

1 10 20 30 40
QUERY S F A G L K D A D V A A A L A A C S A A D S F K H K E F F A K V G L A S K S L D
UniRef90_L8WEQ3 UniRef90_I1J0J4 UniRef90_R9NWN9 UniRef90_K1QFB2 UniRef90_I1P5V0 UniRef90_UPI0002B4D1A7 UniRef90_S5RFZ8 UniRef90_M5X0K0 UniRef90_I1KY83 UniRef90_B9T2U0 UniRef90_C5X184 UniRef90_A7X9L9 UniRef90_S5S4G9 UniRef90_W5ERC3 UniRef90_Q9C6P3 UniRef90_UPI00032AA03B UniRef90_A7X9N1 UniRef90_UPI0003F16503 UniRef90_W1PI04 UniRef90_I1MY59 UniRef90_C5JVT2 UniRef90_R7WVB26 UniRef90_M0RGY3 UniRef90_H6UM43 UniRef90_F2EHL6 UniRef90_UPI00042AFD20 UniRef90_K7ITX3 UniRef90_D8RB08 UniRef90_W5JVV7 UniRef90_C3ZEV7 UniRef90_Q42479 UniRef90_H2M0U7 UniRef90_V7BDL4 UniRef90_W1PCB9 UniRef90_C3KII2 UniRef90_H6UM41 UniRef90_A0A059A6K5 UniRef90_UPI00046DFAE5 UniRef90_M7ZEH3 UniRef90_V5M2Y8 UniRef90_G7JJ65 UniRef90_M7Z2L3 UniRef90_UPI000394121C UniRef90_R7U234 UniRef90_M0SGM0 UniRef90_G7J2N7 UniRef90_I1JWZ6 UniRef90_V9PPY0 UniRef90_UPI00044199F1 UniRef90_Q0IQB6 UniRef90_M0SR70 UniRef90_UPI00038C29E2 UniRef90_I1NT14 UniRef90_J7LC19 UniRef90_S5DRG5 UniRef90_B1NDP5 UniRef90_V4YZ12 UniRef90_F7C0H0 UniRef90_K7U3A7 UniRef90_B9SUF1 UniRef90_J9HMV5 UniRef90_Q69HQ7 UniRef90_A0A016SE61 UniRef90_U6GNE8 UniRef90_W4Z066 UniRef90_UPI00042B21BC UniRef90_B8MH95 UniRef90_A0A023B654 UniRef90_Q28HK5 UniRef90_J9IGI9 UniRef90_Q6ITU9 UniRef90_UPI0002C31E34 UniRef90_F7HMI0 UniRef90_W5EZP7 UniRef90_I1QZE2 UniRef90_K1PYA6 UniRef90_A7T043 UniRef90_UPI0002C45647 UniRef90_K7N432 UniRef90_A8J159 UniRef90_A0A016T2F8 UniRef90_C5LDS5 UniRef90_R7USZ7 UniRef90_UPI000392E827 UniRef90_T1JDJ6 UniRef90_C1N8S7 UniRef90_S2JU87 UniRef90_M4AUT9 UniRef90_UPI0003F0E12C UniRef90_X2D2M1 UniRef90_V7AGG9

QUERY UniRef90_L8WEQ3 UniRef90_I1J0J4 UniRef90_R9NWN9 UniRef90_K1QFB2 UniRef90_I1P5V0 UniRef90_UPI0002B4D1A7 UniRef90_S5RFZ8 UniRef90_M5X0K0 UniRef90_I1KY83 UniRef90_B9T2U0 UniRef90_C5X184 UniRef90_A7X9L9 UniRef90_S5S4G9 UniRef90_W5ERC3 UniRef90_Q9C6P3 UniRef90_UPI00032AA03B UniRef90_A7X9N1 UniRef90_UPI0003F16503 UniRef90_W1PI04 UniRef90_I1MY59 UniRef90_C5JVT2 UniRef90_R7VWB26 UniRef90_MORGY3 UniRef90_H6UM43 UniRef90_F2EHL6 UniRef90_UPI00042AFD20 UniRef90_K7ITX3 UniRef90_D8RB08 UniRef90_W5JVV7 UniRef90_C3ZEV7 UniRef90_Q42479 UniRef90_H2M0U7 UniRef90_V7BDL4 UniRef90_W1PCB9 UniRef90_C3KII2 UniRef90_H6UM41 UniRef90_A0A059A6K5 UniRef90_UPI00046DFAE5 UniRef90_M7ZEH3 UniRef90_V5M2Y8 UniRef90_G7JJ65 UniRef90_M7Z2L3 UniRef90_UPI000394121C UniRef90_R7U234 UniRef90_M0SGM0 UniRef90_G7J2N7 UniRef90_I1JWZ6 UniRef90_V9PPY0 UniRef90_UPI00044199F1 UniRef90_Q0IQB6 UniRef90_M0SR70 UniRef90_UPI00038C29E2 UniRef90_I1NT14 UniRef90_J7LC19 UniRef90_S5DRG5 UniRef90_B1NDP5 UniRef90_V4YZ12 UniRef90_F7C0H0 UniRef90_K7U3A7 UniRef90_B9SUF1 UniRef90_J9HMV5 UniRef90_Q69HQ7 UniRef90_A0A016SE61 UniRef90_U6GNE8 UniRef90_W4Z066 UniRef90_UPI00042B21BC UniRef90_B8MH95 UniRef90_A0A023B654 UniRef90_Q28HK5 UniRef90_J9IGI9 UniRef90_Q6ITU9 UniRef90_UPI0002C31E34 UniRef90_F7HMI0 UniRef90_W5EZP7 UniRef90_I1QQE2 UniRef90_K1PYA6 UniRef90_A7T043 UniRef90_UPI0002C45647 UniRef90_K7N432 UniRef90_A8J159 UniRef90_A0A016T2F8 UniRef90_C5LDS5 UniRef90_R7USZ7 UniRef90_UPI000392E827 UniRef90_T1JDJ6 UniRef90_C1N8S7 UniRef90_S2JU87 UniRef90_M4AUT9 UniRef90_UPI0003F0E12C UniRef90_X2D2M1 UniRef90_V7AGG9

50 60 70 80

D E L V K K A F Y V I D D D G N S G F I E E D E F L K L F L Q N F S P S A R A L T D A E E
UniRef90_L8WEQ3 D E L Q D M F N E V D A D D G N S G F I E D F P E F L T M M A R E Y G I G G D E A N T D S E E E
UniRef90_I1J0J4 D L I Q R A M F Q H F D K D D G N S G Y I S R E E E L K Q A M T R K M K D E A N T D S E E E
UniRef90_R9NWN9 E E F L Q D M V N E V D A D D G N S G T I T T F P E F L T M M A R K M K G Q N P T E A E E
UniRef90_K1QFB2 E F K E A M F S L F D K D D G S G A I T T F K E L G T V M R S L R Y G S N L R E A E E
UniRef90_I1P5V0 H L K E A M F S K A M D T D D G S G A I T T F Q D E L Q Q A C E K F G G Q N L R E A E E
UniRef90_UPI0002B4D1A7 H L F A A F S Y F D K D D G S G Y I T P D E L Q Q A C E E F G G L E D V R
UniRef90_S5RFZ8 E L F K A F Q Y F D K D D N S G F I T R D E L E S A M K E Y G M G D D D Q T
UniRef90_M5X0K0 E Q L F K A F Q Y F D K D D N S G F I T R D E L E S A M K E Y G M G D D K E I S E
UniRef90_I1KY83 G L K S M F A N I D T D D N S G F I T Y D E L K A G L A R L G S K L T E T E E
UniRef90_B9T2U0 G L R E A F E V L D K D D Q N S G F I S P E E L R T V M T N L G L R Q G S K M T D E S D
UniRef90_C5X184 G L R E L F K S M D T D D N S G M V T Y E E L K N G L P K L R Q G T K L S E S E
UniRef90_A7X9L9 G L K E M F K S M D T D D N S G T I T L E E L K N G L A K Q G T K L S D N E T
UniRef90_S5S4G9 G L K E M F K N I D K D D N S G Y I T T D E L E A A L K E Y G M G D D D A T
UniRef90_W5ERC3 N V Y K A F Q H F D K D D G S G Y I T T D E L E A A L K E Y G M G D D D A T
UniRef90_Q9C6P3 H L Y K A F Q Y F D R D D N S G F I T F E E L K S G L E R V G S N L V E S E
UniRef90_UPI00032AA03B H L R A A F Q V F D K E G S G Y I T D W N T L K Y V M M N A G E P L N E V E
UniRef90_A7X9N1 H L Y T A F Q V F D K D D N S G Y I T P E E L E Q A L L E Y G M H D G R G E K L T D D E
UniRef90_UPI0003F16503 G E L K Q M F S N M D I D R N S G T I S Y E E L K S G L T K L I G S K L T S E Y E
UniRef90_W1PI04 G L R E A F K V F D R D D N S G F I S A A E L R H V M T S I I G E K L T D D E
UniRef90_I1MY59 H L V A A F S Y F D K D D G S G Y I T V D E L Q Q A C Q E H N M P D A F
UniRef90_C5JVT2 E L K E A F R V F D K D D Q N S G F I S A V E L R N V L V N L G E K L T D D E
UniRef90_R7VWB26 E L K E M F K M I D T D Y S G N G I T L E E L K K G L E R V G A D L K D S E E
UniRef90_MORGY3 H L Y T A F Q Y F D K D D N S G Y I T K E E L E Q A L Q E Q K L Y D P E E
UniRef90_H6UM43 G L K Y M F N R F D T D N S G T I T L E E L R V G L A R L G S K L T E E E E
UniRef90_F2EHL6 G L R E A F R V F D K N N D S G L S S V E L R H V M T N L G E K L T E E E E
UniRef90_UPI00042AFD20 G L K E L F K K M D V D K S G T I T F E E L K S G L A K Q G Y D M A E E E E
UniRef90_K7ITX3 E F K E A F S L F D K D D G T I T T K E L G T V M R S L G Q N P T E A E E
UniRef90_D8RB08 E L R E A F Q V F D K D R N S G Y I S A A E L R H V M T N L G G E K L T D E E
UniRef90_W5JVV7 H L Y T A F Q F F D N D N S G Y I T M E E L E L A M K K Y N M G D D K S
UniRef90_C3ZEV7 E V K K A F Y I D D K S G F I E E D E L K L F L Q N F S A G A R V L S D G S E
UniRef90_Q42479 H L R K A F S Y F D K D D G N S G F I E P E E L R E A L V I E D G T D S V I D V
UniRef90_H2M0U7 D R N K V F T V L D K D K S G Y I E E E E L K L F L Q N F S P G A R E L T L A E
UniRef90_V7BDL4 N L F K A F L Y F D K D C S G F I T R D E L R H A M T E Y G M G D D E A T
UniRef90_W1PCB9 V I R E M F T L M D T D S D G K V T Y T E L K A G L Q K V G S Q L A E P E
UniRef90_A0A059A6K5 H L Y K A F A F F D K D D G S G Y I T M E E L Q A L K K Y N M G D D E K T
UniRef90_UPI00046DFAE5 N L V S A F A F F D K D D G S G F I T I D E L S Q A C E K F G G S Q L S D V H
UniRef90_M7ZEH3 D I K D I F K K M D T D N D S G L V S I E E L K A G F Q N F G S Q L A E S E
UniRef90_V5M2Y8 G L K E T F E N M D T D S S G T I T Y E E L K T G L A Q L G S E L S E A E
UniRef90_G7JJ65 H L H K A F G Y F D R N K S G Y I E I D E L R E S L A D D L G P N H E V
UniRef90_M7Z2L3 E L R E A F R V F D K D D G N S G Y I S A A E L R H V M T N L G E K L T D E E
UniRef90_UPI000394121C E F R E A F S L F D K D D G G K I T T S E L G T V M R S L G Q N P T E A E
UniRef90_R7U234 Q L T K A F N Y F D K D D G S G Y I E M D E L R E A L V E G D A P T E Q V
UniRef90_M0SGM0 N L L S A F S Y F D K D D G S G Y I T I D E I Q A A C K E F G L D D V H
UniRef90_G7J2N7 H F H K A F S F F D K D D G S G Y I E L G E L E E A L A D E S G E T D A D V
UniRef90_I1JWZ6 E F K E A F S L F D K D D G S G T I T T Q E L G T V M K S L G S Q N P T D G V
UniRef90_V9PPY0 Q L R E A F C V F D K D D G N G L M G A A E L W H V M T R L G G K P S D Q E
UniRef90_UPI00044199F1 E F R E A F N L F D K D D G T I T S K E L G T V M G S L G Q S P T E A E
UniRef90_Q0IQB6 E L K E A F K V F D K D D Q N G F I S A T E L R N V M I N L G E K L T D E E
UniRef90_M0SR70 E I K E A F D L F D A D G S G T I D V K E L K I A L R A L G F E P K K E
UniRef90_UPI00038C29E2 H L R R A F L F F D K D D G N G Y I E P E L R E A L V D D G A G D S M E A D
UniRef90_I1NT14 G L I K E G F A L M D T G K R G K I G I D E L K S G L H K L L A D E S G Q T S E A D
UniRef90_J7LC19 H L R R A F M F F D K D D G S G F I E P D E L S E A L A D E S G Q T D I T V
UniRef90_S5DRG5 E L K E A F R V F D K D D Q N S G T I S A A E L R H V M T N L G E K L T D E E
UniRef90_B1NDP5 H L R Q I F M T L D V D N S G T I S V Q E V R E G L K R L G W T E I P A D
UniRef90_V4YZ12 G I R E A F R M F D K D D N S G Y I S A A E L R Q V L A T L G E K L T D E E
UniRef90_F7C0H0 H L Y T A F Q Y F D K D D N S G Y I T K E E L R H A L K E Q G L Y D A D K
UniRef90_K7U3A7 E L R K A F R I F D D D D S G K I S F D N L K K V A L E L N L A D E L D E N S E E I
UniRef90_B9SUF1 E L R E A F K V F D R D D G N G L I S R A E L S Q V M G N L G E Q L S D Q D
UniRef90_J9HMV5 M I R E A F R V F D R D D G N G Y I T A E E F R Y F M T H M G E Q Q S D Q E
UniRef90_Q69HQ7 A C Q N A F R V F D L D G D G K I S V D E L Q K V L E T S Y I K E A F S K E T
UniRef90_A0A016SE61 D I R E A F R V F D K G N G Y I E N S E L K H V L T F L D I H K S E
UniRef90_U6GNE8 G I K E A F K M M D T R K G G K I N L D E L R M G L Q K L G Q Q I P D A D
UniRef90_W4Z066 E L R A A F D V F D Q D G S G T I S A D E M R R V M K S I L G E N L T D A E
UniRef90_UPI00042B21BC M C R K A F T I E I N H D G K I S A E E L E T V F H L A S G E S D D A A T H
UniRef90_B8MH95 D V R N V F A I L D Q D R S G F I E E D E L K F L Q N F N A G A R A L T D A E
UniRef90_A0A023B654 K L K A A F S L F D K D D G S G S I S S E E V K E I L C S G A R K I D D K V
UniRef90_Q28HK5 D V K K A F A L I D D K D G S G F I E E E E L K L F L Q N F K A D A R V L T D V E
UniRef90_J9IGI9 G L K Q M F N N I D T D G S G N I T F E E L R T G L S R L G S K L T E A E
UniRef90_Q6ITU9 E Y K S A F S A V D T N G S G T I N A Q E L G A A G L K A M G K N F S E A E
UniRef90_UPI0002C31E34 G L R E L F K T V D I K N G V I T F G E L R K G L T R Y G N E L V D T E
UniRef90_F7HMI0 Y L P K A F K F F D K D G N G F I E M E E L M D A L G D E L G P T E Q V
UniRef90_W5EZP7 E F R E A F S L F D K D D G D G T I T T K E L G T V M R S L G Q N P T E T E
UniRef90_I1QQE2 E L Q E A F S L F D K D D G S G T I S N E E L E V V M K S L G Q N P S D E E
UniRef90_K1PYA6 E L K E A F X S D K D D G N G T I I T R E L G T V M R S L G Q N P T E A E
UniRef90_A7T043 N L V A A F A Y F D K D D G S G Y I T I E E I Q Q A C K D F G L G N L H I L
UniRef90_UPI0002C45647 G M R E M F Q E M D E D G S A T I T V D E L R E G L R R K G A E I A L G E
UniRef90_K7N432 E L R E A F R L F D K D G N G Y I N V S D L R D I L R A L D E N V S E E
UniRef90_A8J159 R L K K T F Q A L D E N G D G T L T V Q E I K E G M R S L D V S L P A D
UniRef90_A0A016T2F8 E F R E S F N L E D R D Q N S G Q L T T Q E L G A V M N N L G Q S P S D T E
UniRef90_C5LDS5 Q L T K A F R I L N W D R S G F M E D E L K F F L Q S L S A R A R A L T D A E
UniRef90_R7USZ7 E L R D M V N E V D V D G N S G T I E F N E F L Q M M S K K M K D S D S E L E
UniRef90_UPI000392E827 E I M D V F V F D K D G S G T I S A E E L R S A M R V I G E K L T D D E
UniRef90_T1JDJ6 E I L E T F R V F D R D D G S G Y I S E S E L R N I M A S L V G C D E K L T D D E
UniRef90_C1N8S7 R L G K R F K K L D L D N S G S L S V E E F M S L P E L Q Q N P L
UniRef90_S2JU87 E Y K A A F T Q F D T D G D G K I N L Q E L G Q V M K S L K K I G K E V S E E
UniRef90_M4AUT9 S I I Q M F Q T M D T K N G H L T F E E L R D G L K K I G Q V C P D G D
UniRef90_UPI0003F0E12C H L S Q A F R Y F D K N Q T G Y V E F E E L K D A L S D D E S E V M N D Q V
UniRef90_X2D2M1
UniRef90_V7AGG9

		90	100
QUERY	T	K A F L A D G D K D G D G M I G V D E F A A M I K A	
UniRef90_L8WEQ3	I	K E A F K V F D K D G N D G Y I S A A E L R H V M T	
UniRef90_I1J0J4	I	K E V L D E V D K D K D G N G F I D Y E E F V E M M R	
UniRef90_R9NWN9	I	K E A F K V F D K D G N G F I S A A E	
UniRef90_K1QFB2	L	Q D M I N E V D A D G N G T I D F P E F L T M M	
UniRef90_I1P5V0	I	R D L M D A A D V D K S G T I D Y D E F F I A	
UniRef90_UPI0002B4D1A7	L	E D I M R E V D Q D N D G R I D Y S E F F V A M M Q	
UniRef90_S5RFZ8	L	E E M I R E V D Q D N D G R I D Y N E F F V A M M Q	
UniRef90_M5X0K0	I	R E I I S E V D T D N D G R I N Y E E F F S T M M R S	
UniRef90_I1KY83	V	D T I I S E V D T D H D G R I N Y E E F F S A M M K S	
UniRef90_B9T2U0	V	K Q L M D A A D V D G N G T I D Y L E F F I T	
UniRef90_C5X184	V	E Q M I R E A D T D G D G Q V N Y D E F F V L M M K	
UniRef90_A7X9L9	I	R E L M E A A D V D G N G K I D F N E F I S	
UniRef90_S5S4G9	V	R Q L M E A A D V D G N G T I D Y I E F F I S	
UniRef90_W5ERC3	I	E Q L M Q A D A D G N G L I D Y E E F F V T	
UniRef90_Q9C6P3	I	K E I L S D V D A D N D G R I N Y D E F F C A M M R S	
UniRef90_UPI00032AA03B	I	R E I I S D V D K D N D G R I N Y E E F F C A M M R S	
UniRef90_A7X9N1	I	R Q L M D A A D V D Q N G T I D Y G E F F L A	
UniRef90_UPI0003F16503	A	E Q M M K E A D K D G D G T I D Y E E F F V A M M T G	
UniRef90_W1PI04	I	K D I L S E V D A D N D G R I N Y D E F F V A M M R	
UniRef90_I1MY59	I	K Q L M A A V D V D N S G T I D Y L E F F I A	
UniRef90_C5JVT2	V	D E M I R E A D Q D G D G R I D Y N E F F V Q L M M	
UniRef90_R7WB26	L	D D V I K E A D Q D N D G R I D Y G E F F V A M M T	
UniRef90_M0RGY3	I	N E M M H A D T N D G Q I D Y K E F F I K V M N A	
UniRef90_H6UM43	L	V S L M Q A A A F D N S G T I D Y G E F F L A A M	
UniRef90_F2EHL6	F	K D V I A D A D S D N D G R I D Y S E F F V A M M R	
UniRef90_UPI00042AFD20	T	Q Q L M D A A D V D K N G I V D Y I E F F I T	
UniRef90_K7ITX3	V	D D M I K E A D L D G D G M V N Y E E F F V T I L T S	
UniRef90_D8RB08	V	R A I M E S A D V D G N G T I D Y L E F F I S	
UniRef90_W5JVV7	L	Q D M I N E V D A D G	
UniRef90_C3ZEV7	V	D E M I R E A D I D G D G Q	
UniRef90_Q42479	I	K E I I A E V D T D R D G K I N Y E E F F V A M M K	
UniRef90_H2M0U7	T	K T F L K A G D V D G D G K I G A D E F F S A L V K A	
UniRef90_V7BDL4	I	K S L M E A A D I D S N G T I D Y G E F F L A	
UniRef90_W1PCB9	A	N D I F L J E V D T D K D G R I S Y E E F F L A M M K	
UniRef90_C3KII2	T	K A L M A A V D K D G D G K I G R E E F F C N I L K	
UniRef90_H6UM41	I	K M L M E V A D V D G N G V L D Y G E F F A A V	
UniRef90_A0A059A6K5	I	K E L I A E V D T D L D G R I N Y D E F F A A M M R	
UniRef90_UPI00046DFAE5	L	E D M I K D V D N D G Q I D Y S E F F A A M M R	
UniRef90_M7ZEH3	I	Q M L L E A V N T N G K G T L D Y G E F F V A V	
UniRef90_V5M2Y8	E	N Q L M K A A D V D G K G S I D Y L E F F I S	
UniRef90_G7JJ65	I	N A L I R D V D T D K D G K I S F D E F F V A M M K A	
UniRef90_M7Z2L3	V	D E M I K E A D C N N D G Q V N Y E E F F V R M M T	
UniRef90_UPI000394121C	L	Q D M V N E V D S D G N G T I D F D E F F L I M M	
UniRef90_R7U234	I	W E I S D V D T D K D G R I S Y K E F F E L M M K S	
UniRef90_M0SGM0	I	D E M V K E I D Q D N D G Q I D Y G E F F A M M R	
UniRef90_G7J2N7	L	N D I M R E V D T D K D G C I S Y E E F F V A M M K	
UniRef90_I1JWZ6	L	Q D M I N E V D A D G N G T I D F P E F F L T M M T	
UniRef90_V9PPY0	V	D E M I R S A D V D G D E L V R Y E E F F V R L L V S	
UniRef90_UPI00044199F1	L	K K M V E E V D A D G S G S I E F E E F F L G L L	
UniRef90_Q0IQB6	V	D Q M I R E A D L D G D G Q V N Y E E F F V R M M M A	
UniRef90_M0SR70	V	K Q M I A E M D K E G I G T I S F E N F F A I I	
UniRef90_UPI00038C29E2	V	N D I L Q E V D T D K D G K I S Y D E F F V A M M K	
UniRef90_I1NT14	L	H I L M D A G D V D K D G F L N Y G E F F V A I	
UniRef90_J7LC19	L	N D I I R D V D T D K D G R I S Y P E F F V A M M K A	
UniRef90_S5DRG5	V	D E M I R E A D V D G D G Q I N Y E E F F V K V M M A	
UniRef90_B1NDP5	L	Q A I I E E V D S D K S G H I D Y T E F F I A	
UniRef90_V4YZ12	V	D E M I R G A D T D G D G K V N Y E E F F V R V L K G	
UniRef90_F7C0H0	I	K E V I A D A D S D N D G R I D Y S E F F V A M M R	
UniRef90_K7U3A7	I	S A I I H D V D T D K D G R I S Y D E F F A T M M K A	
UniRef90_B9SUF1	L	R D M I K E A D S N G D G E I D I E E F F I S L M K	
UniRef90_J9HMV5	L	N D M I S E A D K N G D G Q I D Y E E F F V Q M V	
UniRef90_Q69HQ7	V	D E I I A E V D I D G D G Q I D Y E E F F V K M M T	
UniRef90_A0A016SE61	V	M E M M R E G D L N N D G M I D F D E F F M R M M R G	
UniRef90_U6GNE8	V	D E L I K D A D T D G D G R I E Y E E F F V Q M M	
UniRef90_W4Z066	L	Q I L M E A A D V D G D G T L N Y G E F F V A V	
UniRef90_UPI00042B21BC	I	D E M I R E A D T D G N G T I D Y E E F F V R L M	
UniRef90_B8MH95	V	K Q A L R E A D A D G D G E I S F K E F F V S L M R	
UniRef90_A0A023B654	T	K A F L N A G D S D G D G K I G V D E F F Q A L V K	
UniRef90_Q28HK5	W	D E V I R E V D A D G N G E I D F E E F F S T M M E	
UniRef90_J9IGI9	T	S T F L K A G D T D G D G K I G A D E F F T A L V K	
UniRef90_Q6ITU9	I	K Q L M D A A D I D N N G T I D Y T E F F I T	
UniRef90_UPI0002C31E34	L	K N L I S Q F D S D G D G E I S F E E F F M A V V K	
UniRef90_F7HMI0	I	C D I M E A A D T D T D V T I N Y E E F F I A	
UniRef90_W5EZP7	V	K D L I R D I D T D K D G R I S Y Q E F F E S M M I S	
UniRef90_I1QQE2	L	Q D M I N E V D A D G N G T I D F P E F F L T M M	
UniRef90_K1PYA6	L	Q Q M I Q E V D A D G N G E V D F E E F F L A M M K	
UniRef90_A7T043	L	Q G M V N E I D G D A N G T I D F P E F F L G M M	
UniRef90_UPI0002C45647	L	D E T I N E I D Q D N D G R I N Y A E F F A M M R	
UniRef90_K7N432	V	Q R L L N D I D L D G N S K I D Y E E F F L A	
UniRef90_A8J159	L	D E M I A E I D T D G S G T V D F D E F F M E M M S G	
UniRef90_A0A016T2F8	L	E E I M R D V D S D G S G A I D Y T E F F I A	
UniRef90_C5LDS5	L	R D M I R E L D A D G S G T V D F K E F F L T M	
UniRef90_R7USZ7	T	X F L A A G D S D G D G K I G V D E F F Q V L V K S	
UniRef90_UPI000392E827	L	R E A F R V F D K N G D G F I S S S E L R H V M T	
UniRef90_T1JDJ6	I	E D A I K L A D S S G D G Q V D Y D E F F I N F V	
UniRef90_C1N8S7	L	N V M L R E A D T D G D G E V N Y E E F F V K M L	
UniRef90_S2JU87	V	Q R V I D I F D T D G N G E V D F K E F F I E	
UniRef90_M4AUT9	L	K M I M K M V D T D G D G S I S F Q E F F L A A L	
UniRef90_UPI0003F0E12C	V	K M L M D A A D T D G N G T L S C E E F F V T L	
UniRef90_X2D2M1	I	K D L L N D V D L D K D G R I S F G E F F K A M M K	
UniRef90_V7AGG9	I	K D L L N D V D L D K D G R I S F G E F F K A M M K	

