

QUERY 1 10 20 30 40
UniRef90_C2LH88 P D D E T R V N F Y L A G R A P A H T P V D T A S L L E L L A R Y G Y D V T K P D M T
UniRef90_E3G255 P D D A R V A F F Y L A G R A P A S S E P V V D T A N F Q T L L L A R Y G Y G Y Q V T P P T G M T
UniRef90_S3IY98 P D D A A R V A F F Y L A G R S P Y A Q P V E D D T A S N L L D L L L A S R Y G Y Q V T P P P G M S
UniRef90_E0WRG7 P D D E N T V K K Y I A H R S D K Y A I A S V S E I Q K A L A K Y G Y T T P T S G E L
UniRef90_D2U1P5 P D D A R M T V K K Y L A G R S R Y A P A S V S T I L Q K Y L A K Y G Y D V T P Q T P S E M T
UniRef90_G8WII5 P D D A R R V A F F Y L A Q G R P S Y E P V D A A A L D V L L A R Y G Y Q V T P P P E M T
UniRef90_V3TT94 P D D P A R V I F Y L Q G R D T S A P V V S Q A D L L T K L L A R Y G Y Q V T G T A G M T
UniRef90_G9Z626 P D D N A D R V A F F Y L A G R A P S A P V D T A S V L L D L L L A R Y G Y E V T P P E M S
UniRef90_UPI0003299FE1 P D D A T V A K Y I G G R A D K K G A A S V A V I Q Q A L A A Y G Y K I P Q T G Q L
UniRef90_D0JW15 P D D A G V T V N F H L A G R A P D M P V A V A S I L Q K V L S L Y G Y E N I P T D G L L
UniRef90_W1IXW6 P D D A G Q V E F Y L A G R A P D E M P V A V R P L L D K K L A S R Y G Y Q V T P P E M T
UniRef90_UPI000478A276 P D D E Q R V A F F Y L A G R P A S E P V D P E I V L D L L L A R Y G Y Q V T P P E M T
UniRef90_W9B6T9 P D D A V T V H K H L A G R P E P S Q A T V D V S I L V Q R A L A T Y G Y D V T P A T G V L
UniRef90_U1T0P5 P D D A T V A E R L A G R D P P H A P A D V R A L L Q K L L A R Y G Y D V T P A T G V L
UniRef90_UPI0003163FD6 P P E P D R V A F F Y L A G R S A Y A P V E E G S L L T L L E R Y G Y D V K P E M T
UniRef90_UPI0004056EB9 P D D R A T V T R Y L A G R A K E A P V D V L T L I Q K K A L A A Y G Y Q I P N Q G I N
UniRef90_G9YBY6 P D D R A T V A K Y I L N G R A K E Y D I G S V T V I Q Q A L A A Y G Y Q I P N Q G I N
UniRef90_C4SXW6 P D D E A T K S C Y M Q K Y N G G L P E K A E I L E K L K R Y G Y D V S K A N T
UniRef90_I0DSR0 P D D P A R V A F F Y L N G R A E Y T R V V S N A A A L D L L L A R Y G Y S I P K S T Y G M T
UniRef90_V5AN64 P D D I T V N K Y L A N R V P S M P V V I G I L Q K A L A L Y G Y S I P Q N G V L
UniRef90_D3V7Q8 P D D R S T V N K Y L A D R S P H S M P V K V S V I Q A L L K Q Y G Y D P Q N G V L
UniRef90_C5BFW7 P D D E S T V T K E L A G R E N P H A P A D V R A L L Q K L L A R Y G Y D V T A T G V L
UniRef90_B2JKP9 P D D A Q R V A F F Y L A G R N P Y A P A V G E N D L L D L L L A R Y G Y D V T P Q M S
UniRef90_K8ANM8 P D D P A R V A F F Y L N G K P R D E L V E P K V L L D L L L A R Y G Y D V T D N M T
UniRef90_X5G7H7 P D D P A R V A F F Y L N G R P R F Q A A V D T A A L L D L L L A R Y G Y D V T A N G S T
UniRef90_J7GAP4 P D D P P E R V A F F Y L Q G R A P H A A V D R R T L L E K L L G R Y G Y E V T E A N G S
UniRef90_C6C7W7 P D D P Q T V T K Y L A E R Q V N A P V N V L N L L Q K A L K F Y G Y G I P T E G K L
UniRef90_K8WZV2 P D D A A R V H F W L N G R D A Q Q P V P V D K L L G L L A R Y G Y Q V T P T G M S
UniRef90_UPI00034AF5C2 P D D A Q R V R F Y L G D K Q T Y T P A D R G A L L K K L A C Y G Y E V N T P G M S
UniRef90_C6CKA0 P D D A A V A T H L A G R D P P K A P S D V R A L L Q E K L N R Y G Y E V A T G V L
UniRef90_K8RCG5 P D D K E L V Q T Y L A G R D P S E P V D I A N F Q K L L A Q K Y Q T P T G V L
UniRef90_V6MJX8 P D D E A T V E K Y M A G R K W H D K A S V E L I Q K T L A K Y G Y T I P T G V L
UniRef90_Q7N3C7 P D D A S R V A F F Y L A G R P P R L K V E S E K L L N L L S R Y G Y E V T S S G M T
UniRef90_UPI00046AA7FB P D D P Q R V A F F Y L A G R H R D A A V P V A T V L D R L S Q R Y G Y E V T E G M S
UniRef90_D4GNE3 P D D N K E T V E Q Y L A G R S P D T A D V L T I Q K A L S Q R Y G Y D P Q S G I L
UniRef90_W0L9S3 P D D P D T K E K F T Q Q F T Q H G L P A K T D I L S H F S T Y G Y D I S I A N N
UniRef90_C4TUY8 P D D A A T V T K Y L S G R T I D E S S D L L K L L Q K A L K R Y G Y A V P S G E L
UniRef90_K8VY22 P D D A T R D R Y Q A R F E R D G L P S R A E W L E A L R R Y G Y A V P E R G N
UniRef90_A6UZQ6 P D D E L K D H Y Q K Q F C K S L P E K A D V L A R L K R Y G Y D V L J A S I
UniRef90_J0YN31 P D D A A T V T Q R Y L A N G P P P M Q P V V E A A L L E K L G R Y G Y D V P A E M T
UniRef90_D0KB63 P D D A A G R V S F Y L A G R P P E Q P V D H A H L L T L L S L Y G Y Q A S P E M T
UniRef90_U1V727 P D D E L K D C Y Q S Q F C K S L P A K E D I L D K F K Q Y G Y D T P I A E T
UniRef90_D8MQA2 P D P A R V A F F Y L N G K P Y Q S V E P D A L L D L L A R Y G Y E V P E N S T
UniRef90_E6YIW9 P D D L L T V E H Y L A G R D K Q M P V P M A Q L L E K L A R Y G Y G V D P Q W D
UniRef90_A4W8N4 P D D E E T R Q R Y Q Q R C C C Y Q L P D R Q Q L L A L F A K Y G Y D T S A A G D
UniRef90_W0LDY9 P D D S S T V Q R Y L A G R S H Y A A G S V R K I Q T D L A S Y G Y T I P T G I N
UniRef90_L0MKB3 P D D E E T K Q K Y I K Q F D H S L P D R T E I L K K F K R Y G Y G I S E A E K
UniRef90_D0FS98 P D D D D R V A F F Y L A G R S A N Q R A D K A K L L G L L A S Y G Y E V T P Q M L
UniRef90_N1NM60 P D D A G A V A Q F L A G H S A R D P A D P R E L M T L L A R Y G Y P V T D P G S
UniRef90_V5Z675 P D D E S R V Q A L I G E R N K H D L A S V E S I Q K A L V A Y G Y K I P S G E L
UniRef90_UPI000472D719 P D D E L V V E K Y L A G R L L T A P A S V A N L Q Q A L E E Y G Y T P T G V L
UniRef90_C4UFY5 P P E A E K I K K Y L N G R L L T A P V N V H K M Q L L K T Y G Y D P Q T G V L
UniRef90_J2L903 P D A S D V K R F L G N R H P S D K I S V G E L Q Q A L K K Y G Y E I P T G K A
UniRef90_G7UHS1 P D E P T K I F Y M N F P E A Q K D D I A D F Q K D L A T Y G Y S I P G Y W
UniRef90_J7TS78 P D E E D C K K E M E R R L S N E T T L R W L K A Y G Y S I E T G E L
UniRef90_I3ZXT5 P D A S R V A V L H H Q Q A N T P V D A A E L L K V L G R Y G Y N T A A A V T
UniRef90_B6J684 P Q A S R V K T L L H G R D P Q Q P V P I E E L L S K L A R Y G Y P V S T N M T
UniRef90_UPI0003628E95 P D E E T K K Y L G Q F S H A L P V S K D D V T G M L K R Y G Y D T S D S G S
UniRef90_UPI00032A3172 P D E E T R D K Y C K Q F S G G G I P E K A D I V A R L G T Y G Y S T A E A G T
UniRef90_J2LEM2 P E Q A T V Q R Y L N G R A A D E A V D Q E V L L G A L Q R Y G Y D V A A A T T
UniRef90_M1P4T0 P D D K L K A Q Y Q G K F M A A L P T K T E V L S K L T R Y G Y N T S I A G T
UniRef90_A4TL18 P D D E T K Q R Y L D Q F L C S L P S K N D I I S K L K R Y G Y D T S G A V S
UniRef90_C4SUD6 P D N D T K K Y A Q H F V S H G L P T R A E L V S R F S I Y G Y D T C A N S
UniRef90_U2FPM0 P D D E L K E H Y R Q R F C E S F P S K A D I V T K L R C Y G Y D T S A G A S
UniRef90_K4HIP9 P D T Q T K L N Y L N Q F T K Q G I P D N A T I L K Q L N R Y G Y D I T T G V L
UniRef90_H9KS14 P D E A T V N A Y R E R F R Y A M P G I A A I Q S A L S R Y G Y D I T T G V L
UniRef90_L7ZHV8 P D E A T K Q R Q Q E Y C S Q G L P A Q A E L L K L F A Q Y G Y D T S A N T
UniRef90_L0MD65 P D K E D V R R Y L A G R D P H A P V A L A P L L E K L A R Y G Y A I D P Q W D
UniRef90_V5CD67 P D K X Q V E Y L A G R D K Q A P V A M A P F L A K L K R Y G Y G V D P T W D
UniRef90_S5HE77 P D E E S L M Q H Y L T Q F S K S L P S K A D I V A K L Q A Y G Y D I S D A G T
UniRef90_W1IR98 P D E E T K Q K Y I E E F E Q S F P E K D K I L K K F S Q Y G Y D I S G A N E
UniRef90_K8W018 P D A K T V T N Y L S G R A V D E P S N V L L L Q K T L K F Y G Y A P Q T G K L
UniRef90_UPI000470CB2C P E A S T V A Y R Q R F A D R L P T V A Q L Q R G L A S Y G Y D I T S G D L
UniRef90_A1US17 P D E E V K N K Y Y H H F L R E I L L P S K E E V I T R L K R Y G Y D T S A A D S
UniRef90_E8XTQ6 P D D A R V N K Y L A G R N P Q S P V D Q A Q L L V L L K A Y G Y S V E D N M T
UniRef90_J3VR93 P D D A T L K H L Q R K H R C Q S S G S V A L I Q Q A L K A Y G Y T I P T G T L
UniRef90_Q7NYG5 P D P D D V R R F L A L Q P G T P D A A S W Q R R L A A Y G Y D A P S G E W
UniRef90_E6Z0U4 P D D E L K N C Y Q K E F C N H T C L E K A Q V V A K L K Q Y G Y D T S A K T
UniRef90_UPI000414M6R5 P D A P R V H F F L A G R A P Q Q L T D S N L L V D L L A R Y G Y Q V S S E M A
UniRef90_I4XX55 P D E P T K K K Y L Q Q F R T A G L P E R A E V L K A F A T Y G Y G V P A Q A T
UniRef90_E6YR78 P D E E Q K Y A Y Q K E F A K N L S S F I T E V I A K L K R Y G Y D T S A N T
UniRef90_G8LJU7 P D P D R V N F Y L N G Q P R Y Q E V D S A L L D L L A R Y G Y E V P E A A T
UniRef90_J3GHZ6 P D E T T R D E Y L C Q Y N T S G I P A R S E L L G L F K S Y G Y D V S G A S T
UniRef90_D4E8H5 P P Q G V V Y H Y L A G R K A P P P M L P L L A K L A R Y G Y T V D A K W D
UniRef90_W1N1S8 P D Q E Q R V A V W L A R F S A T P V P G L E Q L Q A L A A W G Y E T A N G V L
UniRef90_UPI000470826D P D E E A K A R F E H Q F T T Q G V P Q Q S E M L A A L Q A Y G Y G I A S V A T
UniRef90_UPI00046764C3 P D N D I K S Y Y L K Q F K H T G L P D K Q F L E K L Q R Y G Y D T Y L A T D
UniRef90_U2LZA9 P D D A T V L R Y Q T Q F L S A L P A K A D L I A K L S K Y G Y D T A V T G T
UniRef90_A0A024PRS2 P E T E R Q M A Y Q R R F M T S P P S L T Q W Q R A L A A Y G Y P V D T G R F

QUERY UniRef90_C2LH88 UniRef90_E3G255 UniRef90_S3IY98 UniRef90_E0WRG7 UniRef90_D2U1P5 UniRef90_G8WII5 UniRef90_V3TT94 UniRef90_G9Z626 UniRef90_UPI0003299FE1 UniRef90_D0JWI5 UniRef90_W1IXW6 UniRef90_UPI000478A276 UniRef90_W9B6T9 UniRef90_U1T0P5 UniRef90_UPI0003163FD6 UniRef90_UPI0004056EB9 UniRef90_G9YBY6 UniRef90_C4SXW6 UniRef90_I0DSR0 UniRef90_V5AN64 UniRef90_D3V7Q8 UniRef90_C5BFW7 UniRef90_B2JKP9 UniRef90_K8ANM8 UniRef90_X5G7H7 UniRef90_J7GAP4 UniRef90_C6C7W7 UniRef90_K8WZV2 UniRef90_UPI00034AF5C2 UniRef90_C6CKA0 UniRef90_K8RCG5 UniRef90_V6MJX8 UniRef90_Q7N3C7 UniRef90_UPI00046AA7FB UniRef90_D4GNE3 UniRef90_W0L9S3 UniRef90_C4TUY8 UniRef90_K8VY22 UniRef90_A6UZQ6 UniRef90_J0YN31 UniRef90_D0KB63 UniRef90_U1V727 UniRef90_D8MQA2 UniRef90_E6YIW9 UniRef90_A4W8N4 UniRef90_W0LDY9 UniRef90_L0MKB3 UniRef90_D0FS98 UniRef90_N1NM60 UniRef90_V5Z675 UniRef90_UPI000472D719 UniRef90_C4UFY5 UniRef90_J2L903 UniRef90_G7UHS1 UniRef90_J7TS78 UniRef90_I3ZX75 UniRef90_B6J684 UniRef90_UPI0003628E95 UniRef90_I0QU62 UniRef90_H3RL55 UniRef90_UPI00032A3172 UniRef90_J2LEM2 UniRef90_M1P4T0 UniRef90_A4TLI8 UniRef90_C4SUD6 UniRef90_K4HIP9 UniRef90_H9KSI4 UniRef90_U2FPM0 UniRef90_L7ZHV8 UniRef90_L0MD65 UniRef90_V5CD67 UniRef90_S5HE77 UniRef90_W1IR98 UniRef90_K8W018 UniRef90_UPI000470CB2C UniRef90_A1US17 UniRef90_E8XTQ6 UniRef90_J3VR93 UniRef90_Q7NYG5 UniRef90_E6Z0U4 UniRef90_A0A014M6R5 UniRef90_I4XX55 UniRef90_E6YR78 UniRef90_G8L GU7 UniRef90_J3GHZ6 UniRef90_D4E8H5 UniRef90_W1N1S8 UniRef90_UPI000470826D UniRef90_UPI00046764C3 UniRef90_U2LZA9 UniRef90_A0A024PRS2

