H E S S L
UniRef90_R5QN16 G L R A S E L V T P H A L L R H T A T H L L L E N G G A D L L R E I V Q Q E L L G H H E S S L
UniRef90_UPI000372C47C G L R A S E L V T P H A L L R H T A T H L L L E N G G A D L L R E I V Q Q E L L G H H E S S L
UniRef90_I8QTY2 Q T A V P A G L T P H G L L R H S A T H M L L E G G A D L L R S V V Q Q E F L G H H T S L L
UniRef90_D2U145 A K K Y P D F N F H P H K L L R H T A T H L L L E S S G D L R Q A E K Q A I S G H H K N I L
UniRef90_C6DHB5 G V I N S H R V H L H M L L R H T A T H L L L E Q G T D L I R T A V I Q Q E L L M G H H A N D I
UniRef90_I9H2V8 G I K H I T F H T A R H T A T M M I L G A D I Y T V S K L L L G H H S N D I
UniRef90_I9S9G8 G L Q K H I T F H T A R H T A T M M I L G A D I Y T V S K L L L G H H S N D I
UniRef90_A8MK22 N W E K N I S A H L L R H F A S N L Q N A P Y A V V Q Q E L L G H H A S D V
UniRef90_E5XTJ3 G V K A E I S P H T L L R H S A T H L L L E G G A D L V R A V V Q Q E L L G H H A S D V
UniRef90_W9V9C0 Q E Q G A T R H L H P H K L L R H F A T H L L L E S S G D L R A V V Q T L L G H H A D I
UniRef90_UPI0003B4980B N L P S H A T P H Q L L R H F A T Y M L D K G G A R I N D V S E L L G H H E F I
UniRef90_A6DBC8 G L Q Q E I S P H T F R H S F A T H L L V E G G A D L L R A V V Q A M L G H H E S I L
UniRef90_B3ETL0 G L Q Q E I S P H T F R H S F A T H L L V E G G A D L L R A V V Q A M L G H H E S I L
UniRef90_C9RBU5 G V K G K V T P H T F R H S F A T H L L L E G G A D L L R T M V Q Q E L L G H H A S V
UniRef90_G5F5K1 G L E G K V T P H T F R H S F A T H L L L E G G A D L L R T M V Q Q E L L G H H A S V
UniRef90_UPI000372D216 A R G I E A E G L S P H G L R H S A T H L L L E G G A D L L R E V Q Q E L L G H H A S M
UniRef90_R4KSP8 G I D P A Q V T P H V F R H F A T M L Y K N G V D L L R I S K L L G H H A N L
UniRef90_U3AD91 S V A S H I S P H K L L R H F A T H M L L E S S Q N L L R A V V Q Q E L L G H H E N I L
UniRef90_A0A024LV79 D G A P D I G P H G L R H S A T H L L L E G G A D L L R I V Q Q E L L G H H T S L L
UniRef90_UPI000368B5DC G L E I D V H P H M L K H C Y L A D K G C D T R I Q E Y L G H H K N I L
UniRef90_D4JT05 G I P P I K F H G L R H F A T R C I E S K C D Y K T V S V I L G H H S N I L
UniRef90_R5QKE5 G I D N L R M H D L R R T V A S Y C M N G E N L S V S K T L N H K T S V L
UniRef90_UPI000289984C N P D L F P N K V S P H L L R H K A M H L L E S S G L N L I Y I R D F L G H H S S V L
UniRef90_S2ZMQ9 G L D S G L T P H A M R H T F A T L L T G G A D L R V V Q Q E L L G H H Q S S L
UniRef90_UPI00030F70DC G V P D V T I H D L R A K S L T D A D K E G K N A Q A L G G H H S D P
UniRef90_W1J6M9 G V N S H I N P H K L L R H F A T H L L L E S S G D L R A V V Q Q E L L G H H A N L
UniRef90_I8WPD1 G L K K N L T F H C G R H T F A V L L D L G A D I Y T V S K L L L G H H K E L
UniRef90_Q0AFY9 G I K K E E F Q F R D L R A K A G T D A E S S G D I R Q A Q Q K Q L G H H A N I L
UniRef90_U1N2J9 K P Y L P E K Q V T P H K L L R H T A S R L A M S S G I D V L T I Q Q L L G H H E S V L
UniRef90_UPI0004671A01 G V T D P R Q K V T P H T L R H T A S W L V E Q S V D L Y S V K E L L M G H H G T L L
UniRef90_UPI000255641B G F S N I P S A H T F R H F A T H L L L E N H G A D L H T V Q L L L G H H S S L
UniRef90_A7FIZ1 K K T Y P D F N F T F H D L R K A K G V S D L E H G T L S E K Q A I S G H H K N M
UniRef90_X1B859 R I K K E I T P H T L R H F A T H L L L E R G A D L R T V Q Q E M L G H H S D I
UniRef90_UPI0003F607E5 Q S L P S H V N P H K L L R H F A T H M L L E S S G N L R A V V Q T L L G H H A D L L
UniRef90_UPI0003B5E6B5 D V P D V G P H A L R H S A T H M L L E D G G A D L L R E V Q Q E M L G H H S S L L
UniRef90_B6B0J8 G L P A T A T P H A M R H F A T H L L S A G G A D L L R S I Q Q E L L G H H S S L L
UniRef90_UPI00034C0B17 D I G K T G S H C F R H T M A T L M A N G A D I R D I Q A M L G H H V N L
UniRef90_R5JTW9 G L T K H I T F H C F R H T Y A T L L E N G T D I Y T V S K M L G H H T N V L
UniRef90_A4AH05 P G S G G S G P H T L R H T A T H L L L E D G G A D L L R A V V Q Q E M L G H H A S L
UniRef90_UPI00037DB013 D A G L V A K N I S P H V L R H F A S H L L E G G A D L L R V I Q Q E L L G H H A D I
UniRef90_Q83N36 E I G R Y I S P H S L R H F A T H M L L E Q A G G A D L L R T V Q Q E L L G H H S I L
UniRef90_UPI0003721001 E H E P G G G P R G P H T L R H T A T H L L L E N G G A D L L R V V Q Q E L L G H H A S L
UniRef90_UPI0004657BFC Q L S E V T P H T L R H T A T H L L L E D G G A D L L R V V Q Q E L L G H H A S V
UniRef90_UPI00047C6574 G R A G L S T V T P H T L R H F A T H L L L E D G G A D V R V V Q Q E L L G H H A S V
UniRef90_UPI0003630988 R L P K D F R P L H G L L R H V F A S M L A S S Q V D M Y T L Q K L L T H H K S P
UniRef90_N9NZX5 G V N V D L H P H L L R H F A S H M L S N S R D L R A V V Q E M L G H H S N L
UniRef90_K9EE68 G L K K H I T F H T A R H T A T L L T L G V D L Y T V S K L L G H H T N I L
UniRef90_I4B829 F G E K K I R G A C H V L R H T A T H L L L E A G C D T R L I Q Q E M L G H H A S L
UniRef90_W6RY83 N I D K E I N C T V L R H F A M H L L E N G A D L A V V Q A E L L G L T Y L
UniRef90_G7UQ51 G L K D F R F H D L R H T A S W L T Q G G A G L A V V Q A E L L G L T Y L
UniRef90_G1UWH3 G L A D V R I H D L R H T F A S L V N A G H S L Y E V Q K L L G H H G D P
UniRef90_B1FJ84 R K R A K I D G L R F H D L R H E A T R L F E K G L N P M E V A S I T G H H K T L
UniRef90_UPI00047AC46B G I L K K V T F H C F R H T Y A T L L E A G G T D I Y V I S G N L G H H R Q V L
UniRef90_F6IPJ0 G L P P S A T P H A L R H F A T H L L L E A G A D L R S L Q Q E L L G H H A S L
UniRef90_R7RV84 G I T K H I T F H C F R H T Y A T L L L E G S T D L F T V S K M L G H H K N Q
UniRef90_UPI0003FABDF5 G L P Q H V T F H M L R H F A S H I L L E S S G D L R A V V Q Q E L L G H H A N L
UniRef90_F8AZ80 G V E G V S P H V L R H F A T H L L L E D G G A D L R V V Q Q E L L G H H A S V
UniRef90_UPI00035EC68C A A G L P S S K V S P H I L R H F A T H L L L E G G A D L R S V Q Q E L L G H H A D I
UniRef90_UPI000347A93A E L S E H V S P H I T F R H F A T H L L L E G G A D V R V V Q Q E L L G H H A S V
UniRef90_V9RD22 G I K K R V H P H L L R H T G A T M L E A G G D I R H L Q M L L G H H A N D L

UniRef90_K8E4F6	A T T M D Y A H V
UniRef90_S3K0N9	S T T Q R Y T H V
UniRef90_B2IA18	T T T Q I Y T H L D
UniRef90_Q7UY32	E T T S L Y T K V A
UniRef90_U2SAR9	E M T M R Y A H L
UniRef90_V9R9H9	S T T Q I Y T H L D
UniRef90_B3CT18	Q S T K F Y I H L
UniRef90_UPI00046A3029	S T T Q V Y T H L D
UniRef90_UPI00046AECEBF	T M T E H Y V R
UniRef90_I0JIM0	K T T D I Y A H V
UniRef90_K2EFL5	S M T E R Y A H L
UniRef90_I0KYD2	A S T Q I Y T H V S V
UniRef90_W5IK26	A T T Q R Y T H V S M
UniRef90_Q64WI5	K T T T I Y L H V
UniRef90_A8UZC8	L T T A R Y A K V
UniRef90_UPI0003711DD8	A T T E I Y T H V A
UniRef90_A0A023NVB3	S M L K R Y T H V D
UniRef90_UPI00047187C4	K S T Q I Y T H V
UniRef90_R7B871	A I T Q I Y T H
UniRef90_H0FA08	R T T R I Y L R
UniRef90_UPI0003062248	V M T E H Y V R
UniRef90_Q92C75	S S T Q I Y T H V
UniRef90_K2EBZ5	S T T Q I Y T H V
UniRef90_A2SD71	S V T K R Y S H L A
UniRef90_UPI0002557DFB	S T T Q A Y T A V D
UniRef90_C7MNC6	S T T Q I Y T H V S I
UniRef90_UPI00047632C3	R T T Q R Y T H V
UniRef90_U7UBP8	T T T Q I Y T H V
UniRef90_UPI00031DD323	S T T Q I Y T K V D
UniRef90_R6Z669	T T T L N Y V H
UniRef90_F2NVQ0	S T T Q R Y T H V T L
UniRef90_M9VCG7	A T T Q I Y T H V
UniRef90_R5QN16	S T T Q R Y T G L D
UniRef90_UPI000372C47C	R S T Q I Y T H V
UniRef90_I8QTY2	A T T Q I Y T H V
UniRef90_D2U145	G Q T A R Y D R
UniRef90_C6DHB5	S T T Q I Y T H L D
UniRef90_I9H2V8	K T T S I Y L H V
UniRef90_I9S9G8	Q T T Q I Y A K I V
UniRef90_A8MK22	R V T S R Y L H Q D L
UniRef90_E5XTJ3	V T T Q I Y T M V
UniRef90_W9V9C0	G T T Q I Y T H L D
UniRef90_UPI0003B4980B	S T T Q V Y T H L D
UniRef90_A6DBC8	S T T Q I Y T K L
UniRef90_B3ETL0	T T T E I Y T H L D
UniRef90_C9RBU5	A T T Q I Y T R L S L
UniRef90_G5F5K1	S T T Q L Y T H V D
UniRef90_UPI000372D216	Q T T Q I Y T H V
UniRef90_R4KSP8	R A T T I Y T H
UniRef90_U3AD91	S T T Q I Y T H L D
UniRef90_A0A024LV79	A T T Q L Y T H V T V
UniRef90_UPI000368B5DC	Q N T V R Y T Q
UniRef90_D4JT05	S T T L N Y V H
UniRef90_R5QKE5	Q A T Q V Y A R V D
UniRef90_UPI000289984C	T T T E I Y A K
UniRef90_S2ZMQ9	S T T Q I Y T H L S I
UniRef90_UPI00030F70DC	R M T A R Y L R
UniRef90_W1J6M9	S T T Q I Y T H L D
UniRef90_I8WPD1	A T T Q I Y A K V
UniRef90_Q0AFY9	T M T E T Y I R
UniRef90_U1N2J9	A T T Q V Y A H I
UniRef90_UPI0004671A01	A M T E R Y S H L
UniRef90_UPI000255641B	N T T Q I Y T H V A
UniRef90_A7FIZ1	G Q T A R Y D R I K I
UniRef90_X1B859	S T T Q I Y T H I D
UniRef90_UPI0003F607E5	A T T Q I Y T H L D
UniRef90_UPI0003B5E6B5	T T T Q R Y T H V S I
UniRef90_B6B0J8	S T T Q A Y T A V D
UniRef90_UPI00034C0B17	A T T Q L Y T Q V S I
UniRef90_R5JTW9	K T T Q I Y A K V
UniRef90_A4AH05	G T T Q L Y T H V
UniRef90_UPI00037DB013	S S T Q I Y T H V
UniRef90_Q83N36	N T T S V Y T K V T I
UniRef90_UPI0003721001	A S T Q V Y T H V
UniRef90_UPI0004657BCF	T T T Q V Y T L V T V
UniRef90_UPI00047C6574	T T T Q V Y T L V T V
UniRef90_UPI0003630988	Q M T Q R Y A
UniRef90_N9NZX5	T T T Q I Y T H V D
UniRef90_K9EE68	L T T Q L Y A K L V
UniRef90_I4B829	E T T Q R Y T H V S I
UniRef90_W6RY83	N S A E V Y
UniRef90_G7UQ51	T M A R R Y S H
UniRef90_G1UWH3	R T T M R Y A H L
UniRef90_B1FJ84	S M L Q R Y T H L
UniRef90_UPI00047AC46B	K T T E I Y T K I
UniRef90_F6IPJ0	G S T Q I Y T R V D
UniRef90_R7RV84	K T T Q I Y A K I V
UniRef90_UPI0003FABDFE	S T T Q I Y T H L D
UniRef90_F8AZ80	S T T Q I Y T L V T V
UniRef90_UPI00035EC68C	A T T Q I Y T H V
UniRef90_UPI000347A93A	A T T Q L Y T M V
UniRef90_V9RD22	R M I K R Y T H L

UniRef90_K2EA10
UniRef90_R7WVQ9
UniRef90_UPI000255584B
UniRef90_UPI000316DFA3
UniRef90_Q1GGQ5
UniRef90_X0RBB5
UniRef90_X7FF31
UniRef90_U2YJ37
UniRef90_UPI000368BF7E
UniRef90_B9JTR9
UniRef90_K7SL44
UniRef90_S5MAF5
UniRef90_D0Z210
UniRef90_R7JY38
UniRef90_Q7UVL0
UniRef90_A0RB99
UniRef90_UPI00047D5969
UniRef90_F2JQR3
UniRef90_UPI000475758E
UniRef90_S9TW3
UniRef90_UPI0003B6B9CF
UniRef90_F7NYK4
UniRef90_E6WS25
UniRef90_R6U9F9
UniRef90_A6G3J3
UniRef90_C6CCH8
UniRef90_Q2CFW8
UniRef90_I3IKC5
UniRef90_F0EZC1
UniRef90_R4KL5
UniRef90_V2RC77
UniRef90_W6JXJ9
UniRef90_Q8PGR5
UniRef90_R7DTN3
UniRef90_I0QTV0
UniRef90_E5YPS0
UniRef90_UPI0002556DBD
UniRef90_L0RAD9
UniRef90_Q2S460
UniRef90_C2UVD8
UniRef90_W1JAD0
UniRef90_UPI00030BC43B
UniRef90_K6QBG1
UniRef90_UPI00036D7FAD
UniRef90_UPI0002EB6BE3
UniRef90_A6FXR9
UniRef90_UPI0003656570
UniRef90_R9K514
UniRef90_S4YE00
UniRef90_W6K4I9
UniRef90_D9YEK6
UniRef90_UPI00046F3C75
UniRef90_D5AJ05
UniRef90_I3TE16
UniRef90_UPI0003F6A6EF
UniRef90_H6P269
UniRef90_G8UPP4
UniRef90_K2E810
UniRef90_M5TYG9
UniRef90_G6EXW5
UniRef90_X1G5A3
UniRef90_UPI000345F9EE
UniRef90_UPI000472B01C
UniRef90_D4DPT4
UniRef90_D5RI26
UniRef90_X7FPP6
UniRef90_UPI00047CA461
UniRef90_P55429
UniRef90_V6MBV9
UniRef90_UPI00037CCF47
UniRef90_R8VMI8
UniRef90_R6QYX1
UniRef90_B7RVJ7
UniRef90_UPI0004290A05
UniRef90_T0VM02
UniRef90_W8A9L1
UniRef90_N1WFK8
UniRef90_Z5XSK6
UniRef90_S3Y958
UniRef90_Q11DU1
UniRef90_H6R4Z1
UniRef90_A1BI54
UniRef90_W7Q8I7
UniRef90_B8KQ38
UniRef90_UPI000376B770
UniRef90_A0A022PM57
UniRef90_W6WL47
UniRef90_A8FLS2
UniRef90_W6K6X7
UniRef90_A1UR18
UniRef90_U1LNA7
UniRef90_C5ABE0