1

10 20 30 40

UniRef90_G9NJ31 S D P E I Q Q M I D E V D G R G V V D F E D F L S M E K P D Q D S E Q

UniRef90_L8G185 T E Q E L G E M I A D T D G N G Q I D F S E F L T M M A R R R M S E D D

UniRef90_W5FY99 A L T G E Q M V

UniRef90_R8BMW6 N P T D E E L H D M I S E V D I D G S I D F N E F V E M M A R K G D I E E

UniRef90_C5YHJ6 V P E S E I R M L L E A A D G N G T L D D C D E F V T V L H L K K M S N E D

UniRef90_B4LDN2 T E S E L Q A M I N D L D G N G S I D F E E F V S A M M A K R A N E D

UniRef90_UPI000440A435 L F D K D G D G T I N S H E L G T V M R S L G Q N P A

UniRef90_A0A022QB08 N P S E K E L R D M L N E V D G N G T L D F D E F L N L M T A K E K M Q N

UniRef90_UPI0003C869E4 F G K D R E L G P E E L E E

UniRef90_K1PFG9 N P S E A E V T Q L I R E V D I D G S V E F S E F I A M F E R H R N T E E

UniRef90_UPI0002C551F0 T S L S D K D I K M L P T D M R H H G S F D Y L K F L E Y M Q K S G Q L E S

UniRef90_Q5BKL4 L S A K D I D A A L S S V S A A E S F Q H K S F F D K C G L T G K S N D

UniRef90_A0A023B9C5 N P T E A D L Q E M V A E V D E N G V I R F K D F L N L M V R K M D T E E

UniRef90_B4NJC0 M S E L T E E Q I A

UniRef90_K4C7G7 S D L G E S D L K A L M K D F D N S G T I D Y G E F I A A T L H K M E R E E

UniRef90_UPI00032AD711 L S P E Q V A

UniRef90_Q1W3B0 L N E E Q I V

UniRef90_UPI0002C330ED Q L D E S D I G

UniRef90_C5KM11 F M G S K L T T M E E T K

UniRef90_A0A023B173 M A A E A L T E D Q I A

UniRef90_UPI0002B49EED A L T E D Q I A

UniRef90_V4U4X4 S A S D V K R M I A D A D G N G T V E Y N E F I R M M N R Y S E P D A

UniRef90_U6JKA7 N L P N E Q R D

UniRef90_F6HYQ9 L F D K D D S G T I S V D E L G A I M L G Q K P S Q Q

UniRef90_X8JCU5 N S D M V L E E V L K E V D T A G T I D Y T E F I A A C L H Q S H R E E

UniRef90_U6GUG5 N P S D T E L T Q D M V N E V D A D G T I D F N E F L N L M A V K G D A E E

UniRef90_L2G7Q7 N P T E A E L Q D M I S E V D A D G T I N F P E F L T M M A R K M K G E E

UniRef90_M0RCJ6 T K A D L Q D L M A D L D G D G T I D F P E F L C V M A L T D D Q I T

UniRef90_P25071 N P T E Q E I Q E M I N D L D G N G Q I E F P E F C V M M K R M M K E T D

UniRef90_A0A016TEN0 N V H D T D V D M L M E D L D G N G T L D C K E F V T V S I H L K K S E E

UniRef90_W5F5E9 F I V S H L I S E K E K E

UniRef90_W7X3W9 R D Q E V D E M I R A A D V D G D V R Y E V F M R L L Q L T E E Q V A

UniRef90_UPI0002C33919 R Q E V A

UniRef90_Q948R0 E I R

UniRef90_R0GP12 N P T E A E L Q D M I A E V D S N G T I D L Q E F L G L M A R K M K D E E

UniRef90_A9US90 L R P E E I E

UniRef90_C5XN41 D R D L R P E E I E G G G K V D F E D F V E L M G P K M L A E K

UniRef90_UPI0003EA934E H N P T E E E L R K E M I R E V D A D G T I E F G E F Q N L M S M K E E T E K

UniRef90_UPI0002B450AE S D A E V R E M I R D F D N S G T I N F P E F I S M M V Q K K R H A E

UniRef90_A4V9Q6 T S E E I Q E M V A D S D G D G T V D F E E F L I V M S S K M K E V E

UniRef90_A0A022S192 G M I E E V L E L V K I D I D G D G L V D Y P E F L A A T M K R N N Q K E

UniRef90_D0NJG4 K K E E I K K M I S D V D R D G S I D Y N E F L Q M M T Q K M D T K E

UniRef90_F2TWF8 K K E E L R K M I A D V D K D G S V D F Q E F L S L M T V K M D P R E

UniRef90_B9QDJ3 L T D E Q I Q

UniRef90_D2VGX1 I S E D E L K M L I A Q V D G D G V I S F Q E F L E A M V K R M K S E Q

UniRef90_E2RHU8 I E

UniRef90_B9SJ25 V R S R L K Q F S S M N K F K K K A L V V A K N L P P E D I E

UniRef90_W5F186 S I S K S Q M K

UniRef90_UPI000258E30D A F K G L N D A D V T A A L D G C K S A F D H K A F F K A C G L A A K S A D

UniRef90_Q3C2C4 V L L P E D K P Q

UniRef90_C1BR93 T A E E V A S M V A E M D G D G C I S L D E F A A L A A S A G G G E S

UniRef90_M0TLB3 M T E E Q I R Q M I A D V D K D G S I D Y E E F E H M M T A K R D S K E

UniRef90_B4FY36 N L P E K L R K A L I S D T D G D G K I S F E E F L T A I E K Y K R R A G

UniRef90_Q9JM83 T P S E L R D M V S D A D G D G T I E F A E F L A L M A R N R D G E E

UniRef90_I1IGP7 A L F D R D H N G Y M S L S E L K T M M K Q F N R T D

UniRef90_ROHE42 S L T E E D V E Q A M N I M D K N G Y I D Y T E F I A A C L Q S Y N K E N

UniRef90_U6HF5 L G D A V R A R L Q Q F S A M N K F K K K A L V V A R S L P V I E E L D

UniRef90_J914G4 V T D E E V D E I A A D V D G D G Q I N Y D F A K F V T L S R E E E K

UniRef90_K3YMU1 V T D P D V H M L I D A A D V D G S L N C D E F M V S V H L K K I S S D

UniRef90_V4L8Q0 H G L T T Q K K A

UniRef90_UPI0002C2EF5D E V A A M M N E L D R D G F V D L G E F A A F H G R G R E H A E

UniRef90_D7T2L0 S N T S K E E L G R I M E E I D K D G F I N V Q E F A A F V K A E T D P E N

UniRef90_Q5ZCK5 E V M D S D G D G S I D F K E F M E M F N V I E R K E T

UniRef90_Q9M7R0 E I H A L V A D A D G N G T V E F D E L L A Q L L L G P C R P E

UniRef90_V7B0V9 M S N H E K K

UniRef90_I1HP73 S L V S R K R M S A

UniRef90_A0C9G2 T E S P V

UniRef90_Q9LX27 S K E E K N

UniRef90_A5BNB3 L S E E Q R Q

UniRef90_Q22W39 K E E

UniRef90_A2DG97 L R E E Q K M

UniRef90_J0DZZ5 M A A T N L T F D Q I E

UniRef90_S8GC12 L V A R S L D I E Q I R

UniRef90_B5E054 D G D G D G R I S F P E F F R A M M E N A E L T E K

UniRef90_D8LG93 K K F G N K T E L T E E Q K Q

UniRef90_UPI0003EAAE8E F G Q D R E L R P E E M D

UniRef90_H2ZW00 G H V D F E D F V E L M G P K M I G I K

UniRef90_UPI000329E159 N P T E A E L Q D M I N E V D A D G K I D F E F L T M M A K K M K E E

UniRef90_UPI0003835691 D S F N Y K A F F A K V G L A S K S A E

UniRef90_O45209 S M E

UniRef90_V4LQM8 F I A S Q L N E Q E I A

UniRef90_P86741 N L S E D E I A G L M I D S D N S G Q I T Y E E L K V G L K K L Q E S

UniRef90_Q9C8Y1 D A N G K G K L D Y G E F V A V S L Q R M D N D E

UniRef90_A0E0F9 E S E V D T I L A D F D R N G Y I D Y S E F V T V A M D R K S N K D

UniRef90_W5FRW8 T Q E T L D

UniRef90_U5GCC9 F I G S K L T T L E E R K

UniRef90_Q5CJK3 E I M N R V G T G S D P E E

UniRef90_J3JWQ0 G A R A E E I A I M L T E V D G D G R I S V E A I M N R V G T G S D P E E

UniRef90_B3L0H8 N P S E E D L R T M V R D A D G D G F V D F D E F V H L N T E I A S V E

UniRef90_UPI00032AB5CE

UniRef90_D8REQ6

UniRef90_G9NJ31
UniRef90_L8GI85
UniRef90_W5FY99
UniRef90_R8BMW6
UniRef90_C5YHJ6
UniRef90_B4LDN2
UniRef90_UPI000440A435
UniRef90_A0A022QB08
UniRef90_UPI0003C869E4
UniRef90_K1PFG9
UniRef90_UPI0002C551F0
UniRef90_Q5BKL4
UniRef90_A0A023B9C5
UniRef90_B4NJC0
UniRef90_K4C7G7
UniRef90_UPI00032AD711
UniRef90_Q1W3B0
UniRef90_UPI0002C330ED
UniRef90_C5KM11
UniRef90_A0A023B173
UniRef90_UPI0002B49EED
UniRef90_V4U4X4
UniRef90_U6JKA7
UniRef90_F6HYQ9
UniRef90_X8JCU5
UniRef90_U6GUG5
UniRef90_L2G7Q7
UniRef90_M0RCJ6
UniRef90_P25071
UniRef90_A0A016TEN0
UniRef90_W5F5E9
UniRef90_W7X3W9
UniRef90_UPI0002C33919
UniRef90_Q948R0
UniRef90_R0GP12
UniRef90_A9US90
UniRef90_C5XN41
UniRef90_F7CKL6
UniRef90_UPI0003EA934E
UniRef90_UPI0002B450AE
UniRef90_A4V9Q6
UniRef90_A0A022S192
UniRef90_D0NJG4
UniRef90_F2TWF8
UniRef90_B9QDJ3
UniRef90_D2VGX1
UniRef90_E2RHU8
UniRef90_B9SJ25
UniRef90_W5F186
UniRef90_UPI000258E30D
UniRef90_Q3C2C4
UniRef90_C1BR93
UniRef90_M0TLB3
UniRef90_B4FY36
UniRef90_Q9JM83
UniRef90_I1IGP7
UniRef90_ROHE42
UniRef90_U6HXF5
UniRef90_J9I4G4
UniRef90_K3YMU1
UniRef90_V4L8Q0
UniRef90_UPI0002C2EF5D
UniRef90_D7T2L0
UniRef90_Q5ZCK5
UniRef90_Q9M7R0
UniRef90_V7B0V9
UniRef90_I1HP73
UniRef90_A0C9G2
UniRef90_Q9LX27
UniRef90_A5BNB3
UniRef90_Q22W39
UniRef90_A2DG97
UniRef90_J0DZZ5
UniRef90_S8GC12
UniRef90_B5E054
UniRef90_D8LG93
UniRef90_UPI0003EAAE8E
UniRef90_H2ZW00
UniRef90_UPI000329E159
UniRef90_UPI0003835691
UniRef90_O45209
UniRef90_V4LQM8
UniRef90_P86741
UniRef90_Q9C8Y1
UniRef90_A0E0F9
UniRef90_W5FRW8
UniRef90_U5GCC9
UniRef90_Q5CJk3
UniRef90_J3JWQ0
UniRef90_B3L0H8
UniRef90_UPI00032AB5CE
UniRef90_D8REQ6

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

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

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

	90										100																		
UniRef90_G9NJ31	V	D	E	M	I	R	E	A	D	L	D	G	D	G	K	I	D	Y	H	E	F	V	Q	M	M	R	G		
UniRef90_L8G185	I	D	S	M	I	R	E	A	D	S	N	G	D	G	Q	I	V	D	F	E	E	F	A	R	M	M	A	S	
UniRef90_W5FY99	L	N	D	M	M	R	E	V	D	M	D	G	N	G	N	G	S	I	D	D	F	Q	E	E	F	L	S	L	I
UniRef90_R8BMW6	I	D	E	M	V	R	E	A	D	K	D	G	N	G	S	I	I	D	Y	H	E	F	V	A	I	M	Q	G	
UniRef90_C5YHJ6	I	L	D	T	I	R	D	V	D	T	D	Q	D	G	R	I	L	S	Y	Q	E	E	F	E	L	M	M	K	A
UniRef90_B4LDN2	L	D	E	L	I	R	E	G	D	I	D	G	D	G	Y	L	I	S	N	Y	E	E	E	F	V	Q	L	M	
UniRef90_UPI000440A435	L	R	A	A	F	E	V	F	D	K	D	G	S	G	T	I	S	S	A	A	E	L	K	Q	V	M	Q	S	
UniRef90_A0A022QB08	V	E	Q	M	V	R	E	A	D	L	D	G	D	G	Q	I	V	S	F	D	E	E	F	V	K	T	M		
UniRef90_UPI0003C869E4	L	I	E	V	S	Q	H	V	K	M	R	M	G	D	G	R	V	D	F	E	E	F	V	E	M	M			
UniRef90_K1PFG9	L	D	E	M	V	R	A	A	D	M	N	G	D	G	Q	I	V	N	Y	K	E	F	A	H	V	L	L	A	
UniRef90_UPI0002C551F0	A	E	A	M	I	Q	A	A	D	T	D	G	D	G	R	I	V	D	F	E	E	F	A	R	M	M	A	S	
UniRef90_Q5BKL4	T	K	A	F	L	K	A	G	D	S	D	G	D	G	K	I	V	G	V	D	E	E	F	Q	A	L	V	K	A
UniRef90_A0A023B9C5	A	D	L	M	I	S	E	A	D	V	D	G	D	G	Q	I	V	N	Y	E	E	F	V	K	M	M	M	A	
UniRef90_B4NJJC0	L	Q	D	L	V	N	E	V	D	V	D	G	N	G	E	I	V	D	F	N	E	E	F	C	G	M	M	M	
UniRef90_K4C7G7	L	D	D	I	I	K	E	I	D	L	D	N	D	G	R	I	V	D	Y	G	E	E	F	A	T	M	M	K	
UniRef90_UPI00032AD711	L	K	A	L	I	A	R	V	D	Q	D	G	D	G	A	I	V	D	F	Q	E	E	F	L	A	E	M		
UniRef90_Q1W3B0	L	Q	D	M	I	N	E	V	D	S	D	G	N	G	T	I	V	E	F	A	E	E	F	L	N	L	M		
UniRef90_UPI0002C330ED	V	P	K	I	F	K	L	V	D	L	D	G	D	G	F	I	V	N	F	K	E	E	F	M	E	V	H	K	
UniRef90_C5KM11	L	D	E	E	I	M	K	E	V	D	S	D	G	S	G	A	I	D	Y	T	E	F	I	A					
UniRef90_A0A023B173	V	D	N	L	L	A	S	V	D	F	D	K	N	G	Y	I	V	E	Y	S	E	E	F	V	T	V			
UniRef90_UPI0002B49EED	I	Q	D	M	I	S	E	V	D	V	D	N	N	G	T	I	V	D	F	D	E	E	F	L	N	V	M		
UniRef90_V4U4X4	V	R	E	M	I	S	E	V	D	F	D	K	N	G	S	I	V	D	F	L	E	F	L	T	I	M			
UniRef90_U6JKA7	V	R	A	M	I	K	E	A	D	A	D	H	D	G	L	V	D	D	F	E	E	F	K	R	M	M	E		
UniRef90_F6HYQ9	V	K	M	L	I	E	A	A	D	M	D	G	T	G	T	I	V	N	C	D	E	E	F	V	T	I			
UniRef90_X8JCU5	L	D	E	A	F	K	V	F	D	R	D	G	S	G	Q	I	V	S	E	E	E	F	L	K	A	V	M	N	S
UniRef90_U6GUG5	A	A	A	E	L	H	E	A	D	A	D	G	D	G	K	I	V	N	F	E	E	E	F	C	G	L	M	R	
UniRef90_L2G7Q7	I	D	E	M	I	Q	M	A	D	K	N	D	G	T	I	V	D	Y	D	E	E	F	A	S	L	M	M		
UniRef90_M0RCJ6	V	D	G	M	I	R	E	A	D	M	D	G	D	G	Q	V	I	L	Y	E	E	F	V	Q	M	V	T	A	
UniRef90_P25071	L	Q	D	M	M	N	E	V	D	L	D	G	D	G	T	I	V	D	F	P	E	E	F	L	Y	L	M		
UniRef90_A0A016TEN0	V	D	E	M	I	R	E	V	D	V	D	G	D	G	E	I	V	D	Y	E	E	E	F	V	K	M	M		
UniRef90_W5F5E9	I	E	D	I	I	R	F	D	V	D	I	D	K	D	G	K	I	V	S	Y	E	E	F	E	L	M	M	K	A
UniRef90_W7X3W9	V	N	K	I	F	D	Q	I	D	V	N	Q	S	G	F	I	V	D	Y	T	E	E	F	I	T	A	V		
UniRef90_UPI0002C33919	L	Q	D	L	V	G	E	L	D	R	D	G	S	T	I	V	G	F	P	E	E	F	L	L	G	L	I		
UniRef90_Q948R0	L	A	E	M	I	R	D	V	D	V	D	G	N	G	T	I	V	E	F	A	E	E	F	L	A	L	M		
UniRef90_R0GP12	L	E	K	A	I	T	E	I	D	R	K	G	D	G	Y	I	V	N	F	E	E	E	F	V	E	L			
UniRef90_A9US90	I	K	K	M	I	Q	D	V	D	K	D	G	S	G	S	I	V	D	Y	N	E	E	F	L	I	M	M	T	
UniRef90_C5XN41	V	G	E	M	I	R	E	A	D	A	D	G	D	G	D	I	V	N	Y	A	E	E	F	V	K	V	M	M	A
UniRef90_F7CKL6	I	S	Q	K	I	S	G											D	F	E	D	F	V	E	L	M	M		
UniRef90_UPI0003EA934E	I	D	E	L	R	D	V	D	L	N	G	D	G	L	V	D	D	F	E	E	E	F	V	R	M	M	M	A	
UniRef90_UPI0002B450AE	V	F	H	M	I	S	E	A	D	L	N	G	D	G	H	V	D	D	Y	H	E	F	V	K	I	M	T		
UniRef90_A4V9Q6	T	E	A	I	K	T	V	D	T	D	R	D	G	K	L	V	N	Y	E	E	E	F	L	T	L	L	R		
UniRef90_A0A022S192	A	E	Q	M	I	N	E	V	D	L	D	G	D	G	L	V	S	Y	D	D	F	V	K	M	M	M	M	A	
UniRef90_D0NJG4	A	Q	E	V	I	N	D	V	D	A	N	G	D	G	V	I	S	F	E	E	F	V	A	M	M				
UniRef90_F2TWF8	L	Q	E	M	I	D	E	A	D	R	D	G	D	G	E	I	V	N	Q	E	E	E	F	L	R	I	M	K	
UniRef90_B9QDJ3	L	Q	E	M	I	D	E	A	D	R	D	G	D	G	E	I	V	N	E	E	E	F	I	R	I	M	R		
UniRef90_D2VGX1	L	D	D	M	I	K	Q	V	D	S	N	N	N	G	T	I	V	D	F	K	E	F	L	V	L	M	Q		
UniRef90_E2RHU8	L	D	T	M	I	Q	E	A	D	V	D	K	D	G	Q	V	N	Y	E	E	E	F	M	R	I	L			
UniRef90_B9SJ25	V	M	K	M	I	K	E	F	D	A	D	G	D	G	F	I	V	D	F	K	E	F	V	E	L				
UniRef90_W5F186	I	Q	M	L	L	E	A	G	D	I	D	G	N	V	L	I	D	D	T	D	E	F	V	T	V	L			
UniRef90_UPI000258E30D	L	H	T	M	L	Q	E	I	D	L	D	G	D	G	N	V	S	F	E	E	E	F	V	E	L	V			
UniRef90_Q3C2C4	T	K	A	F	L	K	A	G	D	S	D	G	D	G	K	I	V	G	V	D	E	E	F	A	A	M	V	K	
UniRef90_C1BR93	L	Q	E	M	I	N	E	I	D	Q	D	G	N	G	C	I	V	S	F	N	E	E	F	I	Y	L	M	T	
UniRef90_M0TLB3	C	R	R	M	I	G	G	V	D	A	D	G	D	G	F	I	V	G	F	E	D	F	V	R	M	M	M	A	
UniRef90_B4FY36	I	Q	D	M	V	Q	E	A	D	R	N	G	D	G	E	I	V	D	F	D	E	F	I	R	M	M	R		
UniRef90_Q9JM83	L	E	D	M	I	R	V	A	D	V	D	Q	D	G	K	V	K	Y	E	E	E	F	V	R	L				
UniRef90_I1IGP7	V	D	G	M	I	F	E	A	D	V	D	G	D	G	F	V	D	F	R	E	E	F	V	R	M	M	M	M	
UniRef90_ROHE42	F	R	E	T	F	S	A	F	D	K	D	G	D	G	S	I	T	A	K	E	E	F	V	T	M	L	R	S	
UniRef90_U6HXF5	F	K	I	A	F	A	F	D	K	N	D	D	G	S	I	V	T	T	M	E	L	K	Q	L	L	H			
UniRef90_J9I4G4	I	L	R	I	L	Q	D	V	D	I	D	G	N	K	L	I	V	D	Y	N	E	E	F	I	I	M	M	K	
UniRef90_K3YMU1	I	R	M	L	L	E	A	A	D	T	D	G	N	G	T	I	V	C	D	E	E	F	V	T	V				
UniRef90_V4L8Q0	I	R	N	F	F	R	A	D	V	D	G	D	G	H	L	V	N	Y	D	E	F	V	K	V	M	T	A		
UniRef90_UPI0002C2EF5D	I	Q	D	I	I	F	D	V	D	L	D	K	D	G	R	I	S	Y	E	E	E	F	K	A	M	M	K		
UniRef90_D7T2L0	L	E	Q	M	I	K	D	V	D	K	D	G	S	G	A	I	D	F	D	E	E	F	V	Y	M	M	T		
UniRef90_Q5ZCK5	C	E	R	M	I	A	S	V	D	V	D	G	D	G	C	V	G	F	E	E	E	F	K	K	M	M	M	A	
UniRef90_Q9M7R0	C	V	E	M	I	K	S	V	D	S	D	G	D	G	Y	V	S	F	E	E	E	F	K	K	M	M	T		
UniRef90_V7B0V9	C	K	K	M	V	M	G	V	D	G	N	G	D	G	F	I	D	L	N	E	E	F	M	R	M	M	M	S	
UniRef90_I1HP73	L	T	D	M	M	R	E	A	D	T	D	G	D	G	S	I	S	F	E	E	F	T	A	I	M				
UniRef90_A0C9G2	V	E	N	L	F	Q	Q	A	D	V	N	G	S	N	Q	I	D	Y	T	E	F	I							
UniRef90_Q9LX27	L	I	Q	M	I	Q	K	M	D	A	N	G	D	G	C	V	D	I	N	E	E	F	E	S	L				
UniRef90_A5BNB3	L	A	Q	M	I	E	K	I	D	V	N	G	D	G	C	V	D	L	D	E	F	R	A	L	Y	E	S		
UniRef90_Q22W39	V	D	K	I	L	T	V	D	K	N	Q	S	G	E	I	V	D	Y	S	E	W	V	A						
UniRef90_A2DG97	I	R	R	M	I	S	D	V	D	T	D	G	T	G	A	I	S	F	A	Q	F	L	Q	M	M	T			
UniRef90_J0DZZ5	L	N	A	M	F	N	A	A	D	K	D	K	D	G	N	I	D	L	D	E	F	L	S	I					
UniRef90_S8GC12	V	L	E	L	M	R	E	Y	D	K	Q	S	T	G	Q	I	D	Y	S	D	F	L	E	L	M	T			
UniRef90_B5E054	L	Y	D	M	I	D	E	I	D	L	D	G	D	G	T	I	V	D	F	S	E	E	F	L	Y	M	M		
UniRef90_D8LG93	I	R	A	I	F	A	S	V	D	V	D	N	G	N	E	L	N	F	N	E	F	L	A						
UniRef90_UPI0003EAAE8E	C	A	R	M	I	A	A	Y	D	G	D	G	D	G	R	I	S	F	R	E	E	F	R	A	M	M	E		
UniRef90_H2ZW00	I	K	K	M	I	A	D	I	D	K	E	G	T	G	T	V	D	F	N	D	F	L	G	M	M	T			
UniRef90_UPI000329E159	L	E	I	L	S	Q	I	N	M	N	L	G	G	H	V	D	D	F	E	D	F	V	E	L	M				
UniRef90_UPI0003835691	L	E	D	I	L	R</																							