50 60 70 80

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

QUERY	Q D
UniRef90_C2LH88	
UniRef90_E3G255	Q
UniRef90_S3IY98	Q
UniRef90_E0WRG7	
UniRef90_D2U1P5	
UniRef90_G8WII5	R
UniRef90_V3TT94	
UniRef90_G9Z626	Q
UniRef90_UPI0003299FE1	Q
UniRef90_DOJWI5	
UniRef90_W1IXW6	
UniRef90_UPI000478A276	
UniRef90_W9B6T9	Q
UniRef90_U1T0P5	
UniRef90_UPI0003163FD6	P
UniRef90_UPI0004056EB9	Q
UniRef90_G9YBY6	
UniRef90_C4SXW6	P
UniRef90_I0DSR0	P
UniRef90_V5AN64	Q
UniRef90_D3V7Q8	
UniRef90_C5BFW7	
UniRef90_B2JKP9	
UniRef90_K8ANM8	Q
UniRef90_X5G7H7	Q
UniRef90_J7GAP4	Q
UniRef90_C6C7W7	
UniRef90_K8WZV2	
UniRef90_UPI00034AF5C2	R D
UniRef90_C6CKA0	
UniRef90_K8RCG5	P
UniRef90_V6MJX8	
UniRef90_Q7N3C7	
UniRef90_UPI00046AA7FB	
UniRef90_D4GNE3	
UniRef90_W0L9S3	
UniRef90_C4TUY8	P
UniRef90_K8VY22	
UniRef90_A6UZQ6	
UniRef90_J0YN31	P
UniRef90_D0KB63	
UniRef90_U1V727	
UniRef90_D8MQA2	
UniRef90_E6YIW9	P
UniRef90_A4W8N4	Q
UniRef90_W0LDY9	
UniRef90_L0MKB3	
UniRef90_D0FS98	
UniRef90_N1NM60	
UniRef90_V5Z675	
UniRef90_UPI000472D719	
UniRef90_C4UFY5	
UniRef90_J2L903	
UniRef90_G7UHS1	P
UniRef90_J7TS78	
UniRef90_I3ZXT5	
UniRef90_B6J684	P E
UniRef90_UPI0003628E95	P
UniRef90_I0QU62	
UniRef90_H3RL55	
UniRef90_UPI00032A3172	P
UniRef90_J2LEM2	
UniRef90_M1P4T0	P
UniRef90_A4TLI8	P
UniRef90_C4SUD6	H
UniRef90_K4HIP9	P
UniRef90_H9KSI4	P E
UniRef90_U2FPM0	
UniRef90_L7ZHV8	
UniRef90_L0MD65	
UniRef90_V5CD67	Q
UniRef90_S5HE77	P
UniRef90_W1IR98	H
UniRef90_K8W018	
UniRef90_UPI000470CB2C	
UniRef90_A1US17	P
UniRef90_E8XTQ6	P E
UniRef90_J3VR93	
UniRef90_Q7NYG5	
UniRef90_E6Z0U4	P N
UniRef90_A0A014M6R5	
UniRef90_I4XX55	
UniRef90_E6YR78	P
UniRef90_G8LGU7	Q
UniRef90_J3GHZ6	P
UniRef90_D4E8H5	P
UniRef90_W1N1S8	P D
UniRef90_UPI000470826D	
UniRef90_UPI00046764C3	P D
UniRef90_U2LZA9	P
UniRef90_A0A024PRS2	P E

UniRef90_A1UT86 1 D D D L K E E Y Q A K F L K N I P 20 S Q S E I V A Q L 30 R K Y G Y D T S I A N T 40
UniRef90_U2SKF5 E E A T K R S Y E N Q Y S S G L G I P V S E M Q K E L K K F G Y D I E T N Q W
UniRef90_R9NGG2 P D P T A V I K S Q Y L A Q G R A S K L E F P A E K S D V L G K L K Q Y G Y D P Q S H A G L
UniRef90_UPI0002D7690A P D D E I L K E H Y Q E A G F A A C F P E V S K N T I Q L L K K Y G Y D P Q S A G A Y T
UniRef90_S5NFZ2 P N Q T I V K K Y L A G R S P S S P G N V T V V Q R Y L L Q I Y G Y D P Q S A T G W L
UniRef90_K8WAU0 P D P K T V A K F L A G R N A N E P A N V L R I Q K A L H F Y G Y G T I T P G Q L
UniRef90_UPI00037DD4AD P D N E T K N N Y E R A E Y E T K L M T P V S D V Q R E L N K F G Y G T I T P G S W
UniRef90_C4K6B4 P D Q V V V K K Y I G P R N I K D L A S V A N I Q K L L A Q Y G Y T I S T G Q L
UniRef90_Q327B0 F E S Q G I P D K V D L V S R L K T Y G Y S I L S G V E T
UniRef90_U1AW14 P D E D D V R R F L S R R L P T D A S D W Q E R L T A Y G Y D A P S G A W
UniRef90_Q2NWV0 P D A D T V E K Y T V K F I S Q G V P E R S A T I N L L N K Y G Y S V K A A N T
UniRef90_J2PDE2 P N E Q A V A R Q Q A Q F D A E A Q L P S I T W F Q S Q L A R R L G Y A T P T G E L
UniRef90_A0A010S014 P D A Q A V A R Q Q A L F E A Q L P S I T W F Q E E L A R R L G Y A T P T G E L
UniRef90_W0L6T3 E E S T M Q Q Y Q V Q F S K S L P A K A D I V A R L L K N Y G Y D T S N T D T
UniRef90_UPI000299F253 A H Q T V D I A L L Q K N L R T Y G Y P I E T G K L
UniRef90_G7LL58 P E A E R V R F H L D G R D P A R P L D A D R L L A K L V R Y G Y Q V R D D M S
UniRef90_D4E409 D A A V Q H R H Q Q H Y C R H G L P E R S A L L A L F A R Y G Y D T S A A D S
UniRef90_B7UYF2 D D A T R D Q Y M E G F E R D G L P P P R A D L L E A F R L Y G Y A L P S A T V D
UniRef90_D2TYW7 E E E I K Q Q Y M A G F K N K M P E K A E I V T K L K R Y G Y A T P T G E L
UniRef90_W0HW92 D D A T K Q Q Y S D E F A E H G T P D Q A A I K A K L K T Y G Y N V A G A T G
UniRef90_UPI0002E4C988 P N A Q A V A H E Q A Q F A N D L P S I T W F Q Q E L A L L G Y E T P T G E L
UniRef90_UPI0003743B29 D E T D K Y I F M A Q Y P W D T P S I T Q V Q T D L K K Y G Y N V P T N G L
UniRef90_H3RFZ8 D D D T R S A Y L A Q F T A G G M P P D E D I I A R L K T Y G Y D V S G A T T
UniRef90_UPI00037D63A2 D G A T R D G Y Q R Q Y A T R D G L P S Q A T A L A L F K K Y G Y E V T G A D T
UniRef90_W2D8M8 P E A Q A V A R Y Q A Q Y A A Q L P S I T W F Q E E L A R R L G Y A T P T G E L
UniRef90_M4UCH7 P E A E A I H Y Y Q S H Q P F R G N V A E L Q A K L L A Y G Y D T P T G V L
UniRef90_E2XJC4 P N A Q T V T R N Y Y Q Y A A E P P S A S W F Q E E L A H L G Y D T P T G E L
UniRef90_F9S1A1 D D E T K D L S Q A R F C K E G I P T R D D I L S K M K I Y G Y D S I A K T
UniRef90_UPI00028A2547 P E D D A V A S W Q A R F E A Q P P A L S V L Q E A L R V W G Y P L E T G E L
UniRef90_C4S3P8 D P E T K E K F Y E F T A E G L P N K A E I V A H F G T Y G Y D A T I A S S
UniRef90_C4UFG0 D D E T K D K Y E L K F S A C I P P K S E V L H L F K T Y G Y D V S H A E S
UniRef90_U3HY75 P D A A T V A H Q R S L F A T N L P P D V A W F Q A Q L A K Q G Y K V P H G H L
UniRef90_E1VBD5 P D T D E V A H Y R R R F A T R P P D L T T F Q Q A L A E W G Y T L P S G R L
UniRef90_J3IFK0 D D A T R D T F L Q Q Y N E T G I P A R S D L L K L F K T Y G Y D V S G A S T
UniRef90_J1JE04 D D E P K N H Y Q E Q F S K N F P S Q K K V L S K L K C Y G Y D I S S V C I
UniRef90_S2KTT1 P E D D A V A R Y R A A F E N C P P S I E T L Q H A L Q A W G Y P L R T G E L
UniRef90_Q4KKJ3 P D A Q A V A R Q Q A F F T V S P P S I G W Y Q Q Q L A Q L G Y A T P T G E L
UniRef90_F0P093 D D A D K N G Y L Y Q Y P Y D T S T F I Q Q F Q N D L A K Y G Y N I A T G V W
UniRef90_F3ID51 D P E R L V A Q R Q A M L A T N L P S V S W F Q Q Q L A R R L G Y A T P T G E L
UniRef90_H8L0W5 P P P A T V A W Y R H Q H P W H G D I R F L Q Q A L A D Y G Y A V P S G E L
UniRef90_I4N802 P D A G A V A R N K A R F D V N P P S M I W Y Q Q Q L A H L G Y A I D T G E L
UniRef90_E6YVQ9 D A E Q K D S Y Q E E F T K D P S L A K E E V I A K L K K Y G Y D I S G A N T
UniRef90_W1IT19 D E E T K I K Y I D Q Q I P E R T K I L E K F K R Y G Y D I S G A E E
UniRef90_A4XNM3 P D E A R V A R Q Q A L F A I S L P G I E W F Q E Q L A Q Q G Y T V S P H G E L
UniRef90_Q7NTM3 D D A T K K E Y E K I F F E H G L P L E K E I E K L G L Y G Y D V S H A S H
UniRef90_S6K8A7 P N A Q A V A R Q Q A V I Y A Q A L P S A T W F Q Q E L A R R L G Y T T P T G E F
UniRef90_F2KL78 D E P T Q K A Y R E V Y Q G N L P T R E Q Q L G L F K K Y G Y D T S A A T T
UniRef90_A5WCW3 E E A D K Q Q F M T E G S F Q S A T V A D L Q Q M L S D Y G Y D I P S D E W
UniRef90_UPI00023RDH0 P D E A R V A E L R Q Q P P P V W N A L A W Q Q Q L A R Y G Y G I P S G A W
UniRef90_UPI000469253C P D A Q A V A R Q Q A L F N P S L P T V A W F Q A Q L A R Q G Y E V P S G E L
UniRef90_L1LXM5 P D A G A V S Q Q Q A L F A V N P P N A V W Y Q Q Q L A R F G Y A I E T G V F
UniRef90_K4TLT7 D E A G A S A H L A R L Q T E G V P D I A W F Q Q Q L A R R L G Y A T P T G E L
UniRef90_N0ANH3 P D A I A V A Y Y R A C R P F R G E V A E L Q A K L L A Y G Y D T P T G A L
UniRef90_UPI00030F4A80 D S D T V D K Y W Q F S V V L P S I G L M Q K A L N R A Y G Y D I A T N Q L
UniRef90_H5TFD6 D N D T V A E Y W Q L F N H Q S P S T G L L Q E A L N I Y G Y A I D T G V L
UniRef90_A8GCC3 P D E G Q V Q K L L J A G R D K H A E V P L A P L M A K L A S Y G Y G M D A R W D
UniRef90_UPI0003161483 P D E Q A V M R Q Q E V I A Y Q L P S P T W F Q Q L Q Y L G Y S T P T G E W
UniRef90_K6Y4Q5 D N D T L K K Y W E M F N H S P L S I G L M Q N A L S R Y G Y G I T T G L V
UniRef90_UPI0003A7AF27 P D Q A N V R R Y L A G R D P N A P G D V L A L Q R A L K R Y G Y E V S D G R W
UniRef90_L0EVR3 D D Q T V A D F K E Q I K A G T V I S K E A L V P K F R K Y G Y A V E F T I D
UniRef90_UPI00036E3347 D D E T A V K Y W N R F I E S P V P I S N V Q A A L N A Y G Y A V E V T G L
UniRef90_K2HI72 P E E R V V Q R Y R D W F T L L P P T L S D V Q E A L A T F G Y P I R T G E P
UniRef90_F4D9M3 P D E G R V A E L L A S P L P H W D A A M W Q Q L A R Y G Y G L P S G Q W
UniRef90_UPI00047983B8 D E A Q A A T Y W V D L Q R K G L P D V A W F Q R Q L A R R L G Y A C P H G R L
UniRef90_D1AKH7 D E T D K E K Y K D A F D N R I T P E E V Q K E L R K F G Y G I A S K V Y
UniRef90_K6ZA55 D N D T F E Y W Q R F N Q Y Q L P N I G L V Q T A L R T Y G Y D I E T G I L
UniRef90_UPI0003180FF8 D E T T K D H Y V N R F T E R G L P Q Q A S L L T L F K T Y G Y E T S K A T S
UniRef90_U2ULA7 D N D K K L F Y E T E Y S S T N T L P A A T V Q G E F N K F G Y T I S T G K W
UniRef90_R1F6V7 P D E E R V A K L H A E L D P Q A R W D A A R W Q Q A L A R Y G Y D L P S G D W
UniRef90_UPI0002483054 D E E T K T K Y C K K F Q T N L P N K N D L E K L K T Y G Y G T T K T E D
UniRef90_C1DH51 P D A R R V A E L Q T R Y A V R L P D V A W F Q E Q L A R H G Y A L E H G V L
UniRef90_S3PAT0 D E G A K K M F Y N S F T Q L G L P T N A E I T N K L S H Y G Y D V S E A S S
UniRef90_C7NA60 D S S K S M Y S Q Y A S T D T P A A T V Q A E F S K F G Y A V Q T G R W
UniRef90_G2J7Z8 P D E D T V A F Y T R H F P Y S D D I R A L L Q G K L A A Y G Y E A A Q D G F
UniRef90_S6B9P5 P A A D A V A R E Q A R F E A Q L P T V G W F Q E Q L A R Q G Y T T P T G V L
UniRef90_W9T6H7 P A A D A V A V Q R A H Y A S G L P T I D W F Q Q A L A L Q Q Y G V P H G Q L
UniRef90_I4KDY6 D D S I K H K Y L R R F N C Q M P G R E Q V V E A F A S Y G Y Q I D A P A S
UniRef90_UPI0004232A74 D E A D K Q Y F M Q Q V Q L A T P P T I R E V L Q R A F R D Y G Y Q M T D V W
UniRef90_E0T218 P E A A R V R D S L Q R Y R Q R P P D V A Y L Q R R L A Q W G Y Q L P S G I N
UniRef90_S6GXP4 P D E R L V A Q E Q A L L M D T L P S I S W F Q Q Q L A R R L G Y E T P T G E L
UniRef90_UPI0004298EB5 D D A I Q K E F M Q A Y R A N G I P L R E H L V G L F K R Y G Y D T S A A T T
UniRef90_UPI000255722E P D A N E V A R K Q A Q L A A N L P N I A W F Q H Q L A R Q G Y E I E N G Q L
UniRef90_N9U5T6 P D E Q R V T E R L K E P F P S D A L P W Q T A L A R Y G Y G V P S G E W
UniRef90_U6ZH35 P E P Q R V R F Y L G G R Q S E Y A P A D K Q A L R E K L A R Y G Y E V N S G M T
UniRef90_UPI00037C008A P E R E T V A R W Q R Q L S Q A P L S V A Q Q F O R A L A A W G Y P L A S G V M
UniRef90_D0GM85 D D A V K E S F K N Q Y Q T F Y T L S V L E V Q K E L K K F G Y S I E T N Q W
UniRef90_UPI00036849DF P D E Q R V A R L R P H F E R A L P S I G W F Q Q Q L A E V G Y A V P N G E L
UniRef90_J2T874 N E P S F I F N V Q S Q L Q A K F G Y G T E T G S W
UniRef90_F6AEB1 P N A E V V A R Q Q A V F S T S L P S V A W F Q Q Q L A E Q G Y T V P T G V L
UniRef90_J5AYS4 D V A K K D N Y E K E F S K P H A P V D V R E L V A K L A R Y G Y D V P T G V L
UniRef90_E6YI02 D E G K A R L Y E Q E F L T M G L P D I A W V Q A Q L R R L G Y T V P S G E L
UniRef90_F4GXJ3