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

UniRef90_K2EA10 UniRef90_R7WPG9 UniRef90_UPI000255584B UniRef90_UPI000316DFA3 UniRef90_Q1GGQ5 UniRef90_X0RBB5 UniRef90_X7FF31 UniRef90_U2YJ37 UniRef90_UPI000368BF7E UniRef90_B9JTR9 UniRef90_K7SL44 UniRef90_S5MAF5 UniRef90_D0Z210 UniRef90_R7JY38 UniRef90_Q7UVL0 UniRef90_A0RB99 UniRef90_UPI00047D5969 UniRef90_F2JQR3 UniRef90_UPI000475758E UniRef90_S9TWT3 UniRef90_UPI0003B6B9CF UniRef90_F7NYK4 UniRef90_E6WS25 UniRef90_R6U9F9 UniRef90_A6G3J3 UniRef90_C6CCH8 UniRef90_Q2CFW8 UniRef90_I3IKC5 UniRef90_F0EZC1 UniRef90_R4KLV5 UniRef90_V2RC77 UniRef90_W6JXJ9 UniRef90_Q8PGR5 UniRef90_R7DTN3 UniRef90_I0QTV0 UniRef90_E5YPS0 UniRef90_UPI0002556DBD UniRef90_L0RAD9 UniRef90_Q2S460 UniRef90_C2UVD8 UniRef90_W1JAD0 UniRef90_UPI00030BC43B UniRef90_K6QB1 UniRef90_UPI00036D7FAD UniRef90_UPI0002EB6BE3 UniRef90_A6FXR9 UniRef90_UPI0003656570 UniRef90_R9K514 UniRef90_S4YE00 UniRef90_W6K4I9 UniRef90_D9YEK6 UniRef90_UPI00046F3C75 UniRef90_D5AJ05 UniRef90_I3TE16 UniRef90_UPI0003F6A6EF UniRef90_H6P269 UniRef90_G8UPP4 UniRef90_K2E810 UniRef90_M5TYG9 UniRef90_G6EXW5 UniRef90_X1G5A3 UniRef90_UPI000345F9EE UniRef90_UPI000472B01C UniRef90_D4DPT4 UniRef90_D5RI26 UniRef90_X7FPP6 UniRef90_UPI00047CA461 UniRef90_P55429 UniRef90_V6MBV9 UniRef90_UPI00037CCF47 UniRef90_R8VMi8 UniRef90_R6QYX1 UniRef90_B7RVJ7 UniRef90_UPI0004290A05 UniRef90_T0VM02 UniRef90_W8A9L1 UniRef90_N1WFK8 UniRef90_Z5XSK6 UniRef90_S3Y958 UniRef90_Q11DU1 UniRef90_H6R4Z1 UniRef90_A1BI54 UniRef90_W7Q8I7 UniRef90_B8KQ38 UniRef90_UPI000376B770 UniRef90_A0A022PM57 UniRef90_W6WL47 UniRef90_A8FLS2 UniRef90_W6K6X7 UniRef90_A1UR18 UniRef90_U1LNA7 UniRef90_C5ABE0

100 110 120

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

UniRef90_K2EAI0 UniRef90_R7WVQ9 UniRef90_UPI000255584B UniRef90_UPI000316DFA3 UniRef90_Q1GGQ5 UniRef90_X0RBB5 UniRef90_U7FF31 UniRef90_U2YJ37 UniRef90_UPI000368BF7E UniRef90_B9JTR9 UniRef90_K7SL44 UniRef90_S5MAF5 UniRef90_D0Z210 UniRef90_R7JY38 UniRef90_Q7UVL0 UniRef90_A0RB99 UniRef90_UPI00047D5969 UniRef90_F2JQR3 UniRef90_UPI000475758E UniRef90_S9TWT3 UniRef90_UPI0003B6B9CF UniRef90_F7NYK4 UniRef90_E6WS25 UniRef90_R6U9F9 UniRef90_A6G3J3 UniRef90_C6CCH8 UniRef90_Q2CFW8 UniRef90_I3IKC5 UniRef90_F0EZC1 UniRef90_R4KLV5 UniRef90_V2RC77 UniRef90_W6JXJ9 UniRef90_Q8PGR5 UniRef90_R7DTN3 UniRef90_I0QTV0 UniRef90_E5YPS0 UniRef90_UPI0002556DBD UniRef90_L0RAD9 UniRef90_Q2S460 UniRef90_C2UVD8 UniRef90_W1JAD0 UniRef90_UPI00030BC43B UniRef90_K6QBG1 UniRef90_UPI00036D7FAD UniRef90_UPI0002EB6BE3 UniRef90_A6FXR9 UniRef90_UPI0003656570 UniRef90_R9K514 UniRef90_S4YE00 UniRef90_W6K4I9 UniRef90_D9YEK6 UniRef90_UPI00046F3C75 UniRef90_D5AJ05 UniRef90_I3TE16 UniRef90_UPI0003F6A6EF UniRef90_H6P269 UniRef90_G8UPP4 UniRef90_K2E810 UniRef90_M5TYG9 UniRef90_G6EXW5 UniRef90_X1G5A3 UniRef90_UPI000345F9EE UniRef90_UPI000472B01C UniRef90_UPI000472B01C UniRef90_D4DPT4 UniRef90_D5RI26 UniRef90_X7FPP6 UniRef90_UPI00047CA461 UniRef90_P55429 UniRef90_V6MBV9 UniRef90_UPI00037CCF47 UniRef90_R8VMI8 UniRef90_R6QYX1 UniRef90_B7RVJ7 UniRef90_UPI0004290A05 UniRef90_T0VM02 UniRef90_W8A9L1 UniRef90_N1WFK8 UniRef90_Z5XSK6 UniRef90_S3Y958 UniRef90_Q11DU1 UniRef90_H6R4Z1 UniRef90_A1BI54 UniRef90_W7Q8I7 UniRef90_B8KQ38 UniRef90_UPI000376B770 UniRef90_A0A022PM57 UniRef90_W6WL47 UniRef90_A8FLS2 UniRef90_W6K6X7 UniRef90_A1UR18 UniRef90_U1LNA7 UniRef90_C5ABE0

UniRef90_K2EAI0 R T T K K Y K K
UniRef90_R7WQP9 A T T Q L Y T H V S V
UniRef90_UPI000255584B S T T A L Y T A V
UniRef90_UPI000316DFA3 R M V Q R Y T H L
UniRef90_Q1GGQ5 A T T E I Y T H V
UniRef90_X0RBB5 S T T Q I Y T H V D
UniRef90_X7FF31 A T T E I Y T H V
UniRef90_U2YJ37 A T T Q I Y T H V D
UniRef90_UPI000368BF7E S T T Q I Y T H V D
UniRef90_B9JTR9 S T T Q I Y T G V D
UniRef90_K7SL44 A T T Q I Y T H V
UniRef90_S5MAF5 S I T M I Y G H
UniRef90_D0Z2I0 T T T Q R Y D R
UniRef90_R7JY38 G I T M N Y V H L
UniRef90_Q7UVL0 Q T T M V Y L H L
UniRef90_A0RB99 E M V R K Y I
UniRef90_UPI00047D5969 A T T Q L Y T H V S V
UniRef90_F2JQR3 Q T T L I Y T V H
UniRef90_UPI000475758E E T T M I Y T H V
UniRef90_S9TWT3 I T T D I Y A H V
UniRef90_UPI0003B6B9CF L T T E R Y T K V
UniRef90_F7NYK4 N T T Q V Y T H L D
UniRef90_E6WS25 A M T S V Y L E
UniRef90_R6U9F9 G T T E I Y T H L
UniRef90_A6G3J3 E M T M R Y A H L A
UniRef90_C6CCH8 N M L K R Y T H L
UniRef90_Q2CFW8 G T T E I Y T H V
UniRef90_I3IKC5 S T T Q I Y T H I
UniRef90_F0EZC1 T T T E I Y T H V A
UniRef90_R4KLV5 D T T K L Y
UniRef90_V2RC77 S T T T R Y D
UniRef90_W6JXJ9 T T T Q I Y T K V T I
UniRef90_Q8PGR5 S T T Q I Y T L V A
UniRef90_R7DTN3 N T T M N Y V H
UniRef90_I0QTV0 S Q T A R Y D R I A I
UniRef90_E5YPS0 A T T R K Y V Q I
UniRef90_UPI0002556DBD R M T E R Y L R
UniRef90_L0RAD9 S V T E I Y T H V S L
UniRef90_Q2S460 R T T M Q Y V H V
UniRef90_C2UVD8 S M T S V Y S H V
UniRef90_W1JAD0 D T T Q I Y T Q V A I
UniRef90_UPI00030BC43B K T T Q R Y A H L
UniRef90_K6QBG1 A A T Q V Y T H V
UniRef90_UPI00036D7FAD S T T Q I Y T E V D
UniRef90_UPI0002EB6BE3 S A T Q V Y T H L D
UniRef90_A6FXR9 E M T M R Y A H L A
UniRef90_UPI0003656570 S T T E R Y L Q
UniRef90_R9K5I4 N I T E I Y T H V T V I
UniRef90_S4YE00 A T T Q R Y T H V S I
UniRef90_W6K4I9 T T T L R Y A H L
UniRef90_D9YEK6 S M T E R Y A K L
UniRef90_UPI00046F3C75 K M T
UniRef90_D5AJ05 K T T M I Y A H V
UniRef90_I3TE16 K T T Q V Y L H L T I
UniRef90_UPI0003F6A6EF S T T Q I Y T H L D
UniRef90_H6P269 N M L K R Y T H L
UniRef90_G8UPP4 A S T S V Y T H I
UniRef90_K2E8I0 S T T Q I Y T H V
UniRef90_M5TYG9 T T T E I Y V R
UniRef90_G6EXW5 S T T Q I Y T H V
UniRef90_X1G5A3 N T T Q I Y
UniRef90_UPI000345F9EE S T T Q I Y T H L D
UniRef90_UPI000472B01C S T T Q I Y T H L D D
UniRef90_D4DPT4 S A T Q I Y T K L D
UniRef90_D5RI26 A T T Q I Y T R V
UniRef90_X7FPP6 E Q T A K Y V R
UniRef90_UPI00047CA461 R I T M N Y G H V
UniRef90_P55429 A T T A H Y L R I A
UniRef90_V6MBV9 R T T S R Y L H V
UniRef90_UPI00037CCF47 T T T A R Y A H V
UniRef90_R8VMI8 R M V M R Y T H L
UniRef90_R6QYX1 N I T S I Y V H
UniRef90_B7RVJ7 K V T M R Y A H L
UniRef90_UPI0004290A05 A T T N R Y A H L
UniRef90_T0VM02 A T M D K Y V H V
UniRef90_W8A9L1 A T T Q L Y T H V S I
UniRef90_N1WFK8 S T T Q I Y L S V
UniRef90_Z5XSK6 K V T Q I Y A R I N L
UniRef90_S3Y958 Q T T Q I Y T H V
UniRef90_Q11DU1 S T T Q I Y T H V
UniRef90_H6R4Z1 A T T Q L Y T H V S V
UniRef90_A1BI54 K T T Q I Y G R I V
UniRef90_W7Q8I7 S T T Q I Y T H L D
UniRef90_B8KQ38 K V T M R Y S H L
UniRef90_UPI000376B770 E M F D R Y N T V D
UniRef90_A0A022PM57 T T T A L Y D
UniRef90_W6WL47 S T T Q I Y T H V
UniRef90_A8FLS2 N T S R L Y T H F D
UniRef90_W6K6X7 S T T Q R Y T E V D
UniRef90_A1UR18 S T T Q V Y T E I D
UniRef90_U1LNA7 G T T Q I Y T H V S L
UniRef90_C5ABE0 R N L K R Y T N L

UniRef90_A6LE90
UniRef90_B4SDZ2
UniRef90_I4VYJ5
UniRef90_UPI00021944BB
UniRef90_I0JSE5
UniRef90_R6U5Q2
UniRef90_UPI00030AC16F
UniRef90_UPI00036FB5D6
UniRef90_U6F0V8
UniRef90_W6LWK9
UniRef90_X1JJT7
UniRef90_UPI00046A134D
UniRef90_Q6CZ61
UniRef90_R6X7Q3
UniRef90_UPI00036F5088
UniRef90_C3MHX2
UniRef90_Q989Z0
UniRef90_W8AAV5
UniRef90_K2G4R3
UniRef90_R6PM96
UniRef90_R3TNB8
UniRef90_V7PZ13
UniRef90_G7Z7U7
UniRef90_B0U712
UniRef90_W1N9H1
UniRef90_Q8XLE7
UniRef90_B7JCH8
UniRef90_V7ZBV0
UniRef90_F0H892
UniRef90_UPI0004768F36
UniRef90_K9PAH9
UniRef90_UPI00047D9C7C
UniRef90_K9H4P3
UniRef90_V5PY60
UniRef90_A6ESZ1
UniRef90_UPI0004707F0A
UniRef90_UPI0003635BAF
UniRef90_G5IAX7
UniRef90_W1SNL8
UniRef90_T4VYS6
UniRef90_A0A031FZ55
UniRef90_UPI0004063076
UniRef90_UPI00047271D3
UniRef90_C6AAZ2
UniRef90_A0A015SJT3
UniRef90_UPI0002E3813B
UniRef90_R9IJX5
UniRef90_E2ZGG8
UniRef90_U7UTA2
UniRef90_K9WJP2
UniRef90_N2A8S5
UniRef90_D4J4V5
UniRef90_UPI00023765E1
UniRef90_UPI0004154E3E
UniRef90_C9M987
UniRef90_G2HUJ3
UniRef90_UPI00036CD45D
UniRef90_C7RME0
UniRef90_G1UP96
UniRef90_Q9CFN4
UniRef90_I9ET42
UniRef90_N6XRD7
UniRef90_Q81H76
UniRef90_UPI0003733B94
UniRef90_V1L607
UniRef90_D1PRY2
UniRef90_H2BW71
UniRef90_B9L015
UniRef90_UPI0003B2F7C5
UniRef90_UPI000416196D
UniRef90_U5UCI0
UniRef90_S4CHE0
UniRef90_L0DA42
UniRef90_R5I4P7
UniRef90_UPI000361535B
UniRef90_W2EG67
UniRef90_UPI000377F7F2
UniRef90_UPI000310B2A4
UniRef90_H0HI54
UniRef90_G8NUQ1
UniRef90_E5AP94
UniRef90_I3DIW8
UniRef90_D6CZZ2
UniRef90_V1SIF7
UniRef90_UPI0004694824
UniRef90_K2AYQ2
UniRef90_D4J650
UniRef90_M9GTI7
UniRef90_UPI000464191D
UniRef90_A5N1F6
UniRef90_A0A017HLQ6
UniRef90_W0IZY3

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

UniRef90_A6LE90
UniRef90_B4SDZ2
UniRef90_I4VYJ5
UniRef90_UPI00021944BB
UniRef90_I0JSE5
UniRef90_R6U5Q2
UniRef90_UPI00030AC16F
UniRef90_UPI00036FB5D6
UniRef90_U6F0V8
UniRef90_W6LWK9
UniRef90_X1JJT7
UniRef90_UPI00046A134D
UniRef90_Q6CZ61
UniRef90_R6X7Q3
UniRef90_UPI00036F5088
UniRef90_C3MHX2
UniRef90_Q989Z0
UniRef90_W8AAV5
UniRef90_K2G4R3
UniRef90_R6PM96
UniRef90_R3TNB8
UniRef90_V7PZ13
UniRef90_G7Z7U7
UniRef90_B0U712
UniRef90_W1N9H1
UniRef90_Q8XLE7
UniRef90_B7JCH8
UniRef90_V7ZBV0
UniRef90_F0H892
UniRef90_UPI0004768F36
UniRef90_K9PAH9
UniRef90_UPI00047D9C7C
UniRef90_K9H4P3
UniRef90_V5PY60
UniRef90_A6ESZ1
UniRef90_UPI0004707F0A
UniRef90_UPI0003635BAF
UniRef90_G5IAX7
UniRef90_W1SNL8
UniRef90_T4VYS6
UniRef90_A0A031FZ55
UniRef90_UPI0004063076
UniRef90_UPI00047271D3
UniRef90_C6AAZ2
UniRef90_A0A015SJT3
UniRef90_UPI0002E3813B
UniRef90_R9IJX5
UniRef90_E2ZGG8
UniRef90_U7UTA2
UniRef90_K9WJPJ2
UniRef90_N2A8S5
UniRef90_D4J4V5
UniRef90_UPI00023765E1
UniRef90_UPI0004154E3E
UniRef90_C9M987
UniRef90_G2HUJ3
UniRef90_UPI00036CD45D
UniRef90_C7RME0
UniRef90_G1UP96
UniRef90_Q9CFN4
UniRef90_I9ET42
UniRef90_N6XRD7
UniRef90_Q81H76
UniRef90_UPI0003733B94
UniRef90_V1L607
UniRef90_D1PRY2
UniRef90_H2BW71
UniRef90_B9L0I5
UniRef90_UPI0003B2F7C5
UniRef90_UPI000416196D
UniRef90_U5UCIO
UniRef90_S4CHE0
UniRef90_L0DA42
UniRef90_R5I4P7
UniRef90_UPI000361535B
UniRef90_W2EG67
UniRef90_UPI000377F7F2
UniRef90_UPI000310B2A4
UniRef90_H0HI54
UniRef90_G8NUQ1
UniRef90_E5AP94
UniRef90_I3DIW8
UniRef90_D6CZZ2
UniRef90_V1SIF7
UniRef90_UPI0004694824
UniRef90_K2AYQ2
UniRef90_D4J650
UniRef90_M9GTI7
UniRef90_UPI000464191D
UniRef90_A5N1F6
UniRef90_UPI00047HLQ6
UniRef90_W0IZY3