UniRef90_F6T4Y8
UniRef90_G1MGQ8
UniRef90_T1EMD1
UniRef90_F6RE5
UniRef90_H3GSU4
UniRef90_V4S5K7
UniRef90_UPI0003C91C85
UniRef90_UPI000185E7B9
UniRef90_D0U6N4
UniRef90_Q7Q560
UniRef90_U6M2A7
UniRef90_R7TB67
UniRef90_A8HSJ3
UniRef90_J9EMA3
UniRef90_UPI0001A63D18
UniRef90_K3WB06
UniRef90_UPI0003B62A5C
UniRef90_UPI0004626A66
UniRef90_C1KUF7
UniRef90_K1R028
UniRef90_A9PFE1
UniRef90_UPI00042B5121
UniRef90_G0R2Y8
UniRef90_Q5CP93
UniRef90_V7CQX7
UniRef90_E5G7H1
UniRef90_A0A026X4F6
UniRef90_C5XZA8
UniRef90_A0E457
UniRef90_B9IC08
UniRef90_W7HIN4
UniRef90_A0C454
UniRef90_G6CIY3
UniRef90_B4NYF5
UniRef90_B6TJ23
UniRef90_M0U2E5
UniRef90_K1Q5C4
UniRef90_V9KNNM0
UniRef90_M1CVQ7
UniRef90_K7KR18
UniRef90_G0P5R9
UniRef90_UPI00032A9388
UniRef90_J9HJX6
UniRef90_C3ZXF1
UniRef90_B4LTA1
UniRef90_UPI00046B24D9
UniRef90_I3JQE7
UniRef90_X6MUI2
UniRef90_C6TAV2
UniRef90_UPI00038EC618
UniRef90_UPI0003292B10
UniRef90_A0BIX5
UniRef90_S9URM1
UniRef90_M3Z116
UniRef90_G0UCK0
UniRef90_G3NJM6
UniRef90_I115R2
UniRef90_V9PPG9
UniRef90_C1MHP2
UniRef90_S8C790
UniRef90_UPI0003AF7295
UniRef90_H3APB9
UniRef90_D2DGW3
UniRef90_G7Y670
UniRef90_UPI0003AF7AF9
UniRef90_F6HLP0
UniRef90_UPI0003AF4CD1
UniRef90_Q7QCA9
UniRef90_G1XIL3
UniRef90_I3M9N6
UniRef90_A0BUS3
UniRef90_H3A6L5
UniRef90_D8TVN3
UniRef90_R7T332
UniRef90_F2E258
UniRef90_S9WQS8
UniRef90_M0Y8M9
UniRef90_A7T044
UniRef90_A5C3R8
UniRef90_UPI00032AA3D4
UniRef90_UPI0002B440B6
UniRef90_Q5AYR4
UniRef90_B9T4V6
UniRef90_B7PHD3
UniRef90_G7YG42
UniRef90_K8Z3S0
UniRef90_K1R336
UniRef90_I1K183
UniRef90_UPI0000D9ECC7
UniRef90_A9TF81
UniRef90_UPI0003338388
UniRef90_M2MJP0

1

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

UniRef90_F6T4Y8
UniRef90_G1MGQ8
UniRef90_T1EMD1
UniRef90_F6RRE5
UniRef90_H3GSU4
UniRef90_V4S1K7
UniRef90_UPI0003C91C85
UniRef90_UPI000185E7B9
UniRef90_D0U6N4
UniRef90_Q7Q560
UniRef90_U6M2A7
UniRef90_R7TB67
UniRef90_A8HSJ3
UniRef90_J9EMA3
UniRef90_UPI0001A63D18
UniRef90_K3WB06
UniRef90_UPI0003B62A5C
UniRef90_UPI0004626A66
UniRef90_C1KUF7
UniRef90_K1R028
UniRef90_A9PFE1
UniRef90_UPI00042B5121
UniRef90_G0R2Y8
UniRef90_Q5CP93
UniRef90_V7CQX7
UniRef90_E5G7H1
UniRef90_A0A026X4F6
UniRef90_C5XZA8
UniRef90_A0E457
UniRef90_B9IC08
UniRef90_W7HIN4
UniRef90_A0C454
UniRef90_G6CIY3
UniRef90_B4NYF5
UniRef90_B6TJ23
UniRef90_M0U2E5
UniRef90_K1Q5C4
UniRef90_V9KNM0
UniRef90_M1CVQ7
UniRef90_K7KR18
UniRef90_G0P5R9
UniRef90_UPI00032A9388
UniRef90_J9HJX6
UniRef90_C3ZXF1
UniRef90_B4LTA1
UniRef90_UPI00046B24D9
UniRef90_I3JQE7
UniRef90_X6MUI2
UniRef90_C6TAV2
UniRef90_UPI00038EC618
UniRef90_UPI0003292B10
UniRef90_A0BIX5
UniRef90_S9URM1
UniRef90_M3Z116
UniRef90_G0UCK0
UniRef90_G3NJM6
UniRef90_I115R2
UniRef90_V9PPG9
UniRef90_C1MHP2
UniRef90_S8C790
UniRef90_UPI0003AF7295
UniRef90_H3APB9
UniRef90_D2DGW3
UniRef90_G7Y670
UniRef90_UPI0003AF7AF9
UniRef90_F6HLP0
UniRef90_UPI0003AF4CD1
UniRef90_Q7QCA9
UniRef90_G1XIL3
UniRef90_I3M9N6
UniRef90_A0BUS3
UniRef90_H3A6L5
UniRef90_D8TVN3
UniRef90_R7T332
UniRef90_F2E258
UniRef90_S9WQS8
UniRef90_M0Y8M9
UniRef90_A7T044
UniRef90_A5C3R8
UniRef90_UPI00032AA3D4
UniRef90_UPI0002B440B6
UniRef90_Q5AYR4
UniRef90_B9T4V6
UniRef90_B7PHD3
UniRef90_G7YG42
UniRef90_K8Z3S0
UniRef90_K1R336
UniRef90_I1K183
UniRef90_UPI0000D9ECC7
UniRef90_A9TF81
UniRef90_UPI0003338388
UniRef90_M2MJP0

	90	100
UniRef90_F6T4Y8	V D E L F R E A D T D G N S Q L S V K G F	
UniRef90_G1MGQ8	V D E M I R E A D T D G G G Q Q V N N R E E F V Q L I	
UniRef90_T1EMD1	L T E M L K S A D E D G D G G Q I N N Y K E E F V K M L T	
UniRef90_F6RRE5	V E E M I R S A D M D G D G Q I N N Y E D F V T R M M A	
UniRef90_H3GSU4	F D A L L E Q L D E D G S G K I D F S E F R A L V T	
UniRef90_V4S5K7	L V J A A F Q Y F D K D G S G Y I T V D E	
UniRef90_UPI0003C91C85	V Q R H L Q T F H G I D S S G S E I D F S T F L T V M H	
UniRef90_UPI000185E7B9	I D A L L T E V D L N G S D G G E I D F D E F M Y M M R	
UniRef90_D0U6N4	L R Q A F R L F D A D G D G G F I T R D D L K R V M R	
UniRef90_Q7Q560	L E Q M V Y E V D S D G D G R I E W E E F V A L M K	
UniRef90_U6M2A7	I K S T I R E V D R N G D G E I D F D E F M D M M R	
UniRef90_R7TB67	V Q A I I D E V D E N K D G K I D D Y K E F C K M V	
UniRef90_A8HSJ3	M Q D L F H A S D I D G S G Q I D D Y E E F I A A M	
UniRef90_J9EMA3	W N E L I M E V D A N G D G G E I S F L E F K V M M Q	
UniRef90_UPI0001A63D18	L D E W I R E N D I D G N G K I N F E E F Y S F V S S	
UniRef90_K3WB06	V R E L I Y Q M D R N D D G K I D D L E E F T R M L Q	
UniRef90_UPI0003B62A5C	L S Q Q I C D L Y F T G G G R V D D F E D F V E L M	
UniRef90_UPI0004626A66	V D E T L K D V D L N G D G L V D D F E E F V R M M	
UniRef90_C1KUF7	T K T L L A A G D K D G K I D D G A D E F S T L V	
UniRef90_K1R028	V E D M I A E L D K N G N K K I E Y D E F E K F M	
UniRef90_A9PFE1	V Q S T M Q E F D K D G D G Y I D L D E F V D F I Q	
UniRef90_UPI00042B5121	L T G M I K E A D T D G D G R I S F F E F A Q A I T S	
UniRef90_G0R2Y8	I Q E Y Q Q E I D Q E G T G K L D F P E F L A L M	
UniRef90_Q5CP93	I R A A F N K M D I D G D G K L S V N E F E K V L	
UniRef90_V7CQX7	C H S M I K S V D S D G D G D V N F E E F K R M M	
UniRef90_E5G7H1	I E S L M K D G D K N N D G R I D F D E F L K M M E G	
UniRef90_A0A026X4F6	L Q E I I S E V D E D G S G E L S F E E F C T L	
UniRef90_C5XZA8	C A E I V A A V D R D D D G V I S F D E F K A M M	
UniRef90_A0E457	W E N V F M E L D T N G D G E V S F Q E F T S L I	
UniRef90_B9IC08	C R R M I K G V D K D G D G F I D F H E F R S M M T	
UniRef90_W7HIN4	I K D M I R E A D K D G N G T I D F E E F K A I M K	
UniRef90_A0C454	W K L F L E E T D G N N D G K I S Y E E F S K L I M S	
UniRef90_G6CIY3	L D M M I E E I D S D G S G H I D F D E F M E V M T G	
UniRef90_B4NYF5	T E E I R E Y D L D G Q D N H T N F E E F T N M M T	
UniRef90_B6TJ23	V R E M I E A A D E D G D G E I D L E E F M K M M K	
UniRef90_M0U2E5	L T E M M R Q A D T D G D G V I S F T E F A A V M	
UniRef90_K1Q5C4	A E Q M M K I A D S N K D G L I D Y K E F S K F I T	
UniRef90_V9KNM0	I K K M I A E I D K E G T G K I G F N D F M V A I T	
UniRef90_M1CVQ7	L V N M I R E V D S D G D G F I D L Q E F L E L	
UniRef90_K7KR18	C R R M I S G V D G D G D T I D F E E F R V M M M	
UniRef90_G0P5R9	M M E I I H D V D L D G N G Q V E F P E F C V M M K	
UniRef90_UPI00032A9388	C K K M I G K V D V D G D G L V D Y K E E F V Q M M K G	
UniRef90_J9HJX6	I N E I Y F S F D Q N K D G R I S Y A E L C Q	
UniRef90_C3ZXF1	L K E M L H D I D T D G N G T I D F D E F V A I M	
UniRef90_B4LTA1	I K N M M D E I D K D K T G R I A F N D F L H L M R	
UniRef90_UPI00046B24D9	L E V I I Q R L D M D G D Q V D F E E F V T L L	
UniRef90_I3JQE7	V N A I F S L A D I N K D G K L H Y A E F C R L	
UniRef90_X6MUI2	A K K M L A N A D L N K D G T I D F N E F K A V W Q	
UniRef90_C6TAV2	A V K A F R V M D T D E D G F I D F K E F M K M	
UniRef90_UPI00038EC618	L D A M I Q L A D V D K D G K V N Y E E F M R T I	
UniRef90_UPI0003292B10	V D K T I I L D T D G D G K I S F E E F C A V V	
UniRef90_A0BIX5	W E S L M A E V D K N G D G L L S L K E F K D M M	
UniRef90_S9URM1	L T E M L N E A D L D L N G V I D F P E F L T L I	
UniRef90_M3Z116	I K K M I A E I D K E G T G T I T F E D F F A I M	
UniRef90_G0UCK0	L R I M L N E A D L D A N G V I D F P E F L T L V	
UniRef90_G3NJM6	I D E L M K D G D K N A D G M L D F D E F L K M M E	
UniRef90_I115R2	L E E T I L E V D Q N N D G K I D Y A E F V V M M Q S	
UniRef90_V9PPG9	L C K I V E Q V D E N N S K T I E F N E F L A L M A S	
UniRef90_C1MHP2	V E W L M K Q C D S D G D G Q I S F D E F V N L A K	
UniRef90_S8C790	I R I M I Q E V D S D G D G F I D L R E F I D L N T A	
UniRef90_UPI0003AF7295	L D E M L Q E V D L N G D G T V D F D E F V M M L	
UniRef90_H3APB9	I E E L F K D G D K N S D G K I D Y D E F L D F M R G	
UniRef90_D2DGW3	L D H M I A E I D T D G S G T V D F D E F M E M M T G	
UniRef90_G7Y670	L K H M I A Q V D V N G D G A L D F G E F L R A M T	
UniRef90_UPI0003AF7AF9	V E D L F R E A D I E P N G K V K Y D E F I Q K L T	
UniRef90_F6HLP0	L R D A F C F D T D R D G K I T A E E	
UniRef90_UPI0003AF4CD1	L D E I I E E V D E D G S G T I D F E E F L V M M	
UniRef90_Q7QCA9	I E D M I K E V D V D G D G R I D F Y E F V H A L	
UniRef90_G1XIL3	L Q A F F D R L D K N S D G Q I T F E E W R D F L	
UniRef90_I3M9N6	L D A M I R E A D V D K D G Q V N Y E E F V Q I L T	
UniRef90_A0BUS3	F L Q E T D H N Q D G K I S Y Q E F Q K L	
UniRef90_H3A6L5	L I E I S Q Q I K M R L G G R V D F E D F V I E L M	
UniRef90_D8TVN3	I E N L M R R V D F H N G R V D L S E F I T T L M	
UniRef90_R7T332	V Q D L I M A V D D D G N G Q I E F D E F A A M M	
UniRef90_F2E258	C S R M I R S V D A D G D G S V N F E E F K K M M	
UniRef90_S9WQS8	L R A M I E E F D K D G D G E I N Q E E F I A I M T G	
UniRef90_M0Y8M9	L A A M I A R I D A D G D G C V D V I E E F G E L Y R	
UniRef90_A7T044	L K D M I A E V D Q D D N G E I S F P E F L Q M V	
UniRef90_A5C3R8	A E A V V Q Q L D S D G D G L I S L E D F I R L M	
UniRef90_UPI00032AA3D4	V N R M M A E L D Q N G D G Y I D L K E F S E L H K	
UniRef90_UPI0002B440B6	C G R M I R D V D E N G D G F V C F A E F V R M M E	
UniRef90_Q5AYR4	V D K T I M E A D K D H D G K I S F E E F T D M V E S	
UniRef90_B9T4V6	C V A M I Q V F D T D G D G V L D F H E F H Q M M	
UniRef90_B7PHD3	V D E M I R E A D R D G D G Q I N Y D E F V A M M T S	
UniRef90_G7YG42	I T E W I R K L D T N G D G R I S F G E F C T F M E	
UniRef90_K8Z3S0	A R E V L G D I D R N G D G V I S L D E F K N M M E A	
UniRef90_K1R336	L Q D M M R E A D V D G D G K I N Y E	
UniRef90_I1K183	L T E M I K E A D T D G D G V I S F T E F A T I M	
UniRef90_UPI0000D9ECC7	L I E L G Q Q I R M N L G G R V D F D D F V I E L M T	
UniRef90_A9TF81	L D A F V Q Y L D R D K N G K I T F N E W R D F L	
UniRef90_UPI0003338388	V D E L F R E A N I E P N G H V K Y D E F I H K I T	
UniRef90_M2MJP0	L D R F F S Y I D K N H D G S I D Y G E W R D F L	