				50		60		70		80																																	
UniRef90_A1UT86	E	S	G	Y	E	A	L	I	R	A	F	Q	M	H	F	R	Q	E	T	Y	D	G	L	D	A	E	T	A	A	L	Y	A	L	V	A	K	Y	F					
UniRef90_U2SKF5	D	K	Q	A	K	N	V	V	R	A	F	Q	H	H	F	R	P	S	K	Y	D	G	V	M	D	V	E	T	A	A	L	K	A	L	N	E	K	Y	N				
UniRef90_R9NGG2	D	E	A	T	R	K	N	L	R	A	F	Q	M	H	H	F	R	P	T	S	Y	D	G	N	A	D	A	E	T	A	A	L	K	A	L	N	E	K	Y	R			
UniRef90_UPI0002D7690A	E	I	G	Y	K	N	L	I	R	A	F	Q	Q	M	H	F	R	P	T	S	Y	D	G	N	A	D	A	E	T	A	A	L	K	A	L	N	E	K	Y	R			
UniRef90_S5NFZ2	D	E	E	T	R	K	N	L	R	A	F	Q	L	H	F	R	P	S	E	D	I	R	E	G	E	A	D	A	E	T	A	A	L	K	A	L	N	E	K	Y	R		
UniRef90_K8WUAU0	D	S	Q	T	K	N	V	L	R	A	F	Q	L	H	F	R	P	S	R	N	Y	D	G	E	A	D	A	E	T	A	A	L	K	A	L	N	E	K	Y	N			
UniRef90_UPI00037DD4AD	D	K	Q	T	K	N	V	L	K	A	F	Q	H	H	F	R	P	S	P	N	Y	D	G	E	M	D	V	E	T	A	A	L	K	A	L	N	E	K	Y	N			
UniRef90_C4K6B4	D	P	D	T	K	K	V	N	S	A	F	Q	M	H	F	R	P	S	D	F	S	G	R	P	D	A	E	T	A	A	L	K	A	L	N	E	K	Y	N				
UniRef90_Q327B0	D	D	G	Y	K	N	V	L	R	A	F	Q	L	H	F	R	P	S	K	N	Y	D	G	I	M	D	A	E	T	A	A	L	K	A	L	N	E	K	Y	F			
UniRef90_U1AW14	D	A	E	T	R	A	V	I	R	A	F	Q	M	H	F	R	P	A	R	Y	D	G	E	P	D	A	E	T	A	A	L	L	D	A	L	L	S	K	Y	F			
UniRef90_Q2NWWV0	A	D	G	F	K	Q	L	I	R	A	F	Q	L	H	F	R	Q	E	N	Y	D	G	V	L	D	E	T	A	A	L	L	A	L	L	C	E	K	Y	F				
UniRef90_J2PDE2	D	V	A	T	R	H	V	L	R	A	F	Q	M	H	F	R	P	T	S	R	F	D	G	T	P	D	A	E	T	A	A	L	L	L	V	L	N	Q	K	Y	F		
UniRef90_A0A010S014	D	V	T	T	R	H	V	L	R	A	F	Q	M	H	F	R	P	T	S	R	F	D	G	T	P	D	A	E	T	A	A	L	L	L	Q	V	L	N	Q	K	Y	F	
UniRef90_W0L6T3	G	S	G	Y	M	N	L	I	R	A	F	Q	L	H	F	R	Q	K	N	Y	D	G	N	L	D	I	E	T	A	A	L	I	Y	A	L	V	E	K	Y	F			
UniRef90_UPI000299F253	D	M	Q	T	K	N	V	L	C	A	F	Q	M	H	F	R	P	S	R	N	Y	D	G	E	P	D	A	E	T	A	A	L	E	N	L	L	H	K	Y	F			
UniRef90_G7LL58	A	R	Q	R	K	N	V	L	R	A	F	Q	M	H	F	R	P	S	R	D	Y	R	G	E	A	D	T	A	A	L	L	A	D	A	L	L	E	K	Y	F			
UniRef90_D4E409	D	E	G	Y	R	Q	L	V	R	A	F	Q	L	H	F	R	Q	R	N	Y	D	G	V	M	D	A	E	T	A	A	L	T	L	Q	A	L	V	E	K	Y	F		
UniRef90_B7UYF2	D	A	Y	F	A	S	L	L	R	A	F	Q	M	H	F	R	Q	P	E	N	Y	D	G	A	L	D	V	E	T	A	A	L	L	Y	A	L	N	E	K	Y	F		
UniRef90_D2TYW7	N	N	D	Y	T	R	K	L	I	R	A	F	Q	L	H	F	R	P	S	P	E	N	Y	D	G	N	I	D	I	E	T	A	A	L	L	Y	A	L	V	A	K	Y	F
UniRef90_W0HW92	A	G	G	Y	K	N	L	I	Q	A	F	Q	L	H	F	R	P	A	D	W	Q	G	T	V	D	N	E	T	A	A	L	L	Y	A	L	V	E	K	Y	F			
UniRef90_UPI0002E4C988	D	V	A	T	R	H	V	L	I	A	F	Q	M	H	F	R	P	S	R	F	D	G	T	P	D	A	E	T	A	A	L	L	K	V	L	N	T	Q	K	Y	F		
UniRef90_UPI0003743B29	D	T	Q	T	K	N	A	I	L	A	F	Q	M	H	F	R	P	S	E	K	Y	D	G	V	V	D	A	E	T	A	A	L	L	K	V	L	N	T	Q	K	Y	N	
UniRef90_H3RFZ8	A	S	G	L	Q	L	V	I	R	A	F	Q	L	H	F	R	Q	E	N	Y	D	G	I	I	D	A	D	T	A	A	V	L	Y	A	L	T	D	K	Y	S	F		
UniRef90_UPI00037D63A2	P	A	G	F	K	Q	L	V	R	A	F	Q	L	H	F	R	P	A	T	N	Y	D	G	V	F	D	V	E	T	A	A	L	L	A	L	V	A	K	Y	F			
UniRef90_W2D8M8	D	V	A	T	R	R	V	L	R	A	F	Q	M	H	F	R	P	A	L	F	D	G	T	P	D	A	E	T	A	A	L	L	R	V	L	N	H	R	K	Y	F		
UniRef90_M4UCH7	D	T	Q	T	I	N	V	V	R	A	F	Q	M	H	F	R	P	D	R	Y	D	G	A	P	D	I	E	T	A	A	L	L	D	A	L	L	E	K	Y	F			
UniRef90_E2XJC4	D	V	A	T	R	H	V	L	R	A	F	Q	M	H	F	R	P	T	L	F	D	G	A	P	D	A	E	T	A	A	L	L	R	A	L	N	I	K	Y	F			
UniRef90_F9S1A1	D	D	G	Y	Q	N	L	I	R	A	F	Q	L	H	F	R	Q	K	K	Y	D	G	R	M	D	E	E	T	A	A	L	L	Y	S	L	V	D	K	Y	F			
UniRef90_UPI00028A2547	D	R	E	T	R	A	V	L	R	A	F	Q	M	H	F	R	P	S	D	Y	R	G	T	P	D	A	E	T	A	A	L	L	W	A	L	L	E	R	Y	R			
UniRef90_C4S3P8	E	L	G	L	E	H	D	L	V	R	A	F	Q	L	H	F	R	P	E	N	Y	D	G	E	V	D	I	E	T	A	A	L	L	Y	A	L	V	E	K	Y	F		
UniRef90_C4UFG0	D	L	G	L	E	L	V	I	R	A	F	Q	L	H	F	R	P	E	C	Y	D	G	L	J	D	S	E	T	A	A	L	L	A	A	L	V	E	K	Y	F			
UniRef90_U3HY75	D	L	E	T	R	N	V	I	R	A	F	Q	M	K	Y	R	P	A	R	F	D	G	E	P	D	A	E	T	A	A	L	L	A	A	L	L	L	L	K	Y	F		
UniRef90_E1VBD5	D	E	R	T	R	A	V	L	R	A	F	Q	M	H	F	R	P	A	D	Y	D	G	R	P	D	I	E	T	A	A	L	R	L	W	A	L	L	V	D	K	Y	R	
UniRef90_J31FK0	E	E	G	G	F	T	H	L	V	R	A	F	Q	M	H	F	R	P	E	T	Y	D	G	I	M	D	V	I	E	T	A	A	N	L	W	A	L	V	D	K	Y	F	
UniRef90_J1JE04	E	T	G	Y	K	D	L	I	R	A	F	Q	L	H	F	R	Q	E	N	Y	D	G	I	L	D	V	E	T	A	A	L	L	Y	L	L	I	D	K	Y	F			
UniRef90_S2KTT1	D	R	R	T	A	V	L	I	R	A	F	Q	M	H	F	R	P	T	D	Y	D	G	L	P	D	A	E	T	A	A	L	L	W	A	L	L	D	K	Y	H			
UniRef90_Q4KKJ3	D	K	A	T	R	N	V	L	R	A	F	Q	M	H	F	R	P	G	R	F	D	G	T	P	D	A	E	T	A	A	L	M	V	L	N	Q	K	Y	F				
UniRef90_F0P093	D	D	Q	T	K	K	V	I	Q	A	F	Q	Y	H	F	R	P	E	K	Y	D	G	V	L	D	A	E	T	A	A	L	Q	A	L	N	Y	K	Y	F				
UniRef90_F3ID51	D	S	A	T	R	Q	V	I	R	A	F	Q	M	H	F	R	P	A	R	F	D	G	E	P	D	T	Q	S	A	A	L	Q	V	L	N	I	K	Y	F				
UniRef90_H8L0W5	D	S	A	T	R	D	V	V	R	A	F	Q	M	H	F	R	P	A	D	Y	A	G	I	P	D	A	E	T	A	A	L	L	E	A	L	L	E	Q	Y	R			
UniRef90_I4N802	D	V	T	T	R	H	V	I	S	A	F	Q	M	H	F	R	P	A	N	F	D	G	E	P	D	A	Q	T	A	A	L	L	Q	A	L	N	N	Q	K	Y	F		
UniRef90_E6YVQ9	E	S	G	Y	K	N	L	I	M	A	F	Q	M	H	F	R	Q	K	N	Y	D	G	L	D	I	E	T	A	A	L	I	Y	A	L	V	E	K	Y	F				
UniRef90_W1T19	E	E	N	F	Q	L	L	V	K	A	F	Q	M	H	F	R	Q	K	C	Y	D	G	L	L	D	I	E	T	V	S	L	L	Q	A	L	V	E	K	Y	F			
UniRef90_A4XNM3	D	E	A	T	R	N	V	I	R	A	F	Q	M	K	Y	R	P	A	N	Y	D	G	Q	P	D	A	E	T	A	A	R	L	L	V	L	N	Q	K	Y	F			
UniRef90_Q7NTM3	P	D	G	L	K	A	L	V	L	R	A	F	Q	M	H	F	R	P	A	D	Y	D	G	R	V	D	V	E	T	A	A	L	L	Y	A	L	V	K	Y	F			
UniRef90_S6K8A7	D	V	A	T	R	H	V	L	T	A	F	Q	M	H	F	R	P	A	R	G	R	F	D	G	V	A	D	A	E	T	A	A	L	L	L	Y	V	L	N	Q	K	Y	F
UniRef90_F2KL78	D	T	G	F	Q	R	L	V	R	A	F	Q	L	H	F	R	P	A	R	Y	D	G	V	M	D	I	E	T	A	A	N	L	A	A	L	V	K	K	Y	C			
UniRef90_A5WCW3	D	R	S	S	R	N	V	L	Y	A	F	Q	L	H	F	R	P	Q	K	L	T	S	G	M	D	L	E	T	A	A	L	L	K	A	L	N	K	K	Y	H			
UniRef90_A0A023RDH0	D	E	Q	S	R	A	A	M	R	A	F	Q	L	H	F	R	A	T	L	V	S	G	E	P	D	A	E	C	Y	A	I	L	M	A	L	L	E	R	Y	F			
UniRef90_UPI000469253C	T	E	A	T	R	N	V	L	R	A	F	Q	M	K	Y	R	P	A	R	Y	D	G	E	P	D	A	E	T	A	A	L	L	Q	V	L	N	I	K	Y	F			
UniRef90_L1LXM5	D	V	A	T	R	H	V	L	R	A	F	Q	M	H	F	R	P	Q	N	F	D	G	Q	P	D	A	E	T	A	A	M	L	Q	V	L	N	S	Q	K	Y	F		
UniRef90_K4TLT7	D	T	A	T	R	N	V	L	R	A	F	Q	M	H	F	R	P	A	R	H	D	G	Q	P	D	A	E	T	A	A	L	I	M	L	A	L	L	L	K	Y	F		
UniRef90_N0ANH3	D	L	R	T	T	D	A	I	R	A	F	Q	M	H	F	R	P	A	R	Y	D	G	V	P	D	V	E	T	V	A	I	L	D	A	L	L	D	K	Y	F			
UniRef90_UPI00030F4A80	D	P	Q	T	L	D	T	L	R	A	F	Q	M	H	F	R	L	P	W	H	V	S	G	N	A	D	A	R	S	A	A	V	L	F	A	L	M	E	K	Y	F		
UniRef90_H5TFD6	D	R	Q																																								