UniRef90_A6LE90 S E I P M L A K R S P H V L R R H F A T S M L N N G A E L N A V K D L L G H S S 130 140 150 160
UniRef90_B4SDZ2 T D Q K K K N P H L L R R H T A T H L L N N S A G A H D L N R S T V S Q D M L G H H S N L
UniRef90_I4VYJ5 G I V K P A T C H T L R R H F A T H L L N N S A G A H D L N R S T V S Q D M L G H H S N L
UniRef90_UPI00021944BB L T K A G D L P K V T R L H D L R R H T M V T L L E A G A A L V K A I Q Q Q R A G H H S S S
UniRef90_I0JSE5 N I K G L P F Y G V H T F R H L N A S L L I E A G A A L V K A I Q Q Q R A G H H S S S
UniRef90_R6U5Q2 G L P F Y G V H T F R H L N A S L L I E A G A A L V K A I Q Q Q R A G H H S S S
UniRef90_UPI00030AC16F N V H I H P H M L R R H T A T T M L A N G I D I L E M V V S K A T L G H H A N L
UniRef90_UPI00036FB5D6 I V K P L G V T A R F H D L R R H T A T T M L A N G I D I L E M V V S K A T L G H H A N L
UniRef90_U6F0V8 G L K D I T K F H S L R R H T A T R L F E Q R A D V P L Y N I P L K Y N V R L W L G H H S D I
UniRef90_W6LWK9 G I R V I T P V H L L R R H T A S W L A F Q R A D V P L Y N I P L K Y N V R L W L G H H S D I
UniRef90_X1JJT7 G L P A D V S P H A L R R H F A T H L L D H G A G A D L L R S V Q E L L G H H E N S L L
UniRef90_UPI00046A134D E Q E P G G G P S G P H T L R H T A T H L L E N G G A D L L R S V Q E L L G H H E N S L L
UniRef90_Q6CZ61 G H L D K P G A C H V F R H M A T Q M L E N G G A D T R R H I Q A L L G H H E K L L
UniRef90_R6X7Q3 N L K H L T F H G L R R H S G S H M I E C G G V P I S V I S R K V G H H S S S V L
UniRef90_UPI00036F5088 S S K R K L S P H L L R R H F A S H L L E E N G G A D L L R A I V K Q D L L G H H S S S
UniRef90_C3MHX2 G I R V A V K I L S P H V L R R H F A S H L L E A N G G A D L L R A I V K Q D L L G H H S S S
UniRef90_Q989Z0 A P T L S D K R I H P H S L R R H T A I H L L K A G G V D F V T V S S Q W L G H H A S L L
UniRef90_W8AAV5 Q Q T A V Q K K I S A H A I L R R H F A T H L L E N G G A D L L R T R A I V K Q E L L G H H Q S S
UniRef90_K2G4R3 I K A W I L K D I S A H A I L R R H F A T T L L E N G G A D L L R T R A I V K Q E L L G H H K N I
UniRef90_R6PM96 L R K H I S P H T L R R H F A T H M L E N G A G A D L L R V V Q E L L G H H S D V
UniRef90_R3TNB8 L S S N N L T M I H F H Q L R H T A T R L L E N G A G A D V I A R S V S A M L L G H H S
UniRef90_V7PZ13 G I S K K V T P H V I R R H F A T D L L E N G G A D I R S V S A M L L G H H A N I
UniRef90_G7Z7U7 Q L S R R V T P H M L R R H T A T R L L E N G G V D I R F V Q Q R L L G H H Q S S I
UniRef90_B0U712 G I A K E V F Q F R D L R A K A A T D A D L A G D M R Q A Q L L G H H S S V
UniRef90_W1N9H1 R V A G I E R P L S P H T L R R H F A T H L L N H A G G A D L L R V V Q Q L L L G H H S D L
UniRef90_Q8XLE7 K I D K Q I T P H T L R R N F A K R F L M S G G D I Y T V S R R L L G H H S D I
UniRef90_B7JCH8 T T K P A T P H T L R R H T A T A L L R S G Y D I R T V Q R D L L G H H S D V I
UniRef90_V7ZBV0 C D T I A L P D A T R F H D L R H T A S R L V M A G G V D L N T V R E L L G H H S D I
UniRef90_F0H892 K Q N T V P D D I G C H A L R R H K A I H L L E A N V N L V W I R D F L G H H S S V
UniRef90_UPI0004768F36 K Q D H P H L Q L S C H K L R R H Y A T M L L E N N N G D I R V V K E L L G H H A S S
UniRef90_K9PAH9 G I E K R L T V H S L R R H Y A T H L L E N N G M D L R V I Q S L L G H H A S S
UniRef90_UPI00047D9C7C G L P E T A T P H A L R R H F A T H L L E R G G G D L R A I V K Q E L L G H H A S L
UniRef90_K9H4P3 G L P E T A T P H A L R R H F A T H L L E Q R S G G D L R A I V K Q E L L G H H A N L
UniRef90_V5PY60 G L P E T H V H P H M L R R H F A T H V L L E Q R S G G D L R A I V K Q E M L G H H S N I
UniRef90_A6ESZ1 S Q K V K K S P H I L R R H F A T H L L E N E G G A D L L N S V K E L L G H H A S L
UniRef90_UPI0004707F0A G I D K T I T F H M A R H T F A T T L A N G G V P I Y T V S S K M L G H H T N L
UniRef90_UPI0003635BAF I T K K I T F H S F R H T F A T L L E S K G T D I Y T V S S K M L G H H R D L
UniRef90_G5IAX7 D I P L H I T P H M F R H F A T L L L E Q D V D I R Y I Q Q R M L G H H S S I
UniRef90_W1SNL8 G I K K S I N P T H R Q L R H Y A T H M I N N Q G A N I A V I V S S L L G H H E K S
UniRef90_T4VYS6 N I N K S I N P T I L R N S F A I H L L E N N Q G A N I A V I V S S K I L G N S L
UniRef90_A0A031FZ55 G P V V I G A D A V G P H A L R R H S A T H L L D G G A D L R S V Q E L L G H H A S L
UniRef90_UPI0004063076 E I K V I T P E A L R R H F A A A L V E R G G A D I E A V S T L L M M G H H V S P
UniRef90_UPI00047271D3 G V A E V I S F E A L L R R H T A T R C H A G A G V N V A T I S T L L L G H H V S V
UniRef90_C6AAZ2 G I E S D S F S P H V L R R H F A S H L L Q N G A D L R A V S Q H L L G H H S D I
UniRef90_A0A015SJT3 R I E K H I S F H C S R H T F G T M M L L G A D L L R S T T S K H L M G H H S N I
UniRef90_UPI0002E3813B R I Y K H I L S P H S L R R H F A T H L L E Q G L D L R S T I Q H L L G H H A S L
UniRef90_R9JX5 G I V W Q D E R K G F H T M R R T A S R M L A S D V S I L D T I K E V L G H H S S P
UniRef90_E2ZGG8 G L K H I R F H D L R R H S C A S L M M N A G I N P K K Q V Q E R W L G H H S T F
UniRef90_U7UTA2 K D A K I M R H I R F H D L R R H T A T L L L A G I N P K I V Q E R L L G H H A S V
UniRef90_K9WVPJ2 G V V G V S T H S F R R T A T Q M C N A G L P L R H I Q E I S G H H N D L L
UniRef90_N2A8S5 G I E G E I T P T L R R H F A A G L V H N A G A D L K T V A V A D L L G H H G Y A D S V
UniRef90_D4J4V5 G I T G W H V G T H A L R R T A V G S L Y N A G N D L K T V A V A D L L G H H G Y A D S V
UniRef90_UPI00023765E1 G L P D L R M H D L R R H F A S N L V N A G Q S I Y V V G K L L G H H S Q V
UniRef90_UPI0004154E3E K V P K I K H H G L R R H T V A T L L L A G G V N P K N V V K E I L G H H S D I
UniRef90_C9M987 N I T N F H W H D L R H F A S K L V M A G G V D L K N T V R E L L G H H S T I
UniRef90_G2HUJ3 A N D D R K N R V V T H T L R R H T A S H L A I K G T P I Y T I Q K L M N H S K D I
UniRef90_UPI00036CD45D G I E L P E G Q S T H V L R R H T A S H F M M N G G N I L V L Q K I L G H H S T I
UniRef90_C7RME0 G I A P E G G I H G L R R H F A T H L L E A G V D L Y S I G R L L G H H G H I L L
UniRef90_G1UP96 G L A F T V S P H S L R R H F A T H L L A A G A D L R S V Q E L L G H H R R L L
UniRef90_Q9CFN4 E K E I E P I R I H A F R H T A S L L E S A G M S L K S V Q Y R L G H H A D S V
UniRef90_I9ET42 G I E K D F T Y H S S R H T A T L A S A G A D I R T V S K E V L G H H S S V
UniRef90_N6XRD7 G I D K P V S C H A L R R H F A T H M L E G G Y D I R T V Q E L L G H H A D V
UniRef90_Q81H76 A V P K I R F H D L R H T A T L L Q M A G G V D V K V I S E R L L G H H S N I
UniRef90_UPI0003733B94 L H S G S E Q H V H P H M L R H F A S H M L Q S S G D L R A V I Q E L L G H H A N L
UniRef90_V1L607 A H I N K P G A C H I F R H M A T Q M L D N G A D T R H I Q A I L G H H E K L
UniRef90_D1PRY2 G L P Q N L S V H S L R R H T N A S L L A G G V D I R T V A G L L G H H S Q P
UniRef90_H2BW71 G I T K H I T F H S A R H T H A V L L E N G A D I Y T V S K V L G H H K E I
UniRef90_B9L015 G L P E V T P H T L R R H F A V R A L V D G W D L R D L Q R V L G H H V S P
UniRef90_UPI0003B2F7C5 G L N S D I T P F T L R R H F A V L L V D N G A D V L S S V K E L L M G Y S E S
UniRef90_UPI000416196D S G K V K T S P H V L R R H T A T H L L N N G A D L S S V K E L L G H H A S L
UniRef90_U5UC10 G I R K K K N G A H M L R R H T F A T L L K K Q K D L V V Q E A L G H H A N L
UniRef90_S4CHE0 K L K Y V S T H G F R H T A S L L E S G A D L K E I Q A R L G H H A D I
UniRef90_L0DA42 V G H G L D P S A S P H T L R R H F A T H L L E D R G A D L R S V Q E L L G H H A N L
UniRef90_R5I4P7 K R E Y F K H N Y T P H S M R H T A T H M L E A G V P L I V V K N F L G H H V S L
UniRef90_UPI000361535B V V Q G L D R R V H P H D L R H F A S H L L E S S G D L R A V Q E L L G H H A D K
UniRef90_W2EG67 N L K R V R F H D L R H S A T L L E A G A S M K A V Q Q R L L G H H S K H
UniRef90_UPI000377F7F2 G A F S T E E K K S P H V L R R H T A T H L L E Q G A D L N A V K E L L G H H A N L
UniRef90_UPI000310B2A4 G Y R K W T Q P G F H E V R A L S L L Y K R A G K D G G S R I A G H H T E
UniRef90_H0H154 D I K Q L R G F H D V L R H E A S R L F E R G L N V I E V S Q R I A G H H K T E
UniRef90_G8NUQ1 K V S N F T W H A L R R H T F S R L V M A G V D L R T A Q E L A G H H K T I
UniRef90_E5AP94 R D P K Y L I G L H F H D L R A K A L T D L K R L K G A T A Q A L A G H H T T E
UniRef90_I3DIW8 G L S S H L N P H K L R R H F A T H M L E A S S D L R A V A Q E L L G H H S N L
UniRef90_D6CZZ2 G I T K H I T F H C F R H T Y A T L L A A G S T D L Y T I S K M L T H H S N V
UniRef90_V1SIF7 G L N L V V H P H M L R H A C G Y L A N G G A D L T R S I Q D Y L G H H K S L
UniRef90_UPI0004694824 S E K V K K S P H V L R R H F A T H M L N N G A D L N S I K E L L G H H S S L
UniRef90_K2AYQ2 R L P I K I S P H G I R R H F A S D L L M N G A D L R S I Q E M L G H H K N I
UniRef90_D4J650 G L Q N G E Y L F K S H D Y R H T A T N F Y E H G V S L Q S I R D Y L G H H T F E
UniRef90_M9GT17 A R I D K P G A C H I F R H M A T Q M L D N G A D T R H I Q A I L G H H E K L
UniRef90_UPI000464191D E N T K I I K D I T L H T L R R H S A T H L L Q K E V P L E S I K H F L G H H S L
UniRef90_A5N1F6 N E S I I N D D V N F H G L R R H T A T L L M T G G V D I T T V S K R L G H H A R T
UniRef90_A0A017HLQ6 A A Q A N G R P W R F H D I R R A T L L M T G G G V S R F I E R V L G H H A D R
UniRef90_W01ZY3 G L P L D I L S P H K L R R H Y A T H L L N A G A D L R L V Q E L L G H H A S L

UniRef90_A6LE90 A S T S V Y T H
UniRef90_B4SDZ2 S T T E I Y T H V
UniRef90_I4VYJ5 A T T Q I Y T H V
UniRef90_UPI00021944BB S T T L I Y T H L
UniRef90_I0JSE5 K I T S V Y G H L
UniRef90_R6U5Q2 T T T L I Y S H
UniRef90_UPI00030AC16F N T T K H Y I N I
UniRef90_UPI00036FB5D6 R T T Q L Y A D V
UniRef90_U6F0V8 T T T M I Y T H V
UniRef90_W6LWK9 S V T E R Y A H L A
UniRef90_X1JJT7 S T T Q I Y T H V
UniRef90_UPI00046A134D A S T Q V Y T H V
UniRef90_Q6CZ61 E T T Q I Y T R V A I
UniRef90_R6X7Q3 Q V T D A Y
UniRef90_UPI00036F5088 A S T E V Y T H
UniRef90_C3MHX2 S T T Q I Y T H V
UniRef90_Q989Z0 N T T M R Y A R A D I
UniRef90_W8AAV5 K T T Q I Y T H V
UniRef90_K2G4R3 T T T Q V Y T H V
UniRef90_R6PM96 S T T Q L Y T H V
UniRef90_R3TNB8 K M T L I Y I
UniRef90_V7PZ13 A T T Q I Y T H I
UniRef90_G7Z7U7 S T T E I Y T T V
UniRef90_B0U712 T M T E H Y V R
UniRef90_W1N9H1 S T T Q I Y T H V A
UniRef90_Q8XLE7 R T T Q
UniRef90_B7JCH8 S T T M I Y T H V
UniRef90_V7ZBV0 R M T L R Y A H L A
UniRef90_F0H892 T T T E V Y A R
UniRef90_UPI0004768F36 E T T M I Y T H I
UniRef90_K9PAH9 N T T A R Y A H I
UniRef90_UPI00047D9C7C S T T Q I Y T A V D
UniRef90_K9H4P3 S T T Q R Y T E V D D
UniRef90_V5PY60 S T T Q I Y T K L D
UniRef90_A6ESZ1 A S T Q V Y T H
UniRef90_UPI0004707F0A T T T Q I Y A K V V
UniRef90_UPI0003635BAF K T T Q V Y A K I V
UniRef90_G5IAX7 T T T E I Y T H V
UniRef90_W1SNL8 E T T K I Y A Q L
UniRef90_T4VYS6 S S L Q Y Y
UniRef90_A0A031FZ55 G T T Q I Y T H V
UniRef90_UPI0004063076 V S T V R Y A R
UniRef90_UPI00047271D3 K M T L I Y T H
UniRef90_C6AAZ2 A T T Q I Y T H V
UniRef90_A0A015SJT3 Q T T E I Y A K I V
UniRef90_UPI0002E3813B N T T A R Y T Q L
UniRef90_R9IJX5 D S T K P I S V E L
UniRef90_E2ZGG8 S T T A I Y A H L D
UniRef90_U7UTA2 D M T L D Y S H L T L
UniRef90_K9WJPJ2 A T L Q R Y L E V
UniRef90_N2A8S5 S A A Q V Y A K
UniRef90_D4J4V5 S T T K A Y V R I D V
UniRef90_UPI00023765E1 K T T Q R Y A H L
UniRef90_UPI0004154E3E R V T L D Y T H V
UniRef90_C9M987 E M T L R Y A H L A
UniRef90_G2HUJ3 T M T L R Y A K L A
UniRef90_UPI00036CD45D T M T M R Y A H F A
UniRef90_C7RME0 S T T S R Y L H L A
UniRef90_G1UP96 T T T Q R Y T Q V S L
UniRef90_Q9CFN4 K T T M I Y T H I
UniRef90_I9ET42 T S T E V Y A K V N L
UniRef90_N6XRD7 K T T M I Y T H V
UniRef90_Q81H76 K I T L D Y S H V
UniRef90_UPI0003733B94 A T T Q I Y T S L D
UniRef90_V1L607 E T T Q V Y T R V A I
UniRef90_D1PRY2 S T T L I Y A H
UniRef90_H2BW71 R T T Q V Y A K L V
UniRef90_B9L015 A T T Q V Y R Q L
UniRef90_UPI0003B2F7C5 N T I S R Y I K
UniRef90_UPI000416196D S S T Q I Y T H
UniRef90_U5UCIO N T S R I Y T H F D
UniRef90_S4CHE0 Q T T A I Y T H V
UniRef90_L0DA42 T T T Q I Y T H V
UniRef90_R5I4P7 Q T T Q I Y T E I
UniRef90_UPI000361535B S T T Q V Y T H L D
UniRef90_W2EG67 Q T T A I Y A H V
UniRef90_UPI000377F7F2 A A T Q L Y T H
UniRef90_UPI000310B2A4 G M T R N Y Q K
UniRef90_H0HI54 R M L K R Y T H L
UniRef90_G8NUQ1 S M T V R Y A H L A
UniRef90_E5AP94 G M T A H Y T K
UniRef90_I3DIW8 A T T Q I Y T H L
UniRef90_D6CZZ2 A T T Q V Y A D V V
UniRef90_V1SIF7 S H T V R Y T
UniRef90_UPI0004694824 A S T Q V Y T
UniRef90_K2AYQ2 S T T Q I Y T H I
UniRef90_D4J650 E M T M Q Y I
UniRef90_M9GTI7 E T T Q I Y T K V A I
UniRef90_UPI000464191D E S T Q I Y T H I V
UniRef90_A5N1F6 S T T T I Y S H
UniRef90_A0A017HLQ6 G V T A I Y D R
UniRef90_W0IZY3 N T T Q I Y T H V S V