UniRef90_UPI00046DA20A 1 10 20 30 40 E E Q M A
UniRef90_K3WUB8 V K K A E L R Q M L A D I D K D G T I N Q D E F I E M M M N A R D P R E
UniRef90_W4H6V9 L K N A D L Q A I F R S V D G D G I I E Y S E F R A F V D R A E T Q
UniRef90_Q5BBA7 A D T K S N G L V E F P E F V A L V S T T P Y T E E
UniRef90_E9BU94 S Q E E V M L M L S E V D G N G S I S L E A L L S R V I G P V C G P A A
UniRef90_Q9LQK4 L P V S D V L K L L F D R N G D G T I D F R E Y L S V L C N P A N T E E
UniRef90_J4DPZ1 N V S D G E L Q D M I N E S D G T G S L D I E E F V N T L L R K T D R P D
UniRef90_M5WA96 L F D N N R D G S V D M R E I T C G F S K T S H G D E
UniRef90_UPI00038910B9 L P V S D V L K L L F D R N G D G T I D F R E Y L S V L C N P A N T E E
UniRef90_B4KQ47 N V S D G E L Q D M I N E S D G T G S L D I E E F V N T L L R K T D R P D
UniRef90_UPI0003EE027F L F D N N R D G S V D M R E I T C G F S K T S H G D E
UniRef90_Q235N6 S D E E V A R M M T E L D G D G F I D I V E F R K F R G G D A D A D A
UniRef90_A0A022RLK4 E E V T R M M E E L D G D G Y I D L K E F G E L H N G G G D T K
UniRef90_I3SBS2 I P D K L H Q M I E D A N G D G F V D I D E F G A L Y Q D R E D P E E
UniRef90_UPI0002C33948 S E D Q L D S L I Q K A D R N G L I E F S E F V A L V A K C P Y N E E
UniRef90_F6HEE8 L S K R E V L D I I H E Y D T D D R I T Y E N F F Q A V G E K R D P L D
UniRef90_Q6BLB8 K K E E I H K M M A E I D K E G T M N F E S F L T V I M R E K D E K E
UniRef90_F6SFR4 K K E E I H K M M A E I D K E G T M N F E S F L T V I M R E K D E K E
UniRef90_UPI0002C32EED D D M L K R I M E E V D G D G K I Q Y N E F R K F V E N A E R
UniRef90_J9NFA3 M T E E Q I N K M I E D V D K D G S I D Y D E F E Y M M T A K R D T K E
UniRef90_UPI0002B4CB1E I S L L L N Q I D G N G S V E F D E L V V A I L P D I N E E E
UniRef90_C6TB41 L F D N N R D G S V D M R E I T C G F S K T S H G D E
UniRef90_Q9LI84 L F D N D K V G R I D V R E F L T A L S N F A E K E E
UniRef90_S7N2Z1 A G L S A L Q I K D L L K D A D R D G R V N Y Q E F R R Y M D D K E L
UniRef90_E8ZA60 E K Q I D R I M E Q C D F N G S I E Y N A F L S I M I R Q E L S E K
UniRef90_A0A024TF60 T Q E E V K S M L S D L D G D G F I D F K E F M E A H K K G G G R T M
UniRef90_E6NU02 D I G Q M V R I F Q A M D S I S Y N D F L A A M L K P Q L E K E
UniRef90_A0CDT9 A V V D E D G G G D V D F Q E F L S V F S V H G N K E E
UniRef90_UPI0003C17DDD V N L S D E Q R Q
UniRef90_V4SBR8 L N E E E L A
UniRef90_V4SC13 L K K A E V L K L L R D H D E N G R M S F E S F Q R I T M L T R D P L D
UniRef90_F0V7N0 V K K A D V L K L L K D Y D A T G K I T F E D F V T D W L L E R D P H E
UniRef90_B6K527 D T F A A I A S A S K G G R I G I E E F A E Y L K L P I S D
UniRef90_I4YCZ9 L A A L K N A D L K D I I S A V D G D G K I Q Y E E F R V F V E A A E R Q
UniRef90_H3GQS6 L A K E K G V
UniRef90_M0SZQ1 S M E
UniRef90_B6U4W9 H G F S K E Q V D
UniRef90_G7E8J5 L S G D D L Q K T C E S F S A P D S F C P K K F F Q M C G L S K S P Q
UniRef90_O15182 N K E E I K N M M D E I D K D G R I A F N D F L H L M R L K M D A I E
UniRef90_UPI000392EF5C M S K E D V R E M M F N V K A K G E I D F N E F L E M V G D S R D I Y E
UniRef90_G2RHJ0 T E L D L L K I V K A G D K D G Q L D F E E F V H Y L Q D H E K
UniRef90_A0A024UX31 L A E E K V N Q I L D D L D H S N L I D Y S E F I A M K F E K L V S I E
UniRef90_UPI00042B10E8 T Q L S D A L L Q E L I E R I D K D G S I D V A E F M A F V G L A Y D P A T
UniRef90_UPI00022F3540 D A D N N G H I D F K E F L L A I G V S Q S S E E
UniRef90_A9SIM5 M S H E E A E A V I K D L D A D G D L D F E D F L Q L M G R G G D D E
UniRef90_Q4S886 D T N G D G S I D F R E F I C A L S V I T S R G E Q
UniRef90_B4KH71 G N E G L T Y E D F M A L F G L V Q D E E E
UniRef90_C3XPY1 N P S E E D I R K I Q S E I D G D K R I S F E E F L P L L E R V K D T E A
UniRef90_M7C4U6 A L L Q Q A E L S G H
UniRef90_A0A016UJX7 D M M K S M D Q D G N G V I D Y T E F I T A A I D K V A N K K
UniRef90_UPI00035066A0 V V K Y Q L G Q Y E L K
UniRef90_I3N5V3 S K L K D A R V A E I L Q A I D S D G L V D F T E F V V A T H D S D K W E Q
UniRef90_A0D310 L T E A E V Q Q L M E D V D G N G T I D Y I E F I T A T M H R H K L E D
UniRef90_T0RSH2 K K A E V L K W L K D Y D K S G R L E F D D F M R I V A L A R D P I D
UniRef90_B7PX39 T E E E V T D L M N E V D I D G Q I E F N E F I S L M S R Q S K S E Q
UniRef90_I1PGN4 T E A E L Y D L D D L D G D G E I D F L E F Q Q M I A K R M D K E E
UniRef90_UPI00046DA799 L T K D K V K A V M K D M D T D G S V E F D E F K D L M K E K R N S E E
UniRef90_Q16982 I P E K E L G Q M I D K I D G D G C V D I E E F I M V E D E D E I G E E
UniRef90_UPI0001B63782 S R E I L E
UniRef90_A9VD02 L T F N H F I E I I K Q E R N S K V
UniRef90_K3W8N0 S K L V E D E V E R I I D L I D V N G M I D F S E F C M A A M N Q E K S V Q
UniRef90_J9J9N6 D T D N S G G I D F E E F L H L A T A K K D T R E
UniRef90_K3WVM9 V S K A D V I K I M K D Y D R E D T I S Y D D F C E V M T L E R D P L D
UniRef90_V7B7N2 N P T Q A Q L K T I I A E E N L T A A F D F Q Q Y I T F Q V L T P E D K I
UniRef90_M4DML1 N P T E S D V K K C T H Q L K P D E R I S F E V F L P I Y Q R S G D T A D
UniRef90_V4UMU8 L P S A N V N G A F D Q M D H D Q R I T F E E F S N Y V R K R R S
UniRef90_Q4F6W5 L S E E L N S L I R D P D H S G K I N F D G F A E I A S H F L E E D D
UniRef90_G0W4D0 L S E E L N S L I R D P D H S G K I N F D G F A E I A S H F L E E D D
UniRef90_B4MFA2 L T K D K V K A V M K D M D T D G S V E F D E F K D L M K E K R N S E E
UniRef90_J9IAW1 G I T Q D E I E
UniRef90_A0A024FTI5 I P E K E L G Q M I D K I D G D G C V D I E E F I M V E D E D E I G E E
UniRef90_M4C9F7 S R E I L E
UniRef90_G3WS22 L T F N H F I E I I K Q E R N S K V
UniRef90_T2MJY7 S K L V E D E V E R I I D L I D V N G M I D F S E F C M A A M N Q E K S V Q
UniRef90_S4RXH1 D T D N S G G I D F E E F L H L A T A K K D T R E
UniRef90_A0E004 V S K A D V I K I M K D Y D R E D T I S Y D D F C E V M T L E R D P L D
UniRef90_A5ATQ9 N P T Q A Q L K T I I A E E N L T A A F D F Q Q Y I T F Q V L T P E D K I
UniRef90_Q3SDA6 N P T E S D V K K C T H Q L K P D E R I S F E V F L P I Y Q R S G D T A D
UniRef90_S4RZT2 L P S A N V N G A F D Q M D H D Q R I T F E E F S N Y V R K R R S
UniRef90_Q5CMP5 L S E E L N S L I R D P D H S G K I N F D G F A E I A S H F L E E D D
UniRef90_A0DF69 L T K D K V K A V M K D M D T D G S V E F D E F K D L M K E K R N S E E
UniRef90_B9RBR8 I P D Q E L F N M I H D V D G D G C V D I D E F Y Q S I M D E R D D E
UniRef90_P54357 V T E I E L K E M I N A V D E N G Q I D F N S F C R V M L M A E R E E
UniRef90_D2VKK4 L A D E E L D A T M D K I D G D G C V D V E E F G R L Y G D K H D E D E
UniRef90_U4UKM8 A A L S K Q L N G D G K T Q T N G R T M D S A E
UniRef90_W4W8W8
UniRef90_D8SFC8
UniRef90_UPI0002C33957
UniRef90_B4NCE6
UniRef90_M3WQU5
UniRef90_C5YTT8
UniRef90_D7G0S5

UniRef90_UPI00046DA20A E L R E I F R S F D G N K D D S I L T Q V E L G S L L R S L G V K P S H H Q
UniRef90_K3WUB8 E I M K I F F K L F D D D N N S D G A I V S F R N L K R V C A E L L G E T L T D E E Q
UniRef90_W4H6W9 D V G E L F L H M D S D N S G A I V D Y A E L L M K V L T D L D L D G R Q L T S A A M K
UniRef90_Q5BBA7 E E L W Q L F F K S L D R N Q N G S I V S D K S E L K K A A F S S K S G V T V L S N S K K
UniRef90_E9BU94 E E L K E A F S A F D V D C D G G S I T V D D L E Q V F S S S I G H K V L S K K K
UniRef90_Q9LQN4 Q L L R L F R L F D T A G S G R I T A A E L L A H S M A K L L G F H A L T V A E D
UniRef90_J4DPZ1 E E L V K E A F R D L F D T A G S G R I S A K E E L L N V F T A L G D G F D R C T L E E D
UniRef90_M5WA96 E E L R D A F E V F D S D H D G G K I S A E E L L N V F T A L G D G F D R C T L E E D
UniRef90_UPI00038910B9 T I L Q M A F K S L F D V D D D D G S I T E T N D F A C I L R S S L G G V P D L E D
UniRef90_B4KQ47 E D L K M A F S L I D K D R N G C I S T E N D L R K L F G S I G I Q P S D E E
UniRef90_UPI0003EE027F K L R F A F S I Y D I D K D G G F I S N G E L L F Q V L K L M V G N N L K D W Q
UniRef90_Q235N6 Y E L R E Q F K Q L D L N G D G L L T K E E L L K T A Y K R Q I Y S K K E N L S Q I N
UniRef90_A0A022RLK4 E L K E A F D M Y D K D K N G Q I S A S E E L H A V L R T L L G E K C S V K N D
UniRef90_I3SBS2 E L R E A F E M Y D L D K N G G L I S A K E E L H A V M R R L L G E K C S L G D
UniRef90_UPI0002C33948 D M R E A F N V F D Q N G D G F I T V E E L R S V L A S L G L K G Q G R T L E D
UniRef90_F6HEE8 E L R R A F K L F D D D G T G K I S L R N L R R V A K E L G E N L T D D E
UniRef90_Q6BLB8 E L R R A F K L F D D D G T G K I S L R N L R R V A K E L G E N L T D D E
UniRef90_F6SFR4 Q L L K A F K L F D D D G T G C I L L P E E L W E A L V K A G L E M D D E
UniRef90_UPI0002C32EED E L Y R I F Q A I D V E H N G C I L P E E L W E A L V K A G L E M D D E
UniRef90_J9NFA3 Q L F A L F R S I D K D G N G K L D K L E L Q T A F K N A G L T L S N R R E
UniRef90_UPI0002B4CB1E E Y Q D A F Q M F D K D G N G F I T T R E L K S L M R S L L G C N P T D S E
UniRef90_C6TB41 E L M K A F N T I D H D N G K I S A L D I K R I A K E L L G Q N F T D R E
UniRef90_Q9L84 Q L M E V F R S F D R D G N G S I T A A E L A G S S M A K M G H P L T Y R E
UniRef90_S7N2Z1 E L R E A F R Q M Y D T D G S G F I S K Q E L A M M R S L L P E V Y G Y M P S E V T E
UniRef90_E8ZA60 A L Q L C F Q M Y D T D G S G F I S R D E L A A M L R A L P E V Y P P D I T E
UniRef90_A0A024TF60 K L K F A F M V F D D D G N G V L S K M E L M K I K A N H M A S N E S E V S R K
UniRef90_E6NU02 E L Y R I F Q A I D V E H N G C I L P E E L Y D A L V K A G L E I D D E
UniRef90_A0CDT9 K E L E A F K Q F D I D N G L I K K Q N L E D V L G G L I I D E T H
UniRef90_UPI0003C17DDD E L K E A F T E F D K D K D G Y I S C K D L G E C M R T M G Y M P T E M E L I E
UniRef90_V4SBR8 D I Q S A F R T F D K N D G K I S A E E L L E M L R R L L G E S C S L E D
UniRef90_V4SC13 E L K E T F D F F D A D H D G K I T A E E L F G V F T K L G D G E L C T L D D
UniRef90_F0V7N0 D L L L V F H K W D A D R S G V I S L D D L R V L L G D R Y G N D I
UniRef90_B6K527 K L R F A F K I Y D I D K D G Y I S N G E L F L V L K M M V G T N L R D D Q L Q
UniRef90_I4YCZ9 E L R E A F D I Y D T D K D G A I D Y H E L K V S M R A L G F D L K K P
UniRef90_H3GQS6 L R R A F D F F D L D Q T S S I D K R E L S H V L R A L G H E F T S K P E
UniRef90_M0SZQ1 D L K D Q F H A I D V D K S G A I S L E E M R H A L A K D L P W K L K E P C
UniRef90_B6U4W9 E E L R K V F Q M F D K N G D G Q I T K K E L G S L A K N L G H I H I S D D E
UniRef90_G7E8J5 E E L R R A F Q L F D D D K T G K I D I R N L R R V A K E L G E N L D D D E
UniRef90_O15182 E I L K A F K L F D D D D S G K I S L R N L R R V A R E L G E N M S D E E T
UniRef90_UPI000392EF5C V L R E L F L F D N N G D G T I D F R E Y V I G L S I L C N P A N T E E T
UniRef90_G2RHJ0 L L Q L F R S I D R D K D G R L N K E E L Q A A F R R A G L S V P K R R
UniRef90_A0A024UX31 D V D Q A F S H F D A D N G S I S Y V E F S A A L T A L H L E A L T E T E
UniRef90_UPI00042B10E8 E M K E V F N S F D K N G D G K I S R D E L K S I L S A L L G S P P S S D E
UniRef90_UPI00022F3540 E F H A A F D R F D K N K D G H I S V D E L G D V M K Q L G K N L S E E S R
UniRef90_A9SIM5 D L R D Q F N A I D I D N G S T I T L E E M R E A L Q K D R P W V I K E S R
UniRef90_Q4S886 D I K K V F A L D N D G S G Y I E E E E L K F F L Q R F C P G A R V L T D E
UniRef90_B4KH71 D S L K A F S F F D D D R T G Q I S F A N L K R V A T E L G E N L T D E E
UniRef90_C3XPY1 E I K Q G F K M M D Y D D T G K I T V S N L K Q A C K D A G E R F T D R E
UniRef90_M7C4U6 E L K J A F R E L D R N G D G E I S S M E L K D A L L A L L G E Q V P L P E
UniRef90_A0A016UJX7 K L K F A F R I Y D I D R D G Y I S N G E L F Q V L K M M V G N N L K D S Q L Q
UniRef90_UPI00035066A0 K L R L V F K S L D K K N D G R I D A Q E L I V Q S L R D L G V K L S E Q Q
UniRef90_I3N5V3 K L R W Y F K L Y D V D G N G C I D R E E L L T I V Q A I R T I N P W S D E E F
UniRef90_A0D310 R I K L A F R L L D S N G D G Y I S K E E L E D N M G F L E P E I
UniRef90_T0RSH2 T V Q R A F R M Y D N D H S G S I V T P K E F Q A A L A S L Y C M D P L S D G D
UniRef90_B7PX39 R L K W A F R Q F D I N G D G K I D R N E M V K I V Q A L Y E M D D D T P E Q R
UniRef90_I1PGN4 E L R E A F Y V F D R D E D G Y V S A A E L W N V M R R L L G I E E G A R Y G D
UniRef90_UPI00046DA799 D L K K A F E M F E L E K G V I T P R S L Q R M L H R L G D S K S Y H
UniRef90_Q16982 K L R W A F S M Y D L D G N G I S R Q E M L E I V T A I M P E D E S T P E R R
UniRef90_UPI0001B63782 D L W E A F K V F D E N G D G Y I S A K E L Q M V L G K L G L V E G N L M D N
UniRef90_A9VD02 D Y I E G L R V F D K D G D G T I S A A E L R H V L C S L G E K L N D D E
UniRef90_K3W8N0 D V I S A C L A H F D G D G D G K I T T E E F S Q G M K A L A G F E D V A T S D
UniRef90_J9J9N6 N I I S A F Q L I D L D N N G T I T I D E L K Q C F D A T G D R K E E S L
UniRef90_K3WVM9 K F K A C F K Q I D L D A S G V I D Y D E F F E F I D E T K T P F S
UniRef90_V7B7N2 E V R Q L F N K F D K N G D G K I S I T E L R D M L G T L G S K T T K E E
UniRef90_M4DML1 R S R A A F E K F D V D R D G F I T P E E L R L Q T G L K G S
UniRef90_V4UMU8 H L Y K A F Q H F D K D N S G
UniRef90_Q4F6W5 E L R K A F T L F D T D K K G K I S L R D L R R V A K E V G E T L D D D E
UniRef90_G0W4D0 E L L E A F K V F D K N G D G H I S A D E L K Y V L N S L N G E K W T D S E
UniRef90_B4MFA2 N L M A I F K L F D R D E D G L I A P I E M R N V M F N L G E R C T D E E
UniRef90_J9IAW1 E L R R S F R I Y D E D D T G K I S F A D L K R V A Q E L K M G D V L S D D D
UniRef90_A0A024FTI5 E L R E A F N L F D T D G S G T I D P K E L K S A M Q S L G F E A K N Q I
UniRef90_M4C9F7 D M K E A F N V F D K N G D G Y I T V D E L K A V L S S L G L K Q G K T L E E
UniRef90_G3WS22 D L Q E A F N K I D T D N S G Y V S D Y E L Q D L F K E A R L P L P G Y K V L R E
UniRef90_T2MJY7 D I L G A F K R I D Q N N D G Y L D H Q E L M E I L T K K G D R M T K A E
UniRef90_S4RXH1 E L L D A F R K I D R N S D G F I T C Q D L R V L T T R G E R M T E K E
UniRef90_A0E004 R I E Q A F K I F D Q N G D G F I S K Q D L E A I M L T T R G E H L E D E V
UniRef90_A5ATQ9 E L K Q V F R H F D S D G D G K I S A L E L R A Y F G S I Q E Y M S H E E
UniRef90_Q3SDA6 Q I Q K V F R N L Y D W N G E G R I T W D E L K R R V A Q D L G E E M T D E E
UniRef90_S4RZT2 E V L K A F R L F D E G E S G R I G V R D L R R V A R E L L G E T V S D E E
UniRef90_Q5CMP5 K I L G N F Q S L D K D N D G V L I S E L L G S G L Q K L G I S S R E
UniRef90_A0DF69 Q L R D A F K V L D K D N T G Y I N R E D L I F G L K E L K L D E I Q I E K Q
UniRef90_B9RBR8 D F R I E G L R H F D K D A S G Y I S S A E L R H L L T T L T S I G E K L E P A E
UniRef90_P54357 E L R V I F S D L D K N G D G F I D M G E V S R G V S Q V F Q K N Y P L A S Q V
UniRef90_U4UKM8 E L K E A F R L Y D R E N G Y I T T G T L K E I L A A L D D D N L S R D
UniRef90_W4W8W8 E L R E A F R L Y D K E G N G Y I T T A V F R D I L H E L D D K L S P
UniRef90_D8SFC8 E L K E C F D L I D L D G S G A I D S D E L R T A F N V L G M H V K R S E
UniRef90_UPI0002C33957 D M K E A F G V F D Q N G D G F I T V D E L R T V L S S L G L K Q G R S M E D
UniRef90_B4NCE6 Q L K K F V K I F D K D G G C L N K E E L R Q A L T R T L G G E E I D V A I
UniRef90_M3WQU5 E F K E A F S L F D K D G D G T I T T K E L R T T M R S L G G Q Q R T A E D
UniRef90_C5YTT8 D M R E A F N V F D Q N G D G Y I T V D E L R S V L A S L G L K Q Q R T A E D
UniRef90_D7G0S5 H L Y T M F T E C D S D G S G G I S I E E Y V Y F C S R E G V P R S V

	90	100
UniRef90_UPI00046DA20A	L Q A L T R K V D T N H N G L V	E L S E F V A L V K
UniRef90_K3WUB8	M Q E M I D E A D R D G D G F I	N E D E F F R V M K
UniRef90_W4H6W9	L Q D L V L R V D K D K S G S I	D L A E F L A F V Q
UniRef90_Q5BBA7	L D E F F A D V D T N Q D G V I	T Y P E W R D F L
UniRef90_E9BU94	L Q S L L C E A D L D S N G V I	D F P E F L T L V A A
UniRef90_Q9LQN4	L T G M I K E A D S D G D G R I	N F Q E F A K A I N S
UniRef90_J4DPZ1	I R S L M N M A D K D G S G T I	S Y E D Y F S L M
UniRef90_M5WA96	C R R M I A G V D K N G D G F V	C F E D F A R M M E
UniRef90_UPI00038910B9	V S Q L F K E L D T D N S G K I	A Y N E F K D F
UniRef90_B4KQ47	L E E I I R S G D L D Q D G V L	I F E E F V G I L T S
UniRef90_UPI0003EE027F	L Q Q L V D K L D Q N G D G K I	S F E E F S A V V
UniRef90_Q235N6	L E E L F D Q L D D N N G V I	N F T E F L S
UniRef90_A0A022RLK4	C G R M I E S F D V D G D G S I	N F D E F K K M M T G
UniRef90_I3SBS2	C R K M I G N V D A D A D G N V	N F E E F K K M M
UniRef90_UPI0002C33948	C K I M I K K V D V D G D G R V	N F K E F K Q M M K G
UniRef90_F6HEE8	L T G M I R S G E A D T D G D G C I	N F Q E F S Q A I T S
UniRef90_Q6BLB8	L R A M I D E F D L D E D G E I	N E Q E F T N I C T
UniRef90_F6SFR4	L Q E M L D E A G R S G D G K L	N E R E F L K I M K
UniRef90_UPI0002C32EED	L A H F V E H V D K D N N G I I	T F E E W R D F L
UniRef90_J9NFA3	L T E F F D D M D L N N D G Y V	T F D E W R N F L
UniRef90_UPI0002B4CB1E	L Q Q L V N E V D A D G N G K I	D F P E F I C L M E
UniRef90_C6TB41	I Q E M V D E A D Q D N D R E V	S A E E F I T M M
UniRef90_Q9LI84	L T E M M T E A D S N G D G V I	S F N E F S H I M
UniRef90_S7N2Z1	L A I T M Q R L D M D G D G Q V	D F D E F M T L L
UniRef90_E8ZA60	L D E I F D Q M D T D N D G R V	S F D E F K N A I Q
UniRef90_A0A024TF60	A D T I M S Q G D K D G D G V I	T F D E F A
UniRef90_E6NU02	L A R F V E H V D K D N N G I I	T F E E W R D F L
UniRef90_A0CDT9	W E E V L K K C D S D Q Q G M I	N K E N F V K L M Q
UniRef90_UPI0003C17DDD	L S Q Q I S G G G K V V	D F E D F V E L M
UniRef90_V4SBR8	C R K M V R A V D T D G D G M V	N M D E F M T M M T
UniRef90_V4SC13	C R G M I A L V D K N G D G F V	C F E D F S R M M E
UniRef90_F0V7N0	L E D M M H D F D I N G N G H I	D L D E F V E A V R
UniRef90_B6K527	V D K T I R E V D E D K D G K I	S F A E F K K I I S G
UniRef90_I4YCZ9	L E A E M C N A D L D R N G Q L	D F Y E F V A F V K
UniRef90_H3GQS6	V S E L V Q A M D S N T D G F I	D F E E F V A
UniRef90_M0SZQ1	L D A T M D K I D A N G D G C V	D V E E F G K L Y R S
UniRef90_B6U4W9	L T A M I E E F D L D Q D G M I	S E Q E F T N I M T S
UniRef90_G7E8J5	L R A M I E E F D K D G D G E I	N Q E E F L A I M T G S
UniRef90_O15182	I R M A F K L F D M D E D G T I	T E D E F A S I I Q S
UniRef90_UPI000392EF5C	L S G F F D E I D L N H D G F I	T F D E W R D F L
UniRef90_G2RHJ0	V D E I R C A L D K G G N G M I	S L D E F K K L
UniRef90_A0A024UX31	V D R I M S M M D K D G N G Y V	D L D E F I A F
UniRef90_UPI00042B10E8	L K A L I S R V D T D S D G T I	S F D E F L A A M
UniRef90_UPI00022F3540	V G E L L Q A M D S N R D G I V	D F N E F V A
UniRef90_A9SIM5	T K S F L N A A D D S D G R I	
UniRef90_Q4S886	L Q E M I D E A D L N G D G E V	S R E E Y L N V V K
UniRef90_B4KH71	I H E M V E A D M N G D N A V	D E E E F I N I M
UniRef90_C3XPY1	V E E L R D V D L N G D G H V	D F D E F V M M L S S
UniRef90_M7C4U6	V D K T I L F H D K D G D G R I	S F Q E F C D L F M
UniRef90_A0A016UJX7	A E K T L K S M D K N G T M T I	D W N E W
UniRef90_UPI00035066A0	T D T V F T K I D V N G D G E L	S L E E F M E G V Q
UniRef90_I3N5V3	W D S F L K D C D L N K D G K I	S E E E F T N I L
UniRef90_A0D3I0	L K R V M R K L D G D G D G S V	S Y K E
UniRef90_T0RSH2	T Q A V F S K M D T D G D G K L	T L K E F L
UniRef90_B7PX39	C V R M I A A Y D G D G D G R I	S F Q E F R A M M E
UniRef90_I1PGN4	C V T M I Q V F D T D G N G V V	D F N E F H R M M
UniRef90_UPI00046DA799	T D K I F R Q M D K N M D G R L	S I D E F I E G A K S
UniRef90_Q16982	V H R M I G S V D T N H D G R V	D F D E F K E M M R A
UniRef90_UPI0001B63782	V D A L V A N V T I D S N G G V	N Y T D F V R T V M S
UniRef90_A9VD02	L Q S L L S E V D T K G S G S V	S L D E F K A F V R
UniRef90_K3W8N0	W D E L M R E V D K N D N E I	S F E E F T E A M T
UniRef90_J9J9N6	E G L F R M I D A D S N G T I	D Y E E F V H A M
UniRef90_K3WVM9	L K R I M E E L D Q N G D G Y I	D L K E F A D F
UniRef90_V7B7N2	I E P L L E E A D V D K D G R L	S I H E F R R L L R S
UniRef90_M4DML1		
UniRef90_V4UMU8		
UniRef90_Q4F6W5	L A A M I E E F D V N G D G E I	D E Q E F L S I M T
UniRef90_G0W4D0	V D A M I K E V G G D T G E I	D I Q Q F A S L L
UniRef90_B4MFA2	F N D M M K E L D A D N D G K I	T F Q D F V N G V K
UniRef90_J9IAW1	I K G M I Y E A D K D R D G E V	S C E E F L R I M R
UniRef90_A0A024FTI5	I Y Q M V A D T D K D G S G N I	D F D E F L D M M T A
UniRef90_M4C9F7	C R K M I T Q V D V D G D G R V	D Y T E F R Q M M K
UniRef90_G3WS22	I E K I L A V A D N N K D G S V	N F E E F V S L M M Q
UniRef90_T2MJY7	I N N L L K S S D F N G D G K L	N Y Q E F C N I M E
UniRef90_S4RXH1	L Q G V F E D A D V N R D G K L	D Y A E F S R M V
UniRef90_A0E004	W E Q V L L E C N A D Q E Q I	S Y L E F I T V L Q
UniRef90_A5ATQ9	A Q A A I N D L D T D G D N L L	D F Q D F V K L M Q
UniRef90_Q3SDA6	I Q H M F K K A D L D D G F V	T F D D F Y N L M T
UniRef90_S4RZT2	L R A M I D E F D T D G D G E I	N Q E E F I A I M T G
UniRef90_Q5CMP5	S S M T I K A M D I D G N G I I	S Y S E F I T
UniRef90_A0DF69	I D K L M E Q C D F N K T G S I	E Y N A F L S I M
UniRef90_B9RBR8	F D E W I R E V D V G S D G R I	R Y E D F I A R M V A
UniRef90_P54357	V E Q L L A N M E D Q Q G N I	N Y E E F V R M V M S
UniRef90_D2VKK4	V K Q L M K R I D A N G D G V L	S F E E W C N L L T
UniRef90_U4UKM8	L D G L I A E I D T D G S G T A	S D D E
UniRef90_W4W8W8	L D L M I E E I D A D G S G T L	D F D
UniRef90_D8SFC8	V D R M L D E V D E D K S G E V	E Y P E F V Q L M T
UniRef90_UPI0002C33957	C T R M I M K V D V D G D G M V	N Y N E F R Q M M K G
UniRef90_B4NCE6	I N E M M K E A D T D G D G R L	S Y D E L L R M
UniRef90_M3WQU5	L Q D M I N E M D A D G N S T L	G F P G F L Q M
UniRef90_C5YTT8	C R K M I S K V D A D G D G R V	D D F T E F K Q M M R G
UniRef90_D7G0S5	A E T T F F Q A D I D G N G Q I	S F E E W T A M M M G