UniRef90_A1UT86	P
UniRef90_U2SKF5	K
UniRef90_R9NGG2	Q
UniRef90_UPI0002D7690A	P
UniRef90_S5NFZ2	K
UniRef90_K8WAU0	
UniRef90_UPI00037DD4AD	
UniRef90_C4K6B4	
UniRef90_Q327B0	P
UniRef90_U1AW14	
UniRef90_Q2NWW0	
UniRef90_J2PDE2	
UniRef90_A0A010S014	
UniRef90_W0L6T3	P
UniRef90_UPI000299F253	P E
UniRef90_G7LL58	
UniRef90_D4E409	
UniRef90_B7UYF2	
UniRef90_D2TYW7	P
UniRef90_W0HW92	
UniRef90_UPI0002E4C988	
UniRef90_UPI0003743B29	P
UniRef90_H3RFZ8	P
UniRef90_UPI00037D63A2	P
UniRef90_W2D8M8	
UniRef90_M4UCH7	
UniRef90_E2XJC4	
UniRef90_F9S1A1	
UniRef90_UPI00028A2547	P
UniRef90_C4S3P8	
UniRef90_C4UFG0	H
UniRef90_U3HY75	
UniRef90_E1VBD5	P E
UniRef90_J31FK0	P
UniRef90_J1JE04	P
UniRef90_S2KTT1	P E
UniRef90_Q4KKJ3	
UniRef90_F0P093	
UniRef90_F3ID51	
UniRef90_H8L0W5	
UniRef90_I4N802	
UniRef90_E6YVQ9	P
UniRef90_W1IT19	P E
UniRef90_A4XNM3	
UniRef90_Q7NTM3	
UniRef90_S6K8A7	
UniRef90_F2KL78	P
UniRef90_A5WCW3	P
UniRef90_A0A023RDH0	P E
UniRef90_UPI000469253C	
UniRef90_L1LXM5	
UniRef90_K4TLT7	
UniRef90_N0ANH3	
UniRef90_UPI00030F4A80	P
UniRef90_H5TFD6	
UniRef90_A8GCC3	
UniRef90_UPI0003161483	
UniRef90_K6Y4Q5	P E
UniRef90_UPI0003A7AF27	
UniRef90_L0EVR3	Y D
UniRef90_UPI00036E3347	P E
UniRef90_K2HI72	P
UniRef90_F4D9M3	P
UniRef90_UPI00047983B8	
UniRef90_D1AKH7	
UniRef90_K6ZA55	A N
UniRef90_UPI0003180FF8	P
UniRef90_U2ULA7	
UniRef90_R1F6V7	P
UniRef90_UPI0002483054	
UniRef90_C1DH51	
UniRef90_S3PAT0	
UniRef90_C7NA60	K
UniRef90_G2J7Z8	
UniRef90_S6B9P5	
UniRef90_W9T6H7	
UniRef90_I4KDY6	
UniRef90_UPI0004232A74	
UniRef90_E0T2I8	
UniRef90_S6GXP4	
UniRef90_UPI0004298EB5	P
UniRef90_UPI000255722E	
UniRef90_N9U5T6	P
UniRef90_U6ZH35	
UniRef90_UPI00037C008A	
UniRef90_D0GM85	
UniRef90_UPI00036849DF	
UniRef90_J2T874	
UniRef90_F6AEB1	
UniRef90_J5AYS4	P
UniRef90_E6YI02	P
UniRef90_F4GXJ3	

UniRef90_S3IWH4 1 D L K D S Y L R Q F T A Q M P A E 20 S E V T E K L A A Y G Y D V S G A G T 40
UniRef90_T1H9X3 P D D A T V N K Y L A G R F Q R S A P A D V L T L Q K A L L H Q Y G Y D P Q S N G G E L
UniRef90_UPI0002DEEDAD D E T L A A A Y R G E F E R K G L P D D A R W I Q Q G Q L L E R L G Y D A P S T G G K L
UniRef90_A8PNB6 P D E A E V C A I E Q A I F E R K G L E H G L P D D Y K W I Q Q D A L L E G H Y G Y D P S T G Q Q F
UniRef90_K2JTI5 D D A D V S R F S Q Q F S A E P P S L T L V Q Q D A L L A A Y G Y G L I A S S G E P
UniRef90_UPI00041E66E3 D K D K F L K E F L D S A H E V E F L Q Q D Q F K K Y G Y R K I V P S S G E W
UniRef90_I7ADR3 P D A A E V A R Q Q A S F A I E L P D V A W F Q Q D A L L A A Y G Y R V P H G H L
UniRef90_D1AL13 D E D A K S S F M T S Y S T L T T P F E V Q T Q L L E K F G Y K V D T G Q Y
UniRef90_U4T138 D E A D K Q E I M S R R T L V A P S V Q E I K Q E F R K Y G Y D I N S T D E W
UniRef90_UPI000363CC7B D E P T K Q N F Y A D F N Y N A A P F I L F K V Q N A F K N F G Y D I T T G V W
UniRef90_W0HZP3 P P A A R V R Y F L A G R D P Q A P V P A A A I L R G M A Q L G Y D V T P D M P
UniRef90_UPI0003C7A9DC D E D T K Q K Y T T K F S T G L P S D K K D I L A A F K K Y G Y A V S T D N W
UniRef90_U7VG73 P E A S A V A V E Q A R F A Q A L P T V G W F Q M Q L A R Q G Y P V P N G Q L
UniRef90_U3HDB5 P D P D A V A M H L A V F T Q Q A L P S I A W Y Q E H L A K V G Y A V P H G E L
UniRef90_UPI0003B6136A D A F D K Q F F M N Q D A F A A A T V P E I K Q A F R R Y G Y Q I D T N E W
UniRef90_UPI000405CB5C D E A A K Q T Y F D L A E E E L P A F I F L I Q T A L Q K F G Y G I P S S G K W
UniRef90_W4T3B6 D E A A K Q T Y L E A A Q A D E P S F I F L I Q T S L Q K F G Y A I D S G Q W
UniRef90_D7W072 D E D A K E R F M V Q L D L Y A P S V I Y Q Y Q K D L N Q F G F N I A T G M V
UniRef90_K1M5N2 D E E I K S A Y T E Q F T T T P L T Q A D A L V R F K K Y G Y D I S G A A T
UniRef90_G2GXC9 P D A A R V A Q Y H L L G G Q T P P L A W F E M A L E R F G Y S L A A P G Q
UniRef90_A0A031ME20 E Q D T L A R Y W R A F N Q Q P V S T G L L Q A A M R A Y G Y G V T T G V M
UniRef90_UPI0004036807 P D A G R V A T Q R S L Y E Q L L P D T A W F Q A R L A Q H G Y A V P T G E L
UniRef90_UPI00034A8E2E P D E A R V T A L R Q Q P A P A W N A L T W Q Q L A R Y G Y A V P S S G E L
UniRef90_UPI0002EDF843 P L E A D L A R Y R R L F A A G P P P L A V L Q R A L A W G Y A V P S S G E L
UniRef90_U1HG07 D E S R V T E L V G L M S H Y P L T T E Q Q Q A L L A Y G Y K V S T G I E
UniRef90_H3NUZ3 D N D I G A W Y D E Q V F N D L L P D I A A I Q Q K F I T Y G Y K L V E T G I L
UniRef90_A8F2Z9 A D V E H Y W Q H F S T A A P T T A L M Q Q A L R D Y G Y G V A D S G Q L
UniRef90_K0P216 D N E N L T H H W L A F N Q T L P S L A L I Q K A L S A Y G Y D L A T G R M
UniRef90_UPI0004761A2D D E F D K R Y F M N S I D F H L S I L E I K Q A L R D Y G Y D I A T G R M
UniRef90_A5VR18 D E A G A A H L T R L Q S Q A L P G V S W F Q Q E Q L S R L G Y D S P H G Q L
UniRef90_K6Y8K7 P V E I D A S S F F Q E G D E Q Q P I E A L Q S L L G L Y G Y D V M S G V F
UniRef90_UPI000360A3F7 P D A A R V A G R V V Y E Q L L P D A V W F Q Q R L S L H G Y P I E S G V F
UniRef90_Q2KUL1 A A P V R R G A A L K S E G D R G A D V E T L Q S M L S L Y G Y G V E S G I F
UniRef90_G8PUT6 E E V A K M A Y Q R R F D I G L P P E V E V E R A F Q R Y G Y A P A K N R L
UniRef90_UPI00039A39C2 T I A E A L Q K K E L K D Y G Y D I P Q S E E W
UniRef90_UPI0004760A26 P V P V T S G R F F Q E G E S G Q P I E A L Q S M L A I Y G Y D V P Q S E F
UniRef90_F5SNX7 D E A D K Q R F M V D G S F E T A T T P E I K Q L F R D Y G Y A I D S D D W
UniRef90_UPI0002B4A24E P D K N D V L H F Q Q H Y S N T N L K L E E L H L E L Q R T Y G Y A I D S N K D
UniRef90_UPI00024HQ07 P Q Q A D V Q R H L A D L N G Q L P A P G W F Q Q Q L A R Q G Y A V P D G V L
UniRef90_J3EK43 L P S I S W F Q Q Q L A K L G Y D T P T G E L
UniRef90_I4JQ75 P D I A W F Q L A L Q L Q G Y K V P H G E L
UniRef90_X4Z2X6 E D E A A T Q L L R L Q S A S L P D V A W F Q T E L A R L G Y D T P H G K L
UniRef90_D4X938 D E T G A A E H L A R L Q V Q G M P D V A W F Q K Q L Q R L G Y A C Q D G K L
UniRef90_M4K713 D E T R M M Y Q R R F N L Q L P P E V E V E R A F Q R Y G Y K A S N R R
UniRef90_X3Z6H9 P D A Q R V A F Y L A G R A P Y T P V D T A T V L A L F S R Y G Y E V K A D M T
UniRef90_E8TF42 A A P V R R G A T L T T G D T G G D I E A L Q S M L A L Y G Y G V E S G V F
UniRef90_A0A052J9X5 D E T A A A G R M L R L Q T E G L P D E V A W F Q A E L A R L G Y E T P H G Q L
UniRef90_UPI000471C13F D E A R A Q A E L A R L R H A P L P E T A W F Q D A L R L G Y D C P Q N G L
UniRef90_UPI00029AAC11 P P S I T W Y Q Q Q L K R F G Y A I E T G E Y
UniRef90_C3WB72 D E K D K I F F M N E K L Y L V T P I S E I K K D L R K Y G Y K I N T D E W
UniRef90_E3HD82 S I E D I Q S E F K K Y G Y D M E S G Q W
UniRef90_E1SIA7 P D A G R V Q F Y L A G Q D P H A R V P V Q Q L M E S L Q R Y G Y A V T A G M S
UniRef90_D4CRU5 E S D K Q A F M D E E K F N A T S I S D L K E E L R K Y G Y E I N T N E W
UniRef90_H0JAQ8 P N P A V V A Q R Q A S L G G V L P P A W F Q D E Q L A R I G Y A V P T G V L
UniRef90_U2ZMY5 P D A A Q V A S R R G E F E R A L P D A L W F Q Q Q L A K V G F S L A S G Q F
UniRef90_M5IWP0 E S Q A R A L Q A Q F A T R P L P S A A Q T Q A L L Q K A G Y E T P S G V F
UniRef90_UPI0004716A2E P D E P T I G D Y Q A R F S V T P P S M M Q V T K A L L Q T Y G Y G L E I N G F
UniRef90_UPI0004674DB7 P A P I Q G G R F L A M G D R G E P V E A L Q S M L S V Y G Y G L E I N G F
UniRef90_UPI0003096FD8 D E T T R R M Y Q R R F C L G L P P E V E V E R A F Q R Y G Y K P A W N
UniRef90_B7V722 P K P G E L A R R L A E L N G Q L P D V R W F Q Q Q L A R H G Y L V P T G E L
UniRef90_G7DDU8 E V L S L Q Q A L A R Y G Y G V P T G K Y
UniRef90_V8G8M6 D E H Q V A S L T R K Y K K E G L P S T L S L Q K A L K T Q G Y D I E T G D W
UniRef90_L9PJ12 P E A S R V A A R L T R Q F Q E Q L P D V A W F Q R K L A Q H G Y A V P T G E L
UniRef90_UPI000476D392 D E A A E T A T R V Q L Q A G P L P G V A W F Q Q Q L R R L G Y D C P Q D G L
UniRef90_UPI000299D832 L K T Y G Y T I E T G T L
UniRef90_U7G7Z6 M Q E G D S G Q P V E A V Q S M L A L Y G Y L E D T G D F
UniRef90_I3WB87 D D A T V I R Y F D Q L S A A T E T D P A E F V G L L A A Y G Y G I D P D Y T
UniRef90_V8QNX7 D E N A V T Q R I P Q V T A V I E L G S P A Y I Q S L L A R I G Y I A S G V W
UniRef90_Q2IYL7 P A P I D A G A V R L H G A E G E P V Q V L Q R A L A D Y G Y G I A I N G F
UniRef90_UPI0003A35932 P E Q E R V Q H Y Q R L G G Q T P P T E W F E M A L E Q F G Y S L A T P E Q
UniRef90_UPI0003B77CC5 P A P I R G G R F F A M G D Q G Q P S V E A L Q S M L A M Y G Y D I T I G E F
UniRef90_G4QEM0 Q T S P S V E A L I Q K A L G T Y G Y D I A T G R M
UniRef90_UPI00031DBCDA P A P V R G G R F L S P G E S G Q P V E A L Q A M L A M Y G Y D I A T G R Y
UniRef90_UPI0002559488 D D E T V K R H L D F L N G N T T S D R E S V R R R F A H Y G Y G I N T P E E S
UniRef90_J9R688 D N S T K Q N F Y E E F N Y N N Y A F I S K V Q N T L R S F G Y D I P T G T W
UniRef90_Q3STT7 D V R A L Q Q S L A R S Y G Y G I A T G K F
UniRef90_M4ZP01 P A A L T K G E T L K L G S I G D D V K G L Q K A L A R Y G Y G V P T G K F
UniRef90_UPI0002F7D36E P E A Q A V A R Q R S L F A T A V P D V A W F Q S Q L A E Y Q G Y R V P H G H L
UniRef90_A4VRS8 P D A G A V A A A Q S H Y A A A G L P A I G W F Q E A L A A Q G Y R V P H G H L
UniRef90_W2D9I1 D E A A K N A F V R R F R M G L P Q E V E V E R A F Q R Y G Y A P A K N
UniRef90_UPI00035D455E P D A T R V A A V R P A F E A L P D V A W F Q R K L A I H G Y A I Q T A M L
UniRef90_W0PHP1 D E S A V V Q R I P L L D A R T L S D A S V V Q G L L A R I G Y P I A T G V W
UniRef90_B1LUI4 R F L A R G D A G Q P V E A L Q A M F A L Y G Y D L P T G T F
UniRef90_J1JWV5 V E A Y Q S M L A L Y G Y G L E S G I F
UniRef90_A0A031GQQ1 P D A N R V A A Q R L I F E Q Q V P D A V W F Q K K L A Q H G Y A T P T G V F
UniRef90_H1PNM2 D E S D K I F F M N Q T L F D V T P P V H E I K D E L R K Y G Y K I T T D E W
UniRef90_X5KWI5 D E G V R A G F L N Q L D K N T P P F I Y K V Q S Q L Q A L G Y K V D S G E W
UniRef90_M9F2Q1 M A R Y G Y D V K P D M T