1 10 20 30 40
UniRef90_B2TNZ3 E N L E K L R E A C E T K R E K A L F E L L D S T A C R I S E I
UniRef90_UPI000370F883 V F S M K E Q R L I E Y A V Q S S A D K R A L G I L L C F Y T G I R L S G E L
UniRef90_UPI00036D54CE R R P T Q D E L D R I I S A L E A Q Q I P V G R V I R F A V A T A M R Q D E I
UniRef90_K8PKT6 E L E R L F R A L P N I K H K T L L L T A F S C G L R V S E I
UniRef90_UPI00046EDA99 T I E E A N R F L T C V A D D Q H Y Y L P Y L L A I H T G M R Q G G E I
UniRef90_F5SDH8 L D E I R K Y F T K N V E D L Q Y L E Y F E L S L S T M L R V N A V
UniRef90_K4Z6F1 R F L S Q A E A G A F L D A L A S V D R V Y G D A L R L L L T G A R K S E I
UniRef90_F4QI36 T L S K E E L T E K V D K K S N L W H Y L L N Y V A A A T G M R L G E I
UniRef90_UPI0002554E41 E I Y S G E E L E Q L F T A I Q G D P A E F G V I M A A F Y G L R R S E I
UniRef90_D4K1Q4 R V A L S M N E V Q M L V D T P C K D D T L K R A F L F S I L T G L R H S D L
UniRef90_R5KU81 L S D D E V A A V R D V L D E R Y R L T F D L L L G T G M R W G E A
UniRef90_L7LN12 Q F L R E A E M D R L L D D I P R G E T Y D Y T I I M M F Y Q T G M R L S G E L
UniRef90_J7LJ21 V F S K Q E Q E M V L S D A E R A M R V R M Q A I V E L L F Y A T G L R L S E A
UniRef90_L1N958 L T I E E V D K I I R I V E K D G I R D N A I V E L L M Y A T G M K V S E L
UniRef90_C3VMN8 R V L A D K E I K L L W D A L A L D N T A M K L A L K M L L T G Q R P G S E V
UniRef90_UPI000464EF14 R K Y Y S E E Q I K I L T L Q A L Q K E P L K W R L F F I S C M I G L R R S E S
UniRef90_A6LUV3 S D Q E E A A F L A S A P Q H L H L P L I I A L W T G Q R Q G D L
UniRef90_Q1NM52 L T A D Q A N T L L Q I A K K D D Y D T Y V A V A I A L N T G M R L S E V
UniRef90_V9W4H9 T V Q D I E R M M E A V E T D G L Q D R A I L E L F Y G T G M R L S E V
UniRef90_UPI0003603047 D V L S L J E E M Q A L I S T H D N E N P E I R R A F I F C L Y T G I R F C D V L
UniRef90_F7NEJ7 R E A L T E D E E K K L L A F A K T D M I Y Y D V I V I L L N T G L R I S E L
UniRef90_UPI00036644C8 L T L D E F K A L L A K A P E V A D W L E N A M L L A L V S G O D R S T V
UniRef90_I9SHT3 L N S C S I K Q E P F K Y L F L F A L G T G T R L G E I
UniRef90_N2AD37 D A L N L A D G V A D F A A D D T W L G A R D R A V L L M Y G A G L R I S E A
UniRef90_U3QZF0 Q V L S P D Q A V R M V D L P T D A P D S I R D M F E L F Y S S G L R L M E L
UniRef90_G9XBX2 L K E S E M D K L L D E V D F R G C R D R L T I E L F Y A T G L R L S E L
UniRef90_UPI0001E2D53D R N F L T M E A L R L F K T P C K E I V K R V S L F S L L T G M R Y S D I
UniRef90_U3A498 R T V F S L N E V T V L L Q I P D E R K Y R D K V L L N F M Y A S G A R A Q E I
UniRef90_D9SD86 L S D K E V E Q L L E V S R K V T M R N K L V Y L L L Y T G V R I S E L
UniRef90_W4PEK9 L T A T P M Q N E G V K S A Y L F S C F C G L R I S D L
UniRef90_H7FW29 D T L T E E Q L E R L L A A P D T S T Y R D R T L M M L L A D G G F R I H E A
UniRef90_N2A1Q3 L I L L L Y T C G L R L A E L
UniRef90_J8TJ35 T P E E I R T L F E L A R R D K R Y A C A I L A L L A G C G L R A G E V
UniRef90_D1JMK6 R F L S A D E E K R L L K A L D D R E D H L K P M I L V S L N T G I R W G E L
UniRef90_L0EIW4 L T E A E V E A L L Q S P D Q A G L R D R A M L E L L Y A T G V N V S E L
UniRef90_D4IMW0 E Y L E R I E M E A V L Q S I D R S G R R D Y V L F A L M F N T G A R V Q E A
UniRef90_Q1J1A0 R R P T E D E I D A L L G Y F D N K T N P M G R I V R F A I A T A M R Q E E V
UniRef90_B3E8B2 K A L A L D E I E A M I A T T D G E E P R A A A L L E L L Y A T G A R I S E A
UniRef90_S6HLH0 R P L T A T E A R Q L L Q A A N G D R L H A L Y E L A L R T G L R K G E L
UniRef90_H0BT77 Q P L T A T E A R Q L L Q A A N G D R L H A L Y E L A L R T G L R K G E L
UniRef90_A9D6X2 T F T E E Q V Q A I M R Q P D R T G L R D Y T M M L V L L D T G M R V N E L
UniRef90_UPI00046F8188 R D V Y V E D D L F R K V Y D H A D Q P T R D A M D L A Y L T G Q Q P Q D T
UniRef90_UPI00040330F3 P K E I D K F I E V L E N E S K R N F A M V M L M A Y G G L R I S E V
UniRef90_C9YTD6 R K Y L S E N E V K S L L N A R D K R S V R N Y C M I S M A F I H G L R V S E L
UniRef90_UPI0002F5139E R E Y L T I S E L K R L V R T P F Y N K L L K Q A F L F S C F C G L R H C D I
UniRef90_UPI00035D6292 L E I E I K R I E A C D H R M Y K A I E K V L A N T G M R V S E L
UniRef90_UPI0002EC5E95 S E K E L S S V L E E D D F E S I R N K L V V E L F Y T T G I R R A E L
UniRef90_UPI0002BB67F7 Y L T K A E V L R L F E D L K Q Q G L R D Y V I G V T L V L L G I R V S E L
UniRef90_UPI00041672F1 E V Y N E N E I T Q V L R V L V N E L P V Y H Q L I I K L A L I G L R R G E L
UniRef90_UPI000248D7D2 R D T Y V E D E L F K R V H D K A D A G L R D A M D L A Y L T G E R V T D T
UniRef90_V6IVS3 L S A H P W T G A R N Q A V L L L L Y G S G L R I S E A
UniRef90_J2WGN5 L Q A C P V A A R D T A V V T L L Y G C G L R I S E A
UniRef90_E3I4Z6 R K F L T R F E V N A I L K Q A K E Y P E R D Y C M F L M C F L H G F R V S E L
UniRef90_A3V1H6 Y L T A T Q V Q A L L D A I D T S G R D Q A M F T L A A H T G L R V S E L
UniRef90_B4EUJ8 K T I E L F Y A T G M R R A E L
UniRef90_N1LW15 L T P E E I G R L A K A L D A A K D Q R A A I I R L C M L T G A R S G E V
UniRef90_C2M1X2 E W T G L R D R A V L L L Y G A G M R L G E A
UniRef90_UPI0003764860 K V F S L E Q L I L I E A P T K F E E K I R A L L E T L F A T G M R I S E L
UniRef90_UPI000225EC2C Y T P E E F K R F I A A R K C A E Q Y Y V F F N I A F Y M G M R K G E I
UniRef90_R6CF36 Y Y S R E E I K K M L D A I D R S G K R D Y A M L L A A R Y G L R A S D I
UniRef90_S0F7F5 R Y L S D A E L E R L A V L D A G R M V A D I H L L I F T G A R K R E V
UniRef90_F9ZQN0 V M T R T E I K R F L E H I E P R Y Q L Q I M L L Y G S G L R L M E C
UniRef90_R4VQ64 R R F L T A R E V Q A M M K A V R Q T G E R D Y C L I L L A F R H G M R I S E L
UniRef90_Q84BL3 D N A C D Y L M P M V L L S I N T G L R R G E L
UniRef90_A8AMR9 D A D P W L E A R D A A T V A L L Y G G L R V G E L
UniRef90_A5IH69 Y L T I K E L K L L L S M P D N T G R R E K A L L S F M Y D T G C R V G E I
UniRef90_U5N6A9 L T L D D A K K I M A N A E P H L K W A M E V C F N L G T R P S E L
UniRef90_R2QRB6 A Q H D P M A L R D R L T V E L L Y S T G I R V S E L
UniRef90_C4XKW2 Y T R E Q L I Q F L S C L J E Q E S N F V Y A L F R L L A F S G M R K G E A
UniRef90_K0F374 R E R L T L E D A K K I M A S A E P H L K W A M E V C F N I G A R P S E L
UniRef90_K9A4C9 Q A L S V D Q A V K F V D I V Q G D S D I R D H A L L E L L F Y S S G L R L A E L
UniRef90_I2Q611 V Y T Q D E L N Q F L E V I A K D Y G L V P Y T Y F K L L S A T G L R K S E A
UniRef90_UPI0002260435 R S L S I G E C Q R L F Q A A L K A D P F V R I L I L L M S T A L R N R E I
UniRef90_UPI0003739A5B R R L H A D E L P R F F E A E E E N V D I R D Y V L L S L T G G R R S N V
UniRef90_Q65PM3 R F L L D E E R Q L L D E C A K S D P L L Y L T V V L A L A T G G R R M E I
UniRef90_V6ME16 T I D E I H Q I L A Y A E R H R D R L Y M E I L V A T Y T G L R I G E L
UniRef90_F9ZQN0 E V I P R E E V I R L L A A C S P T G I R N R A L I T V M Y R G L R I S E V
UniRef90_K2CMS9 R D K A L F T L Y G T G L R I G E A
UniRef90_R6AN49 Y L E K D E M D A L L A A P D I T G R R D H T I L L F L Y N T G A R A D E V
UniRef90_X0THQ7 R N V Y V E D D L F A L L V Y S K A E I G L Q D A M D L A Y L T G Q R V T D T
UniRef90_K7T902 Y L T I A A I E L L F S C F N L E N I H D Y C V I A M L Y E S G A R V S E L
UniRef90_S1PPF2 L T E Q E I I S I L S C F D K T G Y R N Y M I T L L L D T G C R I T E C
UniRef90_UPI0004276955 R R R L E K E E V E R V L Q H M P Y P Y H L I G G L M Y G G L R L S E A
UniRef90_UPI000421669F Q T I T K E Q F N I L L K R F P K G N L Y H I P L Q I A Y T G M R R G E V
UniRef90_H5XVP9 A L L E L L Y G T G A R I S E A
UniRef90_F8A9K5
UniRef90_UPI0004651241
UniRef90_A8LE61

	50	60	70	80
UniRef90_B2TNZ3	QNI	KLQD	IINW	NEKS
UniRef90_UPI000370F883	CAL	KWGD	IDL	FEAG
UniRef90_UPI00036D54CE	AVGL	DWVD	LHD	EASN
UniRef90_K8PKT6	ARVE	WRDF	LD	SENR
UniRef90_UPI00046EDA99	ANVL	KISD	ITD	SERM
UniRef90_F5SDH8	LGL	RWKD	LD	QJG
UniRef90_K4Z6F1	ANI	KVDQ	IE	ETG
UniRef90_F4QI36	ANL	TWSE	VD	DFRR
UniRef90_UPI0002554E41	LAL	RMCD	IHD	DFRN
UniRef90_D4K1Q4	VGL	KWDA	IDL	FENK
UniRef90_R5KU81	KPL	KWKQ	IQ	QTS
UniRef90_L7LN12	VGL	HWDD	LID	GGKA
UniRef90_J7LJ21	VGL	DVDD	VLD	DRVG
UniRef90_L1N958	I	GLDD	DAHV	DFDN
UniRef90_C3VWMN8	I	GLG	QWSD	LKDN
UniRef90_UPI000464EF14	V	QI	PVAA	AAK
UniRef90_A6LUV3	I	GLN	VDD	VLD
UniRef90_Q1NM52	C	G	M	T
UniRef90_V9W4H9	L	AL	E	WSD
UniRef90_UPI0003603047	L	K	L	T
UniRef90_F7NEJ7	L	GL	K	WDD
UniRef90_UPI00036644C8	T	GL	N	K
UniRef90_I9SHT3	Q	DL	K	Y
UniRef90_N2AD37	C	GL	T	V
UniRef90_U3QZF0	A	R	W	E
UniRef90_G9XB2	L	A	L	N
UniRef90_UPI0001E2D53D	I	N	V	R
UniRef90_U3A498	I	L	S	L
UniRef90_D9SD86	I	DL	D	R
UniRef90_W4PEK9	I	GL	D	D
UniRef90_H7FW29	S	K	L	T
UniRef90_N2A1Q3	C	DL	R	V
UniRef90_J8TJ35	I	N	I	K
UniRef90_D1JMK6	I	GL	Q	W
UniRef90_L0EIW4	L	R	L	K
UniRef90_D4IMW0	V	GL	I	D
UniRef90_Q1J1A0	A	S	L	K
UniRef90_B3E8B2	A	S	L	A
UniRef90_S6HLH0	I	L	S	Q
UniRef90_H0BT77	L	D	V	R
UniRef90_A9D6X2	C	K	I	E
UniRef90_UPI00046F8188	V	GL	V	D
UniRef90_UPI00040330F3	T	GL	D	W
UniRef90_C9YTD6	L	GL	H	W
UniRef90_UPI0002F5139E	V	G	A	D
UniRef90_UPI00035D6292	T	Q	M	K
UniRef90_I6A941	L	P	H	D
UniRef90_UPI0002EC5E95	I	N	I	K
UniRef90_UPI0002BB67F7	L	S	L	K
UniRef90_E6SNP7	A	A	L	K
UniRef90_A5INK7	V	GL	S	I
UniRef90_UPI00041672F1	I	N	L	K
UniRef90_UPI000248D7D2	V	S	I	Q
UniRef90_V6IVS3	L	A	L	D
UniRef90_J2WGN5	R	L	M	D
UniRef90_E3I4Z6	L	GL	N	R
UniRef90_A3V1H6	L	S	L	Q
UniRef90_B4EJ8	C	N	I	L
UniRef90_N1LW15	I	S	L	T
UniRef90_C2M1X2	I	DL	K	A
UniRef90_UPI0003764860	R	Q	A	R
UniRef90_UPI000225EC2C	L	S	L	T
UniRef90_K1Z167	L	S	L	K
UniRef90_UPI00041FFF39	C	S	L	K
UniRef90_R6CF36	N	A	L	Q
UniRef90_S0F7F5	V	GL	I	T
UniRef90_R4VQ64	L	D	A	R
UniRef90_Q84BL3	V	R	L	R
UniRef90_A8AMR9	L	N	L	H
UniRef90_A5IH69	F	N	L	T
UniRef90_U5N6A9	C	A	L	D
UniRef90_R2QRB6	I	E	T	Q
UniRef90_C4XKW2	L	S	L	R
UniRef90_K0F374	C	GL	D	I
UniRef90_K9A4C9	L	A	L	T
UniRef90_I2Q611	L	A	L	K
UniRef90_UPI0002260435	L	GL	N	V
UniRef90_UPI0003739A5B	V	N	L	N
UniRef90_Q65PM3	I	A	L	T
UniRef90_V6ME16	I	Q	L	T
UniRef90_F9ZQN0	L	S	M	R
UniRef90_K2CMS9	F	G	L	R
UniRef90_R6AN49	L	A	L	T
UniRef90_X0THQ7	L	N	L	M
UniRef90_K7T902	L	A	L	M
UniRef90_S1PPF2	A	H	V	K
UniRef90_UPI0004276955	R	L	M	D
UniRef90_UPI000421669F	I	A	I	K
UniRef90_H5XVP9	L	S	I	K
UniRef90_F8A9K5	L	N	L	R
UniRef90_UPI0004651241	C	A	L	T
UniRef90_A8LE61	V	GL	D	L