1

UniRef90_B9RBK7
UniRef90_G4YT62
UniRef90_UPI0003F09A07
UniRef90_I7IPW9
UniRef90_V9L730
UniRef90_T1G561
UniRef90_UPI0002B4CF24
UniRef90_UPI0001E472E0
UniRef90_UPI00042B4E47
UniRef90_I3JE83
UniRef90_T1KV89
UniRef90_H3GLG1
UniRef90_A9NZH0
UniRef90_U6LEW6
UniRef90_UPI0003B675B4
UniRef90_I1IEH0
UniRef90_UPI0002ADB75B
UniRef90_B9T2J5
UniRef90_A0A023B8U4
UniRef90_W6V4Z2
UniRef90_M5WTA8
UniRef90_C3ZLW8
UniRef90_A0A023ELE7
UniRef90_B7PB07
UniRef90_G8JNN2
UniRef90_S0F144
UniRef90_Q84UE7
UniRef90_G2Y652
UniRef90_J9IR88
UniRef90_W4H5W7
UniRef90_H3C3X4
UniRef90_C0HAH9
UniRef90_A9TQJ2
UniRef90_G7IHU6
UniRef90_V9LHH8
UniRef90_L1LD80
UniRef90_T0RXT4
UniRef90_M4A055
UniRef90_J3RZU3
UniRef90_H9GNF5
UniRef90_Q4E591
UniRef90_R1D505
UniRef90_M5EBU0
UniRef90_UPI0002246241
UniRef90_J9JN51
UniRef90_T0S1P1
UniRef90_M7ZGB7
UniRef90_S2JW59
UniRef90_V9G145
UniRef90_K7GFJ4
UniRef90_UPI00032A30FB
UniRef90_M7BVC6
UniRef90_W4Z6V7
UniRef90_A0A022Q1Z1
UniRef90_D0NEF7
UniRef90_K1QFE1
UniRef90_A0A016WA27
UniRef90_U7Q9K3
UniRef90_H2EIH2
UniRef90_R7VDS8
UniRef90_M0TMY2
UniRef90_F1QY71
UniRef90_H0W5M0
UniRef90_F2DGA3
UniRef90_I3RZK4
UniRef90_G4Z3C0
UniRef90_U5G4P6
UniRef90_D2VBX5
UniRef90_A8HNX7
UniRef90_K4DC51
UniRef90_Q6CGE6
UniRef90_B6Q897
UniRef90_W4Y6Z4
UniRef90_A7S7E1
UniRef90_UPI00042B0CBC
UniRef90_UPI0003EACA08
UniRef90_E9CDJ7
UniRef90_T0K7N6
UniRef90_W5CVA9
UniRef90_M3ZYK8
UniRef90_A0A016T562
UniRef90_UPI0003592958
UniRef90_UPI0003BBA009
UniRef90_C3ZBZ5
UniRef90_R7UV13
UniRef90_G4VPE1
UniRef90_R1CZS2
UniRef90_A7EAC5
UniRef90_G6DB22
UniRef90_D3BCG7
UniRef90_G3MH12
UniRef90_G0RY25

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

UniRef90_B9RBK7 UniRef90_G4YT62 UniRef90_UPI0003F09A07 UniRef90_I7IPW9 UniRef90_V9L730 UniRef90_T1G561 UniRef90_UPI0002B4CF24 UniRef90_UPI0001E472E0 UniRef90_UPI00042B4E47 UniRef90_I3JE83 UniRef90_T1KV89 UniRef90_H3GLG1 UniRef90_A9NZH0 UniRef90_U6LEW6 UniRef90_UPI0003B675B4 UniRef90_U11EH0 UniRef90_UPI0002ADB75B UniRef90_B9T2J5 UniRef90_UPI00023B8U4 UniRef90_W6V4Z2 UniRef90_M5WTA8 UniRef90_C3ZLW8 UniRef90_A0A023ELE7 UniRef90_B7PB07 UniRef90_G8JNN2 UniRef90_S0F144 UniRef90_Q84UE7 UniRef90_G2Y652 UniRef90_J9IR88 UniRef90_W4H5W7 UniRef90_H3C3X4 UniRef90_C0HAH9 UniRef90_A9TQJ2 UniRef90_G7IHU6 UniRef90_V9LHH8 UniRef90_L1LD80 UniRef90_T0RXT4 UniRef90_M4A055 UniRef90_J3RZU3 UniRef90_UPI0009H9GNF5 UniRef90_Q4E591 UniRef90_R1D505 UniRef90_M5EUB0 UniRef90_UPI0002246241 UniRef90_J9JN51 UniRef90_T0S1P1 UniRef90_M7ZGB7 UniRef90_S2JW59 UniRef90_V9G145 UniRef90_K7GFJ4 UniRef90_UPI00032A30FB UniRef90_M7BVC6 UniRef90_W4Z6V7 UniRef90_A0A022Q1Z1 UniRef90_D0NEF7 UniRef90_K1QFE1 UniRef90_A0A016WA27 UniRef90_U7Q9K3 UniRef90_H2EIH2 UniRef90_R7VDS8 UniRef90_M0TMY2 UniRef90_F1QY71 UniRef90_H0W5M0 UniRef90_F2DGA3 UniRef90_I3RZK4 UniRef90_G4Z3C0 UniRef90_U5G4P6 UniRef90_D2VBX5 UniRef90_A8HNX7 UniRef90_K4DC51 UniRef90_Q6CGE6 UniRef90_B6Q897 UniRef90_W4Y6Z4 UniRef90_A7S7E1 UniRef90_UPI00042B0CBC UniRef90_UPI0003EACA08 UniRef90_E9CDJ7 UniRef90_T0K7N6 UniRef90_W5CV9A9 UniRef90_M3ZYK8 UniRef90_A0A016T562 UniRef90_UPI0003592958 UniRef90_UPI0003BBA009 UniRef90_C3ZBZ5 UniRef90_R7UV13 UniRef90_G4VPE1 UniRef90_R1CZS2 UniRef90_A7EAC5 UniRef90_G6DB22 UniRef90_D3BCG7 UniRef90_G3MHI2 UniRef90_G0RY25

50 60 70 80

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

UniRef90_B9RBK7 UniRef90_G4YT62 UniRef90_UPI0003F09A07 UniRef90_I7IPW9 UniRef90_V9L730 UniRef90_T1G561 UniRef90_UPI0002B4CF24 UniRef90_UPI0001E472E0 UniRef90_UPI00042B4E47 UniRef90_I3JE83 UniRef90_T1KV89 UniRef90_H3GLG1 UniRef90_A9NZH0 UniRef90_U6LEW6 UniRef90_UPI0003B675B4 UniRef90_I1IEH0 UniRef90_UPI0002ADB75B UniRef90_B9T2J5 UniRef90_A0A023B8U4 UniRef90_W6V4Z2 UniRef90_M5WTA8 UniRef90_C3ZLW8 UniRef90_A0A023ELE7 UniRef90_B7PB07 UniRef90_G8JNN2 UniRef90_S0F144 UniRef90_Q84UE7 UniRef90_G2Y652 UniRef90_J9IR88 UniRef90_W4H5W7 UniRef90_H3C3X4 UniRef90_C0HAH9 UniRef90_A9TQJ2 UniRef90_G7IHU6 UniRef90_V9LHH8 UniRef90_L1LD80 UniRef90_T0RXT4 UniRef90_M4A055 UniRef90_J3RZU3 UniRef90_H9GNF5 UniRef90_Q4E591 UniRef90_R1D505 UniRef90_M5EBU0 UniRef90_UPI0002246241 UniRef90_J9JN51 UniRef90_T0S1P1 UniRef90_M7ZGB7 UniRef90_S2JW59 UniRef90_V9G145 UniRef90_K7GFJ4 UniRef90_UPI00032A30FB UniRef90_M7BVC6 UniRef90_W4Z6V7 UniRef90_A0A022Q1Z1 UniRef90_D0NEF7 UniRef90_K1QFE1 UniRef90_A0A016WA27 UniRef90_U7Q9K3 UniRef90_H2EIH2 UniRef90_R7VDS8 UniRef90_M0TMY2 UniRef90_F1QY71 UniRef90_H0WSM0 UniRef90_F2DGA3 UniRef90_I3RZK4 UniRef90_G4Z3C0 UniRef90_U5G4P6 UniRef90_D2VBX5 UniRef90_A8HNX7 UniRef90_K4DC51 UniRef90_Q6CGE6 UniRef90_B6Q897 UniRef90_W4Y6Z4 UniRef90_A7S7E1 UniRef90_UPI00042B0CBC UniRef90_UPI0003EACA08 UniRef90_E9CDJ7 UniRef90_T0K7N6 UniRef90_W5CVA9 UniRef90_M3ZYK8 UniRef90_A0A016T562 UniRef90_UPI0003592958 UniRef90_UPI0003BBA009 UniRef90_C3ZBZ5 UniRef90_R7UV13 UniRef90_G4VPE1 UniRef90_R1CZS2 UniRef90_A7EAC5 UniRef90_G6DB22 UniRef90_D3BCG7 UniRef90_G3MH12 UniRef90_G0RY25

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

1 10 20 30 40

UniRef90_A0A024UCA8 DQVLDYHALSKDAVAK
UniRef90_L1JIB4 GQGTINTRELGQLIRALGKSSQD
UniRef90_H2L2E7 GYSEEEELQ
UniRef90_E2AW14 DGE LNSLIEENDGSGKVNFDGFC KLAGRFLEEEED
UniRef90_W6KK84 FGDLP RDEVE RIV RSMKANGLVEYSEFEKMI MA PKDSSPE
UniRef90_U3IQB5 EFKQFFGLRGLDPQANER
UniRef90_C3ZK53 TYMSWMERDER
UniRef90_I1FY52 DGR LDESEF LQY C T DQEK
UniRef90_I7LXB1 NAKDEE L DQFFK KYDK DGT I SYKEF Q I MT QQSD I I D
UniRef90_G4VG24 E I E E L I A D V D K E K T I T F D Q F C E I A S R M Y N E E S
UniRef90_M7Z5R9 HGLTQQQKRQ
UniRef90_C1L4Y9 DFNE I V T D M I L D R D P V T
UniRef90_A0A016W3P8 TQEELQ
UniRef90_F1R1Z5 DSS HNGSI K F E D F V T A L S L R G T T T E
UniRef90_T1ELT2 DSEGTGYI QFEEFC NI VLK K M E D E R
UniRef90_UPI00022C9DFD GSGEI GFEEFC SLASQFMEEQQ
UniRef90_UPI00038EA587 G L K P Q D V E S M L A D K D G N G Y L S F R E F L D I V F M K G S P E E
UniRef90_S5DMT4 DSNTDGLVDFTFEFAATLHVHQMEQ
UniRef90_D3Z311 SVSDEEMM
UniRef90_UPI0002B49DC6 L Q Q A E A E A A V E D S D G D G L L C V G D I E R L L E V G E E E K K
UniRef90_UPI000333CD81 K D V I G T A L S R C K D P G R F N Y N T F F S E V I G R S N P D K D
UniRef90_W5QB60 DGE I N L Q D F K K A L K V K E S F
UniRef90_F4W9P5 D Q Q H S G L L S F E D F V T G L S L A R G S I D
UniRef90_M8ARL5 E E
UniRef90_R7TUF4 E L E A L I K D I D K D G C V N F E E F L Q M M C A K E Q P E A
UniRef90_G1P4W1 D D D G N I D Y M T C F H D I H I Q K P V K E
UniRef90_V4Z7S5 F L D V P R D E A L R I F Q R I D R A E E I N Y S E F L A A T L Q T R I A L N
UniRef90_G4ZBR5 D A D L M D V M A V D S D G S I D Y K E F V T A F S V I D L K E Q
UniRef90_D8RAR2 M F D T S E K N Y V N F R E F M A F I S T H T A F S S
UniRef90_E9HCF5 N L R E D I V L N L V R Q A S Q S G S M N E T E F F Q W V K R S G S S A D
UniRef90_F0Y8A7 S D A E V Q S L I G E V D G D G V D F A E F L R R Q S L S A D Q V A
UniRef90_O15872 D I N R S G F V D F T E F M M S A S S E E K S K I
UniRef90_T2MEW0 N P T Q V D V K K V I A D I D P S G R I S F E E F I P I F T T Q R K K V E
UniRef90_A9TM61 L F D L K R N G V I D F E E F L S V F H P K A D T S E
UniRef90_A9Q116 D S N G D G Y I D L D D L L N V I T E C G S E K D
UniRef90_U5GJ78 K N K S
UniRef90_X1YMG2 T D D E L N A M F N A A D K D G N I D F D E F L S I A Y A N S L S L S
UniRef90_J9ER30 T E E E L A V M L A E A E A G L A L D G V E D G E A A D E G
UniRef90_U6GG62 E K
UniRef90_F2DBN6 D K D R N G T I D F K E F I C A L S V T S R G Q E
UniRef90_Q113N8 L E K S E M K K I V S E F K G S G K V T F Q S Y L Q V M T Q K M A E K K
UniRef90_G4TK68 D G R I E F S E F I Q A L S V T S R G D E
UniRef90_R7VUX6 D E Y A S I A R S S K G G R I G I E E F A E Y L K L P V S D
UniRef90_U3JFE9
UniRef90_UPI0002235329 L E A C L R A C D G D G V L D L S E F L T A C V D E R A R Q D
UniRef90_UPI0003832037 I T E A E L Y D L I H S V A V S D E L D L Q K F M R M M M A H V D S D Q
UniRef90_W5F9N0 A D G M L E Y K S W L D D L A M E R R S K E
UniRef90_F6H0H4 V R A R L Q Q F S A M N K L K K K A L V I A E H L S L E E V A
UniRef90_E7F297 L E S L V G N T T L D F N E F L V F Y E S I S T E K K
UniRef90_UPI00035988E2 N P E T V R L M I G M F D R D G T I N F P E F M S L W G R P E D
UniRef90_I1FUQ5 K Y V T
UniRef90_M7B8G2 T M G L T E D Q L R
UniRef90_B4FMC4 V F Q I M D D D K S R T L D F K E F L K G L N D V M D K E
UniRef90_A0A059LN86 L K G P R V L E I I Q A I D S D G L V D F K E F V A A T L H I H Q M A E
UniRef90_G7Y5M8 K K E E I R K L M T D L D K D G S M D Y E E F L S V M T S K M D S R E
UniRef90_UPI0002ADB9A0 N P T D A C L D A M K N E A L G P I N V T V F L L T M F L T T D P E D
UniRef90_W1PLB4 D E E C
UniRef90_UPI0003C4B5B3 N P A T V R S I L S M F D R E G G V N F N E F S G V W K Y V S
UniRef90_UPI000273CE70 K L N F D D F C I L R K K P T S K A
UniRef90_I7LU25 K K E E V K A L I E Q V D K D G S I E F E F L V M M K K M L E E E
UniRef90_UPI0003EC44FD G R V D F E D F V D L M T P K L L D E K
UniRef90_U3JHB0 E A E A K E L F Q L F D K D G S I N F D E F L L T L R M S N A R K E
UniRef90_Q4X2G4 R D P T E
UniRef90_A0A024UQQ2 D A D R V G Q I S Y E E F F E F I D E N R N P Y S
UniRef90_F0Y580 D A D G N G Q L T V G E F G D A L T F S D L K P R
UniRef90_UPI0003D0D17F D
UniRef90_E4YG01 N F A E F M I L L A R R K K D K N
UniRef90_V4K8U1 L S D E E A E A A L S D M D G D G M L D F E E F A Q L I K G S D E F T E
UniRef90_UPI0003C90153 R A L V A A V R H H K K E N Y Q N F D
UniRef90_R0L7J3 G H V D F E D F V E L M G P K L L A E K
UniRef90_C3YVT7 D R D G S G T V D F R E Y L T G M S L R G S V V E
UniRef90_K1PT39 D A D G N G S V D F Q E F A V F V S S C Q D L D K
UniRef90_UPI00042AFB40
UniRef90_M7ZRI8 G N G I V S F T T F R A L R Q Q S H G D G N
UniRef90_DONK14 E
UniRef90_T1I8U1 K E T G L V Q Y M T T F Q E D G T F N L Q S D T T V V E T L Y K N K S
UniRef90_D3B3V9 I M N P E E R K E
UniRef90_M5E5P4 N G S I D F K E F I C A L S V T S R G R E
UniRef90_A7RRG8 M F D R D N S G T I E F N E F Y S L W Q Y V T
UniRef90_B6U776 L F D L K R N G V I E F G E F L D V F H P A T P V I E E
UniRef90_T1EKQ7 G S G T V D F P E F L D M M A K K I Q S T D
UniRef90_UPI000440377B T N V K D E E L D A M L K E A S G P I N F T M F L N M F G E K T D A E E
UniRef90_UPI0004440983 P E D
UniRef90_M4A688 G H V D F D D F C E L M G P R M L A E K
UniRef90_V9KJ78 L S A K Q M A
UniRef90_A7RZF9 N P T E I E L Q D M I N D C D G N G L M N F D E F V K L M I T K M M D E E
UniRef90_C7BAI7 N P T E A E L Q E M I N E V D A D G N I D F P E F L T M M Q K R S D S E E
UniRef90_B5DE17 S L D P D R E K
UniRef90_K7N164 D G D G I E D F Q E I T Q M S E N E V I S V E

UniRef90_A0A024UCA8
UniRef90_L1JIB4
UniRef90_H2L2E7
UniRef90_E2AW14
UniRef90_W6KK84
UniRef90_U3IQB5
UniRef90_C3ZK53
UniRef90_I1FY52
UniRef90_I7LXB1
UniRef90_G4VG24
UniRef90_M7Z5R9
UniRef90_C1L4Y9
UniRef90_A0A016W3P8
UniRef90_F1R1Z5
UniRef90_T1ELT2
UniRef90_UPI00022C9DFD
UniRef90_UPI00038EA587
UniRef90_S5DMT4
UniRef90_D3Z311
UniRef90_UPI0002B49DC6
UniRef90_UPI000333CD81
UniRef90_W5QB60
UniRef90_F4W9P5
UniRef90_M8ARL5
UniRef90_R7TUF4
UniRef90_G1P4W1
UniRef90_V4Z7S5
UniRef90_G4ZBR5
UniRef90_D8RAR2
UniRef90_E9HCF5
UniRef90_F0Y8A7
UniRef90_O15872
UniRef90_T2MEW0
UniRef90_A9TM11
UniRef90_A9Q116
UniRef90_U5GJ78
UniRef90_X1YMG2
UniRef90_J9ER30
UniRef90_U6GG62
UniRef90_F2DBN6
UniRef90_Q113N8
UniRef90_G4TK68
UniRef90_R7VUX6
UniRef90_U3JFE9
UniRef90_UPI0002235329
UniRef90_UPI00034415E6
UniRef90_V4ZG11
UniRef90_B4P5S8
UniRef90_UPI0003832037
UniRef90_W5F9N0
UniRef90_F6H0H4
UniRef90_E7F297
UniRef90_UPI00035988E2
UniRef90_I1FUQ5
UniRef90_M7B8G2
UniRef90_B4FMC4
UniRef90_A0A059LN86
UniRef90_G7Y5M8
UniRef90_UPI0002ADB9A0
UniRef90_W1PLB4
UniRef90_UPI0003C4B5B3
UniRef90_UPI000273CE70
UniRef90_I7LU25
UniRef90_UPI0003EC44FD
UniRef90_U3JHB0
UniRef90_Q4X2G4
UniRef90_A0A024UQQ2
UniRef90_F0Y580
UniRef90_UPI0003D0D17F
UniRef90_E4YG01
UniRef90_V4K8U1
UniRef90_UPI0003C90153
UniRef90_R0L7J3
UniRef90_C3YVT7
UniRef90_K1PT39
UniRef90_UPI00042AFB40
UniRef90_M7ZRI8
UniRef90_DONK14
UniRef90_T1I8U1
UniRef90_D3B3V9
UniRef90_M5E5P4
UniRef90_A7RRG8
UniRef90_B6U776
UniRef90_T1EKQ7
UniRef90_UPI000440377B
UniRef90_UPI0004440983
UniRef90_M4A688
UniRef90_V9KJ78
UniRef90_A7RZF9
UniRef90_C7BAI7
UniRef90_B5DE17
UniRef90_K7N164