UniRef90_S3IWH4 D E G K K L L F Q A F Q L H F R Q S D Y A G E I D P E T A A I T Y A L V D K Y 80
UniRef90_T1H9X3 D K E T R L T I S A F Q M H F R P S D L E G K A G R H E S V I R S A L L
UniRef90_UPI0002DEEDAD D K A T K N V L K A F Q M H F R P S L Y S D G Q P S D A E R T M G L I R S A L L
UniRef90_A8PNB6 D E Q T Q N N V I R S F Q M H F E P E N Y S G T P S V R T I S L L E A L L K K Y Y
UniRef90_K2JTI5 D R R T Q D C L A F Q M H F L P W H L S G Q A D L Q T T A A A L F A L L D K Y F
UniRef90_UPI00041E6E3 D D D T K N S V I K A F Q Y H F R P E K H D G T L D D N E Q T W A A L L K A L L K K Y
UniRef90_I7ADR3 D L E T R N V I A A F Q M K Y R P E T R F D G E P D A Q T A A L L Q T L N Q
UniRef90_D1AL13 D K Q T T N V I R A F Q F H F R P A K Y D G I M D S E T Y A I L L Q A L N T K Y
UniRef90_U4T138 D K P S R D V I E A F Q L H F R P Q Q P T G N I D A E T Y A I L L Q A L N Q K Y
UniRef90_UPI000363CC7B D D Q T S K V I Y A F Q Y H F R P E I H N G I L D A E T W A I L L Q A L V K Y
UniRef90_W0HZP3 Q T L Q R R A L R A F Q M H Y R P S D Y R G L P D A Q T L A V L Q A L L E
UniRef90_UPI0003C7A9DC D G E Y S M L V R A F Q L H F R P R R T T G V A D L E T L S I L F A L V K Y F
UniRef90_U7VG73 D L Q S K K V V S A F Q M H F R P R K V D G V F D L E T F A I I K A L N K K Y
UniRef90_U3HDB5 D E A T R N V I A A F Q M K Y R P H L F D G Q P D A E T A A L L L V L N R
UniRef90_UPI0003B6136A D E A T R N V I A A F Q M K Y R P D V Y D G E P D A Q T Y A M L L T L
UniRef90_UPI000405CB5C D K A S R D V I Y A F Q L H F R P Q Q P T G K M D V I E T Y A I L L K A L N K K Y
UniRef90_W4T3B6 D D A T K K T I E A F Q Y H F R P Q N Y D G I M D A E T W A I L L Q S L N Q K Y
UniRef90_D7W072 D D A T K K T I E A F Q Y H F R P Q N Y D G I M D A E T W A I L L Q A L N Q K Y
UniRef90_K1M5N2 D E A T K K T I T A F Q Y R F R P E N Y D G I M D V I E T Y A I L L Q A L N Q K Y
UniRef90_G2GXC9 D S A Y K K L V R A F Q L H F R Q S R Y D G E L D T E T S A I L L A A L V K K Y F
UniRef90_A0A031ME20 T N A T R N V I A A F Q M R F R P A R H D G L P D A E T A A L L A A L V P D S F
UniRef90_UPI0004036807 D E A T R N S A L S A F Q M H F L P W N V S G H D D S Q T T A A V F A L L D K Y F
UniRef90_UPI00034A8E2E D E E T R N V I V A F Q M K Y R P S L F A G I P D A E T A A L L D V L
UniRef90_A4SRC8 D E Q S R A A L R A F Q L H F R P A L L S G E P D D E Q S Q A I L L T A L L E R Y F
UniRef90_UPI0002EDF843 D S A T R G A L R A F Q M R Y R P A D H R G R P D A D A R L W A L L E A R Y R
UniRef90_U1HG07 D G P T M E V V T A F Q R H F R P E R V D G I A D R S T M A T L H A L L E S L P
UniRef90_H3NUZ3 D E Q S K Q L A V R A F Q M H F R P S A N Y S G F F D E E S A A I L L S L L E R Y R
UniRef90_A8FZ29 D S K M K D L I I S F Q M H F R P S N Y S G N L D A E T I A I L L D A L I L K Y T
UniRef90_K0P216 D I D T R N T L I S F Q M H F R P S N Y S G E P D A E T V A I L L K N L I K K Y
UniRef90_UPI0004761A2D D R K T V A V I K A F Q A H F L P W Q V H G Q A D G K T A A V L F A L L H R Y K
UniRef90_A5VR18 D E A T E I V I K A F Q R H F R P Q N V D G V A D V S T I D T L Y R L N
UniRef90_K6Y8K7 D Q Q T I D T L A A F Q M H F V P W K V T G E L D N Q T A A V F A L L E K Y F
UniRef90_UPI000360A3F7 D K A S R N V V Y A F Q L H F R P Q H P T G V M D L E T Y A I L L K A L N K K Y H
UniRef90_Q2KUL1 D R A T R N V L A A F Q M H Y R P T R H D G Q P D A E T A A I M L A M
UniRef90_G8PUT6 D E K T R F A V E A F Q R H F R P A K V D G I A D A Q T I A T L H S L L K K
UniRef90_W0UZA9 D E Q T R N V L I A F Q M K F R N T R F D G T P D G E T A A I L L D V L
UniRef90_L0KNU9 D D R T R I V V E A F Q R H F R P R R I D G I A D G S T M R T L Q K L
UniRef90_J1IP01 G F Q Q R V V R A F Q M H F R P S D Y S G R L D A Q T C A I L L Y A L N E K Y
UniRef90_UPI00039A39C2 D K P S K D V V Y A F Q L H F R P K N L D G E M D L E T Y A I L L K A L N K K Y L
UniRef90_UPI0004760A26 D A R T K A A V T A F Q R H F R P E R V D G I A D A S T I A T L H K L L
UniRef90_F5SNX7 D K P S R N V I Y A F Q L H F R P Q K L T G K M D L E T Y A I L R A L H N K Y
UniRef90_UPI0002B4A24E A E T T R N A I I S F Q M H F R P A K Y D G I M D T E T F A I L L K A L N K K Y R
UniRef90_A0A024HQ07 N E A T R N V I A A F Q M R Y R P Q R F D G E P D L E T A A L L L A
UniRef90_J3EK43 D V A T R H V L A A F Q L H F R P T R F D G T P D A E S A A I L L Q V V N Q
UniRef90_I4JQ75 D E E T R N V L A A F Q M K Y R P T R Y D G E P D A E T A A I L L Q V L N
UniRef90_X4Z2X6 D R A T R N V L T A F Q M H Y R P T H Y D G Q P D A E T A A I M K A M
UniRef90_D4X938 D A A T I N T L A A F Q M H Y R P A L H D G Q P D L E T A A I M L A M
UniRef90_M4K713 T F E L R T R A F Q M H F R R R D Y G G I L D A E T C A I L L Y A L N E K Y R
UniRef90_X3Z6H9 A R E Q Q R V I M A X X X X X X A Q W N G I A D A E T Q A L A E A L L E K Y G
UniRef90_E8TF42 D R Q T E A V V E A F Q R H F R P R K V D G V A D G S T L R T L L Q R L L
UniRef90_A0A052J9X5 D R A T R N V L A A F Q M H Y R P A R H D G E P D A E T A A I M Q S M
UniRef90_UPI000471C13F D T A T R N V L A A F Q M H Y R P A R H D G Q P D A E T A A I M K S M L A Q
UniRef90_UPI00029AAC11 D V S T K H V L A A F Q M R F R P Q R F D G V P D A Q T A A M L Q V L N
UniRef90_C3WB72 D E E S R R V V Y S F Q A H F N S K N L S G M M D L E T F A I L L K A L N R K Y R
UniRef90_E3HD82 N E K E K N V L K A F Q M H F R P K N L S G M M D L E T F A I L L K S L N H K Y R
UniRef90_E1SIA7 A R E Q Q K V I A A F Q M H F R P A D Y R G Q P D A E T A A I A A A L L E K Y G
UniRef90_D4CRU5 D R D S K D V V Y A F Q L H F R P K N A T G D M D L E T F A I L L K A L N K K Y
UniRef90_H0JAQ8 D A A T R D V I G A F Q M K Y R P G R F D G Q P D L Q T A A L L L S L
UniRef90_U2ZMY5 D E Q T R N V L A A F Q M K Y R P A R Y D G L A D A E T A A I L A V L N
UniRef90_M5IWP0 D K A T Q N V I A A F Q M H Y R P A R Y D G V L D A E T A A I L Q S L
UniRef90_UPI0004716A2E D Q G L E A V V K A F Q M R F N Q E H V S G V V D I K T A A L L F A L L D K Y H
UniRef90_UPI0004674DB7 D E A T K L V V E A F Q R H F R P Q R V D G V A D R S T I E T L H R L L
UniRef90_UPI0003096FD8 R K A F E W R T R A F Q M H F R P R D Y C G V L D G E T C A I L L Y A L N D R Y R
UniRef90_B7V722 E Q D T R D V I G A F Q M K Y R P A R F D G E P D L E T A A L L L A
UniRef90_G7DDU8 D A A T M E V V T A F Q R H F R P A R L D G V A D H S T L S T L Q A L L
UniRef90_V8G8M6 T S K S Q V L R A F Q M H Y R P V K F D G R M D A Q T A A I L M N L
UniRef90_L9PJ12 D Q A T R N V I M V V F Q S K Y R Q S L Y D G V P D A E S A I L D V L
UniRef90_UPI000476D392 T P A T R R V I A A F Q M H Y R P S N Y D G E P D A Q T A A I M M
UniRef90_UPI000299D832 D Q Q T R T V L Q A F Q M H F R P S N Y S G E P D A K T V A I L L E N L Q K Y F
UniRef90_U7G7Z6 D L K T R Q V V A A F Q R H F R P E K V D G V V D Q S T I E T L H A L L R K
UniRef90_I3WB87 E T D L S L Y V S A F Q Y H F R A W K V D G E I D A H S H A I L L A L I E K Y F
UniRef90_V8QN7 D A Q T R Q V I S A F Q M H Y R P A N Y T G Q T D S E T V A I L A Q D L A R H F
UniRef90_Q2IYL7 D H A T F E V V T A F Q R H F R P E K V D G I A D G S T L A T L H A L L
UniRef90_UPI0003A35932 L N G S R N V L A A F Q M R F R P A R F D G V A D T Q T A A I L A L V
UniRef90_UPI0003B77CC5 N E R T K V V L S A F Q R H F R P I Q I D G V A D I S T I E T L H R L I
UniRef90_G4QEM0 D Q Q T I D T L S A F Q M H F V P W Q V T G E L D N N Q T A A A V F A L L E K Y F
UniRef90_UPI00031DBCDA D E A T T A V V A A F Q R H F R P E R I D G I A D A S T I T T L R D L I
UniRef90_UPI0002559488 S E E E I S L T R A F Q Y H F R P W K V D G E V D N Q T R A I L L A L L E K Y F
UniRef90_J9R688 D K S S Q K V I E A F Q Y H F R P E K C G V L D A E T W A L L Q A L I V K Y
UniRef90_Q3ST7 D T A T M E V V T A F Q R H F R P A K V D G I A D Q S T L T T L H A L L D
UniRef90_M4ZP01 D G L T M E V V T A F Q R H F R P E K L D G I A D R S T L W T L H A L L
UniRef90_UPI0002F7D36E D L E T R N V I A A F Q M K Y R P A R F D G E P D A E T
UniRef90_A4VRS8 D D E T R N V I A A F Q M K Y R P T R F D G E P D A E T A A M L Q V L V A Q
UniRef90_W2D9I1 R Q A F Q Q R V R A F Q M H F R P T D Y R G Q L D L E T C A I L L Y A L N E K Y
UniRef90_UPI00035D455E D E Q T R T V L A A F Q M K Y R P A D Y A G N P D A E T A S L L E V L
UniRef90_W0PHP1 D A Q T R Q V V R A F Q M H Y R P A D Y A G Q V D A Q T L A I A E D I A R Q
UniRef90_B1LU14 D A R T R A V T A F Q R H F R P A R V D G V A D A S T I T T L R D L I
UniRef90_J1JWV5 D E R T R L V T Q A F Q R H F R P Q R I D G V A D V S T I E T L H R L L
UniRef90_A0A031GQQ1 D E A T R N V L I A F Q M K Y R N T L F D G T P D G E T A A L L E V L
UniRef90_H1PNM2 D E E S K R V V Y N F K A H F R P K M L S E E M D L E S F A I L L K A L N K K Y
UniRef90_X5KWI5 D N Q T K L V V Q S F Q Y H F N P Q I G D G V L D M G T Y A T L L A L L Q K Y
UniRef90_M9F2Q1 P R E Q R R V I M A F Q M H F R P T L Y N G E A D A E T Q A I A E A L L E K Y G

UniRef90_S3IWH4
 UniRef90_T1H9X3
 UniRef90_UPI0002DEEDAD
 UniRef90_A8PNB6 P E
 UniRef90_K2JTI5 P D
 UniRef90_UPI00041E66E3
 UniRef90_I7ADR3
 UniRef90_D1AL13
 UniRef90_U4T138
 UniRef90_UPI000363CC7B
 UniRef90_W0HZP3
 UniRef90_UPI0003C7A9DC K
 UniRef90_U7VG73
 UniRef90_U3HDB5
 UniRef90_UPI0003B6136A
 UniRef90_UPI000405CB5C
 UniRef90_W4T3B6
 UniRef90_D7W072
 UniRef90_K1M5N2
 UniRef90_G2GXC9
 UniRef90_A0A031ME20 A E
 UniRef90_UPI0004036807 P
 UniRef90_UPI00034A8E2E
 UniRef90_A4SRC8 P
 UniRef90_UPI0002EDF843 P E
 UniRef90_U1HG07 P D
 UniRef90_H3NUZ3 P
 UniRef90_A8F2Z9 P E
 UniRef90_K0P216
 UniRef90_UPI0004761A2D P D
 UniRef90_A5VRI8
 UniRef90_K6Y8K7 P
 UniRef90_UPI000360A3F7 Q
 UniRef90_Q2KUL1
 UniRef90_G8PUT6
 UniRef90_W0UZA9
 UniRef90_L0KNU9
 UniRef90_J1IP01
 UniRef90_UPI00039A39C2 P
 UniRef90_UPI0004760A26
 UniRef90_F5SNX7
 UniRef90_UPI0002B4A24E
 UniRef90_A0A024HQ07
 UniRef90_J3EK43
 UniRef90_I4JQ75
 UniRef90_X4Z2X6
 UniRef90_D4X938
 UniRef90_M4K7I3
 UniRef90_X3Z6H9 Q D
 UniRef90_E8TF42
 UniRef90_A0A052J9X5
 UniRef90_UPI000471C13F
 UniRef90_UPI00029AAC11
 UniRef90_C3WBT2
 UniRef90_E3HD82
 UniRef90_E1SIA7
 UniRef90_D4CRU5
 UniRef90_H0JAQ8
 UniRef90_U2ZMY5
 UniRef90_M5IWP0
 UniRef90_UPI0004716A2E
 UniRef90_UPI0004674DB7
 UniRef90_UPI0003096FD8
 UniRef90_B7V722
 UniRef90_G7DDU8
 UniRef90_V8G8M6
 UniRef90_L9PJ12
 UniRef90_UPI000476D392
 UniRef90_UPI000299D832 P N
 UniRef90_U7G7Z6
 UniRef90_I3WB87 P E
 UniRef90_V8QNX7 P
 UniRef90_Q2IYL7
 UniRef90_UPI0003A35932
 UniRef90_UPI0003B77CC5
 UniRef90_G4QEM0 P
 UniRef90_UPI00031DBCDA
 UniRef90_UPI0002559488 P N
 UniRef90_J9R688
 UniRef90_Q3STT7
 UniRef90_M4ZP01
 UniRef90_UPI0002F7D36E
 UniRef90_A4VRS8
 UniRef90_W2D9I1
 UniRef90_UPI00035D455E
 UniRef90_W0PHP1
 UniRef90_B1LUI4
 UniRef90_J1JWV5
 UniRef90_A0A031GQQ1
 UniRef90_H1PNM2
 UniRef90_X5KWI5
 UniRef90_M9F2Q1 Q D