UniRef90_B2TNZ3
UniRef90_UPI000370F883
UniRef90_UPI00036D54CE
UniRef90_K8PKT6
UniRef90_UPI00046EDA99
UniRef90_F5SDH8
UniRef90_K4Z6F1
UniRef90_F4QI36
UniRef90_UPI0002554E41
UniRef90_D4K1Q4
UniRef90_R5KU81
UniRef90_L7LN12
UniRef90_J7LJ21
UniRef90_L1N958
UniRef90_C3VMN8
UniRef90_UPI000464EF14
UniRef90_A6LUV3
UniRef90_Q1NM52
UniRef90_V9W4H9
UniRef90_UPI0003603047
UniRef90_F7NEJ7
UniRef90_UPI00036644C8
UniRef90_I9SHT3
UniRef90_N2AD37
UniRef90_U3QZF0
UniRef90_G9XB2
UniRef90_UPI0001E2D53D
UniRef90_U3A498
UniRef90_D9SD86
UniRef90_W4PEK9
UniRef90_H7FW29
UniRef90_N2A1Q3
UniRef90_J8TJ35
UniRef90_D1JMK6
UniRef90_L0EIW4
UniRef90_D4IMW0
UniRef90_Q1J1A0
UniRef90_B3E8B2
UniRef90_S6HLH0
UniRef90_H0BT77
UniRef90_A9D6X2
UniRef90_UPI00046F8188
UniRef90_UPI00040330F3
UniRef90_C9YTD6
UniRef90_UPI0002F5139E
UniRef90_UPI00035D6292
UniRef90_I6A941
UniRef90_UPI0002EC5E95
UniRef90_UPI0002BB67F7
UniRef90_E6SNP7
UniRef90_A5INK7
UniRef90_UPI00041672F1
UniRef90_UPI000248D7D2
UniRef90_V6IVS3
UniRef90_J2WGN5
UniRef90_E3I4Z6
UniRef90_A3V1H6
UniRef90_B4EUJ8
UniRef90_N1LW15
UniRef90_C2M1X2
UniRef90_UPI0003764860
UniRef90_UPI000225EC2C
UniRef90_K1Z167
UniRef90_UPI00041FFF39
UniRef90_R6CF36
UniRef90_S0F7F5
UniRef90_R4VQ64
UniRef90_Q84BL3
UniRef90_A8AMR9
UniRef90_A5IH69
UniRef90_U5N6A9
UniRef90_R2QRB6
UniRef90_C4XKW2
UniRef90_K0F374
UniRef90_K9A4C9
UniRef90_I2Q611
UniRef90_UPI0002260435
UniRef90_UPI0003739A5B
UniRef90_Q65PM3
UniRef90_V6ME16
UniRef90_F9ZQN0
UniRef90_K2CMS9
UniRef90_R6AN49
UniRef90_X0THQ7
UniRef90_K7T902
UniRef90_S1PPF2
UniRef90_UPI0004276955
UniRef90_UPI000421669F
UniRef90_H5XVP9
UniRef90_F8A9K5
UniRef90_UPI0004651241
UniRef90_A8LE61

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

UniRef90_B2TNZ3 T T T Q I Y A Q L
UniRef90_UPI000370F883 G I T L I Y A H
UniRef90_UPI00036D54CE S T T Q V Y T R L D
UniRef90_K8PKT6 K M L R R Y T H L K
UniRef90_UPI00046EDA99
UniRef90_F5SDH8 S I T L I Y S H V
UniRef90_K4Z6F1 D T T K H Y L K R D M
UniRef90_F4QI36 R T T E R Y A H L
UniRef90_UPI0002554E41 K M T A H Y S H L Q I
UniRef90_D4K1Q4 S T T S I Y T H L D
UniRef90_R5KU81 K T T Q I Y T H L V
UniRef90_L7LN12 L V T Q R Y A
UniRef90_J7LJ21 T T T Q V Y T L V T V
UniRef90_L1N958 S T T E I Y T H
UniRef90_C3WMN8 A T T M I Y T H V
UniRef90_UPI000464EF14 S T T Q I Y T H V
UniRef90_A6LUV3
UniRef90_Q1NM52 G L M A V Y N R
UniRef90_V9W4H9 Q T T A I Y S H V
UniRef90_UPI0003603047
UniRef90_F7NEJ7 S M T L D Y S H L
UniRef90_UPI00036644C8 A A T Q V Y T H T S I
UniRef90_I9SHT3 K H T E K Y T R
UniRef90_N2AD37 E I T L N Y A H V T I
UniRef90_U3QZF0 A M S D L Y A
UniRef90_G9XB2 Q T T M I Y T H V
UniRef90_UPI0001E2D53D V T T E I Y A R T D
UniRef90_U3A498 G S T Q I Y T R V D
UniRef90_D9SD86 S T T Q V Y T H L D
UniRef90_W4PEK9 A T T E I Y T H
UniRef90_H7FW29 K T T Q L Y T K I
UniRef90_N2A1Q3 A T T Q R Y A E L
UniRef90_J8TJ35 N M T A K F
UniRef90_D1JMK6 K M T Q V Y A K I V
UniRef90_L0EIW4 E T T R R Y V
UniRef90_D4IMW0 Q A T Q V Y T H
UniRef90_Q1J1A0 N T T A L Y L H L V
UniRef90_B3E8B2 K M T L R Y A H L A
UniRef90_S6HLH0 S S T Q S Y A
UniRef90_H0BTT7 N T T M R Y A R A D I
UniRef90_A9D6X2 K M L R R Y T H L K
UniRef90_UPI00046F8188 T T T Q I Y T K V
UniRef90_UPI00040330F3 A T T Q V Y A H I
UniRef90_C9YTD6 G V T A V Y A H V R L V
UniRef90_UPI0002F5139E A T T Q I Y T H V S V
UniRef90_UPI00035D6292 E M T R Y Y V E L
UniRef90_I6A941 A M T E H Y V R
UniRef90_UPI0002EC5E95 H T T L R Y T
UniRef90_UPI0002BB67F7 R H T V H Y T
UniRef90_E6SNP7 Q T T Q I Y A K I V
UniRef90_A5INK7 S T T S I Y L K I A
UniRef90_UPI00041672F1 S S T Q I Y T H
UniRef90_UPI000248D7D2 N T T Q R Y L H
UniRef90_V6IVS3 K T T L I Y A H V
UniRef90_J2WGN5 V M T E Q Y L R
UniRef90_E3I4Z6 S T T Q G Y T A V D
UniRef90_A3V1H6 S T T Q A Y T A V D
UniRef90_B4EUJ8 S H T V I Y T
UniRef90_N1LWI5 A T T S I Y L H A D M
UniRef90_C2M1X2 A A T Q V Y T H S S I
UniRef90_UPI0003764860 Q T T Q R Y A H L
UniRef90_UPI000225EC2C G S T Q I Y T E V D
UniRef90_K1Z167 D T T T R Y V H
UniRef90_UPI00041FFF39 S I T L V Y S H
UniRef90_R6CF36 S M T N T Y S H L
UniRef90_S0F7F5 L T T M S Y V K V D L
UniRef90_R4VQ64 R T T M R Y A H L
UniRef90_Q84BL3 K T T Q I Y T H V
UniRef90_A8AMR9 R H T V R Y T
UniRef90_A5IH69 A M T L R Y A H L A
UniRef90_U5N6A9 G T T Q V Y T R L D
UniRef90_R2QRB6 N T T E I Y A R V
UniRef90_C4XKW2 K M T A
UniRef90_K0F374 A T T Q L Y T H V S I
UniRef90_K9A4C9 K V T E I Y A H V
UniRef90_I2Q611 K M T A
UniRef90_UPI0002260435 S T T Q R Y T
UniRef90_UPI0003739A5B S T T Q V Y T H L D
UniRef90_Q65PM3 Q M T L I Y T H I
UniRef90_V6ME16 S T T L R Y V
UniRef90_F9ZQN0 A T T A V Y A R L A
UniRef90_K2CMS9 Q M V K R Y A H L
UniRef90_R6AN49 A I T
UniRef90_X0THQ7 G T T S R Y
UniRef90_K7T902 S T T Q A Y T
UniRef90_S1PPF2 S T T L I Y A E V D I
UniRef90_UPI0004276955 G M T E K Y V R
UniRef90_UPI000421669F T T T E I Y A K
UniRef90_H5XVP9 E V T K I Y L Q L D
UniRef90_F8A9K5 Q T T M I Y T H L A
UniRef90_UPI0004651241 S I T L D Y T H
UniRef90_A8LE61 S T T Q I Y T L V T M

UniRef90_C7PZV6 REESAAAMLEAAQRGVRD EAVVAVVLLLYQGLRIVSELA
UniRef90_UPI0003B65AEF YLSE RDEVEIERQLLFDKLPGRSGIRDRDKALLMFLYNTGARWATEVI
UniRef90_L0LUE1 YLSQDEIEERQLLDA CKPKGRD L WLVVML CLSTGARWATEVI
UniRef90_A0A023SE47 SKEEVSLIDAMPDLGRQ KAMVSLMYSSGLRIGSEV
UniRef90_R9MMH3 RALATSEILSTLW D N C D N S N L G I R D A A L L A L M V C G L R R I S E V A
UniRef90_UPI000378A57A RPLT ED A A R A M I D Q T T W Q S A R D I A V V T L L Y G A G C G L R I S E A
UniRef90_X6KWR0 RDRRLVLELLYGA GF RVSELA
UniRef90_B5JET9 LTKPEMEAIIAAPDQRGRDRDRALFTLLIYANTGARWATEVI
UniRef90_K8NH06 YTVIEQLKLFDFICLGTN IESAVYIILAAHYGLRRGEVI
UniRef90_U1XA82 KFLTPELEYRALRDVV KTDTRIISAMI ELLQLGLRIGSEVI
UniRef90_K2DJ23 RRLMPSEKEHL LTAASQRN IYIASIV EFAIETGMRRSEI
UniRef90_D5BU10 LTP EQVRLLMQA C AGTRYEP LGLAIATGARQGEI
UniRef90_D1CFY4 E GK RD K A M L E L L Y A T G M R V T E L
UniRef90_X0S5T8 ETYSDEELIMRDYVEN YRDALLDI L A S T G M R V G E L
UniRef90_I1A054 RALEPHEVARLLLEAEASRSK MALLRLML E T G L R R G E A
UniRef90_K7QTE3 E K E M D N L L S H I D F E G N R D A L I M E L L Y G T G M R L A E L
UniRef90_E4TMD0 LTV D Q A R V L M Q A A E D Q K D F I R L I E L L Y S S A L R V S E L
UniRef90_G0JU17 RDKA I I E L L F S T G L R V S E L
UniRef90_K2BT77 RPLDEDAARA VIETVE LQSN TDWI AVTL L Y G C G L R I S E A
UniRef90_A3XCU1 YNKQELTJEF LATAK D I N Q R V Y V F L L A S T G L R I S E A
UniRef90_UPI000249300E T E D M R D L F I V C D N A P I V L Q L L I R M L Y G C G L R I S E A
UniRef90_R9BUC1 LTVIEEV D K I R I V E K D G I R D N A L L E L M Y A T G M K V S E L
UniRef90_M1MZN9 KYLES D Q V T K L V K V L E K D D S P E A L M F L F D L K T G L R F A E I
UniRef90_J2ZQ13 E G V R D R L M F E L F Y Q T G I R L S E I
UniRef90_F2I9X9 KTFNDKEVRRYYGSVRYL D I R D K L I M V M L L D T G I R N S E L
UniRef90_S2Y9G2 LDDKQLKKFLTYL D N E L Q T D K N I F K L L D T G L R I G E A
UniRef90_F9VAZ9 EVLPRE C Q S K I M K H V R E H F T F R N L G I L I C L S T G M R I G E A
UniRef90_UPI0003634483 WE E H H L E Q F T A Y H K P G T R A H L A L S L L Y T G Q R R S D V
UniRef90_UPI0002E742BF L T E D E M K R L F E A P D K R L W A Q R W D F V L F L Y D T A L R I S E A
UniRef90_UPI000403F41E YDET E V R T M L Q A L Q R E P Y H W R M M I T L A L T T G M R R G E L
UniRef90_U6F5L7 Y T A E Q V H D F L N A A K K C D E R I Y I Y F S I L A A T G M R K C E A
UniRef90_UPI000262C3BD V L S D E Q A D A L M A A I G D Q D V R L W L F V A F G L G A M R H R E I
UniRef90_H4F9L9 R D A A V L S L L Y G C G L R I A E A
UniRef90_W8U6G5 L M E E E I V K M L D S A G C T G M R D K A L L E I I Y G T G M K V S E I
UniRef90_D4JH26 T I D Q Q K L T E Y L L T E L D I Y K L G I L L C L F M G L R L G E I
UniRef90_A0A059DVH5 R P I S P D E V V A L A D D I A E T G A R D W A V L M L L Y G A G L R I S E A
UniRef90_T0GTE2 AV L T L L Y G A G L R I S E A
UniRef90_U7GG57 A V L T L L Y G C G L R I S E A
UniRef90_S1CCT1 L E P H E A Q R L I D E C P E P L K S V V E F A L A T G L R R S N T
UniRef90_J3C5U7 D R I K P I I T L A Y E T A M R R G E I
UniRef90_UPI0002489BB2 DR L F A E L Q R R Q A A D P I P G H L R L V E L L Y G S G L R A T E L
UniRef90_A3MZK6 L E K I Y E F A D E R M A D I I E T A Y L L G Q R P I D I
UniRef90_UPI00046628E6 R P V L T V A E V F A V A D S I A P R Y R L L V L L A A F T T L R F S E L
UniRef90_B0LS68 R G Y L T E D E I K I L L K K V I S E R L E Q V R D V F I F S C F S G L A Y V D V
UniRef90_C3QQA2 R D A A M V E L L Y G C C G L R I S E A
UniRef90_C5T5H8 AV L T L L Y G C C G L R I S E A
UniRef90_K2HNL8 R Q F L A I E E V K L L I V T E C R N M M V K Q A Y L F S C Y C G L R L S D M
UniRef90_R5FRR8 R R L L A R E E R L I L R Y C H G H Q T Q E L Y S I V L A L E T A M R Q G E L
UniRef90_I3V5C1 E V Q D H E V R L A L R M M L H C G L R A S E V
UniRef90_B5Y8N9 L S S G Q L R R L L D S A S K Q R D A A D A I W L M L L T G C R S G E I
UniRef90_V9W1J8 L S T D E I E Q L L N S L G T Q T D P R A D A M V R C A L D L G L R I G E I
UniRef90_D4BZW9 E I L N P E E I Q K L F E T V T N K R D K A V I A S L Y L G L R I G E S
UniRef90_L7BP93 S D D E I A R I F S A A D A L Q S Y L S L F R I L Y S C G L R I G E A
UniRef90_UPI0003717336 R A L S Q S E I S A L I N V C Q A D P T R D R A L I A L L R V G S G L R A E V
UniRef90_A0YUV0 R K Y L T K N E I L L L K A S E T R H A R C L I Y M C Y V H G F R A S E I
UniRef90_UPI0004773523 E P L T A D E A R T F L A A T S G H R L Q P L F E L A L R T G L R K G E L
UniRef90_F3Z7C2 K F L T E R E I E H L R E A C L T P M E K A L F E F M F S T G C R I G E I
UniRef90_K6C7E7 R D R L T P A E I H V F F S A L E R T P P T L R L A I R F M L L T L V R K S E F
UniRef90_S5AJD3 R M Y L T D E V R L L A R T E C H Y P S V K R A F L E S C L T G L R R S D I
UniRef90_B5WEG8 R R L S D E M T K F L Q V C R E A S V L I R D F A L L A Y T G A R K R N V
UniRef90_R5PGW9 R V L S L E E L T K I T E Y Y D K M E L R G R D I M W F A L Y V C L R Q G E I
UniRef90_B3CSP7 L T R K E Y Q K L I Y A A K K D G E Q L A L C M E T I A C T G I R I S E L
UniRef90_A0A011SYH4 K Y L T Q S E A T R L F D S I E N S F D T H K A I F R I A Y R C G L R A S E I
UniRef90_D4M0M9 E V E K L R S A A N N T K E T L I V E L L S T G C R V S E L
UniRef90_M1M1A5 T Q K E V W F I Q S F S N L K H K A L L S L L Y S A G L R V G E V
UniRef90_T2NQD1 V L S R E E I K R L L D A L E G I H R L M A G L M Y G T G T R L G E L
UniRef90_R9MM31 R R Y Y D D E Q C K V L L S H L N E E D I K Y K V A I T L T I F T G V R L G E L
UniRef90_UPI0003B44CCF L V E L L W A T G V R V A E L
UniRef90_R5XQA3 T T D Q L Q R I L K F C D S H H N W L R N R I E I L A Y S G M R I G E M
UniRef90_M2XTQ3 Y L T A E Q I N K L L E E C R L S A K K K M V V K I C L V T G A R W A E L
UniRef90_T0MWC2 R N A L T A D D L Q K L L A Y H R S T D N H C R L I F L R G C F T G L A F S D L
UniRef90_UPI0003C7F0F4 P E E V A R F L E A S K G H R L Y P L F A L M L A T G L R P G E A
UniRef90_M4TF88 D Y Y T E E E V K E I L A C L A R N E D V K Y Y V L Y S L A I T T G L R K G E A
UniRef90_F7LRR9 R F L S R D E E D R L F A A I A R R N A D A G R L S V F L V D T G C R L G E A
UniRef90_H7GE53 L Y E A A V R Q S N P M L K Y I I P M L I L T G A R K R E V
UniRef90_UPI0003086343 Q V I G I K E M H Q F I E V A K K D G I R L Y A L L E L L Y S T G M R I S E A
UniRef90_K2N648 Y T E I L S K L A E F P E H L R L M F L H L W C T G I R G S E V
UniRef90_T0ZQ45 Y L T Q E E I A L L A L D G D N K K I A I L C L S T G A R W G E A
UniRef90_W6TST7 R Y L T Q D E L R N L E Y A L E H N S L R D L A L F R V A Y R C G L R A T E I
UniRef90_F7KMU4 R V L D K D E I E R L L E T A R S R Y I P I L L A I A T G M R R G E I
UniRef90_P36932 T L S L N H Q R I L M R H L L E Q P T P Q N I G V L L A L C T G M R I G E V
UniRef90_C4ID56 L D V D R L A Q F L D A P H D D T P R D Q A M L E L F Y S S G L R L A E L
UniRef90_K6P087 R A R L S V A Q F Q N I H A L A D D W M K I A M E L S L C L F G R A E A
UniRef90_R9I3P4 Y Y E E D E A T A V I D A L L E T K S V W R M Y F L A A I I G G F R R G E L
UniRef90_S2KDY3 R G Y L T D D E L A L L S R A V L Q R L D V V R D M F L E S C F T G L S Y T D V I
UniRef90_F7SS52 E V E K L R S A T A N S K E A F V I E L L S T G C R V S E L
UniRef90_UPI00046FB284 T A E Q A L Q F L E S A K S E D S R Y W I G F F L A I M T G M R Q G E L
UniRef90_UPI00035CBA82
UniRef90_R2P620
UniRef90_UPI0004049260