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

	90	100
UniRef90_A0A024UCA8	R N K L M D A I D T S G D G H I N V D E F I A	
UniRef90_L1JIB4	L L E S F R A F D R D G S G T I S T Q E F R T V M R	
UniRef90_H2L2E7	L D K G I D E V D Q R D G S H Q I D D F D E F C V V M R	
UniRef90_E2AW14	L D G T I A E I D T D G S G T V D D F D E F M E M M T G	
UniRef90_W6KK84	L Q E M I A E A D E D G D G E V S F E E F K N V M T	
UniRef90_U3IQB5	L R W Y F K L Y D V D G N G S L D R R H E L L N I I K A	
UniRef90_C3ZK53	V Q E F I E D Y D T N K D G S I Q L N E F V A L	
UniRef90_I1FY52	A K K L L R K M D K D G D V K I T W E E W R D F L	
UniRef90_I7LXB1	V Q S I F N E I D Q D K S G G V Q L N E F I S F I K	
UniRef90_G4VG24	M D A L L E K A K V D S D G N V H Y E E F V R S I T S	
UniRef90_M7Z5R9	I N Q M I A D V D K D G S G S I D Y E E F E H M M T A	
UniRef90_C1L4Y9	L R A M I E E F D Q D G D G A L N L E E F M A L M T	
UniRef90_A0A016W3P8	L Q N M V N E Y D V D G N G K I D F G E F C K M M K	
UniRef90_F1R1Z5	V D A F F Q K M D K N R D G V V T L D E F I	
UniRef90_T1ELT2	I D D M I A D V D T D G S G W V D Y N E F A K L M T S	
UniRef90_UPI00022C9DFD	L D N M I E E V D A D G S G T V D F E E F M E V M T G	
UniRef90_UPI00038EA587	V E S M F R E A G F Q D K E E L T W E D F H F L L R	
UniRef90_S5DMT4	I E P L L E E A D I D K D G R I S L L E F R K L L R	
UniRef90_D3Z311	I T E N M A T G D L D Q D G K I S F D E F I K V F H G	
UniRef90_UPI0002B49DC6	C K M M I R R F D L N G D G L I S F E E F Q I M M	
UniRef90_UPI000333CD81	E N D L L Q A G N S N G D G Q I G V D G F Q S L	
UniRef90_W5QB60	L K F L F Q V Y D V D G S G I D P D E L R T V L Q S	
UniRef90_F4W9P5	V D R M F Q K M D G N R D G V V T L S E F L E A C R A	
UniRef90_M8ARL5	L T R M M A E A D A D G D G F I S L E E F A A L	
UniRef90_R7TUF4	A E E M V K V A D F N A D G V V D F	
UniRef90_G1P4W1	V D E L A E R M D L N K D G S I D F N E F L K	
UniRef90_V4Z7S5	V E E E I L S Q C D R K Q N G V I E F D E F M L A L T G	
UniRef90_G4ZBR5	I E E L L S Y L D S N K D G V I S Y K E F	
UniRef90_D8RAR2	I E H L F N S L D M D H D G V I S W A E F K K F L Q	
UniRef90_E9HCF5	L N D L I K M A D V D K D G R I N Y E E F A K M L	
UniRef90_F0Y8A7	C R R Y M A K V P Q D D D G C I A L P E F L Q I I	
UniRef90_O15872	W T E I L Q M C D A N G D G Q I S Q Q E F I D F L	
UniRef90_T2MEW0	V D T L V Q G M E D K N G K I N Y E E F V R	
UniRef90_A9TM61	L A A M V R E V D C S D G F I D D E F A K L	
UniRef90_A9Q116	V D N T F S Q A D S D G G R I D P E E W E E F V K	
UniRef90_U5GJ78	L L I K G V D K D G N G L V D L R E F Q Q	
UniRef90_X1YMG2	L L D M C R M M D I N K D G L V D L N E F L E	
UniRef90_J9ER30	I K A T Y S Q V D V N R D G K I N F D	
UniRef90_U6GG62	L N A L V N R Y D K N G D S K V S Y A E F V N A I	
UniRef90_F2DBN6	C R R M I G G V D S D G D G F V C F D E F T R M M M	
UniRef90_Q113N8	I E N M L T A A D T N G D Y V I S Y D E F Q E L F K S	
UniRef90_G4TK68	V D K I F A S M D R D K D A K L T F Q E F V E	
UniRef90_R7VUX6	L Q E M I D E A D V D G D G E V D E E E F L R L L T	
UniRef90_U3JFE9	V D R I F A M M D K N A D G K L T L Q E F Q E G S K A	
UniRef90_UPI0002235329	I Q V A F K L F D V D E D G Y I T E E E F S T L L Q A	
UniRef90_UPI00034415E6	L R K I V A G D K D L D G Q L D F E E F V H Y L Q	
UniRef90_V4ZG11	I A E L L N S G D F D N D G K F S F K D F V A	
UniRef90_B4P5S8	I K D I C R A V D M D G D G R I S L R D F I S F M H S	
UniRef90_UPI0003832037	I N D L V R S I D F N K D G N I D F N E F L E	
UniRef90_W5F9N0	L Q M L M D A A D V D K N G T L D Y G E F V A V	
UniRef90_F6H0H4	C R S M I K V Y D T N S D G V L D F E E F K N M M	
UniRef90_E7F297	L E E M M Q E I D Y D N D G M V S L E E W L Q	
UniRef90_UPI00035988E2	Y D I L I R K F D R Q G R G T V A F D D F V Q	
UniRef90_I1FUQ5	L D R L F A Q C D P N G T G Y V T F E S F L D F M T	
UniRef90_M7B8G2	I M Q A F R K F D K T G D G I V T I E D	
UniRef90_B4FMC4	L E P L L E E A D I D K D G K I S L S E F R K L L R	
UniRef90_A0A059LN86	M I D E A D R D G D G E V S E E E F F R L M K	
UniRef90_G7Y5M8	V D D W I R K H D K N R D G R L N Y E E F I T F M	
UniRef90_UPI0002ADB9A0	V D E L H R E A P I D K K G N F N Y T E F T S L L K	
UniRef90_W1PLB4	W K M M I Q K F D E N L D G R L D F Q E F K N M M	
UniRef90_UPI0003C4B5B3	Y D I L I R K F D R Q G R Q L A F D D F I Q	
UniRef90_UPI000273CE70	V N A I I N L A D V N A D G K F D Y I K F C K L Y M	
UniRef90_I7LU25	L K E M I F A A D L D D D G R V S K D E F M R V M R	
UniRef90_UPI0003EC44FD	L D A V V K E A D N N G D G T V D F E E F V K M M	
UniRef90_U3JHB0	F R A F L D N F D S D R D G K V T T E E F M N	
UniRef90_Q4X2G4	L Q A M I D E F D K D M D G E I S Q E E F L S I M K	
UniRef90_A0A024UQQ2	L Q F A F R T F D D D S G S I D E S E F A K L	
UniRef90_F0Y580	L K D A F A A F D R D G S G K L S A R E L H K A L K	
UniRef90_UPI0003D0D17F	L D H L F D Y C D V D Q D G L I N Y L E F A N F L T	
UniRef90_E4YG01	A G K I S Q T M D V T G D E K I S Y E E F L T M L A	
UniRef90_V4K8U1	C I L M I K A F D T N A D G V L S F D E F V L M M R	
UniRef90_UPI0003C90153	L D Q L E D Y C D V D K D G F I N Y L E F A N F L	
UniRef90_R0L7J3	L E E I I R D V D L N G D G R V D F E	
UniRef90_C3YVT7	C D R V F E T L D K D R D G K L Q I R E F V E G V R	
UniRef90_K1PT39	I H D L F N T M D V N K D Q R I S R E E F L K	
UniRef90_UPI00042AFB40	V T A M M Q Q G D T N K D G L L S I E E F L E M	
UniRef90_M7ZRI8	C R Q E L R Q R D K D G D G K L N F E E Y	
UniRef90_DONK14	I R Q V F S V L D A S G D G S V T L D E F	
UniRef90_T1I8U1	V D I C K S M D M N K D G M V D L N E F L E	
UniRef90_D3B3V9	I S K M M D I A D S N K N H S I E W D E F Y N I V R	
UniRef90_M5E5P4	V D K I E N L M D R D K N A E I S F E E F K E	
UniRef90_A7RRG8	Y S M L I T K F D R T G N A I R F D D F I Q	
UniRef90_B6U776	V D Q T F R Q A D M N G D G K I D P D E W K	
UniRef90_T1EKQ7	I D E L I Q D A D Q N G D G F I S F E	
UniRef90_UPI000440377B	V D Q M F Q F S T I D A A G N L D Y	
UniRef90_UPI0004440983	L K E M M K E T D L N R D G T V T L E E W I R	
UniRef90_M4A688	L E E L G D I D L N K D G S I D F D E F V M M L S A	
UniRef90_V9KJ78	V N D E F R A V D K F N N V I D F D E F L G M Y K	
UniRef90_A7RZF9	I N D I L Q A D N K Q G W N R K L A F E E F K K M	
UniRef90_C7BAI7		
UniRef90_B5DE17	I L R A G D T D Q D G Q L D F E E F T H Y L E	
UniRef90_K7N164	C Q K M I N G I D Q N G D E L I D H N E F F M L M E	