UniRef90_B9R1I3 1 P E P [] G S G [] F M Q E G E G E G Q P 20 [] V E A [] Q S M [] L A [] L Y G Y E [] V [] D [] N G F 40
UniRef90_C6X3P6 D E S A K Q N F [] L N Q [] T P E Q F S A T Q A A Y Q Q [] L A [] L K N [] L G Y G L E S G R []
UniRef90_XORD72 A A A T [] P E [] K Q Q A F R D Y G Y Q I V N T D S W
UniRef90_B3QFP0 A [] K Q G T E G D E [] V R L M Q Q A L A F D P G Y R V P N G S Y
UniRef90_E3HYX6 A A V R E L Q K K L A A Y G Y G L D T G A Y
UniRef90_UPI00046425E3 R F [] A A G D R G E G P V E A L Q S M L A L Y G Y G D A E T A V F
UniRef90_UPI000472530D P T Q [] T G G R F F Q H G E S G E Q P I E A L Q S M L S L Y G Y G I E T G N F
UniRef90_UPI0003A8856F P [] R D G R F F A E G D A G Q P I E A L Q A M F A L Y G Y D I P T G I F
UniRef90_H8DQM9 P D S R R [] V Q F W [] L A G K A P H A A [] V P A E Q V L T L L S R Y G Y P V S D G M S
UniRef90_UPI00047E2915 P T A [] A G G R Y F S E G E T G Q P I E A L Q A M F R L Y G Y R I D D D G V F
UniRef90_I4YVF4 P S A T S D G R F F S R G D Q G M P I E A L Q A M L A M Y G Y S V R I G V F
UniRef90_UPI00030987FD G D A G A G V E E L Q S M L A L Y G Y G I E T G S F
UniRef90_Q1YM49 P A P [] R G G R Y F S [] G D R G E P V A A Y Q S L L A A Y G Y G V P D G T F
UniRef90_Q133W2 I R V M Q Q A L A D Y G Y G I S T G K Y
UniRef90_A0A011VN27 R E G D A G P D V E K M Q S M L A L Y G Y G V E T G L Y
UniRef90_Q216E7 E V M A L Q R A L A D Y G Y G L T P N G Y
UniRef90_UPI0004763FC7 P E P [] R G G R F F S P G E S G A P I E A L Q A M L A L Y G Y P L Q T G T Y
UniRef90_W3RNX8 P D V L A L Q Q A L A D Y G Y G I S S S H Y
UniRef90_UPI00016A6E24 M [] S Q F R K Y G Y A V T A D M T
UniRef90_UPI000364E7D7 P E P S R [] V A A R [] P G Y Q Q Q [] P D V F W F Q R T L A Q I G Y A V P T G V F
UniRef90_Q11GR4 D P E R [] V T G G E [] V L A P G D R G S A V A G L Q R R L A E Y G Y G I E T G V F
UniRef90_A9DDX7 R F F Q E G D S G Q P V E A L Q T M L A L Y G Y G L E D G V Y
UniRef90_B9JY66 P T A [] T G G R F F Q R G D R G Q P V E A L Q S M L S L Y G Y P V E I N A F
UniRef90_F7QR61 D V L A L Q S M L S A R F G Y G I P L N G L
UniRef90_UPI00036D91AB P A A [] T G G R F F Q R G D Q G Q P V E A L Q S M L S L Y G Y G T E T G E F
UniRef90_A4CAP2 A T A S D H W Q A L L T E G L P T V A Q V Q N L Q K Y G Y G I E T G E F
UniRef90_U2ZD52 P D E F E [] A R V M R L [] S A P E D A L S W Q T A L S V E Y G Y A L P T G L W
UniRef90_I3UB70 D E A A [] V A R R M P L L S A R E L K N A A Y I Q G L L S R I G Y P I Q S G I W
UniRef90_X0TIE2 E I S D V Q R R L L T R Y G Y G V E V N G L
UniRef90_J3HS24 P A P [] V R G R F F S A G D R G Q P V E A L Q S M L A L Y G Y A I V D G G V F
UniRef90_R9CQH1 D D S T R A A L L T Q I E R N T P P F I Y K V L Q S Q L Q A L G Y A I L D S G Q W
UniRef90_UPI0004703FEC P A P [] V T G G R F F Q R G D S G P P V E A L Q A M L A L Y G Y N T P S G E F
UniRef90_B8ETT3 A E V E E L Q A M L E A Y G Y G A P S G A Y
UniRef90_E0MJY4 P [] V E A A S G [] F [] Q E G D A G D P V Q A L Q G M L E L Y G Y G L E C G G F
UniRef90_W6WH73 R F F Q F G E S G Q P I E A L Q S M L S L Y G Y G I D T G N F
UniRef90_K2PEW8 P A P [] G G R F F Q R G D R G Q P V E A L Q S M L S L Y G Y G L E S G E F
UniRef90_UPI00037266EC R P G D A G D A V E E L Q S M L A L Y G Y G V E T G Q F
UniRef90_A7HVT6 E P E P [] V G E G P [] V L R E G D R G D T V A E L Q Y L L A D Y G Y G L E V G R Y
UniRef90_UPI0004784664 P V E Q L Q A L F S M Y G Y G I E S G S Y
UniRef90_K2MTS5 P V A A L Q R M L A L Y G Y G V E T G L Y
UniRef90_A8HZ76 R F [] M M G D S G Q P I A A L Q A M L A L Y G Y G I E T G L Y
UniRef90_U2ZBT3 P A A E R [] A A [] G P [] G P G D V H V L Q A G L H R F G Y E P S G V Y
UniRef90_Q07PU2 V L A L Q R A L A E Y G Y G T P S G H Y
UniRef90_D7A7X2 I E A L Q A M L A L Y G Y G V P V N G T
UniRef90_UPI00035FEF64 P S D G R F F M R G E H G Q P I E A L Q A M L A F Y G Y G V P V N G A
UniRef90_Q0G676 P A P [] K G G R F F G P G D E G E P V S I A F Q A M L A A Y G Y G V P S G S F
UniRef90_HOHTJ4 G D S G A P S V E E L Q S M L A L Y G Y G V E T G V F
UniRef90_K9GX15 F P T E Q P P S I A A V Q E E L T A I G Y A A P S G A L
UniRef90_UPI0001WX3 P S P [] A G G R F F Q K G D A G Q P V E A L Q T M L S L Y G Y G T E D G V Y
UniRef90_B4RFT0 A A V F A L Q A G L T R L G Y D L P P G R F
UniRef90_H4FBV1 R F F Q R G D Q G Q P V E A L Q S M L S I Y G Y T L E I N G D
UniRef90_A7IGJ8 R F F M [] G D A G E P V A A L K A M L A L Y G Y G I E T D A Y
UniRef90_B6JCE8 P [] V P [] V T P G K [] L Q E G D R G A A [] V D E I M S L Q R A L I R Y G Y P V P T G Q Y
UniRef90_K2PQT4 F M Q E G E S G Q P V E A L Q S M L A R Y G Y D V E E G F F
UniRef90_E2CKG4 P R V L N A Q R N L A A Y G Y G I D T G V L
UniRef90_F8J7S5 P A V L A L Q R L L Q R Y G Y G I T T G T Y
UniRef90_UPI00046AC271 A [] R P G N R G E I V A R I Q R G L A A F G Y V L E T A R Y
UniRef90_UPI00035F873B A [] R E G D Q G A Q V E E L Q S L L A L Y G Y G L I T R I F
UniRef90_F5MFM6 A [] R E G D Q G A Q V R R L Q Q A L A D Y G Y K I D T G D Y
UniRef90_UPI00046534C9 P G D A G E P V A A L K A M L A W Y G Y G I A D D A Y
UniRef90_UPI000370D528 V M D I K E E F I K Y G Y T P T N N V W
UniRef90_UPI00045EC49D V E K L Q A L L S M Y G Y G L R V S N L
UniRef90_UPI00047B91AD A [] E P G A E G G E V S A L Q Q A L A D Y G Y K S P S G Y
UniRef90_UPI0001D2D55C V A G V Q E Q L A L Y G Y R V P T G V L
UniRef90_NOAYP8 P G D A G D A V L A L Q R D L A A F G Y G V P T G R Y
UniRef90_J5PTL0 V L K L Q Q A L K A L G Y Q I P D G V Y
UniRef90_U2WE03 D V R D M Q K A L A K Y G Y G V P S G K F
UniRef90_H0TR35 V E Q L Q A L K A F G Y Q I T P D G D
UniRef90_J9DJF2 P A A D R [] K A [] G G [] L L Q K G D Q G I G A V V L R A L H R L G Y G L T P G G Y
UniRef90_B4WBJ2 R R P R H G L A D P H W F L L A L D R F G Y D V S D G
UniRef90_A5V2C7 D D D T [] V L Q Y K Q A L Q K G L V T L D T A Y E K I Q E Y G Y C V D R H N T
UniRef90_U4TFD9 E V E R L Q S L L A L Y G Y G L N I T G L
UniRef90_UPI000423ED8B P A P E R I G A L G A P L S P D E G L G V I V L R S G L H R L G Y A V Q P G G Y
UniRef90_L1Q7D3 P A D S D I N C F R R K L T Q D G M P P R H T L L K A L A L Y G Y S I D V D A P
UniRef90_UPI00046AAC72 A D R F E P T P H E L D V F L K A L V A Y G Y G V T H S D S
UniRef90_K8NL27 G D T G P G V F A L Q G A L G K L G Y D I L P G G Y
UniRef90_E8RRZ0 G D A G A K V A S L Q R D L A A Y G Y R V E T G V Y
UniRef90_UPI00037447BD V H V L Q A G L H R L G Y E L P D G R Y
UniRef90_D9QMT8 V E K L Q A T L A G I G Y G I E T G I F
UniRef90_A0A059FKL1 I E T L Q S L L A I L G Y G L S I T N L
UniRef90_B2IHS0 P D D D K [] V A H Y R A [] E A A P A P P D E R Q F A H W L A A Y G Y G I K P C E A
UniRef90_I3WB89 V E A Y Q R Q L A T E F G Y G L K D G I F
UniRef90_UPI0003623545 V F A L Q A G L T R L G Y N C P P G N Y
UniRef90_B0T844 I M A L Q R A L V R Y G Y P V P S G Q Y
UniRef90_D6V2U1 R K F [] G T T S D E I M A L Q R A L V R Y G Y P V P S G Q Y
UniRef90_A3UEB9 P D P A P A G F A P S A P G D V E A L Q R Q S L F E I G Y G V A T G A Y
UniRef90_UPI00038282AF A [] G P G D E G P V E Q L Q T L L S L Y G Y G L E I D G F
UniRef90_Q2NVA7 D E A T K Q Y Y [] D E F A G Q G L P D Q A I I G K L K A Y G Y N T S G A T D
UniRef90_Q1NGD1 S A F L L A L E R F G Y D I
UniRef90_UPI0003F8F0F4 V A I L Q S G L A H I G Y G A R T G V L
UniRef90_UPI000371638B R P R A F [] T D P H W F L L A L E R F G Y D I