UniRef90_C7PZV6 C G I N V E D L S S Q R L R R K G G E 60 Q Q A I A P P A A G C L D A W L A E R
UniRef90_UPI0003B65AEF L A L T G R D H P L P T D V L R V T G K E G G K S R I A P V L P A V R Q A V G A
UniRef90_L0LUE1 T G L T V D Q L V L T S S P R V L K H G K G D N R T V P V L P A V R Q A V L L G E
UniRef90_A0A023SE47 E K I T R S D Q V L M G R I T F T K T L K G K R N R S D R Y A L S K R A L D L T
UniRef90_R9MMH3 C H L R Y E D L E R K S N M R I H I R H G K N R S D R Y A L S K R A L D L T
UniRef90_UPI000378A57A T H L D L S D F K S L T I R E T K G G S K E R I V Y L T P T G V Q A V Q S D W L
UniRef90_X6KWR0 L G L I G R D V P L S G E S L R I L G K G R K E R I V Y L T P V A R R A V E S Y L
UniRef90_B5JET9 C G L T Y G Q V L S D E G V A R I V G K G G K S R I C P L G R V A M A V L D K W R
UniRef90_K8NH06 I N L R V G D V D F N S P V A H L H G K G R K R R S M P L W K T T A S S T L R
UniRef90_U1XA82 L G L K W D A I D F N S Q G T I L I K E T R V K Y G R N I V T K G P K S E S S F R
UniRef90_K2DJ23 A N A K I A D L T D S T L R I E G Y A T Q E P E R T V P L N K P A K D A L D R Y M
UniRef90_D5BU10 L K L R W C D V D D N G F A S L Y D T K N G E D R R V P L T R R C I E V L Q T V P
UniRef90_D1CFY4 L G L R W A D I D L D Q R G V V Q I L T R Q L T R Q G T F S E P K T R H R S L Q L Q
UniRef90_X0S5T8 V S L N V R D V R A G F V R C F G K G S K E R I P I P I H N K A I R A V K S H L D
UniRef90_I1A054 V K L N I E D I D F N E R C I V T G K G N K E R M V Y F D A K T K I H L K N Y L
UniRef90_K7QTE3 L A L K W R D I D L E A G E L T V G G R A W V K E R K V P L P R G L L R L K A R R
UniRef90_E4TMD0 I G L K E D D F N R Q A G T I R I G K G N K E R V V P F H L E I G R R L D K Y I
UniRef90_G0JU17 A G L N I G D L N L Y H G G E T V R V L G K G H K E R I V P V G Q P A W A L R A Y
UniRef90_K2BT77 A H L K I G D I D N L K R E E F I R G K G S K V R V V F L S E Q A K Y W L Q Q Y L
UniRef90_A3XCU1 L A L T G K T A P L P S S L R I L G K G G K E R L V P V I A A A R E A V A R Y I
UniRef90_UPI000249300E L A L T W K D I D F T T K T I D L N K T L G T S G F T K S K R T V P L E S D N L L T
UniRef90_R9BUC1 L K L K L D D V D N G T L V R K A K L G K E R L V P M A E T L T E Q C R Q
UniRef90_M1MZN9 I S V N V E D V N L D L N F V R C T D N R H F E R L I P I G R S A C K A L E E Y
UniRef90_J2ZQ13 F G L T P K D I D S L V N I K L Y V N K T W N K Y S N R V M T I D W Q T A N L Q
UniRef90_F2I9X9 I E L K N K D V S L K V S I K V L G N K R N K E R I P I P I G M E L H E I L L A Y Q S
UniRef90_S2Y9G2 C G L L I S D I R Y D H I L I R G K G N K E R V V P I S P I L N K I L A K Y K
UniRef90_F9VAZ9 L A L N W S D I D Y D S N I H V N K T V D R I S V S N R T M L M L K Q W Q N R
UniRef90_UPI0003634483 C A L K W K D V D W V E S G V I R V S R S L Q R I Y I I N S L R E I P L S R E L K
UniRef90_UPI00036E1F63 T K I R I G D I R T E H T I V L H G K G A K D R I V P L S S K T A D L T A S Y L
UniRef90_B9K2P6 V R M G R C S H I R D R G W I S I V Q Q K T G Q L V E L P F H A A F K D V L N A L
UniRef90_UPI0002E742BF I S L D C S D I D R R Q L V L P P E K A K D R R Y R T I P I T N H T L K L L I K
UniRef90_UPI000403F41E L G L E W K H I D W K S G V I P K T K N S K R K I S L P P S V L E L R D Y Y A
UniRef90_U6F5L7 L G L E W K D I D K K R I F Y Q R T G E Y E T Q L P K G N K K R Y V P L D D Q L
UniRef90_UPI000262C3BD L K V R Y E H I D F D N L I Y P D A K A G E R E Q P I T P S L A A A L K A D R E
UniRef90_H4F9L9 L D L T P A A F H A K A T S L R V T K G G K T R L V P L L P I V A E A V I E T Y V
UniRef90_W8U6G5 V S L N V E D V D V I Q M E Y I N C D G T R S K R A V P L G L A L E S V K A Y I E
UniRef90_D4JH26 C A L K W E D I D M I S R T L H V N R T V Q R L P V D T V H R E I P I P D F I Y
UniRef90_A0A059DVH5 L S L T G A D V P A P E R L R I T G K G G K V R I V P L I P A V R Q A I D T Y A
UniRef90_T0GTE2 V G L S G D V L P L G D T L R V T G K R N K T R V V P L P Q R V R Q A I E H Y V
UniRef90_U7GG57 L S L T G A M A P K T G T K T L R V V G K G G K E R V P I L P A V C
UniRef90_S1CCT1 I N L E W Q Q I D M Q W I N P E E S K S N R A I G V A L N D T A C R V L K K Q I
UniRef90_J3C5U7 L S L K P R S M I R F R K I H L T H T K N G E E R D V P L S T A A I A L L T Q L
UniRef90_UPI0002489BB2 V S L P R R A L R D Q P F L I L K G K G G R E R L V P I S D A R A R A A V A
UniRef90_A3MZK6 C N I H R S H I Y N G L L H I T Q Q K T G K K V R F E I T G R L K E I I D
UniRef90_UPI00046628E6 V G L R C G D V I D L G T G A H L R C V G K G R K E R A T P L R R E T A K L L A K
UniRef90_B0LS68 A A L R R R D V D G E G L T V T V R R A Q A E L Q V R S V S F P A E L L D A V A
UniRef90_C3QQA2 A N L K E D N I R N L W I T K R Q K T N D V N V P L L D I P K M I L E K Y K
UniRef90_C5T5H8 V G L D W G D L E A G E A H V F G K G S K R R S V P V G A A M A A L R A W L A
UniRef90_K2HNL8 L S L T G A D A E L P Q T L R I R G K G K D R L V P V L P A A A R A V A R Y A
UniRef90_R5FRR8 E T L R W K D I C N D G R Y M I A T V I Q Q K T S T P I Y T P L S Q N A V K
UniRef90_I3V5C1 L K L E W E H I R N R A H L P E T K N G S K R D V P L S L K A R D A L I R L
UniRef90_B5Y8N9 L E L R W S D I G N D D Y M L V R G K G G K Q R M L P V S E A I R T D I E S I K
UniRef90_V9W1J8 L R L R W D E V Q K D R L A L R R T K T G P R E V N L S D A I
UniRef90_D4BZW9 A R L S L D D I D W G T I T L R R T K G R D D D V M P L P V T T G N A I A Y L
UniRef90_L7BP93 A E L L L E D V D N A K V L R S K T G Y Q R E V P I H S K A L E
UniRef90_UPI0003717336 L S L K L K D V N N G V F T V I D G K N R T D R Y I P M S P E L T Q R C R A
UniRef90_A0YUV0 V K L R V K D F N P G A L K I L Q S K G R K D R T V Y L P E N A I A W V E N W L
UniRef90_UPI0004773523 C R I R L Q D I D D G I N V R R L K N G L S T I H P L I R E N D L K N W I
UniRef90_F3Z7C2 L G L R W E D L D G G L T A L P T K T Q S S E R R I A L P T P C L R S L E Q H R
UniRef90_K6C7E7 V S L E K N C I W S N R S A I V Q G K G D K E R E V Y F N R C E I W L K R Y L
UniRef90_S5AJD3 F L R W Q N V D F L T L E A A N A K S G K A R H I P N Q K A K S A L T N W R
UniRef90_B5WEG8 I L A M W G E V D F D A A V W T I P K E R M K A G R P H N V Y L S Q Q A L D I L
UniRef90_R5PGW9 E R L K W K D V N F T R I L F N Q K K T N G L E Y L D L A P E A V E I M G E R G
UniRef90_B3CSP7 L E M E W D N L D F K I W H I P K T K N G K A Q N I P L T D E I E I L Q A R K
UniRef90_A0A011SYH4 C Q L Q W K H Y D E T T H V L T V D K R K D P T D N K N K I T K I T L N A T I
UniRef90_D4M0M9 K Y F T V E R K N G K I E I Y N K G K Y R K F L P K L R E N L L N Y C
UniRef90_M1M1A5 S L L K F E N Y N G E L Y C K R L K G S N N T I R L D Q K T K Q I L D S Y I
UniRef90_T2NQD1 V S L D F S D Y D Q E N D S I E V I G K G G K Q R L Y F N A K A K L A L N
UniRef90_R9MM31 C S L R Y E D I S R S S M R I H I C H S K A R S D R Y A L S R N A L D L L T
UniRef90_UPI0003B44CCF V R L R V Q D V D F E R I V R D G K G R K D R V V P L P V H V H L P D A L A
UniRef90_R5XQA3 M G L E W S D I D F T N G I V S I N K S S Q Y R D V A I P N F V V S L L E E Y R
UniRef90_M2XTQ3 S G L D V D D L D K R Q M R T L R V T K G D K Q R V V P Y G A P A D A A L E R W L
UniRef90_T0MWC2 Q K V N M E D I D R E G M L Y I R S E K G E R D R Y V P L P D D F L N R L E
UniRef90_UPI0003C7F0F4 V G L D V D D V D R S R V V R V G K G R K E R T V P F G L P A Q D A V D W L A
UniRef90_M4TF88 E N L K R S Q I T A G K V T E I K T K S Q R N R S I P L N Q E I T A D L P K
UniRef90_F7LRR9 K K L R M D D Y Y R R Y I S L C R T K T Q N R S I V P L L P V A E K I L A I V S
UniRef90_H7GE53 L A L R W E D W E G D V L H V R H T L R R D G T L G P A K T P L A W W R E R L E
UniRef90_UPI0003086343 L G L E W D H I D F E Y K D V P K T K K S M R T L S L S D T E L K L L K H Q T R
UniRef90_K2N648 I G L N W D V I G G K A S F W I T K S A R A R S V P L T G R A Q E A V S I P K
UniRef90_T0ZQ45 L T A Q W E D F D R Q Q W R I P F T K A G K P R H V P L S D G V L Q L L A T I V
UniRef90_W6TST7 L S L L V V D I N Q K G A L I L Q G K G E R D R I V L F L T Q E A Q N A L I L Y
UniRef90_F7KMU4 C T L T G G D Y E K N G D Y L W K V Y Q V K M K T Y K R V P I P E A L Y K L V
UniRef90_P36932 A R L K A E N I I H N R V T F V K T K T N K P R T V P I S E A V A K M
UniRef90_C4ID56 S L I K F D D I R K S E L Y C K R L K G S R N N T I R L D L Q T K N V L E
UniRef90_K6P087 L A L R W E D V D G D G L Q F T D P K T D R S R R V I R I G P L V H R A Q Q A Q
UniRef90_R9I3P4 C A L K W E D V D F G R I Y N C E L K S T E R V H T K N S Y R E I P I S K Q L L
UniRef90_S2KDY3 A A L D K Y D Q L Q G N P R V R V M G K G S K P R Q Q V P V G S R A R A R A L E A V
UniRef90_F7SS52 V A A K Y E D I L K G R H V I R E K T K E R S K T A Y D L I K R S R Q I E P V
UniRef90_UPI00046FB284 I A L E I D D C D D G Q A D I T D T K N E A S N D Y V D M P L W Y M A C R K L K
UniRef90_UPI00035CBA82 R N L T E D D L K I I N G K K W I F T P R Q K T S T P C Q M L L L S Q A
UniRef90_R2P620 V S L N F Q D Y D N D S I T V I G K G N K R T L Y L N A K A K M A L N H Y L K
UniRef90_UPI0004049260 L A L R W K D V D N G T L K W I D G Q P L T K E P K T E K S R R K H K A K Q T K