1 10 20 30 40

UniRef90_R7UZ73 D A D G N G V T I D F E E F I Q A L N V I S S K Q E E

UniRef90_E9HSW1 D R D K N G F I D F K E F L C A I D V I T S A P N E E

UniRef90_H2SKL1 D M D G D G Y I D F V E Y I A A L M L K G E I N Q Q

UniRef90_UPI00026571A3 G L K D S D R M F S L F D G D N D G T I D V R E F L S V F C E K G T I D E E

UniRef90_D2VXD7 D I T N E L D Y G K G G G T I D F E D F V K M M E D Q K K E E T

UniRef90_A7RJ54 L F D I K H N G V I E F G E F L S I F H P N A P N E D

UniRef90_A0EED8 Y A P L P D V N L K M L F N G V D K N G R L S E K E L G N A L D F T K F N M E

UniRef90_C4P7Z5 D A N K N G T I E F N E F I E Q M E K N R D D A A

UniRef90_F6ZBB5 D T D N S G H I D F K E F L M A I G I T A S N E E

UniRef90_Q6CE05 D T D H D G F V D F C E L S S G I S V I S G S Q E E

UniRef90_UPI0002B4233F D A L D R L E E L K E F A N F D F D V W R K K Y M R W M N K K S

UniRef90_F2U698 K K A L D D E Q M E

UniRef90_UPI00026573CF E S D V S S G T D F N G F L Q V V V R K T D P A D

UniRef90_UPI0002651F29 G L K P Q D V E S M L A D K D G N G Y L S F R E F L D V V F M K G S P E D

UniRef90_W4FSZ4 D T N H D G S V S F E D F V A S V I L R G T V D D

UniRef90_Q54NH0 L M I T M F D K D H S G T I T F Q E F G A L W K Y V T

UniRef90_E1BMS3 D T D H D G F V D F C E L S S G I S V I S G S Q E E

UniRef90_F2U9E3 D A L D R L E E L K E F A N F D F D V W R K K Y M R W M N K K S

UniRef90_G1RY56 M K E T D S E E

UniRef90_W4Z3S9 G M P E E Q F E

UniRef90_UPI00042C50F8 N P T E A E L Q D M I N E V D A D G T I D F P E F L N L M A R K M K S E E

UniRef90_DON1M0 D T D H N G S V S F E D F V T S V L L R G T I Q D

UniRef90_UPI000440D2C1 L D E A T A A F D A D G K I E F D E F V E M F A L D D S E A S

UniRef90_R4GDS9 L F D L K Q N G V I D F S E F L S V F H P N A P L E D

UniRef90_W2Q5F5 D T N S D G T I D F R E F I I A L S V I T S R G E Q

UniRef90_V9F717 E F A D A L G L K P Q S V

UniRef90_B7Q2D1 K E L L K R F S E I D G D G L V N E E E F S Q F L N L P P C K

UniRef90_K1S6H1 F A Y A T S A E I M V M L E R L G R A P T I F T E D K S L T H E Q I A

UniRef90_UPI0003C13245 L D R L F D A F D E D D S V D F M E L S S G L S V G G A N E D

UniRef90_MOT284 I N R L F T A F D S E G I V D F N E L I S G L S I A S S R D E

UniRef90_V9LB92 D V D G A G Y V D L P K F C N L M S R S K G G P A

UniRef90_F0YI15 V S A E E A D R L V A S A D G D G D L S Q E E L L A L A G T T A A E E E

UniRef90_A9RTQ5 N P T D E Y L D A M M N E A P G P I N F T M F L T M F G E K T D P E D

UniRef90_U3JK58 C A E D E T L S Y S Q F L A Q A I D K Q A Q K S

UniRef90_UPI000273CE37 I K D S E V E R F I A D V N G N G V I D F P D Y V A E V L S P T Y S L N

UniRef90_C3Z5X9 M L D F A G F V A L M E R G G S Q E E

UniRef90_UPI000462819B N L K W D N I R K Q L D S F A K G G K I G I E E F A S H L K L P V I T G

UniRef90_B3RJ48 G M T D D M L M N R V F D K D N D N C I N A K E W V K S V F L R G T F E E

UniRef90_G3Q7X5 N I P D E E I T N M F K E F D G D G E L D A D E F T L C I N N M

UniRef90_T0RWWV2 I M R D I D Q N G T I D Y S E F V A A S I N R S K S Q D

UniRef90_G4YZI8 L Q N M L A I I D K N G N I D F D E F I N M M T A K M D T R E

UniRef90_W2Q9D3 D R D G D G I V N F S D L L G A M T L N G N V D Q

UniRef90_C1MIH3 N P T N A E V H K V L G N P K S D E R V D F E T F L P M L Q A V A K N R D

UniRef90_K7V9A2 N V D E A E A R R F L E D A A G A G D I D L A A F L A V A A R K M Q S E A

UniRef90_K7FDK7 M A T T Q I S K D E L D

UniRef90_A0E4S7 D T I D M E E I P L N Q T N S Q E P E D

UniRef90_K1QH01 E F A E A L S L K E D S T

UniRef90_I1PFW2 D Q S N N G T L S F Q D F V Q G L S V R G S L E E

UniRef90_T0PI82 E I R D A F D L F D A D G T G T I E V K E C K K M S E K T K E

UniRef90_UPI00045720E3 S D E Q I A R L F D D C D K D G R V D L M E L V C G V C L S G T E K E

UniRef90_E2RCK9 M L E Q I D S D G F V D F E E F V A A T H D T E K W K S

UniRef90_M4DQJ4 L K A I V G S E K L D F E G F V A F C R P A E D E E G

UniRef90_UPI0001DE7EA6 K E A E S L V E V L D S D K D G L V G L D D F V R F V E E V E E E K

UniRef90_A0BU10 A D A D P D G G L D L E E F T R Y L Q E R E R

UniRef90_O61171 L F D V K Q K G V I D F G D F V R A F H P N A P Q E E

UniRef90_E2B140 L A G C A A A D S F N Y K T F F

UniRef90_J9J4E2 L A D K D G N G Y L S F Q E F L D V V V M K G S P E E

UniRef90_UPI0003344626 A F A G L A D A D I K A A L A G C A A A D S F N Y K T F F

UniRef90_K7V0W4 K K M F G E L D V K G E I R F D E L L N A A V H D V I S S D E

UniRef90_U3KQI3 R D A E E K I F R A D T N R D D Q L D F E E F T K Y L R D H E K

UniRef90_Q9VYW6 I F D L D G S R E I D V K E F I V I G L S T H T D P K D

UniRef90_M4FCI2 D S D G N G V V D F C E L S S G L S L A G S Q S E

UniRef90_V9K9X6 K R F L K F M N H K K S R L T

UniRef90_T1IEX0 K K Q E I K E A F E D T D G S G T I D A K E L M T A K I G E R D T K E

UniRef90_UPI0003EAE657 D K D K D G K I D Y E E F A E F Y T M M E Q E R D

UniRef90_G1U053 F K A F D V N G A I S F R D L L V T L S L R G S I Y E

UniRef90_C5L793 I F D K D N S G A I S L Q E F L E A M H Q F K S P D D

UniRef90_W5B3D8 A E T F L A R A D V N K S S D I S L A E F I H Y V R E H E K

UniRef90_W1NJU6 L A D K D G N G Y L S F Q E F L D V V V M K G S P E E

UniRef90_V7C3P7 L A D K D G N G Y L S F Q E F L D V V V M K G S P E E

UniRef90_G3UHS3 K K M F G E L D V K G E I R F D E L L N A A V H D V I S S D E

UniRef90_M1CIX5 R D A E E K I F R A D T N R D D Q L D F E E F T K Y L R D H E K

UniRef90_P86760 I F D L D G S R E I D V K E F I V I G L S T H T D P K D

UniRef90_M3ZWF9 D S D G N G V V D F C E L S S G L S L A G S Q S E

UniRef90_X6P8P8 K R F L K F M N H K K S R L T

UniRef90_F6YHE4 K K Q E I K E A F E D T D G S G T I D A K E L M T A K I G E R D T K E

UniRef90_C5K899 D K D K D G K I D Y E E F A E F Y T M M E Q E R D

UniRef90_T0RAF3 F K A F D V N G A I S F R D L L V T L S L R G S I Y E

UniRef90_UPI00034F3EF4 I F D K D N S G A I S L Q E F L E A M H Q F K S P D D

UniRef90_U6HQ80 A E T F L A R A D V N K S S D I S L A E F I H Y V R E H E K

UniRef90_I1KUB7 L A D K D G N G Y L S F Q E F L D V V V M K G S P E E

UniRef90_C5Z5A3 K K M F G E L D V K G E I R F D E L L N A A V H D V I S S D E

UniRef90_X2ANQ7 R D A E E K I F R A D T N R D D Q L D F E E F T K Y L R D H E K

UniRef90_A0A026WFR5 I F D L D G S R E I D V K E F I V I G L S T H T D P K D

UniRef90_E2B3W7 D S D G N G V V D F C E L S S G L S L A G S Q S E

UniRef90_M0WZV6 K R F L K F M N H K K S R L T

UniRef90_H2LZJ7 K K Q E I K E A F E D T D G S G T I D A K E L M T A K I G E R D T K E

UniRef90_A0A023F570 A E T F L A R A D V N K S S D I S L A E F I H Y V R E H E K

UniRef90_W8CB87 L A D K D G N G Y L S F Q E F L D V V V M K G S P E E

UniRef90_L8IPPP9 K K M F G E L D V K G E I R F D E L L N A A V H D V I S S D E

UniRef90_X1XTR3 R D A E E K I F R A D T N R D D Q L D F E E F T K Y L R D H E K

UniRef90_R7UZ73 K M R W A F K M Y D M D G N G S I V S K Q E E T L D M I N G L G S A A A K Q A E E T 80
UniRef90_E9HSW1 K L Q W A F R M Y D V D D G N G S I V D L Q E E M T K I V Q A I Y D M L G N S S E E E R
UniRef90_H2SKL1 K L K W Y F K L F D Q D D G D G G Y I D R T R E E L R T L F S A I Q D I T G E K N R D S E E T
UniRef90_UPI00026571A3 D M I A A F R I F D F D D G D G G Y I T R T R E L R R A M E T I L I Q D I T G E K N R D S E E T
UniRef90_D2VXD7 K L K F S F R I Y D F D K D G G C S K E E L Y K L L E A S L V E N S L G I P Q E E
UniRef90_A7RJ54 E E I R T A F D V F D S D H K E F F I E S G D I R G A L H R V N T I P P R E E
UniRef90_A0EED8 E E H Q V F K S F D K D G G Y I E S S E L H A I A Q Q L N Q E L S K E E
UniRef90_C4P7Z5 K M E F A F K L Y D L R Q T G Y I E R E E L T E M V S A I L E S E D I V E S T
UniRef90_F6ZBB5 K Y K Q R F N L V D R D R K G G F I T R V D L Q K L L Q D M N E G L D D D T
UniRef90_Q6CE05 T V R V M I K M F D R S R N G T I E F K E F C N L W R Y L G D W
UniRef90_UPI0002B4233F D L K E A F G A F D M D G D G G K V S T K E L R D A F M E Y G Y N S I L L E E
UniRef90_U2U698 T L W Q L F N I A D E D D D G T I G M E E L S S M L Q D E S L L G K H L D A D I
UniRef90_UPI00026573CF R L K W A F R M Y D I N N D G G I E I A E M T K I V K A L Y D M L G P G T S D E
UniRef90_UPI0002651F29 K L E F M F R L Y D T D D N G I L D S S E L D C I V N Q M M H V A E Y L G W D V
UniRef90_W4FSZ4 E I K E A F S L F D T D G S I D A R E L K A A M R A L G F Q V K K A E
UniRef90_Q54NH0 E L K R A F N C F D T D G T G S I S A Q H L K Q I L T T L G D T L T S Q E
UniRef90_E1BMS3 K S R L M F T M Y D L D G N G F L S K D E F F T M M
UniRef90_F2U9E3 D L K T T F R K F D A N G G V I T L E E L K Q A I A S V S Y R R S Q D P E A V
UniRef90_G1RY56 R L N W A F N L Y D L N K D G G C T K E E M L D I M K S I Y D M M G K Y T Y P A
UniRef90_W4Z3S9 D W Q N T F R G Y D R D N S G T I D K N E L K Q A L T T F G Y R L S D R I
UniRef90_UPI00042C50F8 T L L A A F R H Y D K K D G A I D K S E L R E A C D Q A S V H I D E K L
UniRef90_D0N1M0 K I K A T F T L F D I N R D G G F I A R D E M E T M Q Q L D G I S P Q E I L A R V T
UniRef90_UPI000440D2C1 R V M D F F R R I D K D Q D G K I T R Q E F I D G L A S K F P T S K L E M M A
UniRef90_R4GDS9 L W A E L F R S Q L D L N K D G R V D V N E L L R I G L A A R G L S W S S
UniRef90_W2Q5F5 L A K H F R S F D R D G S G V V D F D E F V R A M L S L N F V G V Q A E
UniRef90_V9F717 V I D L F R F C D A D G N G S I S P E E L M I E T L S Q M E I Q L T P D Q
UniRef90_B7Q2D1 E I L R E A F R Y L D K N G G F I S A S E L R H V M T N L L G E K L T D E E
UniRef90_K1S6H1 E I V N T F R Y L I D S N E D G R L S K K E L N D A A F L I G L N P T T K E
UniRef90_UPI0003C13245 K L Q F T F K L Y D K D G N G L L D S S E V D R I T Q M M R V A K Y L D W D
UniRef90_M0T284 E L K E A F R M L D V D G D G Q I N Y D E F V K V M M A
UniRef90_V9LB92 K L K W A F N L Y D I N K D G G Y I T K E E M L D I M K S I Y D M M G K Y T Y P V
UniRef90_F0YI15 D A K A A F D K I D A D G S G A I S A D E G E V E A L F K D V G L S A T K K E
UniRef90_A9RTQ5 K I V F A F R L Y D L R Q T G Y I E R E E V K Q M V V A L L S E S D M K L S D E N T
UniRef90_U3JK58 R Y K K R F H M F D K D K G F I T L L D V Q R V L Q S I S Q M D S E N T
UniRef90_UPI000273CE37 K L M W A F S M Y D L D G N G Y I S R E E M L E I V Q A I M P E D E S T P E K R
UniRef90_C3Z5X9 E F R E A F N L F D K D G G G D I S V K E L G S V M R S L G Q N S P T E Q E
UniRef90_UPI000462819B F V D S M F S L A D K D G N G Y L S F R E F L D I L V V F M K G S P Q E K
UniRef90_B3RJ48 E V S Q L F N L Y D Q D D D G G C D F R E Y L I G L I L V S K P A G S D N T
UniRef90_G3Q7X5 V V E R A F R I Y D M D R S G Y I S N G E L F Q V L K M M V G N N L K D T Q L Q
UniRef90_T0RWX2 E L R E I T V F D R D R S G T V S F A E L D A L Q Y R H D D D D T G S T J L A D
UniRef90_G4YZI8 K V M A A F S L F D T D G D G G Y I T Q Q E M E T Y R R S I G I D A K A L A H Y T
UniRef90_W2Q9D3 K V L V A F K V Y D T N G D G G V I S E E E M T H Y K Q Q L G I S A K T L A A V T
UniRef90_C1MIH3 E L R K A F T H F D K D R S G F I T K T Q L A E A L H D F Q M A L S P A E
UniRef90_K7V9A2 E L R E A F R M Y A V E G Q G C T P L S L K R E M L A R L G S H Q D V A E
UniRef90_K7FDK7 V I R N A F A C F D E E A T G V I Q E D Y L R E L L T T M G D N D Y T D E E
UniRef90_A0E4S7 K I E T A F K L I D R N A S G N I N V E E L S E A F K C N L T G N D R F I
UniRef90_K1QH01 K A K E W F Q L E D S N R D G L V S R D E L L T I A M N I G M T P K Q A A E T
UniRef90_I1PFW2 D L R S A F E V E N V E S A G R I T A R G L Q R V L A Q L G D E R S V A P E
UniRef90_T0P182 E F R E I F N L V D R D R G G S I T K V E L G E L M D T L G I N T S P D
UniRef90_UPI00045720E3 A L R E L F A L F D R D D N G S I D F R E Y V I G L T V L C T P A N T E D T
UniRef90_E2RCK9 K L K F C F E Y Y L N D G G Y I S Q E E F F D M L K N S L H Q Q S S E E E T D
UniRef90_M4DQJ4 L K E A F D F C Y D T D G A G K V T A S E F H A A M T G L G E D F T E E K
UniRef90_UPI0001DE7EA6 F V E S M F S M A D K D H N G Y L S F E E F C F I L C S L I K G S A E D K
UniRef90_A0BU10 R L A K T F K A I D K D G N G S I S I D E L K L I F G N G L V P D Q I
UniRef90_O61171 D L E K V F E L F D G D N D S K I D I R H L K R V C K E L N E N M S D D E
UniRef90_E2B140 K L S W I F R L Y D L N G D G G C T R Q E M L I T I S A V Y E I M Q P I I D S Q
UniRef90_J9J4E2 S Y R T V F D L F D R D R G G C I D N G D L Q E I T S K A L N R D P E
UniRef90_UPI0003344626 D Y L E G L R V F D K E G N G K I M G A E L R H V L T T L G E K M T E E E
UniRef90_K7V0W4 R L A E C F D V F D D A C S G S I P A E Q L R Q V M V S H G D R L T E E E
UniRef90_U3KQI3 E L K E A F A K V D L N S G G F I C D Y E L H E L F K E A N M P L P D G Y K V I R E
UniRef90_Q9VYW6 K M H E I F D K H D S D R D G G I N T H E L K E L I S D G Y C R D I P A Y I
UniRef90_M4FCI2 F L V E Q M F L L A D K D G N G Y I S A R E L Q A V L K K L G L P E G S E M E R
UniRef90_V9K9X6 R L R W T F S L Y D I N R D G G K I S F R E F M D I F I T F M K G S P E E K
UniRef90_T11EX0 D I K S A F R I F D F D D D G T L T R D E L W D V V T S V Y N L L G R L S P Q K
UniRef90_UPI0003EAE657 E I L K A V K L F D D D E G K I N R E D L S R L V N C L T G E G E D T M K Q L
UniRef90_G1U053 K L H S V F E V F D T N G D G R I S F K N L K R V A K E L G E N Q T D E E
UniRef90_C5L793 L S Q A A F D K F D V D G D G Y I S L D E I T A F L R N V Y S T A E D L A A V T
UniRef90_W5B3D8 D L K E A F N V F D M D R D G G I T S N E L R M N T G L K G S
UniRef90_W1NJU6 D L R E A F K M Y E M E G C C I S S E S V E T W L S R L G L W E V K E E K D
UniRef90_V7C3P7 R L L L M F H S L D R N Q D G G H I T P K S L K R M L G R L G E C K S I D E
UniRef90_G3UHS3 K L N F S F R L Y D M D G G G F I E R Q E V K Q M L I A L L G S E M T L D D E
UniRef90_M1CIX5 K F F A L I D Q D H S G F I E E E E L K L F L Q T F S A G A R A L S D A E
UniRef90_P86760 K S Q L M F S M N D I G G T G Y L S K E E F A R M L R S F G V L S K T Q A E D G
UniRef90_M3ZWF9 R L Y Q A F R E L D D D D D G G I R V E Q L K A K L K E T D P Y G H Y S E
UniRef90_X6P8P8 K M K L A F K S L D K N N D G G Q I E A S E V V Q A L N T L G I D I S E R Q
UniRef90_F6YHE4 R L R F A F M M F D E D G S G Y I D K A E L I K I V N S P G D I S E A W L E R R
UniRef90_C5K899 K V E A A F A L Y D V N K D G G F I S Y P E M V S Y L T A L P L S P E K L A E V T
UniRef90_T0RAF3 D L I G R Q F R I I D D D N N K L I P R N E F I D G I V N T K F D T S R L E
UniRef90_UPI00034F3EF4 I G R Q F R I I D D D N N K L I S K E E F V K V C H D F R V G L T N D E
UniRef90_U6HQ80 D L E I F N I I D K D H S G L I S I E E F R Q T W K L F N S H L K I D I D D E
UniRef90_UPI0003891850 E L M K A F N I I D H K N G G K I S A L D I K R I A K E L G Q N F T D R E
UniRef90_C5Z5A3 A F D V F D G N K D G G L I S A E E L G T V L G S L G L R N G R T A V A D
UniRef90_X2ANQ7 H L V E K F S R H E M D D G G R I S L Q D L K S M M Q E E G C A Q S S V D Q I T
UniRef90_A0A026WFR5 K L R W T F K L Y D I N G D G G C T R G E L G E V V T A V H E L M G R R H H A E
UniRef90_E2B3W7 K L R F L F K V Y D I N G D G G L Q L R E L E H V M R A C M E N G M K F S D E Q
UniRef90_M0WZV6 A F A V F D E N G D G Y I S A A E L Q A V L A R M G V P E A A C M A R
UniRef90_H2LZJ7 M R E I F G K I D E N S G F I S D Y E L S E L L K E A G H P L P G Y R
UniRef90_A0A023F570 N L R L G F S H I D K N K D G K I D L E E L I R A F K E L G V D V E I N E
UniRef90_W8CB87 E V I A A F K A A D P H N N G T I S A R Q L R N L L Q N W G E G L S V R E
UniRef90_L81PP9 L Q Q L F A L F D R N N D G T I D F R E Y V I G L T V L C N P V N T E K I
UniRef90_X1XTR3 R A R K L F Q A C D G D G D G Y I D S R D L L T I C R Q L N L E D S

	90	100
UniRef90_R7UZ73	V L D I F L K L D K D M D D N L	S E R E F L S A A K S
UniRef90_E9HSW1	A K S I F A R M D E N G D G K L T	E E E F L K
UniRef90_H2SKL1	V S L I F E R L D V N G E G E L T	L E E F I E
UniRef90_UPI00026571A3	L D E I L L H T D I D R D R D G R I	L N Y Q E F L A A L T
UniRef90_D2VXD7	V D A T F A E A D T D G D G K L T	S F E E Y R V L V T
UniRef90_A7RJ54	L E E M L V D L D L V R D R K F T	F E E F K K L V T
UniRef90_A0EED8	V D K L M S V V D I N K D G Q T I	S F D E F W N W W Q
UniRef90_C4P7Z5	V D K T M A E A D L K G D G K I E	D K E E W K E F V
UniRef90_F6ZBB5	L T D M L N E V D L N K N G K V I	E L D E F I E L M
UniRef90_Q6CE05	R K L F D K F D L D K S G S I S	Y D E Y V R A L E A
UniRef90_UPI0002B4233F	I D E L M E I F D T N N D G F I	D Y E E F V K I I
UniRef90_F2U698	T E R I M Q D V D S S G D G V L T	D F D E F C
UniRef90_UPI00026573CF	T K E L F L K M D Q D G D G T L	D M K E F V I E
UniRef90_UPI0002651F29	L Q D M M I E T D F D S D G T V	S L E E W I R
UniRef90_W4FSZ4	V R K M I A D L D K D E N G T I	E F E N F V E M M T S
UniRef90_Q54NH0	A D E L I R D T D T D R D G Y I	S S D E A T K L I L S
UniRef90_E1BMS3		
UniRef90_F2U9E3	A M E M L S L S D E D K D K G V	T F Q E F V N
UniRef90_G1RY56	L R E F L Q K M D R N K D G V V T	I E E F I E
UniRef90_W4Z3S9	Y D L L I R K F D R S G K G S I	A F D D F I Q
UniRef90_UPI00042C50F8	L D Q L F E H C D V D N D G L I	N Y L E F A N F L
UniRef90_D0N1M0	T A E A F T L A D T N Q D D R L	S F E E F T Q
UniRef90_UPI000440D2C1	V A D I F D R D G D G Y I	D Y Y E F V A A L H
UniRef90_R4GDS9	V E E Q I R A G D I N H D G Q L	D F E E F T E Y L R S
UniRef90_W2Q5F5	T E A L F D R Y D A D L D G I L	S Y A E F A Q A I T G
UniRef90_V9F717	A R A F L Q H I D K D G N G S I	D V D E F E E L V R
UniRef90_B7Q2D1	V E D M I K E A D L N D G D G L V	N Y D
UniRef90_K1S6H1	L D A W W K E A D L N G D G F I	S L D E Y A K V M T S
UniRef90_UPI0003C13245	L E E M M K E I D Y D G N G T V	S M E E W I K
UniRef90_M0T284		
UniRef90_V9LB92	L R D F F Q K M D K N K D G V V T	I D E F I E
UniRef90_F0YI15	I A S L I Q F L D T D K S G E I	E F N E F T R L M E
UniRef90_A9RTQ5	V D K T F V E A D T K H D G R I	D L D E W K S L V
UniRef90_U3JK58	L H E I L N E V D L N K N G Q V	E L N E F L Q L M S A
UniRef90_UPI000273CE37	T E K I F R Q M D T N N D G	
UniRef90_C3Z5X9	L Q D M V R S V D Q D G N G T I	D F N E F L Q M M Q
UniRef90_UPI000462819B	S K L M F Q M Y D I D G N G F L	S K D E F F R M L R S
UniRef90_B3RJ48	L Q I A F Q T L D V E G N G K I	S K E S M K T I M T
UniRef90_G3Q7X5	V D K T I T N A D K D G D G R I	S F E E F C A
UniRef90_T0RWW2	L A K L Y E A A D N D G N K E L	S F D E F V Q L L Q
UniRef90_G4YZI8	T M Q A F Q E A D V N R N G K L	S L E E F R A
UniRef90_W2Q9D3	A S E I F E V A D V N K D G N L	T F E E F Q K
UniRef90_C1MIH3	L D A L I A R Y D S T G T G Q I	S K A D F V
UniRef90_K7V9A2	C T A M I C R F D L D G D G V L	S F E E F R V M M D A
UniRef90_K7FDK7	V D E L Y R E A P L D K K G N F	N Y I E F T R L L K
UniRef90_A0E4S7	E I M N E V D A N H D G A L	S L V E F T N M M K
UniRef90_K1QH01	V D L F Y M T G D I N G D G K L	N W K V F Q A
UniRef90_I1PFW2	C E A M I R A Y D V D G D G G L	D F H E F Q R M M
UniRef90_T0PI82	I D L M I N E I D Q D S N G E I	D F D E F V A V M
UniRef90_UPI00045720E3	L K F A F K L F D L D E D G Y I	T E N E F S S L L R S
UniRef90_E2RCK9	V D I T L K K M D Y D N D G K I	S F A D F E K A V K
UniRef90_M4DQJ4	C A E M V Q A V D A D G D G Y V	S F E E F M A M I
UniRef90_UPI0001DE7EA6	L K F T F S M H D V N G N G I L	P K E E F S R M L R S
UniRef90_A0BU10	W K Q L I H E V I N D K E E I	T F Q D F S E L M
UniRef90_O61171	L N E M I V R A D T D R D G K V	S F E E F Y A I M T
UniRef90_E2B140	V D R F F E K M D A D K D G V I	S R E E F M S
UniRef90_J9J4E2	V I E L V Q S F D P N N D G K I	A F N E F I Q V M Q A
UniRef90_UPI0003344626	V E M L V A G H E D S N G C I	N Y E A F V R H I L S
UniRef90_K7V0W4	A D A M L R E A D P R G E G R V	E Y K H Y V K V L
UniRef90_U3KQI3	I Q K L M L D G D R N K D G K I	S F D E F V Y L W
UniRef90_Q9VYW6	A D Q I L K R S D Q D N D G H L	D F E E F Y A M
UniRef90_M4FCI2	V E K M I V S V D R N Q D G R V	D F S E F K N M M R
UniRef90_V9K9X6	S K L M F R M Y D V D G N G V L	S K E E F S I L L R S
UniRef90_T1IEX0	V D L I F R M D L N K D G V V T	L D E F L E
UniRef90_UPI0003EAE657	I D N I L E E S D I D R D G T I	N L S E F Q H V I
UniRef90_G1U053	L Q E M T D E G D R D G D G E V	S N E K E F L R L M K
UniRef90_C5L793	A K E C L A S A D P T G S G T I	S E E F
UniRef90_W5B3D8	I D P L L E E A D I D K D G K I	S L D E F R R L L K
UniRef90_W1NJU6	R K R M I H K F D E N L D G R L	D F Q E F K N M M M
UniRef90_U7C3P7	C Q G M I A R F D L N G D G V L	T F D E F R V M M
UniRef90_G3UHS3	A E K I L H S M D R D G T M T I	D W Q E W
UniRef90_M1CIX5	L D K T F L E A D S N Q D G K I	D L S E W H D F V
UniRef90_P86760	T K A F L A A G D S D G D G K I	G F V A L V K A
UniRef90_M3ZWF9	I K A M M Q A A G F D D K E K I	S W R D F H W L L K
UniRef90_X6P8P8	M L K M I D D A D L D K D G T I	N Y E E F L R A L H
UniRef90_F6YHE4	A K K I L Q S I D V D G T M T V	D W N E W
UniRef90_C5K899	A E V L Y G E I N L P S G A K I	S L E K F T E L
UniRef90_T0RAF3	A Q D A F V Q Y D A N R D G Q L	S Y D E F
UniRef90_UPI00034F3EF4	M G A V A D L F D R N G S G L I	D W E E F I A A L R
UniRef90_U6HQ80	I D G L F T E I D R D G S G S I	N F D E F L E A L R
UniRef90_UPI0003891850	I D N L A R S L D F N K D G S I	D F N E F L E
UniRef90_I1KUB7	I Q E M V D E A D Q N D D R E V	S A E E F I T M M
UniRef90_C5Z5A3	C R D M I R L V D S D G D G M V	S F E E F K R M M T
UniRef90_X2ANQ7	Q	D Y D A D S K I N F E E F K R L L
UniRef90_A0A026WFR5	L D R V F K K L D L N Q D G V I	T I E E F I E
UniRef90_E2B3W7	I E D L F E D A D Q G N R G A I	T F E
UniRef90_M0WZV6	V R D M I A A H D Q D S D G R V	D F H E F K A M M A
UniRef90_H2LZJ7	V R E I L Q E L D R N K D N Q I	S F D E F L A I V K
UniRef90_A0A023F570	A K K L L Q R M D Q D G S L E I	S F N E W R D F L
UniRef90_W8CB87	L D S I F R E A N V N S N S M V	R Y A D F L K I
UniRef90_L81PP9	V Q M S F K L F D L D K D G F I	T E Q E L A A I L R A
UniRef90_X1XTR3	V D D L M K E L I G A D K S G R I	S F D E F V R

UniRef90_G5A4V5
UniRef90_F1KV7
UniRef90_V4V2Y2
UniRef90_C1E0B6
UniRef90_UPI0002653448
UniRef90_I1HNT9
UniRef90_Q66JK2
UniRef90_U6IHZ9
UniRef90_UPI0003EE3E37
UniRef90_I7MHV8
UniRef90_UPI0003F09E2D
UniRef90_UPI0003D7297F
UniRef90_H3JSS4
UniRef90_E0VJ88
UniRef90_A0DUC8
UniRef90_M4DGV2
UniRef90_U3IV29
UniRef90_F1SNB9
UniRef90_Q1D9Y7
UniRef90_M5G314
UniRef90_R1B6R4
UniRef90_J3SF86
UniRef90_G0S0F1
UniRef90_T1L4L5
UniRef90_S2KBH0
UniRef90_W2S057
UniRef90_UPI0003ADFE6
UniRef90_UPI0004421A3
UniRef90_F4XUT5
UniRef90_UPI0002C36130
UniRef90_Q7PFP7
UniRef90_UPI0002C67598
UniRef90_U9UY92
UniRef90_H2Z7Y3
UniRef90_G1TW72
UniRef90_UPI000440E433
UniRef90_R0G0D9
UniRef90_B3S424
UniRef90_M4DN40
UniRef90_V5HAU9
UniRef90_B3RRJ3
UniRef90_K1RDA2
UniRef90_M3ZX77
UniRef90_G0QYB9
UniRef90_UPI0003B400D4
UniRef90_E4ZVS9
UniRef90_L7M239
UniRef90_F6YQQ4
UniRef90_K3YT59
UniRef90_C7TY25
UniRef90_V7ARM8
UniRef90_H3AD44
UniRef90_UPI0002C3F3D7
UniRef90_I1HNR8
UniRef90_M7B9A2
UniRef90_L5M410
UniRef90_UPI000441C9A6
UniRef90_B5Y3F9
UniRef90_G0UV50
UniRef90_A0DBN0
UniRef90_UPI00015JN58
UniRef90_C3Y9W4
UniRef90_B9I5E9
UniRef90_K1QSK4
UniRef90_A0D1T5
UniRef90_T2MDC9
UniRef90_L1JIM1
UniRef90_UPI00042B7ADC
UniRef90_B9R7D4
UniRef90_UPI00046C229A
UniRef90_UPI000223FED5
UniRef90_H2YXP5
UniRef90_UPI0003443990
UniRef90_A0A023EF37
UniRef90_UPI00045DB01A
UniRef90_D0NY07
UniRef90_W5PG97
UniRef90_G1NV40
UniRef90_H2VC64
UniRef90_E4XQD9
UniRef90_A0A022S0E6
UniRef90_K4B754
UniRef90_UPI0002B8E810
UniRef90_U5CZA0
UniRef90_G0QQN6
UniRef90_V9FU45
UniRef90_B4J7V1
UniRef90_B9GXJ8
UniRef90_UPI000350EBC8
UniRef90_H2T4K3
UniRef90_W4KN30
UniRef90_W5K7H4