UniRef90_B9R1I3 D R R T S E V V V T A F Q R H F R R P E K V D G V V D A S T I E T L H N L L S K
UniRef90_C6X3P6 D D S T K K T I E A F Q Y H F R R P E I Y N G V M D A E S T W A I L L Q A L N K K Y
UniRef90_X0RD72 D K A S R D V V Y A F Q R L H F R R P E K P T G T V D L E S T Y A I L L K A L N K K Y
UniRef90_B3QFP0 D H A T T D V V V T A F Q R H F R R P E K V D G I A D A S T L A T L L K A L L A R
UniRef90_E3HYX6 D D A T R I V V V T A F Q R H F R R P A L V D G R A D P S T L K E T L L D A L L L E
UniRef90_UPI00046425E3 D D Q T K R V V E A F Q R H F R R P V R V D G V A D R S T I I E T L H H R L L K
UniRef90_UPI000472530D C E R T K G V V E A F Q R H F R R P K L V D G I A D F S T I I E T L L H R L L L K
UniRef90_UPI0003A8856F D P R T K A V I T A F Q R R F R R Q E R V D G V A D A S T I I T T L L R D L L L
UniRef90_H8DQM9 A R E Q Q K V I E A F Q M H F R R P A D Y R G L V D P D
UniRef90_UPI00047E2915 D A K T K G V V E A F Q R H F R R P K R V D G V A D M S T I I D T L H R L L
UniRef90_I4YV4 D E D T E K V V A A F Q R H F R R P E R V D G V A D A S T I I M T L L R R L L L
UniRef90_UPI00030987FD D A E T E V V V A A F Q R H F R R P R R V D G I A D P A S T I I E T L L R R L L L
UniRef90_Q1YM49 D D T T R Q A T V A F Q R H F R R Q E R V D G I A D A S T I I E T L L H R L L L
UniRef90_Q133W2 D P A T V E V V S A F Q R H F R R P E K V D G V A D G S T L A T L L H A L L L
UniRef90_A0A011VN27 D A Q T R I V V V E A F Q R H F R R R R I V D G I A D G S T L L R T L L E R L L L
UniRef90_Q216E7 D P A T A D V V V T A F Q R H F R R P Q R V D G I A D A S T L L T T L L E R M L L L E
UniRef90_UPI0004763FC7 D L A T E Q V V T A F Q R H F R R P A R V D G I A D S S T I A T L L H R L L L
UniRef90_W3RNX8 D S S T R D V V A A F Q R H F R R P A R V D G I A D P S T L A T L L T D L L L
UniRef90_UPI00016A6E24 D S N Y R A L V R A F Q M H F R R Q S Y S G E M D D E T A A I L L F A L N K K Y R
UniRef90_UPI000364E7D7 D T A T R N V L A V I Q T K Y R P T L F D G T M D A S T T A A L L L
UniRef90_Q11GR4 D A E T A T V V A A F Q R H F R R P S A V N G I A D S S T I I S T L L E K L L L
UniRef90_A9DDX7 S A Q T A A V V R A F Q R H F R R P A R V D G I A D A S T I I G T L L H R L L L
UniRef90_B9JY66 D A V T E G V V R S F Q L H F R R P S K V D G V A D Y S T I I D T L L H R L L L
UniRef90_F7QR61 D A A T M D V V T A F Q R H F R R P E R V D G V A D T S T I I D T L L H R L L L
UniRef90_UPI00036D91AB S D K M A G E I E A F Q R H F R R P E R V D G I A D F S T I I D T L L H R L L L S R Y G
UniRef90_A4CAP2 D K Q T F N T V K A F Q L H F L P W Q A T G E I T I K T V A V L F A L M D K Y R
UniRef90_U2ZD52 D P V T R Q V I R A F Q L H F R R A D K V D G L P D L E S W A R L Q V L A Q Y
UniRef90_I3UB70 D Q O T R Q V I R A F Q M H F R R P A E Y R G R L D R Q T L A I L A E D L A R Q Y
UniRef90_X0TIE2 D A D C R E V I S A F Q R H F R R P Q R V D G V I D A S T T A A T L L R R L L L E A S G
UniRef90_J3HS24 G N A T E L S V L A F Q R H F R R P T K V D G V A D M S T I I E T L L H K L L L
UniRef90_R9CQH1 D N Q T K L V I Q A F Q Y H F W P L I G D G V L D T G T Y A T L L A L I Q K Y
UniRef90_UPI0004703FEC C D R T R G D V D A F Q R H F R R P V R V D G I A D F S T I I D T L L H R L L L K
UniRef90_B8ETT3 D A R T K C V I R A F Q R H F R R P A L V D G I A D F S T I I V A T L L R K L L
UniRef90_E0MJY4 D R K T R D V V E A F Q R H F R R P K R V D G V A D I A T I V A T L L L L L
UniRef90_W6WH73 C E R T K G V V E A F Q R H F R R P Q L V D G I A D F S T I I D T L L H R L L L K
UniRef90_K2PEW8 C P Q T E G V I A A F Q R H F R R Q A K V D G V A D S S T I I E T L L H R L L L
UniRef90_UPI00037266EC D P Q T A V T I Q A F Q R H F R T S C V D G V A D R S T I I S T L L H R L L L
UniRef90_A7HVT6 D E A T K A V V T A F Q R H F R R P Q K V D G V A D V S T V T T L L R R L L L E K D
UniRef90_UPI0004784664 D A A T A Q V V Q E F Q R H F R R P E R V D G I A D F S T A D T L L R R L L L K
UniRef90_K2MTS5 D E A T R I V V V T A F Q R H F R R R A R V D G L A D L S S C E T L L R R L L L
UniRef90_A8HZ76 D E A T R D V V M A F Q R H F R R R S Q V D G V A D G S T I L L L R N L L I Q
UniRef90_U2ZBT3 D E D T R V V V T A F Q R H F W R P E K V D G I A D G E T R A R L L M G L L L
UniRef90_Q07PU2 N A A T A E V V T A F Q R H F R R P Q K V D G I A D T S T L A T L L H A L L L
UniRef90_D7A7X2 Y C E T E A V V R A F Q R H F R R R S R I D G V A D V S T L A T L L Y A L L L
UniRef90_UPI00035FEF64 F C E T E A V V R A F Q R H F R R R A R I D G I A D V S T L A T L L Y A L L L
UniRef90_Q0G676 C E A T R L A T I A F Q R H F R R P K K V D G I A D M S T I I E T L L H R L L L
UniRef90_HOHTJ4 D R Q T E I A V A A F Q R H F R R P R Q V D G I A D R A T V E T L L L L L
UniRef90_K9GX15 D E A T A K A L V A F Q R H F R R P A D L V D G V A D A E T W A M L L K A L L L
UniRef90_A0A021WXC3 S E K M E G A V A A F Q R H F R R P E R I D G I A D F S T I I D T L L H R L L L R
UniRef90_B4RFT0 D A D T T T V V S A F Q R H F W R P E R I D G I A D G E T R A R L L H R L L L
UniRef90_H4FBV1 Y A R T E G V V A A F Q R H F R R P V K V D G I A D S S T I I E T L L H R L L L
UniRef90_A7IGJ8 D A E T A D V V A A F Q R H F R R P A K V D G V A D A S A T I L L R D L L L
UniRef90_B6JCE8 D G V T M D G V A A F Q R H F R R P E R V D G I A D Q S T L T T L L R N L L L E D S
UniRef90_K2PQT4 D P S L S A V V Q A F Q R H F R R P A Q V D G V A D L S T C G T L L R G L L L S D S K
UniRef90_E2CKG4 D A T T R L A V V E A F Q R H F R R P E Q V D G I V D G L S T I E T L L H K L L L
UniRef90_F8J7S5 D A D T E K V L K A F Q L H F R R P R R V D G R L D R S T E G T L L E R L V L S K
UniRef90_UPI00046AC271 D R Q T Q T I V R E F Q R H F R R P L E V C G L A D V T T C E I L L R K L L L
UniRef90_UPI00035F873B D E R T A T V V A E F Q R H F R R P E R L D G I A D L S T I E T L L D R L L L
UniRef90_F5MFM6 D D G Y K A L V R A F Q L H F R R Q K N Y D G I M D A E T A A I L L Y A L L L E K Y F
UniRef90_UPI00046534C9 D P A T R I A V E A F Q R H F R R P R L V D G V A D G S T I I R T L L K R L L L
UniRef90_UPI000370D528 D Q A C A G V V A A F Q R H F R R P A L V D G R A D S S T I I A T L L R A L L L
UniRef90_UPI00045EC49D D A A T A E V V A A F Q R H F R R P S Q V D G V A D A S T L L T L L R N L L L
UniRef90_G0E1I4 D L D S R K V I Y A F Q C H F R R P E K I D G N I D N E T Y A V I R A L N L K
UniRef90_UPI00047B91AD Y P K T E N V V R A F Q R H F R R P A L V D G I A D Q S T I E T L R A L L L
UniRef90_UPI0001D2D55C D E G A A V V A A F Q R H F R R P R L V D G R A D R S T I D T L L R A L L L
UniRef90_NOAYP8 D E T T N H V L K A F Q A H F R R P R R V D G R L D R S T E L T L G R L V L E
UniRef90_J5PTL0 D D L T V A V V T A L Q R H F R R P A R V D G V A D A S T R Q T L S R Q T L S R
UniRef90_U2WE03 G A V T Q T V M R A F Q L H F R S E R V D G I A D A E C C A R L L D L L S R
UniRef90_HOTR35 D G T T M E V V T A F Q R H F R R P A R V D G I A D A H
UniRef90_J9DJF2 Y G A T Q T V M R A F Q L H F R P E C I D G V A D A T C C A R L L D L L S R
UniRef90_B4WBJ2 D A E T E T T V R A F Q R H F R R P D R I D G V A D G E T R A R L V G L L L Q
UniRef90_A5V2C7 P A A V I A F Q R R F R R P E R L D G I A D G E C C R A I L L L L
UniRef90_U4TFD9 Y C K K I N L I R A F Q M H F R S S K Y D G I L D E E T A S I M L A L W T K Y
UniRef90_UPI000423ED8B Y S K T H A V V S A F Q R H F R R P E L V D G I A D V S T I A T L L R L L L
UniRef90_L1Q7D3 D D E T R L T V E A F Q R H F R R P D R V D G V A D G E T R A R L V G L L L Q
UniRef90_UPI00046AAC72 W L A I A A F Q A H F R A G A I T G Q F D T E S A A L L M A L L V A R Y R
UniRef90_K8NL27 W D T K Q A V V A A F Q R H F R R P A R V S G R V D H S S I E T L L R L L L R H
UniRef90_E8RRZ0 D A E T Q A I I T A F Q R H F V Q T R I V D G K A D A L T R V R L M A L L L R
UniRef90_UPI00037447BD D A E T V L A I E A F Q R H F R R P A R V D G R A D G E T R T R L L L L L
UniRef90_D9QMT8 T D E T R I T V E A F Q R H F W R P S K V D G I A D G E T R A T L M G V L L Q
UniRef90_A0A059FKL1 D P L T E A V V R A F Q R R W R P G R V T G T A D F E T L R R I A A V H T L Y T
UniRef90_B2IHS0 Y G K T E A V V R A F Q R H F R R P A L I D G I A D V S T I E T L K A L L L
UniRef90_I3WB89 N L J E I Q R Y T R A F Q Y H F R Q H K A D G L S D L H T R A L L L G L L E E Y W
UniRef90_UPI0003623545 G E E T R L V T L A F Q R H F R R P A R L T G A V D A Q T Q D R L L R L L L Q
UniRef90_B0T844 D E W T A T V V A A F Q R H F W L Q T R F D G V A D G E T R A R L V A L L L R
UniRef90_D6V2U1 D G V T M D A V A A F Q R H F R R P E R V D G I A D
UniRef90_A3UEB9 D D A L K S V V L A F Q R R F R R P D L L S G N A D E E T C V L I E G L R R K
UniRef90_UPI00038282AF Y G E T M A V V R A F Q R H F R R P A R V D G I A D F S T
UniRef90_Q2NVA7 A S V Y K N L I Q A F P T A F P R R L A G
UniRef90_Q1NGD1 A E P Q A A V I A F Q R R F R R P E L I D G V I D G E C R A I L L A L L
UniRef90_UPI0003F8F0F4 D E A S V K L I E A F Q R R Y R P D Q I D G V V D H I T M E I V K A L L S E
UniRef90_UPI000371638B V E P E A A V R A F Q R R F R R P E N L D G V I D G E C R A I L L S L L

UniRef90_B9R1I3
UniRef90_C6X3P6
UniRef90_X0RD72
UniRef90_B3QFP0
UniRef90_E3HYX6
UniRef90_UPI00046425E3
UniRef90_UPI000472530D
UniRef90_UPI0003A8856F
UniRef90_H8DQM9
UniRef90_UPI00047E2915
UniRef90_I4YVF4
UniRef90_UPI00030987FD
UniRef90_Q1YM49
UniRef90_Q133W2
UniRef90_A0A011VN27
UniRef90_Q216E7
UniRef90_UPI0004763FC7
UniRef90_W3RNX8
UniRef90_UPI00016A6E24 P
UniRef90_UPI000364E7D7
UniRef90_Q11GR4
UniRef90_A9DDX7
UniRef90_B9JY66
UniRef90_F7QR61
UniRef90_UPI00036D91AB
UniRef90_A4CAP2
UniRef90_U2ZD52
UniRef90_I3UB70
UniRef90_X0TIE2 P
UniRef90_J3HS24
UniRef90_R9CQH1
UniRef90_UPI0004703FEC
UniRef90_B8ETT3
UniRef90_E0MJY4
UniRef90_W6WH73
UniRef90_K2PEW8
UniRef90_UPI00037266EC
UniRef90_A7HVT6
UniRef90_UPI0004784664
UniRef90_K2MTS5
UniRef90_A8HZ76
UniRef90_U2ZBT3
UniRef90_Q07PU2
UniRef90_D7A7X2
UniRef90_UPI00035FEF64
UniRef90_Q0G676
UniRef90_HOHTJ4
UniRef90_K9GX15
UniRef90_A0A021WXC3
UniRef90_B4RFT0
UniRef90_H4FBV1
UniRef90_A7IGJ8
UniRef90_B6JCE8
UniRef90_K2PQT4
UniRef90_E2CKG4
UniRef90_F8J7S5
UniRef90_UPI00046AC271
UniRef90_UPI00035F873B
UniRef90_F5MFM6 P
UniRef90_UPI00046534C9
UniRef90_UPI000370D528
UniRef90_UPI00045EC49D
UniRef90_G0E1I4
UniRef90_UPI00047B91AD
UniRef90_UPI0001D2D55C
UniRef90_NOAYP8
UniRef90_J5PTL0
UniRef90_U2WE03
UniRef90_HOTR35
UniRef90_J9DJF2
UniRef90_B4WBJ2
UniRef90_A5V2C7
UniRef90_U4TFD9
UniRef90_UPI000423ED8B
UniRef90_L1Q7D3
UniRef90_UPI00046AAC72
UniRef90_K8NL27
UniRef90_E8RRZ0
UniRef90_UPI00037447BD
UniRef90_D9QMT8
UniRef90_A0A059FKL1 A D
UniRef90_B2IHS0
UniRef90_I3WB89 P E
UniRef90_UPI0003623545
UniRef90_B0T844
UniRef90_D6V2U1
UniRef90_A3UEB9
UniRef90_UPI00038282AF
UniRef90_Q2NVA7
UniRef90_Q1NGD1
UniRef90_UPI0003F8F0F4
UniRef90_UPI000371638B

UniRef90_UPI0002D8137B
UniRef90_UPI0003602996
UniRef90_UPI00047E30D1
UniRef90_F8BNF7
UniRef90_U2Y859
UniRef90_D6V3A1
UniRef90_UPI000477354B
UniRef90_UPI0003B44BFA
UniRef90_E3BK03
UniRef90_Q1GSC4
UniRef90_UPI000362BDC6
UniRef90_UPI0003B68AA0
UniRef90_UPI0003B53884
UniRef90_UPI0003A0D8E5
UniRef90_UPI00041689C3
UniRef90_A0A059DV88
UniRef90_UPI0003FC84BC
UniRef90_F4QHS1
UniRef90_K2LTF3
UniRef90_UPI000225B42F
UniRef90_UPI000378266B
UniRef90_Q2NDB0
UniRef90_H8FQW4
UniRef90_UPI000191231B
UniRef90_UPI00037EE0FA
UniRef90_UPI000401F68F
UniRef90_UPI00026CB940
UniRef90_UPI0003B5751B
UniRef90_M2U4M1
UniRef90_NOGGY7
UniRef90_UPI00040E19F3
UniRef90_D3NWD0
UniRef90_A0A059GC04
UniRef90_UPI0003B3E32D
UniRef90_V4PLA3
UniRef90_V4R5W2
UniRef90_UPI0003611E24
UniRef90_A3WAA3
UniRef90_Q2W912
UniRef90_V6F8K9
UniRef90_A0A059FJT5
UniRef90_K0JN55
UniRef90_K2LKC9
UniRef90_X5MKL6
UniRef90_UPI00046FAA14
UniRef90_F1Z7J5
UniRef90_I9L2S8
UniRef90_UPI0003707338
UniRef90_UPI0003B3DE99
UniRef90_H0A5E9
UniRef90_G2TD30
UniRef90_UPI00047254F7
UniRef90_UPI0003B4135E
UniRef90_G7Z1Y7
UniRef90_UPI00037748C7
UniRef90_K5XU14
UniRef90_G8AFL3
UniRef90_UPI0002F8E1B1
UniRef90_UPI000368B869
UniRef90_K2K013
UniRef90_Q0AMV7
UniRef90_Q8YR98
UniRef90_F5UD69
UniRef90_UPI000369EBP9
UniRef90_UPI00036B9F2C
UniRef90_UPI0003B42592
UniRef90_UPI00036KH14
UniRef90_UPI0003B6EAA5
UniRef90_UPI00047E2847
UniRef90_UPI000478C6B4
UniRef90_Q0AV97
UniRef90_UPI0003F4ADF8
UniRef90_E2CNP7
UniRef90_W9GY18
UniRef90_UPI0003800046
UniRef90_UPI00036BA6DE
UniRef90_UPI000346FEA3
UniRef90_I8AF76
UniRef90_UPI0003M5PHX8
UniRef90_UPI0003F889BF
UniRef90_U4V2T5
UniRef90_C6XME2
UniRef90_UPI000370C38A
UniRef90_I4WEA5
UniRef90_Q9K6Q7
UniRef90_H2BU73
UniRef90_K2EH29
UniRef90_W6I057
UniRef90_W4QMB3
UniRef90_R4SVY7
UniRef90_UPI00036B0D7B
UniRef90_R9GQP4