UniRef90_C7PZV6 A R D S A F G A V P A S G P V F V G P E G A R L T R Y Q V E W I V E S C A R A A
UniRef90_UPI0003B65AEF Y V D A C P H Q I E R D E P L F R A S R G G A L L Q P R A M Q A A M Q T L R S R N L
UniRef90_L0LUE1 M L R N R R H P A A T E S P V F L S N V G K P L T R F D G L Y K L V R R H G S N R L
UniRef90_A0A023SE47 K R T G R L F D D C Y A E F E K A I S R R A
UniRef90_R9MMH3 S Y W F A F G R P R G W L F P K Q T C P D K P I D T F Y L S R H I H A V E R S L
UniRef90_UPI000378A57A K V R S L E P G P L F Y P L N K G Q Q V I P R R M S Q G I L R A L Q R R
UniRef90_X6KWR0 A L C P Y P V S P E T A V F R G A R G G A L N P R L I A K A T E K A R M Q L
UniRef90_B5JET9 R E F A V G T A F A D P V V L S N R R V K W T P R G V Q L L L K K Y L
UniRef90_K8NH06 Q W K R Q L A R A E D S L D F L F P N G A S G K L F S R S S V T Q R R L A L A V K H A
UniRef90_U1XA82 I L P L M S N I R S Y L K E V I L K Q K H K K L F Y G S N Y N L S R K F K E I
UniRef90_K2DJ23 A D R A K V E S D Y I L F I S K T G K P L A V R N I R A S V D R F I Q K A
UniRef90_D5BU10 H E R L S A G D R W Q D Q G L V F A N T L G G P M D A R N L I R A W H R I L Q Q A
UniRef90_D1CFY4 D V R A R L L A A T G E T A L F L N R R G Q R L T R Q G F W L L L K G Y T K K A
UniRef90_X0S5T8 M S R K D T N K A L F V S L K F P Y N R I S I N G I E T R L R K I G K S L
UniRef90_I1A054 E E L J A R L T P E E V D G L F L V G G V K P V I D P D A F N H Y L R R L A S E R A
UniRef90_K7QTE3 F H K K E L F S H N G Q S P L I V S N N G S K A Y P M L I N R I T K K Y L D Q V
UniRef90_E4TMD0 L A L R P T V S A G E I A L F I L N Q R G Q R L S V R S I Q I R V K K L
UniRef90_G0JU17 N L R H D T S P Y L F H D R A L K A R E H E L V Q P L T S R S I E R L V Q K Y A
UniRef90_K2BT77 A L S P Y P N E A D G P L F R G A R G G A L N P R Q I Q G A M Q A R A Q L
UniRef90_UPI000249300E E L R K Y K L A N A E F D K L F H T Y K D T Y V S L S K P A R W L R Q V L Y D K
UniRef90_R9BUC1 Y S H K V H S Y G S S E D Y F F P S P Y G D G H Y K E G T V Y K F F R D L W K A
UniRef90_M1MZN9 L S I R Y K I A Q C G V A N L F V N L N G N K L T R Q G I W R V K E Y S R K A
UniRef90_J2ZQ13 R M M Q G Y K E N E P F W L K K L Q S K N G R I L S N S T L N Q K L T K F C K E A
UniRef90_F2I9X9 I K P G P D S Q I L L F V K K D G R K L S P K F V Y R K I N T Y L
UniRef90_S2Y9G2 R V R N L Y I K D K F A E Y L F L S Q K G K K L T P E T V E R V V L I E C A E A C
UniRef90_F9VAZ9 Q R V L Y R K Q Q V L S T E I V F A S S V I G G Y R A R T N I L A K E L N A H Y K N A
UniRef90_UPI0003634483 R M L K P F C K G V L N E Y Y V L T N E P K A T E R P T Y R E Y Y H L M E E L
UniRef90_UPI00036E1F63 L Q T G L N S V I E N K D K L F T N R T G K Q L T R A G V A Y I L K Y V E A A
UniRef90_B9K2P6 P L K N M T F L T A Q G K P E T P A G F T N W F R D M T K E A
UniRef90_UPI0002E742BF L M D E N K E V F G N H E A V F L N W F G R L A S D T F R R N L A R Y L K K A
UniRef90_UPI000403F41E Y R V K E R D K I A D A H F V F C H M D G T P F H H E R P Y L W F R G F V K K N
UniRef90_U6F5L7 A C K L K H Y R H D L S D K L F H T A K N D F L R P S K P D Q W L K A V Y A K A
UniRef90_UPI000262C3BD T A A D K G W I F P S T N P K Q S K A G H I T N M G R Q F A R A V V R A
UniRef90_H4F9L9 K L C P Y H L P D N E P I F R G A R G A K L Q P A I I Q R E M Q R L R S A L
UniRef90_W8U6G5 K S R T S L I K P C S G S A L F L N L K K G D R L T R Q G L W K I K G Y A K E A
UniRef90_D4JH26 D K L S D Y Y N T S M K G D S Y F L K K N Q P M D P R T Y Q N R F H I Y I K E A
UniRef90_A0A059DVH5 E Q C P Y A L T R T Q P L F R G A K G G A L N P R L I Q G L V Q R L R
UniRef90_T0GTE2 A L C P H A M E R Q A P L F R G A R G G P L S P A L I R R A V Q G A R G A R L
UniRef90_U7GG57 Q A V E H Y L K I S P D G P L F L G A R G G P L N P R M I Q L A M A R L R G A
UniRef90_S1CCT1 G N H H R W V F V Y K E S C T K P D G T K A P T V R K M R Y D A N T A W K A A
UniRef90_J3C5U7 C D G R N H F D S L K L F P Y A D Y T I S Q A E R R A V R K C
UniRef90_UPI0002489BB2 E W A V L V P A D S P W L F S G K N H L S R V R L Y Q L L K T L A A D A
UniRef90_A3MZK6 K R L Q P E T T W L F T N K W G K L S R V Q L L T V H F R E I R E K A
UniRef90_UPI00046628E6 W L G D N E E N R P L F P S L R G G E P L S R D A L E H L V R K H S A R A
UniRef90_B0LS68 H H L E H F A A P G R D G H V F V G P Q G G Q L R R S N F R D D W V K A R E A A
UniRef90_C3QQA2 G K L P D G K V L P I S N Q K L N A Y L K E I A
UniRef90_C5T5H8 L R A A P F G G D A S P R L D A A L F V I G R R G V R L T A Q S L W L R R Q R S
UniRef90_K2HNL8 A I C P Y P L G V D G P R L F R G G A L D Q R I V R G T M E R A R M Q L
UniRef90_R5FRR8 W L P E R K A D E N D E T P V F A E L P S R P T T N K I L K Q W V E K A
UniRef90_I3V5C1 G V K S K G R V F S Y T S N G F K S A W R I M
UniRef90_B5Y8N9 R K G S Y V F C D K K G K K R S R V W L W R K T R A F L
UniRef90_V9W1J8 Q Y L D R L R K H R R S S Y V F P A R R T K Q P H R I S I D H A W Q T F K H L A
UniRef90_D4BZW9 Q N G R P K T L H R E V F A S H K T P R E R P I S R S V S I A I R Q V I T R A
UniRef90_L7BP93 I F E E Y L Q E R I H K G D C L F L Q G K G N L T P S G I E F I E K T A E K S
UniRef90_UPI0003717336 F S A K I H Q E H T Q D S V F L P A P D G G F Y S K G S M Q Y A W S Q L L R A A
UniRef90_A0YUV0 D V R G R S P G P L L C P I R K G G K I E R R Y M T Q A L F F I M K K R
UniRef90_UPI0004773523 T E R A K W R D A D S D W L F L S Q K G G P L S R Q Q F L L L K R Y G E L S
UniRef90_F3Z7C2 D R Q R Q E R K W Q D S G Y V F T R P N G A P I E G A T L T R F T A L L H R A
UniRef90_K6C7E7 D F R Q D K D P A I F V T E R H P H K M S I G Q M R Y I I K R L S S R A
UniRef90_S5AJD3 N D C G S P L W V F E G P P E Q M K D I K K A S T V
UniRef90_B5WEG8 V A F K T C F G A S S Y V H P G R Y E T A S P I S A A T L N R V I D S T V K L I
UniRef90_R5PGW9 K P D D N V F D W L H S P H V T N S T L R E W C M G A
UniRef90_B3CSP7 L T S K S K W V L S T D R S K S V H L E N P Y R G W Y K C K K A
UniRef90_A0A011SYH4 A L I N K M P K G R P T D P I F P F N P K S V S T S W T K A M K A L
UniRef90_D4M0M9 K E H G I K T G W V F I T K T G K L K D R S N L W R E M K N I Q K K A
UniRef90_M1M1A5 F E T N I T D E S N F L F K S Q K S K P I S R Q L T D Y L M K K Y C S L A
UniRef90_T2NQD1 H Y L R E V P H I T G P L F Y G Q T K G K K M T S A G V Q K L V K R I G E R A
UniRef90_R9MM31 Q Y W F H A G G P R G F L F P N Q N D S R R P M A S Y T V N Q F I S A K E A E L
UniRef90_UPI0003B44CCF R K Y P G A S T D W R W Q Y V F A S A R R D P R S G Q V R R H I I K A I H K A A
UniRef90_R5XQA3 I W Y E Q Q K S W I N S D R L F V Q S D G K P M H P S T I S K W F V N F V K E I
UniRef90_M2XTQ3 S R R A E L S P A S G P A L L G S R G G R L G T R Q I R E V V D R E L
UniRef90_T0MW2 G Y I K N Y R M Q S D Q R S L F T S D G G R M P Y T Y L R T M K I
UniRef90_UPI0003C7F0F4 R G R P A L A T S A S G P A L F L G V R G G R I D P R T V R E I V H R R L
UniRef90_M4TF88 K N G T L F K P C Y A F R S A I E R A
UniRef90_F7LRR9 H G R R E G L F F R E F P S N S F N R T I Q E I C I K A
UniRef90_H7GE53 E E K A S T P D W Q D H G L M F P S S K G T P L E Y N N F K R A F Y A L Q E K A
UniRef90_UPI0003086343 M K E E V G D L W V E H N R L F T Q W N G M P H P N T P N M L K K F L K K Y
UniRef90_K2N648 D G H K G P F A M L K Q A Q Y R T I W N E A K A E
UniRef90_T0ZQ45 P R D D N Y P W V F A N P K T H K P Y V S F F S S W D S A R T K V
UniRef90_W6TST7 L S V R S K L P W S N S P Y I F S G K K G F W P R Q S V G R A L K A L A L K A
UniRef90_F7KMU4 Q V Y K K K Y Q I G P E E Y L F K S K K G A F Q Y A T L R Y Q M L K Y C E K N
UniRef90_P36932 I A D N K R G F L F P D A D Y P R F R R T M K A I
UniRef90_C4ID56 E Y I S Q K G L Y N S D E I I F K S Q K N P L S R K T L D Y L M K K Y C K L A
UniRef90_R6P087 E K L R L G P A Y Q D H G L V C A Q A N G K P Y D P A E F S K A F S L A K R A
UniRef90_R9I3P4 Q A L K M V R K Q S Q S P Y V V G T S T Q S K E P R S Y R D Y F G R L L K R L
UniRef90_S2KDY3 T V R G Q L A A S G E T A L F V G I R G Q R L G H R A I Q L R L R A H L A
UniRef90_F7SS52 S P F I H R K P L R M P S R K G N R H W S Q V T P D Y S R E F E K L R D I
UniRef90_UPI00046FB284 M K L M D K W Q G D R N F V F H S G Y G K P Y Y H T T P T Q R W K D W E K N
UniRef90_UPI00035CBA82 E R I I D K Y K D K R C E G G R L L P L F S N Q K T N Q Y L K E I A
UniRef90_R2P620 D V P H I T G P L F F G Q T V G K E M T S A G V Q K L V K R L G E R A
UniRef90_UPI0004049260 E R L K M G A E Y Q D H D L V I A R P N G Y Y M H P K T F D D A W Y R A L K K S

UniRef90_C7PZV6
UniRef90_UPI0003B65AEF
UniRef90_L0LUE1
UniRef90_A0A0233E47
UniRef90_R9MMH3
UniRef90_UPI000378A57A
UniRef90_X6KWR0
UniRef90_B5JET9
UniRef90_K8NH06
UniRef90_U1XA82
UniRef90_K2DJ23
UniRef90_D5BU10
UniRef90_D1CFY4
UniRef90_X0S5T8
UniRef90_I1A054
UniRef90_K7QTE3
UniRef90_E4TMD0
UniRef90_G0JU17
UniRef90_K2BT77
UniRef90_A3XCU1
UniRef90_UPI000249300E
UniRef90_R9BUC1
UniRef90_M1MZN9
UniRef90_J2ZQ13
UniRef90_F2I9X9
UniRef90_S2Y9G2
UniRef90_F9VAZ9
UniRef90_UPI0003634483
UniRef90_UPI00036E1F63
UniRef90_B9K2P6
UniRef90_UPI0002E742BF
UniRef90_UPI000403F41E
UniRef90_U6F5L7
UniRef90_UPI000262C3BD
UniRef90_H4F9L9
UniRef90_W8U6G5
UniRef90_D4JH26
UniRef90_A0A059DVH5
UniRef90_T0GTE2
UniRef90_U7GG57
UniRef90_S1CCT1
UniRef90_J3C5U7
UniRef90_UPI0002489BB2
UniRef90_A3MZK6
UniRef90_UPI00046628E6
UniRef90_B0LS68
UniRef90_C3QQA2
UniRef90_C5T5H8
UniRef90_K2HNL8
UniRef90_R5FRR8
UniRef90_I3V5C1
UniRef90_B5Y8N9
UniRef90_V9W1J8
UniRef90_D4BZW9
UniRef90_L7BP93
UniRef90_UPI0003717336
UniRef90_A0YUV0
UniRef90_UPI0004773523
UniRef90_F3Z7C2
UniRef90_K6C7E7
UniRef90_S5AJD3
UniRef90_B5WEG8
UniRef90_R5PGW9
UniRef90_B3CSP7
UniRef90_A0A011SYH4
UniRef90_D4M0M9
UniRef90_M1M1A5
UniRef90_T2NQD1
UniRef90_R9MM31
UniRef90_UPI0003B44CCF
UniRef90_R5XQA3
UniRef90_M2XTQ3
UniRef90_T0MWC2
UniRef90_UPI0003C7F0F4
UniRef90_M4TF88
UniRef90_F7LRR9
UniRef90_H7GE53
UniRef90_UPI0003086343
UniRef90_K2N648
UniRef90_T0ZQ45
UniRef90_W6TST7
UniRef90_F7KMU4
UniRef90_P36932
UniRef90_C4ID56
UniRef90_K6P087
UniRef90_R9I3P4
UniRef90_S2KDY3
UniRef90_F7SS52
UniRef90_UPI00046FB284
UniRef90_UPI00035CBA82
UniRef90_R2P620
UniRef90_UPI0004049260

UniRef90_C7PZV6
UniRef90_UPI0003B65AEF
UniRef90_L0LUE1
UniRef90_A0A023SE47
UniRef90_R9MMH3
UniRef90_UPI000378A57A
UniRef90_X6KWR0
UniRef90_B5JET9
UniRef90_K8NH06
UniRef90_U1XA82
UniRef90_K2DJ23
UniRef90_D5BU10
UniRef90_D1CFY4
UniRef90_X0S5T8
UniRef90_I1A054
UniRef90_K7QTE3
UniRef90_E4TMD0
UniRef90_G0JU17
UniRef90_K2BT77
UniRef90_A3XCU1
UniRef90_UPI000249300E
UniRef90_R9BUC1
UniRef90_M1MZN9
UniRef90_J2ZQ13
UniRef90_F2I9X9
UniRef90_S2Y9G2
UniRef90_F9VAZ9
UniRef90_UPI0003634483
UniRef90_UPI00036E1F63
UniRef90_B9K2P6
UniRef90_UPI0002E742BF
UniRef90_UPI000403F41E
UniRef90_U6F5L7
UniRef90_UPI000262C3BD
UniRef90_H4F9L9
UniRef90_W8U6G5
UniRef90_D4JH26
UniRef90_A0A059DVH5
UniRef90_T0GTE2
UniRef90_U7GG57
UniRef90_S1CCT1
UniRef90_J3C5U7
UniRef90_UPI0002489BB2
UniRef90_A3MZK6
UniRef90_UPI00046628E6
UniRef90_B0LS68
UniRef90_C3QQA2
UniRef90_C5T5H8
UniRef90_K2HNL8
UniRef90_R5FRR8
UniRef90_I3V5C1
UniRef90_B5Y8N9
UniRef90_V9W1J8
UniRef90_D4BZW9
UniRef90_L7BP93
UniRef90_UPI0003717336
UniRef90_A0YUUV0
UniRef90_UPI0004773523
UniRef90_F3Z7C2
UniRef90_K6C7E7
UniRef90_S5AJD3
UniRef90_B5WEG8
UniRef90_R5PGW9
UniRef90_B3CSP7
UniRef90_A0A011SYH4
UniRef90_D4M0M9
UniRef90_M1M1A5
UniRef90_T2NQD1
UniRef90_R9MM31
UniRef90_UPI0003B44CCF
UniRef90_R5XQA3
UniRef90_M2XTQ3
UniRef90_T0MWC2
UniRef90_UPI0003C7F0F4
UniRef90_M4TF88
UniRef90_F7LRR9
UniRef90_H7GE53
UniRef90_UPI0003086343
UniRef90_K2N648
UniRef90_T0ZQ45
UniRef90_W6TST7
UniRef90_F7KMU4
UniRef90_P36932
UniRef90_C4ID56
UniRef90_K6P087
UniRef90_R9I3P4
UniRef90_S2KDY3
UniRef90_F7SS52
UniRef90_UPI00046FB284
UniRef90_UPI00035CBA82
UniRef90_R2P620
UniRef90_UPI0004049260

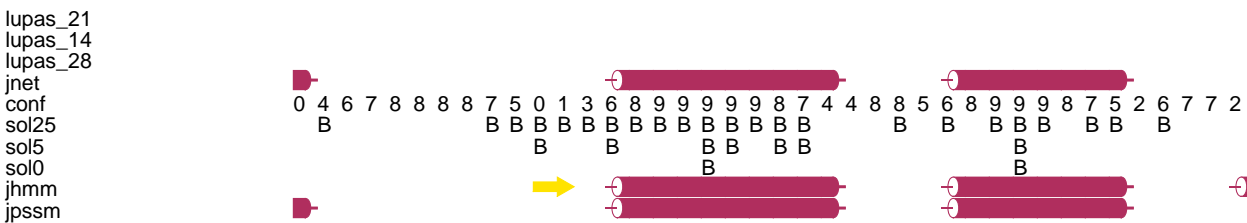
A T T E R Y D
S T T Q V Y A D I E
D T T N R Y A E I S
K M T M R Y A H F A
N S T T I Y V H L A
S T T S K Y D R
S T T Q A Y T A V D
S T T Q I Y T H V N I
T T T H M Y L E A D L
S T T A I Y A H I D M
S T T E R Y L S L A
R Q L F R Y T H L V
A V T Q V Y A H L V
S T T Q V Y T H L
D T T L K Y A M V K
T I T L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

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

1 10 20 30 40
UniRef90_UPI00046587BD E I Y T L D E V K T L F G S L K G E P M K Y Q V Y L M L A I L Y S G F R R S S E M
UniRef90_UPI00031A649A L S H D D I A K L F T L A E P A D I R L L A L I E L L Y G S S G L R R A S S E L
UniRef90_M6DAQ3 V M N K S E V K L F L S E Q R S L Q E R T V F S V L Y S S G L R R A S S E L
UniRef90_K9E897 I L N Y N E A I K L S E S E L K Q N T Y T S R Y M I L L A L A T T G M R R G S E L
UniRef90_L0EH95 R V W D E Q Q L A Q F F R E F K N P R Y Y A I F F L A A T T G M R R G S E L
UniRef90_UPI0003F5AC3E R A F T L E E K K K E F L F N H N K R Y Y H L F L I L L N T G A R R I G L E I L
UniRef90_M1LY90 T N E E V E R M M K V Y T G S D Y R N K L I M A F L L D T G V R C L G L E L
UniRef90_X1AYG9 V L L S K N E V R L L K T P Q L L K H R I V L A M L Y G C G L R R R F E L L
UniRef90_UPI0003B6D500 M D E V R Q C L E V C C E T P A R A R A I I S L L V D T G L R R R S E L L
UniRef90_A9WP60 A I V E L L Y A A G L R R V S E A
UniRef90_E0TG77 H R D R A L F A L L Y G A G L R R S E A
UniRef90_A8MHT5 E I L S D E E I E L L Y K C I N D N T E R N K C M I S L M L D S S G L R R R E E V L
UniRef90_F4AHP1 R D K A M L E L T Y S C G L R L A E L
UniRef90_S5M872 E V L D L D T I K S L I E S A E S L T Q E C I R F F Y S T A C G L R L A S E L
UniRef90_F4KUG8 T D Y T G L R D Q V V I E L L Y L T G M R R A E L
UniRef90_UPI000304E6B9 K A L S V E H A V A L V A H R Q D D T A R D Q A V F E L F Y S S G L R R L S E L
UniRef90_G2FHF8 V L T T S E V E Q L L R T M P D K S R L M G A L L Y G T G M R L M E C
UniRef90_Q01P77 R Q R L T R P E I E A L L A A P N R T G R R D H A F L L T A V Q T G L R L S E M
UniRef90_V4PI92 R F L N T A E L K R L H R L A E C A D I Y M V A A I R L L I H T G A R S S E V
UniRef90_C4SJY0 L S Q D E I K R L L V S C E S E N K S L G T V R L C L A T G A R W G E A
UniRef90_I3Y0B0 L S D E K T K E L Y D I L Y N Y P L E P F K S J I F I W L T H S G R R L N E T
UniRef90_D5X3X2 R R L T A G E L D Y L L R A A R A R L P Q V I T L A V E S S M R L G E L
UniRef90_E3I853 T E D E V A A F R A H W A I E T R Q R L A F E L L L C T A Q R S S D V L
UniRef90_UPI00046F29DE E K D I D T L E N Y V E F N D D W D R L V L L V F Y N T G M R L S E L
UniRef90_S6GN1 V L L S L Q E V D K L L A A P D T T G K R D K A M L E F L Y A T G I N I S E L
UniRef90_H1Y0G6 T G L R D K L V I E L L F G T G I R L A E L
UniRef90_X6YU72 Y L D R H D Q I A V L F E D T L R Q M P Y H V E L L S A I C L A T G C R W G E A
UniRef90_V4IX18 V L E R S E V A R L L Q G L E R G T Q H H L M A G L L Y G T G M R L M E C
UniRef90_X6DQ34 L T R P E V D A L L A A P D R S G R R D H V F L L V A V Q T G L R L S E L
UniRef90_H3ZES9 L E I N E Q I S Q L L S F A S H D D I R D K A M L E L F Y S S G L R L A E L
UniRef90_B7KME9 R Y L N P E Q L A V L Y R L L K E N S Y R L Q T L V T L L H R T G A R I S E L
UniRef90_UPI00029ABEE7 R R R L T V I G Q A K K L I E V S K D V A N G A V F V L A L T T G L R K G E L
UniRef90_L0E7T6 T F T D E H L Q R L F R A Q P D R S G Y R N Y V M M L V L D T G I R L K E L
UniRef90_UPI0002FC6083 V M T T S E T K A F F N H I D P K Y K L H A Q L L Y G S G L R L M E C
UniRef90_K2CCS4 R I L S E L E Y R A L R D V A R S D L R M F A I E L F L Q T G I R I G E L
UniRef90_UPI0002BA80ED R D R L T D E E L Q R I E Y L S E N P N T P I F L I M W L A I Y T S R R L N E I
UniRef90_W0BPK9 R L Y L T Q H E T E Q L L Q A T E K N G L R D R C M I L M C F Y H G L R I S E L
UniRef90_F4CZC0 D P F A R L A I E I L A R T G M R R S E M
UniRef90_C4UZ20 S P P I V R V A M E L V Y L C C A R Q A D T
UniRef90_F2B1Q0 V M S P E E V G Q V F E G L E G V Y L V I A K L L Y G C G M R I S E A
UniRef90_R7Z8P7 A I I T L L G T G I R I G E L
UniRef90_K8XDW1 L T K E E A E A L L V V P D R D G R R D H A L L T V A V Q T G L R V A E L
UniRef90_R7H1W0 Q Y L T D E E L K R F M A S D E R S P A E A Q R A F G F A C L T G L R I S D I
UniRef90_G5ZWG8 R R L N S G E F E K L E K A A R T Q N P H I W P L V V F A I E T G M R R S E M
UniRef90_I3VY59 K V W D E D T A K N F L D F L K D E K I Y L P V K I A L E T G M R E G E I
UniRef90_G2HAD5 E Y M T P E E V S R F F M V M Q E W P N Q E V C R M L S Y F T A M R K G E I
UniRef90_Q03VJ0 K F L E Y A D F K R F I E Y L K E N H E P T H D I M L V A S L S G A R L G E V
UniRef90_B9EBN4 E Y I P K D L I K P F L T D V K R R N I Y H Y Y L F R L I E T G L R V G E A
UniRef90_I6G2H3 M E I A Y L C A A R V S D V
UniRef90_A0A011NXT8 R T L S P D E A S R L L E T G D E S P L A I R D M F E L F Y S S G L R L A E L
UniRef90_W0BUE6 R K Y L T Q S E V E G L L E T A R G N P E R D Y C L I L M S F I H G F R V S E A
UniRef90_C9L0S7 R G F L T D E E I Q R I M Q K D F E I P E M V R D V F I F S C F C G L A Y I D V
UniRef90_E8UY16 D V L T P G E F S A L V E L L P L R V K A M V I L A G S T G L R R S E L
UniRef90_G2Z2Y6 R E Y L S D E I K S L I E T S C R Y E V L K R A F L E S C L T G L R W S D V I
UniRef90_UPI000362A631 R F L S R S E A R I L L D E L F M V S I P L Y E K T L I S L H C G L R A S E V
UniRef90_I9BZZ3 K A L S V E Y A V A L M A P A P N A P E T L R D I Y E L L Y S S G L R S E V
UniRef90_M7X810 E D T I G K I L E E A D F D G Q R D R M V M E F L Y L T G V R L S E L
UniRef90_UPI00037B6EAD R Y L T D E E Q R V R T A V S W G D Q E L A D L I V F G V D S G A R V S E V
UniRef90_UPI00047BA95B Y L T K T E I Q A L Y Q A A K D E N Q R D T A M L D I F Y G C G L R A S E G
UniRef90_A9IB51 D Y L S I E A V E L L N A R K P M G R R D L V L L S V L Y D T G A R V Q E L
UniRef90_K5ZYV1 R G Y L T E D E I T I L L K K V S E R L E H V R D L F I F A C F T G L A Y I D V
UniRef90_E6UUL1 R D R A I V E I L Y G C G L R V S E L
UniRef90_I0IJ2 L E G D E E A Q R L L D A P K G N G L R D R A I L S C Y L F H A L R R S E L
UniRef90_X1S9L6 R E L Y N E I E K L L N A C Q S P L E T A L V T L L C D T G L R I S E L
UniRef90_R6GZ26 L S K E E Y F R L L E A A E N G N T R L Y L L M Q T L C A T G I R V S E L
UniRef90_I3ZJC4 L T K E Q A R E L L A V P D R S G K R D Y A V L A L L V G C A L R R R E L
UniRef90_W2E7L3 S M D E V R K F L D N V P A D Q Y R I A F I L A L Y T G M R R G E L
UniRef90_M1XR99 T R E Q K E A M K E H C P G P K T R N E L L I E L M W Q T G L R R E E A
UniRef90_F4AAZ8 L T N S E A R M I K E A D K H D L R A K A F L C T L Y T G M R V S E A
UniRef90_B3XMH5 K Y F D E E E L N K I L K Y M Y K R S P H Y G R F C E F L Y Q T G L R F G E A
UniRef90_A8L3C2 L T V I E Q A H Q L L D A A A G G R L Y A L L V L A L F L G M R R G E L
UniRef90_W7D7Y9 R E T L N S Q D E I K K L A N H F K K S Y R D L V I F Q L L L D T G V R I S E A
UniRef90_B1BTG3 E F W S K Q L D F L N E I K D T Y L Y F P V L I C A L T G V R V G E L
UniRef90_A0A015TWG2 E Y L T L D E V K Q L A A T P C D I P V L K A A S L F S C L T G L R I S D I
UniRef90_I2IQF1 L T A E E V E R L I R S L D Q Q G R S M R A I V R C A L D L G L R S G E I
UniRef90_UPI00036AA60A S A E N A R L F L E W S Q S T G D Y L W L A W L T L L G T G M R R G E L
UniRef90_V7HW95 T K E E L N D F L T Q A E P H A E Q K Y T L F R L L A Y S G M R V G E A
UniRef90_D3MU34 D Y W T L D E F N T F L G F V I E P E K S L A F K I L F Y G G I R Y G E L
UniRef90_C5T3Q1 R D R L S P V E I H K F F R A L E E S A A T L R L A V K F M L Y T M R K G E F
UniRef90_A0A022L3D0 R Y L T I P E A R A L M H A S K G S R Y H H A V V L I A H T G L R R G E A
UniRef90_X5KJP1 R D F L S L K E I K L L T D Y Y N K N F T K L L Y F L L E A C Y T G L R F S D L
UniRef90_B4ALS6 D V L T P A E I E K L F A A L P D S F E G K R N A A M L S L M S G L R R E E V
UniRef90_R7FY66 R T L T S A Q V D A L L R A C D R L R D R L L V S L L H T S G I R I G E A
UniRef90_L8DF04 T P E Q C A S F L R H L A A T R E R Y V A L Y Q L A M T R G L R S G E L
UniRef90_UPI00034639F8 R E R L S R A E V S R L L A A L D G A E H D L A Q L L Y G T G M R L M E A
UniRef90_HOQ036 T K E E M L L L S Q P N Q R E Y R D Y V L M T L L L D T G M R I N E V
UniRef90_UPI00047077A9 L S L T D Q R K I E L V A L Q E K E C S P I L L L L Y S G M R I G E I
UniRef90_A2SRK2 K Y L K H N E V V A F I N S I E N P R N A L L I R T I Y A T G M R I S E I
UniRef90_UPI000362DFB7 S L D E T L D F L A A A R T D P L Y A A F V I A I A L G F R G E I
UniRef90_R4KC34 T K E E L K A L I G A I D R G S P R D Y A I I L L A C I L G L R V T D I
UniRef90_H9C178 R E K L T L A E W C S I Y N A A Q C C P A Y F H H A M R V A L V I T A Q R R D L

UniRef90_UPI00046587BD G T T
 UniRef90_UPI00031A649A A T T Q I Y T H V D
 UniRef90_M6DAQ3 S S T L L Y L H A D
 UniRef90_K9E897 Q I T E V Y G H I
 UniRef90_L0EH95 T I T L R Y S H L
 UniRef90_UPI0003F5AC3E K T T L I Y T H I S V
 UniRef90_M1LY90 S I T K R Y L Q
 UniRef90_X1AUG9
 UniRef90_UPI0003B6D500 E V T K R Y
 UniRef90_A9WP60 A T T Q I Y T H V S V
 UniRef90_E0TG77 K T T Q G Y T E I D
 UniRef90_A8MHT5 E M T R M Y S H L A
 UniRef90_F4AHP1 S T T Q V Y T H L
 UniRef90_S5M872 N I T K K
 UniRef90_F4KUG8 A A T Q I Y T H H S I
 UniRef90_UPI000304E6B9 A T T Q I Y T S L D
 UniRef90_G2FHF8 S T T E I Y T H V
 UniRef90_Q01P77 E T T Q I Y L D A D L
 UniRef90_V4PI92 E T T E R Y A H L
 UniRef90_C4SJY0 L M T M R Y A H F A
 UniRef90_I3Y0B0 S V T K R Y S K V
 UniRef90_D5X3X2 S M L K R Y T H I E
 UniRef90_E3I853 R E I E R Y T K
 UniRef90_UPI00046F29DE A A T Q V Y T H
 UniRef90_S6GCN1 H S T Q Y Y
 UniRef90_H1Y0G6 S A T Q I Y T H
 UniRef90_X6YU72 A M T M R Y A H L A
 UniRef90_V4IX18 A T T M I Y T H V
 UniRef90_X6DQ34 E T T Q I Y L E A T L
 UniRef90_H3ZES9 S T T Q V Y T H L D
 UniRef90_B7KME9 Q T T L R Y Q K V
 UniRef90_UPI00029ABEE7 G L T L D Y S H L A
 UniRef90_L0E7T6 E T T E A Y I E L
 UniRef90_UPI0002FC6083 K T T Q I Y T H V
 UniRef90_K2CCS4 S T T E R Y L Q
 UniRef90_UPI0002BA80ED N S L K R Y L N L D I
 UniRef90_W0BPK9 R H T V H Y T
 UniRef90_F4CZC0 S M T R V Y A R I A
 UniRef90_C4UZ20 S Q T A R Y D R
 UniRef90_F2B1Q4 K T T E I Y T H V
 UniRef90_R7Z8P7 S M T E K Y
 UniRef90_K8XDW1 A S T Q I Y M H A D L
 UniRef90_R7H1W0 K S T A L Y A D V
 UniRef90_G5ZWG8 R M L F R Y T H I K
 UniRef90_I3VY59 S I T L D Y S H V
 UniRef90_G2HAD5 A M T K R Y
 UniRef90_Q03VJ0 S I T Q K Y L H L
 UniRef90_B9EBN4 E M T R I Y A H V
 UniRef90_I6G2H3 G Q V L I Y D R
 UniRef90_A0A011NXT8 A S T Q V Y T H L D
 UniRef90_W0BUE6 R H T V R Y T
 UniRef90_C9L0S7 K T T Q I Y A R I
 UniRef90_E8UY16 R I T L I Y T R
 UniRef90_G2Z2Y6 K T T S I Y A K V
 UniRef90_UPI000362A631 Q V T E R Y S H L A
 UniRef90_I9BZZ3 S T T Q V Y T A L D
 UniRef90_M7X810 A A T Q V Y T H
 UniRef90_UPI00037B6EAD A T T L R Y A H L A
 UniRef90_UPI00047BA95B E T T Q K Y T H L A
 UniRef90_A9IB51 K T T E I Y A R A D L
 UniRef90_K5ZYV1 E T T Q I Y A R I
 UniRef90_E6UUL1 A T T Q I Y T R L D
 UniRef90_I0IJ2 E T T R L Y D H
 UniRef90_X1S9L6 D T T R R Y Q A I K
 UniRef90_R6GZ26 N T T R I Y T
 UniRef90_I3ZJC4 Q T T E R Y
 UniRef90_W2E7L3 G I T M I Y S Y V
 UniRef90_M1XR99 D T T K Q Y L R L
 UniRef90_F4AAZ8 L T T N I Y T R
 UniRef90_B3XMH5 T I T K I Y L H V
 UniRef90_A8L3C2 E V T M I Y A H A S M
 UniRef90_W7D7Y9 E V T K R Y V Q I
 UniRef90_B1BTG3 T T T L N Y T H I
 UniRef90_A0A015TWG2 S T T Q I Y A E L V
 UniRef90_I2IQF1 N T T L I Y A K L D
 UniRef90_UPI00036AA60A Q T T
 UniRef90_V7HW95 Q T T L I Y T H I
 UniRef90_D3MU34 T T T L N Y S H L
 UniRef90_C5T3Q1 G V R A I Y N R A E
 UniRef90_A0A022L3D0 A I T D V Y A H V
 UniRef90_X5KJP1 R T T Q V Y A K I V
 UniRef90_B4ALS6 K T T
 UniRef90_R7FY66 Q M V E H Y V H F A
 UniRef90_L8DF04 T T T D T Y A H L E I
 UniRef90_UPI00034639F8 S F T A D Y T N V
 UniRef90_HOQ036 S T T M I Y T H V
 UniRef90_UPI0002D3D214 Q M C R K Y V Q
 UniRef90_UPI00047077A9 K L T
 UniRef90_A2SRK2 Q T T E I Y I H T D I
 UniRef90_UPI000362DFB7 A V T M V Y T H V V
 UniRef90_R4KC34 D S T A V Y L K V D I
 UniRef90_H9C178 R T T D N Y N

										130											140									150									160	
UniRef90_E4PPI6	G	I	T	L	P	P	G	Q	A	A	H	V	L	R	H	T	A	S	H	F	L	M	N	G	G	D	I	V	T	L	Q	K	I	L	G	H	S	H	I	
UniRef90_UPI00036E09A9	G	L	D	D	N	R	Y	K	V	V	F	H	T	L	R	H	T	A	S	W	L	A	S	D	G	I	P	L	Y	V	I	S	Q	L	L	G	H	K	S	L
UniRef90_V9GFM7	Y	P	Q	L	S	G	Q	S	L	S	A	H	K	L	R	H	F	A	T	E	L	L	R	N	G	A	D	L	R	A	V	Q	E	L	L	G	H	E	D	I
UniRef90_G2FPZ5	G	N	M	P	G	S	Q	W	H	G	M	H	S	L	R	S	T	A	G	N	M	L	E	I	K	S	P	L	P	I	S	E	A	L	G	H	Q	S	V	
UniRef90_E4LLD9	G	I	P	K					V	H	P	H	K	F	R	R	T	A	T	R	A	I	D	K	G	M	P	I	E	Q	V	Q	Q	L	L	G	H	S	K	I
UniRef90_UPI000365EBAC	Q	S	G	I	C	N	K	R	L	S	C	H	T	F	R	H	F	A	T	H	L	L	E	S	G	R	D	L	R	T	V	Q	E	L	L	G	H	S	D	V



UniRef90_E4PPI6	S	M	T	L	R	Y	S	H	L	A	170
UniRef90_UPI00036E09A9	S	Q	T	Q	R	Y	A	H	L		
UniRef90_V9GFM7	S	T	Q	I	Y	T	H	V			
UniRef90_G2FPZ5	N	T	S	I	Y	L	K	I	D	I	
UniRef90_E4LLD9	D	T	T	M	E	Y	A	M	V	D	
UniRef90_UPI000365EBAC	R	T	T	Q	I	Y	T	H	V		

lupas_21
 lupas_14
 lupas_28
 jnet
 conf
 sol25
 sol5
 sol0
 jhmm
 jpssm