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

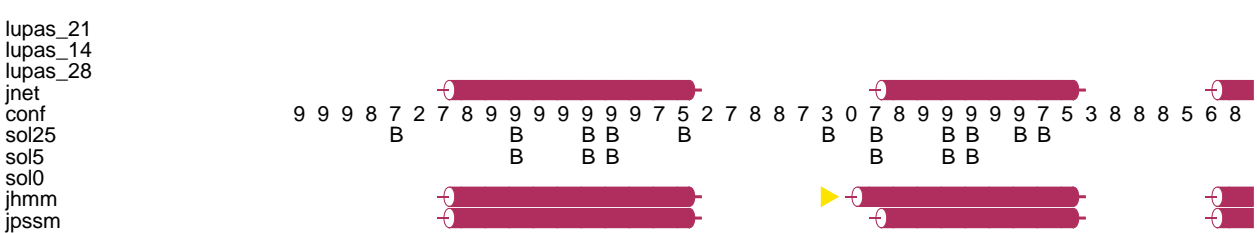
UniRef90_G5A4V5 E L R E L F R N L Y D A D D N G D I | D A G E L E R F Y D S D S R G S S Q L T K D 80
UniRef90_F1KVf7 S A R E R F N Q L D K D D G N K G Y I | T V N D L R K H F R T H G E K I D E R E L
UniRef90_V4V2Y2 E I R N M I N E V D L D D G N G T E I | E F L N E F L K L M A T K M K E N D E A Q E E K E L
UniRef90_C1E0B6 U N K M F E N Q F D S D G N N E V | D V Q E L K L V A M S V T M Q D E T E I T D G D
UniRef90_UPI0002653448 K L R F L F S V Y D V D G N G A I | D H E E L K C L C E S S M T I S E A T I D A L
UniRef90_I1HNT9 K L N F A F K L Y D L R Q T S G F I | E R E E V M Q M V I A I L M E S R D L S E A L
UniRef90_Q66K2 D W Q N I F R T Y D R D N G S G L I | D K N E L K Q A L S G F G Y R L S D Q F
UniRef90_U6IHZ9 S F K E A F S L F D K D C D G S I | T I E E L G E V M R S L L S G F G L N P T D A E
UniRef90_UPI0003EE3E37 K M R L A F N S L D K N D G G L I | E T S E I I A A L K S R L G N I S E A Q
UniRef90_I7MHV8 K L Q A V F T A I D E N G N G Q L | S L D E L I T G M A R F Q S G A N F S E E E
UniRef90_UPI0003F09E2D A I L S A F R M F D P S G Q G V V | N K D E F K Q L L L T Q A D K F S L A E
UniRef90_UPI0003D7297F D L K L I F N I T D S D D Q S G L I | S M D E F R T M W K L F N A H Y K H I D D S Q
UniRef90_H3JSS4 E R V F Q L F D S D N G S G T V | S L S E F L D A M H Q F A G K S P N D K
UniRef90_E0VJ88 K W V E I F N K F D K N R D G K I | S F K E L K K R I K E Y N S E T P A S T
UniRef90_A0DUC8 K V K A A F K M F D A N R D D G R I | S K E E L E M M I G N L E D N L G W Q L I L V E
UniRef90_M4DUGV2 D L A A V F A Y M D A N R D D G R I | S A E E L K K S F K T L L G E Q L S D Q E
UniRef90_U3IV29 K L R W T F N L Y D I N K D G Y I | N K E E M M D I V K A I Y D M M G K Y T Y P V
UniRef90_F1SNB9 V I M Q A F R K L D K T G D G V I | T I E D L R E V Y N A K H H P K Y Q N G D W T
UniRef90_Q1D9Y7 E V L D I F Q R Y D R D R T G T I | D R A E F A R L J E A L L S G F G Q N F S D E E
UniRef90_M5G314 D Y W I A F Q Y F D A D R S G A I | D Y D E F K N V F E S C L G P E A L P F N F D
UniRef90_R1B6R4 D F R A A F E R L D A D G S G Y I | E M P E V E A L L A S V Y G G E A P P P Y E
UniRef90_J3SF86 K M K L A F K S L D K N N D G V I | E A T E L V Q S L K I L G I D S P E K Q
UniRef90_G0S0F1 L L P L F R A V D K D G T G Q L | S E R E L S A A L V N G D W T A F D P Q T
UniRef90_T1L4L5 D L Y K I F S A A D R D K G H I | S A D E L Q K A L S N G T W S P F N L R L
UniRef90_S2KBH0 Q L W N W F T A V D T D H S G Q L | S V D E L Q R A L V N G D W S P F N I E T
UniRef90_W2S057 W V K Q T F E E A D K N G E L L | D F K E F I V G L S V T S R G K L E D K
UniRef90_UPI0003ADFEE6 L L K A F Q E Y D K K G R G L I | N I E E I H Q L M H K L N V N L P R R K
UniRef90_UPI0004421A3 D L R Y I F D A I D R D Q S G S L | D R E D L W S V C R E F N L T L N G K L
UniRef90_UPI0002C36130 E F K E A F T L M D Q N R D G G F I | D K E E L K D T Y A S L G M C G G R T P D E E
UniRef90_Q7PFP7 D Y Q A T F S K Y D V G N D G Y I | D L A E L K I M M E K L G A P Q T H L G
UniRef90_UPI0002C67598 D M E K M F K Q Y D A G R D G F I | D L M E L K L M M E K L G A P Q T H L G
UniRef90_U9UY92 N L F K I F K K L D I D D R R I | D F D E F K K G Y E L M K M N G G S D E E
UniRef90_H2Z7Y3 K L Q G V F K L Y D T D G N G N L | D S T E M E R I V N Q M M H V A E Y L G W D V
UniRef90_G1TW72 D L K A A F K I Y D F N N D D Y I | C A W D L E Q T V S R L T R G E L S A E E V V
UniRef90_UPI000440E433 E L Q L A F K E F D Y D Q D G Y L | H Y K D V A D C M R T M G Y M P T E M E E
UniRef90_R0G0D9 L K G A F D L Y D M D G D G K I | S A S E I H V M L K R L G E K H T M E E
UniRef90_B3S424 E W R Q V F N K F D T D R T G V I | N A Q E L G I A V S Q M G F R L S S Q F
UniRef90_M4DN40 A L V G A F N V F D V N D G G Y I | S S E E L R T V L E R L G F E E E T K S W D
UniRef90_V5HAU9 W R S V F E K Y D H D N D G G Y I | P L D E L L Q L L H E H N Q E L E H M P S V
UniRef90_B3RRJ3 I K Q A F L T F D D D K D G R V | S H K E M R R I I E K F C F R L G D N Q
UniRef90_K1RDA2 E V K A A F R L Y D F D E N D D Y I | D I K E L V N R Q T G E E T L T A M D L E R L
UniRef90_M3ZX77 Q W K S L F D Q Y D P E N S G F I | S T E R F R D L L A T H G S E L D P H K
UniRef90_G0QYB9 Q T R N I F K E V D K D G S G Y V | D L N E F D G L L R A V G I N V S Q D E
UniRef90_UPI0003B400D4 R V M D F F R R I D K D Q D G K I | T R Q E F I D G I L A S K F P T S K L E
UniRef90_E4ZVS9 A L W R L F G A V D K D G S G S L | T E A E L R T A L V N G D W T P F D P H T
UniRef90_L7M239 R L E K L F R K L D V N E D G R I | D I N D L T T G L R K L G A P Q T H L G
UniRef90_F6YQQ4 D M E S L F R R Y D S G K D G Y I | D L M E L K L M M E K L G A P Q T H L G
UniRef90_K3YT59 E L Y R I F Q A I D V E H N G C I | P E E L W H A L V K A G I E I G D E E
UniRef90_C7TY25 A I R Q I F R R V D K N S D G N V | D H K E L Q T A L S N G I G T S F N T N T
UniRef90_V7ARM8 M L H E A F K I F D E D N D G Y I | D A M E L K R V L D C L G L D K G W D M N A
UniRef90_H3AD44 M F M V A F Q L F D K N G N G E V | T F Q N V K D I F G Q T I S H H H I P F N W D
UniRef90_UPI0002C3F3D7 L Y D F A F E V I D T D D S G Y L | E R E E V T F F I E T Y L Q R K P C R K E
UniRef90_I1HNR8 D A K Q R F S K L D K D N D G G F I | S E H E I E P V L D K L H L S E R Y A R R Q Q
UniRef90_M7B9A2 D F V E G L R V F D K E G N G T V | M G A E L R H V L A T L G E K L N E N E
UniRef90_L5M410 K L K R Y F K L Y D A D G N G S I | D K K E L N I F M T L N G Q Q L S P E E F
UniRef90_UPI000441C9A6 E L L E A F S K A I D G N D G G Y I | L H C E L Y K I L E T R G E K M S L D E
UniRef90_B5Y3F9 E Y R K I F D A I D M D G S N K I | R Y T E F L S A T I E A H G A I S E E R
UniRef90_G0UV50 K L R F A F S I Y D I D G D G K I | S N R D L N D A L K L M T G P N M T D V Q
UniRef90_A0DBN0 G L L A E F K K I D K D N G Q I | S K D E L V R V Y L K Q Y D E N I K A K Q M
UniRef90_A0A015JN58 E I H R A F Q L F D D D N T G K I | S L H N L K V Y A K E L G E N L D E D E
UniRef90_C3Y9W4 V I M Q A F N K L D K T G D N V I | T I A D L K G V Y N C K H H P G E W T E D Q V
UniRef90_B9I5E9 E L K E A F K V F D K D N D G Y I | S P N E
UniRef90_K1QSK4 M Y A L A F Q V F D R N G N G Y L | S C S E F E D I J K H T T L N R E I P F N F N
UniRef90_A0D1T5 T P Q Q L F A A F D K D S N G K I | N K A E L E E V F S K M R I K N L D K D D V E
UniRef90_T2MDC9 E I P E I F R V I F D K D G N G H I | T S A E L A D V F E K L G E N V P G Y K
UniRef90_L1JIM1 E I P E I F R S I D I D R S G G V | D M I S I R N A F D T F N I E C S D V E
UniRef90_UPI00042B7ADC T I V E A F L F L D K N G D G K L | N K K D M I K A L N E A S P W E R S P A H V
UniRef90_B9R7D4 L K D A F R R F D T N D G D G Y L | S V E E L K N A Y S T L G M S F P T C R A W
UniRef90_UPI00046C229A A F H Q A Y S F F S K D A D G S I | D L Q G L E T T A K K L G S L T E Q E
UniRef90_UPI000223FED5 K L K W Y F K L Y D A D G N G S I | D K K E L L S I F T A V K A I N G Q Q T E E F
UniRef90_H2YXP5 L R V F Q S Y D V D G G T L | Q R R E L R K L L R Q C G A K L T G K Q
UniRef90_UPI0003443990 A F Q D A Y N F F D K T G D G C I | D L H G M M C T L A K L G M S L T K H D
UniRef90_A0A023EF37 E L R E V F M M Y D K E A K G F I | P V D S F K Q I L R L E D G A V P E E E
UniRef90_UPI00045DB01A D L E I F N A I D T D H S G L I | S M E E F R A M W K L F S A H Y N V L D D S Q
UniRef90_D0NY07 R L V G Y F R R H D L D K D G H L | S M Q E L R A L F P N D D P V I
UniRef90_W5PG97 H I W E A F C V F D K N | S K F R S A R P R L G K K L N N Q E
UniRef90_G1NW40 Y K K R F H K E D T D K G F I | T T V D V Q R V L E S I N I Q M D E N T
UniRef90_H2VC64 K L K L T F K S L D K N D G G R I | D H T E I K Q S L A D L G I D D S K E E
UniRef90_E4XQD9 E M Q D L F D L F D I D D S G S I | S K R E L R T V L S S L G E Y P T E E M
UniRef90_A0A022S0E6 D L K E A F K M Y E M E G S G C I | T P K S L K R M L S R L G E R R D V D E
UniRef90_K4B754 E V F D V F D E N R D G G F I | D E M E L Q K V L C A L G F K E A E L E N
UniRef90_UPI0002B8E810 K A K L M F N M Y D L D K S G E L | S K K E F K V M L K S M M D M V N A S V D S E
UniRef90_U5CZA0 E I K K L F D E L D K D K D G F L | S Y E E L M P V I A K L H P G E Q Y Y A K Q Q
UniRef90_G0QQN6 K I Q Q I F E Q I D L N N D G Y L | N R E E L M K T F Q K G Q N F S D Q Q
UniRef90_V9FU45 E L K E A F E L F D T D K V G S I | D Y H E L K V L M R A L G F Q V S K R E
UniRef90_B4J7V1 T Y V K R F E L I D K D K G Y V | S I N D I R R A L K N F G D G D V S G E Q
UniRef90_B9GXJ8 K A A F A F K L Y D I W E T G F I | E R D E A R F L D E S E L M L S D D I V E A I
UniRef90_UPI000350EBC8 D F F R R I D K D Q D G K I | T R Q E F I D G I L S S K F P T S R L E
UniRef90_H2T4K3 L K Q T F E E A D K N G D G F L | N I E E I Y Q L L H K L N V N L P R R K
UniRef90_W4KN30 D Y W I A F Q Y F D V D S G T I | T F D E L K N V F Q A N V G P D A I P F N F D
UniRef90_W5K7H4 V I M Q A F R K L D K T G D G V I | T V E D L R G V Y H P K Y Q N G E W T E D Q I

UniRef90_G5A4V5 VTRITSAFDVNANASLDLEEFLELFR
UniRef90_F1KV77 LHELLNEVDLNKNGEILELTFEYQL
UniRef90_V4V2Y2 AFKMLIEADSDGDGQVINSYEFAARM
UniRef90_C1E0B6 VEVWLKEAFDGDGLISRAEFCAGMT
UniRef90_UPI0002653448 TSALEFEAADTDGSGAISF
UniRef90_I1HNT9 IDKTFEDADADKQDGKISQEEWKEFV
UniRef90_Q66JK2 YDVLIRKFRDRQRQGVAFDDDFIQ
UniRef90_U6IHZ9 LGDILINEGDIDGSRITIDFPEFLTLM
UniRef90_UPI0003EE3E37 SKKILQSDSDGTMVDWDEWK
UniRef90_I7MHV8 LKDLIFQKMEDEDSGEVDSQEEFTH
UniRef90_UPI0003F09E2D VEQMFALTPLMDLJAGNIDYKSLCYVIT
UniRef90_UPI0003D7297F IDELASIVDFNKGDNIDFNEFLK
UniRef90_H3JSS4 IKVFLFKVYDLDGDGLIQQSLELQKVMKA
UniRef90_E0VJ88 IRSLLKKA DTDGVL D L N E F L A L V K S
UniRef90_A0DUC8 CNA
UniRef90_M4DGV2 AEAAVKLS DLDGDGM L D F E E F A Q L L K G
UniRef90_U3IV29 LKEFFQKMDKNKDGVVTLD E F I E
UniRef90_F1SNB9 EEQVIFRFKFPYDKDGVVTPEEFMN
UniRef90_Q1D9Y7 LEILAVDILVDTDRGKI S W N E F K A W W N S
UniRef90_M5G314 CDWKL Y L G R K D G A H V L G Y N E F T Q L M K G
UniRef90_R1B6R4 ARA L M K L M D A D G D G R I A W D E F S A A L G A
UniRef90_J3SF86 A G K L L Q S M D A D G T M S V D W N E W
UniRef90_G0S0F1 VRMMIRMFDSDRS GTIGFEFFCGLW
UniRef90_T1L4L5 VKMMIGMFD RDGNQGTIDYNEFKQLWK
UniRef90_S2KBH0 VRTMVNMF D K D N S G T I D F N E F A G L W K
UniRef90_W2S057 LDWAFQLYDINGDGKISYEEMLAIVTA
UniRef90_UPI0003ADFEE6 VRQMFQEADTDEDNGT L T F E E F C K M M
UniRef90_UPI0004421A3 LDDLM E Y C D E D K D G F L N F V E F A N F L T
UniRef90_F4XUT5 L N F V F S S M D V D N S G E I G F E E F G E L L
UniRef90_UPI0002C36130 LDAMLREASGPI N F T M F L N M
UniRef90_Q7PFP7 LKGMIAEVD E D K D G K I S F R E F L
UniRef90_UPI0002C67598 LKNM I K E V D E D L D S K L S F R E F L L I F R
UniRef90_U9UY92 LKAKEDEIDTNGGGYILFDEFC
UniRef90_H2Z7Y3 L E E M L Q E I D Y D G D G V V T L N E W I Q
UniRef90_G1TW72 CERVLDEADGDHDGR L S L E D F Q N M I
UniRef90_UPI000440E433 L T E L I Q Q I K M K W G H V D F D D F C E L M
UniRef90_R0G0D9 CVVMVQA V D A D E D G F V N F E K I K T M M S S
UniRef90_B3S424 VNLIARFD PQSRRGL K M D M F I Q V
UniRef90_M4DN40 CGRMI RA HDKNLDGV I D F E E F K N M M
UniRef90_V5HAU9 LQEI V E R A D W D S N R M L S F E E F T R M V H A
UniRef90_B3RRJ3 FREIIRLDPNRNGYI SYKEFMDT
UniRef90_K1RDA2 I D N I Y D E S D I D E D G T I S Y P E F E N I V E
UniRef90_M3ZX77 LEVLLALADGNSDGKI CYQDFVNL M
UniRef90_G0QYB9 Q L N Y F N R F D K N N D G Q I S F L E F K I I L E
UniRef90_UPI0003B400D4 MSAVIA D I F D R D G D G S Y I D Y Y E F V A A L H
UniRef90_E4ZVS9 VRMMIRMF D T D R S G S V N F D E F C G L W
UniRef90_L7M239 VEKFI T V S D T G K D G T V D F A E F V H Y I
UniRef90_F6YQQ4 L K E M I R E V D E D L D S K L S F R E F L L I F R
UniRef90_K3YT59 L A R F V E H V D K D N D
UniRef90_C7TY25 V E M M I R M F D Q D R N G T I S L N E F L E L
UniRef90_V7ARM8 I E K M V K V A D L N F D G K V D F D E F E L M M
UniRef90_H3AD44 CE F I R L H F G N D R K K H L N Y S E F T Q F L Q
UniRef90_UPI0002C3F3D7 VA K V I A K L D A N K D G K I S K D E F L E V
UniRef90_I1HNR8 AT H A M S E A D K D H D G R L T L E E M I E
UniRef90_M7B9A2 VEQLMT GQEDANGC I N Y E E K R L L T G
UniRef90_L5M410 T N L V F H K I D I N H D
UniRef90_UPI000441C9A6 L N A L S R L P E V N N D G Y F D Y Y K F C H L Y T
UniRef90_B5Y3F9 L A E A F D R I D S D S G Y I S A A N L K A M L
UniRef90_G0UV50 V D K T F I E V D F D N D G Y I T F A D F E K L
UniRef90_A0DBN0 V D D I F D K V D T N K S G Y V D F T E F I T
UniRef90_A0A015JN58 L Q A M I D E F D L D E D G
UniRef90_C3Y9W4 F G E F L K S F D E N M D G T V T H D E F
UniRef90_B9I5E9 S E F I S L H F G K D K Q R K I T Y S E F T Q L I H
UniRef90_K1QSK4 L R E I F K A L D R E D G S I D V K E F I K Y L E
UniRef90_A0D1T5 I R E L I A E V D E N K N G T I E F D E F L Q I
UniRef90_T2MDC9 L A N L F I E A D T D G N G L L D V D E F Q R L M R
UniRef90_L1JIM1 T R T R F K E M D W D K N G K V S F R E F L
UniRef90_UPI00042B7ADC R A V Y V A D E N R D G Y I S E K E F Q K L L K A
UniRef90_B9R7D4 A Y D E L S Y A D V D G D G K V N F S D F L T I V T
UniRef90_UPI00046C229A T A T V F Q K I D V N D D G E L T L E E F L S
UniRef90_UPI000223FED5 C D D L I D Q L D T D G D G E M N F A E F M S F L
UniRef90_H2YXP5 V Y N E L R C A D I D D G K V N F S D F I K V L T
UniRef90_UPI0003443990 L D D T V D E I D A D G S G T V D F E E F M E V M T
UniRef90_A0A023EF37 V N K L A N L M D L N K D G S I D F N E F L K
UniRef90_UPI00045DB01A V D Q L F A D L V D L D S G L I D F R E L C L A L R A
UniRef90_D0NY07 V E E M I W A A H M D A D G Q V N C K E F M H L L V I S
UniRef90_W5PG97 L H E I L N E V D L N K N G Q V E L D E F L Q L M S A
UniRef90_G1NW40 A E K L L Q S I D V D G T M T V D W N E W
UniRef90_H2VC64 L D Q M M T E F D E D G N E V I D F D E F L A M V
UniRef90_E4XQD9 C T G M I A R F D L N G D G V L N F D E F K E M M
UniRef90_A0A022S0E6 C R K M I L A F D G N K D G K I N F E F V E M I
UniRef90_K4B754 V N T M L A T H G Y E H K E S L T L E D F Q T V M Q
UniRef90_UPI0002B8E810 A D Y I K M Q A D S N K D G R L S L Q E M I E
UniRef90_U5CZA0 I E K L V S V L D F D K D N H I S L K E F V K F
UniRef90_G0QQN6 V L D L V E D V D V Q R S G R V D F N D Y M E I M R
UniRef90_V9FU45 L H D L L K E I D T N M N G Q V E L D E Y L Q M M S A
UniRef90_B4J7V1 I D K T F E D V D S N G D G K I D Q E E W K E F
UniRef90_B9GXJ8 M S A V A D I F D R D G D G Y I D Y Y E F V A A L H
UniRef90_UPI000350EBC8 V K Q M F Q E A D T D Q Q G T L T Y E E F S K M M
UniRef90_H2T4K3 C D A K L Y L G K N G T H V L G Y N E F T Q L M K G
UniRef90_W4KN30 F R K F L D S F D S D K D G K V T K E E F V N
UniRef90_W5K7H4


```

UniRef90_UPI0003599A2E      1                               20           30           40
UniRef90_F0ZLZ7              DGMIDYNAWFHELAIVSAEELSD
UniRef90_UPI0002A4834F      DGMIDYNAWFHELAIVSAEELSD
UniRef90_W5EZP2              DGMIDYNAWFHELAIVSAEELSD
UniRef90_UPI00022B570B      DGMIDYNAWFHELAIVSAEELSD
UniRef90_J9JZ65              FIEEMRKVLPKRDVVKL
UniRef90_L117U3              FGSLSGLSGMESA
UniRef90_I1LLG4              KDAEKLEIEELDS DSGDGFLESLIEDFVKLMEAGA GEDEK
UniRef90_A0DX59              F LQFMTFSADQE Q
UniRef90_E0YL14              M P S Q Q
UniRef90_Q231P8              I F D D D N S G T V D Y K E L I I L E M F K E N S I D
UniRef90_S9VHE8              D F A K A V S V L D S H A G R E E
UniRef90_UPI0003288220      D G E G N L T F N D F V D M F S V L C A G S P R
UniRef90_UPI0002BCCCE84      Q L T L K Q E E
UniRef90_B9QPX4              V D F N G F L E L C V G T R S S T E
UniRef90_B1N4A1              F P L A C S I S G T E F R
UniRef90_Q4SDE4              D R D G S G T L D L E E F L R A L R P P M S Q A R
UniRef90_UPI00045DE92C      D
UniRef90_UPI000393EFE9      G L K P Q D V E S M L A D K D C N G Y L S F R E F L D I V F M K G S P E D
UniRef90_UPI00035A2644      M M L R M F D S D R N G T I N F D E F C G L W S F L A
UniRef90_M1VX29              L K Y L M A G I S D E D S L S K R Q R T R D Q
UniRef90_R1E0I0              N V K N E E I D E M L K E A P G P I N F T V F L T M F G E K A D P E E
UniRef90_UPI000236A97      L C E E E I R E R D S D K D G K I N F N E F F H G L H S E D S R D
UniRef90_UPI0002B4B112      I S D E D S L A R R Q R T R D Q
UniRef90_B9DI81              R M N
UniRef90_UPI0003F17709      D P D K N G Y V D F E M F L H M I H E V P E N H E
UniRef90_E0VSY4              F I A A V N L Q G K M K V D
UniRef90_UPI0003C26765      D G V V D F R E Y V T A M L I E G S S V D
UniRef90_UPI0004404D20      L A R A A L T A Q Q K A
UniRef90_W5LLV9              L F D Q K G N G V I E F G E F L S V F H P G A P E E Q
UniRef90_A8J3V9              L A P E E I D
UniRef90_K3XLQ6              M K R D
UniRef90_Q0P4I0              G D G E P N E E
UniRef90_Q00Z29              N Y I T L V E F M N I I G R S S N C E Y
UniRef90_M5X7T8              G D G T I D F R E F I C A L S V I T S R G E Q
UniRef90_G7YMX8              N P S E S E L Q D M I N E V D A D G T I D F P G L L R T E M K D T D S E E
UniRef90_G1RMS7
UniRef90_UPI000161EA6A
UniRef90_G1UCY6

```




```

UniRef90_UPI0003599A2E  A A D L I N E F D V N G D G V I G F E E F V Q F M K
UniRef90_F0ZLZ7         L S A V I T K I D A D N S G F I S F E E F V E Y M V S
UniRef90_UPI0002A4834F  I S D L A V T I D S N Q D G S L D I D E F M E
UniRef90_W5EZP2        L K D M V E E V D A D G S G T
UniRef90_UPI00022B570B  I C D L A Q S L D F N K D G R V D I N E F L E
UniRef90_J9JZ65        I I N M L N A A D E D G D G Q V N L T E F M R I I
UniRef90_L117U3        L D S F I E Q T D V D G D E Q I D L E E F E H L A R A
UniRef90_I1LLG4        C T T M I G H F D L N G D G L L C F D E F R V M M Q
UniRef90_A0DX59        V D K V F K W I D L N K N G E I D F Q E F L
UniRef90_E0YL14        V R M M I G M F D K Q N T G T V S F Q D F G A L W K
UniRef90_Q231P8        V R Q I F K E C D T N G D G V L D K E E
UniRef90_S9VHE8        V D K T F I E V D A D R D G F I N F E E F E A L
UniRef90_UPI0003288220  C D K V I E E A D L D G D G K L G F A D F E D M I
UniRef90_UPI0002BCCE84  V E D A L R S A D I D G D G H V N F K D F L A V M T
UniRef90_B9QPX4        V D L M V R E A D R T G D G R L S F G D F E R V F R
UniRef90_B1N4A1        C R H L M R I F D V D F S G I S F Y E Y L A M M K
UniRef90_Q4SDE4        L H E L L N E V D L N K N G Q V E I D E F L Q L M S A
UniRef90_UPI00045DE92C  L R R F L D N F D S S K D G Q V T L E E F V A M M T S
UniRef90_UPI000393EFE9  L E I L F D C C D L D K D G L I N Y R D F A N F L
UniRef90_UPI00035A2644  C I T F L R E T F L N R D A A V D F H R W I A M
UniRef90_M1VX29        V E L L F R T Y D K R G E G V M S F D L F V Q
UniRef90_R1E0I0        V Q R M M L V G D S D G D G R I D A E E Y R R L
UniRef90_UPI0002036A97  V K Q M F K E A D T D D N G T L G F D E F C T F M M S
UniRef90_F7FFU4        I D Q M F A A F P D V T G N L D Y K N L V H I I T
UniRef90_UPI0002B4B112  A E Y I I Q Q A D A D K D G R L T L A E M I
UniRef90_B9DI81        V K Q M F R E A D T D H Q G T L G F E E F C A F M M S
UniRef90_UPI0003F17709  L D R T V Q E A D E D G D G A V S F L E F V K
UniRef90_E0VSY4        I D N L I K M A D P K G T G R V Y Y E G F V E
UniRef90_UPI0003C26765  A L F D Y C D L D K D G L I D Y L E F A N F L
UniRef90_UPI0004404D20  T N L V F H K I D T N D D G E L T L E E F I N G M E
UniRef90_W5LLV9        A N R I F V R L D K D N N A I I S L E E F I E
UniRef90_A8J3V9        I E E L M L I E A D P D G S G E L E F D E F L S L M
UniRef90_K3XLQ6        V D R T F D Q A D T K G D G R I D Q E E W T A F A K
UniRef90_Q0P4I0        L I E I S Q P H I K M R M G G R I D F E D F V E L I
UniRef90_Q00Z29        I A K L F R D A D V D G S G E L D F E E F L A V L E
UniRef90_M5X7T8        V D K V M K E F D T S C D S R I D L Q E F L T
UniRef90_G7YMX8        A A I L E S A D T D G D G R I S V E E F L D I M R S
UniRef90_G1RMS7        V D K I F K K M D Q D K D D Q I T L E E F K E A A K S
UniRef90_UPI000161EA6A  A D A L L Q N I D K N G D H L L D F A E F C T L M
UniRef90_G1UCY6

```