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

UniRef90_UPI0002D8137B D E D T A A T V A A F Q R H F R R S R V D G R A D A S T L D L L T R L L L
UniRef90_UPI0003602996 D A A V E T A V V A F Q R H F R P A R V D G V A D G E T R A R L V G L L L Q
UniRef90_UPI00047E30D1 D A A T A T A V V A A F Q R H F R P E R V D G I A D P S S T R D T L Q R R L L L
UniRef90_F8BNF7 P E V K A A V V A A F Q R H F R P A R G D G K V D R S S I E T L R R L L L
UniRef90_U2Y859 R A A V A A F Q R R W R P K R T D G E I D G E T G A I L L F A L L L
UniRef90_D6V3A1 C E N T K Q A V V A A F Q R H F R P A R V D G R V D R S S I D T M L R L L L
UniRef90_UPI000477354B A A K N R A A V V A A F Q R H F R P G L F D G A I D K Q S C Q I L L G S L L L S Q
UniRef90_UPI0003B44BFA V D Q E A A V R A F Q R R F R P E N L D G V I D G Q C R A I L L S L L L
UniRef90_E3BK03 P L Y Q A F L I G A F Q T H F T P D K I T G T V I D K E S M A A I L L A L L L K K Y Y
UniRef90_Q1GSC4 A A T V A F Q R R F R P E L I D G T I D G E C R A I L L A L L L
UniRef90_UPI000362BDC6 D L R T E Q V F T A F Q R R F R P D R V D G K L D V E T L A V I S E L N
UniRef90_UPI0003B68AA0 F A P L E A V T A F Q R H H R P T K F D G V I D A E T R T L L R G L L L
UniRef90_UPI0003B53884 P A A I R A F E R R F R P E L I T G V P D G Q L R A M L F A L L L
UniRef90_UPI0003A0D8E5 D G E T A D L T R A F Q R H F Y P Q A V T G A A D A E T R A R
UniRef90_UPI00041689C3 S Q K A V L A F Q R R F R P D L I D G I D G E C R A K L L A L L L
UniRef90_A0A059DV88 D E R T E A A V V R A F Q R R W L P E R V N G S A D T R T L R R I D A I H T L Y T
UniRef90_UPI0003FC84BC A A V T A F Q R R F R P E L V D G E I D M E C R C I L L A L L L
UniRef90_F4QHS1 D D E T A T L V R A F Q R H W A P D R I S G K A D A L T R V R L M A L L R H
UniRef90_K2LTF3 D A L E R R I A F Q R H W R P S N I S G N V D G E C A A I L R A L L D K A G
UniRef90_UPI000225B42F T D E F R N V L R A F K A H F H P E Q F N A P L N H Q D M Y W I W A L T A K Y
UniRef90_UPI000378266B D N K F K L L I K A Y Q R H F R Q N I S G I L D S E T Y A L T E K H N
UniRef90_Q2NDB0 L K A V I E A F Q R R W R P E K I D G E I D G Q L C A I L F Q L L
UniRef90_H8FQW4 D P T A A I I A F Q R H F R P W S L S G D A D P E T C G R L R A L L R
UniRef90_UPI000191231B P R E Q R R V I M
UniRef90_UPI00037EE0FA D A D M Q R T I V R S F Q L H F R P A R T D G R L D R S T L D T L S R L
UniRef90_UPI000401F68F D D R T E T L V R A F Q R H W R P S C I D G R V D A S T L D T L
UniRef90_UPI00026CB940 K L A A I V A F Q R R F R P E L I D G V I D G E C R S I L L A L L L
UniRef90_UPI0003B5751B A A I M A F Q R R F R P E L I D G E M D A E C R M I L L A L L L
UniRef90_M2U4M1 A D Q P E R A V T A F Q R R W R P D R V D G T I D A E T R T I L L A L L S R
UniRef90_NOGGY7 P Y Q R Q A L I A A F Q M H F R P S D Y R G I A D A A E T E A I A A A L L E K
UniRef90_UPI00040E19F3 F N E T E T V V R A F Q R H W R P A H V D G R A D P S T L D T M
UniRef90_D3NWD0 R A L L A F Q R H F H P G G L T G S P D A E T V R R L R A L L R Q T G
UniRef90_A0A059GC04 D E T T R L V I S A F Q R R Y V P A Q I T G A A D P E T L E R I
UniRef90_UPI0003B3E32D D E A L K A V V L A F Q R R F R S Q A L T G V A D E E T C A L I E G L
UniRef90_V4PLA3 D A E T A T V V T A F Q R H W L P D Q L E G R A D A K L R V T L M A L L R H
UniRef90_V4R5W2 A P Q A V I S A F Q R H W R P E R I C D G I A D L S T L L T L E R L L Q H
UniRef90_UPI0003611E24 Q A K A V I E A F E R R W R P E R I T G I P D G E V A A I L W H L L E R
UniRef90_A3WAA3 R K A I E A F E R R W R P E R I E G K P D A Q L G A I L W H L L E R
UniRef90_Q2W912 H D P K A T L T A F Q R H F R P W K V D G L V D E E S V G R L R S L L R
UniRef90_V6F8K9 A A M T A F Q R H F R P D L I N G G N D A E T A G R I E R L L
UniRef90_A0A059FJT5 D A A T R L V V C A F Q R R W L P D R L T G N A D R N T L A R V R
UniRef90_K0JN55 D Y E S R K V L Y A F Q C R F R T N D I D G N I D K E T Y S I
UniRef90_K2LKC9 D E G K A K R T I A F Q R H W R Q N D I S G N V D G E C L A I A K V L
UniRef90_X5MKL6 Y G E T T L T V T A F Q R R Q R P E S V D G I A D L S T L K T L A A F L L
UniRef90_UPI00046FAA14 D M I N A F Q S H F T P L I T G K T N R N S L A V I L A L L K K Y
UniRef90_F1Z7J5 A A A I R A F E R R W R P H R I T G E I D G Q I G A L L F E L L
UniRef90_I9L2S8 R A A V T A F Q R R W R P E V I D G V I D G Q I G G I L L F E L L
UniRef90_UPI0003707338 P D G L R A A L V A F Q R R Y R P A D L S G Q P D A Q T L A M L S A
UniRef90_UPI0003B3DE99 D G Q K R R I L A F Q R H W R P A D I S G K V D N E C V A I A K A L V K
UniRef90_H0A5E9 R I A L V A F Q R R W R Q E R V D G E A D T G T L A R L E A
UniRef90_G2TD30 L Q A T V L A F Q R H F R P K R I D G R I D S E T L W L I K A L
UniRef90_UPI00047254F7 L E K S I E A F Q R H W R P Q A I T G K A D A E T C
UniRef90_UPI0003B4135E E E Q T E K V V M A F Q R R W N Q G D V S G V V D P L T F E L I R R
UniRef90_G7Z1Y7 R A L L A F Q R H F P D C L T G T P D A E T
UniRef90_UPI00037748C7 D A A F A T V V T A F Q R H W A P H R A D G V A D G R T R
UniRef90_K5XU14 L P Q D S V I R A F Q R H F L P A H L T G A P D A P T A A A L R R L V D
UniRef90_G8AFL3 R V L L S F Q R H F R P E R L T G K P D P E T
UniRef90_UPI0002F8E1B1 R P E I V L S A F Q R H W R Q E T V S G E A D S G T L A R T E A
UniRef90_UPI000368B869 G A T T E F A V R A F Q A H W R P E A V T G Q T I D I G T A A V L E
UniRef90_K2K013 L P A S I A A F Q R R Y R P S L I D G Q L D R E T A G L I N G L
UniRef90_Q0AMV7 E A V V E A F Q R R W R P A C C C D G V L D D E T R G L I T A
UniRef90_Q8YR98 G D S T K K A V A K F Q Q A K V F S R V D G V A D L A T K R I L Q A L I D
UniRef90_F5UD69 R E V T Q N A V R Y F Q R I N R L R V T G V A D R Q T L A L L F
UniRef90_A0A059EBP9 Y G E T E N V V T A F Q R R W L P E Q V T G Q A D L T T I G V I H A L
UniRef90_UPI00036B9F2C E S D F L K V L E A F K A H F Q P E R Y D S Q I T N E D M F W A W A I T A K Y S
UniRef90_UPI0003B42592 E A S T A D V V P A F Q R H Y R
UniRef90_W6KH14 D E E A T I T A F Q R H F R P G L V D G V L D G E T V G L T G G M L D
UniRef90_UPI0003B6EAA5 D E D F E R V L L A F Q R R F L P D H L T G H L D P R T S G R L S A I A A L Y
UniRef90_UPI00047E2847 G P I T E D A V R K F Q R E H R L Q V D G I A G P Q T L S T L A L M D Q
UniRef90_UPI000478C6B4 D E D F G R V L L A F Q R R F L P D H M S G K L D V R T A G R L S A
UniRef90_Q0AV97 D G Q T R D M V A E F Q S D H R L E V T G I A T A E T R A L L Q
UniRef90_UPI0003F4ADF8 D I M T E N A V R A F Q S T R G L A V D G I V G P Q T A V A I Q A
UniRef90_E2CNP7 G D R T R D A I R A F Q R S H P P L V V D G I A G P A T R T R L Q R Q L A K
UniRef90_W9GY18 D A P T R V I A T A F Q R R F L P D R L G F G L D G A F M R M L R A A V R Q
UniRef90_UPI0003800046 L K A T I T A F Q R R W F Q H R I D G L D D S E T I R A R A S A V A K L Y S
UniRef90_UPI00036BA6DE F D E T Q Y V I K A F K A H F K P E L Y N T E I T K A E I Y W I W A L V A K Y
UniRef90_UPI000346FEA3 G N A T R N A V M A F Q D T H G L D P V D G V P G P E T R A M L A L G N E Y P
UniRef90_I8AF76 D V S T K K A V T A F Q K K F Y L N E T G I V D A E T Y N L L R
UniRef90_M5PHX8 D D Q T A I A V K A F Q R D Q K L K T T G V I T G E T
UniRef90_UPI0003F889BF D Q E L V W A I T D F Q L Q S K E L L A S G I Y D K E T S S A L E S L I E Q
UniRef90_U4V2T5 D A P L E T R L R A F R L H F R P A G A P L G A V D C A V A K A L A D K F
UniRef90_C6XME2 D Q E I T C V I R A F Q R W M Q D N V T G E P C L E T
UniRef90_UPI000370C38A G P A T A E A V K A F Q I S R G L D A D G L V I G P S T Y S A L L G K S M
UniRef90_I4WEA5 D A K T W Q A V R A F Q A H G Q P L M V D G V A
UniRef90_Q9K6Q7 G S I T E D A V R E F Q M K H G L Q V D G I A G P Q T L N A L L S Q
UniRef90_H2BU73 M E A A I K A F K L H F I Q S E V N G E L N A M D L L I L E N L Y K K Y
UniRef90_K2EH29 L P H T V R A F K R H F Q P H Q L D D R A D E E T C R L I Q G L L D
UniRef90_W61057 D L P L D M V L R A F Q R R F L P D R P D G S A D A A T L A R L
UniRef90_W4QMB3 G D A T E K A V R A F Q K D A R I K V D G V P G P Q T F S A L E K A L S K
UniRef90_R4SVY7 D P A T V A A V R A F Q T A E A L G V D G I A G P K T W A A L
UniRef90_UPI00036B0D7B D K D F T K A F Q R R Y R Q L I N G I F D Q E C Y L I L N N L
UniRef90_R9GQP4 S L A A I R S F K L H F I P T D Q S P E L I T I E D K A V L N N L K K Y

UniRef90_UPI0002D8137B
UniRef90_UPI0003602996
UniRef90_UPI00047E30D1
UniRef90_F8BNF7
UniRef90_U2Y859
UniRef90_D6V3A1
UniRef90_UPI000477354B
UniRef90_UPI0003B44BFA
UniRef90_E3BK03 P E
UniRef90_Q1GSC4
UniRef90_UPI000362BDC6
UniRef90_UPI0003B68AA0
UniRef90_UPI0003B53884
UniRef90_UPI0003A0D8E5
UniRef90_UPI00041689C3
UniRef90_A0A059DV88 A D
UniRef90_UPI0003FC84BC
UniRef90_F4QHS1
UniRef90_K2LTF3
UniRef90_UPI000225B42F
UniRef90_UPI000378266B K D
UniRef90_Q2NDB0
UniRef90_H8FQW4
UniRef90_UPI000191231B
UniRef90_UPI00037EE0FA
UniRef90_UPI000401F68F
UniRef90_UPI00026CB940
UniRef90_UPI0003B5751B
UniRef90_M2U4M1
UniRef90_NOGGY7
UniRef90_UPI00040E19F3
UniRef90_D3NWD0 H
UniRef90_A0A059GC04
UniRef90_UPI0003B3E32D
UniRef90_V4PLA3
UniRef90_V4R5W2
UniRef90_UPI0003611E24
UniRef90_A3WAA3
UniRef90_Q2W912
UniRef90_V6F8K9
UniRef90_A0A059FJT5
UniRef90_K0JN55
UniRef90_K2LKC9
UniRef90_X5MKL6
UniRef90_UPI00046FAA14
UniRef90_F1Z7J5
UniRef90_I9L2S8
UniRef90_UPI0003707338
UniRef90_UPI0003B3DE99
UniRef90_H0A5E9
UniRef90_G2TD30
UniRef90_UPI00047254F7
UniRef90_UPI0003B4135E
UniRef90_G7Z1Y7
UniRef90_UPI00037748C7
UniRef90_K5XU14
UniRef90_G8AFL3
UniRef90_UPI0002F8E1B1
UniRef90_UPI000368B869
UniRef90_K2K013
UniRef90_Q0AMV7
UniRef90_Q8YR98
UniRef90_F5UD69
UniRef90_A0A059EBP9
UniRef90_UPI00036B9F2C D D
UniRef90_UPI0003B42592
UniRef90_W6KH14
UniRef90_UPI0003B6EAA5
UniRef90_UPI00047E2847
UniRef90_UPI000478C6B4
UniRef90_Q0AV97
UniRef90_UPI0003F4ADF8
UniRef90_E2CNP7
UniRef90_W9GY18
UniRef90_UPI0003800046 A E
UniRef90_UPI00036BA6DE
UniRef90_UPI000346FEA3 P
UniRef90_I8AF76
UniRef90_M5PHX8
UniRef90_UPI0003F889BF
UniRef90_U4V2T5
UniRef90_C6XME2
UniRef90_UPI000370C38A P E
UniRef90_I4WEA5
UniRef90_Q9K6Q7
UniRef90_H2BU73
UniRef90_K2EH29
UniRef90_W6I057
UniRef90_W4QMB3
UniRef90_R4SVY7
UniRef90_UPI00036B0D7B
UniRef90_R9GQP4


```

UniRef90_L5MQ51      DDSTRFAV M L F QSRNKQT L TGEADAKTY 70 80
UniRef90_Q0C4Y3      P A A L R A F QRRWM P T A I T G L A D A D T L R R L A Q I A E A Y
UniRef90_J9K1A8      K A I K A F K A H F K P K L Y N S L I T R L E M Y W I W A L V A K Y
UniRef90_Q8YPA5      G A M T R D A I V R F Q R D Y R L T A D G I A D V Q L L Q A
UniRef90_I0S1R0      G P Q T E A A V R E F Q R R T R G L K V D G I V G P A T A A A L R
UniRef90_L0FZU1      A A I Q S F K L H F L Q Q D I D S P L T E N D I R L L H N L Y K K Y
UniRef90_UPI00037C59BE  A F S D L L C A V Q R R Y T P A D L S G Q A G P H L C A M L G A L

```

```

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm

```

UniRef90_L5MQ51
UniRef90_Q0C4Y3
UniRef90_J9K1A8
UniRef90_Q8YPA5
UniRef90_I0S1R0
UniRef90_L0FZU1
UniRef90_UPI00037C59BE

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm