

1 10 20 30 40
QUERY
UniRef90_UPI00028970BF
UniRef90_UPI0002E0D40B
UniRef90_F7NMB1
UniRef90_D5DIZ7
UniRef90_UPI00046E902E
UniRef90_B5F9G4
UniRef90_A0A013UIW9
UniRef90_R5P4D4
UniRef90_M8B5Q1
UniRef90_R6PQR5
UniRef90_W9B377
UniRef90_C7M771
UniRef90_I8SMH9
UniRef90_R5ECZ5
UniRef90_I8SJU2
UniRef90_UPI0003A63DFF
UniRef90_UPI000288A8D5
UniRef90_C5EYW3
UniRef90_F7NMI4
UniRef90_B9D4M6
UniRef90_V5PSG7
UniRef90_D8FTT1
UniRef90_G0VPQ8
UniRef90_A0A023VHW6
UniRef90_F2LDQ4
UniRef90_P50286
UniRef90_UPI0003472A05
UniRef90_UPI000287BB81
UniRef90_U2P7J8
UniRef90_A6LW23
UniRef90_D0IXQ7
UniRef90_UPI00046337AD
UniRef90_R9TSQ8
UniRef90_J0RU19
UniRef90_D1B281
UniRef90_E1W2Z5
UniRef90_U7UEE4
UniRef90_UPI000403513D
UniRef90_C8WED8
UniRef90_L7UBZ0
UniRef90_E7G732
UniRef90_A1HNB0
UniRef90_J2TIF4
UniRef90_UPI000478D23C
UniRef90_B1LTN5
UniRef90_B1ZNJ9
UniRef90_B2THR3
UniRef90_R5Q1X4
UniRef90_A0A011NKN1
UniRef90_UPI0003B7634B
UniRef90_UPI000368366E
UniRef90_S0AFK9
UniRef90_UPI000393F328
UniRef90_UPI00041DA0E9
UniRef90_E3HU73
UniRef90_UPI000316926D
UniRef90_R7KMN0
UniRef90_F4GUX5
UniRef90_UPI0003D2C2F4
UniRef90_UPI00029A128D
UniRef90_C5VSD4
UniRef90_A1TUT5
UniRef90_F8KRV9
UniRef90_A0A010SGE1
UniRef90_S3YNM0
UniRef90_R1CCA8
UniRef90_F8AF00
UniRef90_S0FSL9
UniRef90_R5JD10
UniRef90_T0MKX1
UniRef90_R5BFQ1
UniRef90_UPI000360EE25
UniRef90_W8T3A2
UniRef90_UPI0002E7CCE1
UniRef90_G2SRM4
UniRef90_R5R233
UniRef90_B8G030
UniRef90_UPI00035E4297
UniRef90_A1D4Y2
UniRef90_E5YB35
UniRef90_UPI00030D3ABF
UniRef90_Q2L2R3
UniRef90_D4W8Q9
UniRef90_B2TET8
UniRef90_UPI000468955F
UniRef90_C5AJS2
UniRef90_A0A023WLS5
UniRef90_F9FQ55
UniRef90_UPI000478B848
UniRef90_N9LK60
UniRef90_L5N3H5

QUERY UniRef90_UPI00028970BF UniRef90_UPI0002E0D40B UniRef90_F7NMB1 UniRef90_D5DI27 UniRef90_UPI00046E902E UniRef90_B5F9G4 UniRef90_A0A013UIW9 UniRef90_R5P4D4 UniRef90_M8B5Q1 UniRef90_R6PQR5 UniRef90_W9B377 UniRef90_C7M771 UniRef90_I8SMH9 UniRef90_R5ECZ5 UniRef90_I8SJU2 UniRef90_UPI0003A63DFF UniRef90_UPI000288A8D5 UniRef90_C5EYW3 UniRef90_F7NMI4 UniRef90_B9D4M6 UniRef90_V5PSG7 UniRef90_D8FTT1 UniRef90_G0VPQ8 UniRef90_A0A023VHW6 UniRef90_F2LDQ4 UniRef90_P50286 UniRef90_UPI0003472A05 UniRef90_UPI000287BB81 UniRef90_U2P7J8 UniRef90_A6LW23 UniRef90_D0IXQ7 UniRef90_UPI00046337AD UniRef90_R9TSQ8 UniRef90_J0RU19 UniRef90_D1B281 UniRef90_E1W2Z5 UniRef90_U7UEE4 UniRef90_UPI000403513D UniRef90_C8WED8 UniRef90_L7UBZ0 UniRef90_E7G732 UniRef90_A1HNB0 UniRef90_J2TIF4 UniRef90_UPI000478D23C UniRef90_B1LTN5 UniRef90_B1ZNJ9 UniRef90_B2THR3 UniRef90_R5Q1X4 UniRef90_A0A011NKN1 UniRef90_UPI0003B7634B UniRef90_UPI000368366E UniRef90_S0AFK9 UniRef90_UPI000393F328 UniRef90_UPI00041DA0E9 UniRef90_E3HU73 UniRef90_UPI000316926D UniRef90_R7KMN0 UniRef90_F4GUX5 UniRef90_UPI0003D2C2F4 UniRef90_UPI00029A128D UniRef90_C5VSD4 UniRef90_A1TUT5 UniRef90_F8KR9 UniRef90_A0A010SGE1 UniRef90_S3YNM0 UniRef90_R1CCA8 UniRef90_F8AF00 UniRef90_S0FSL9 UniRef90_R5JD10 UniRef90_T0MKX1 UniRef90_R5BFQ1 UniRef90_UPI000360EE25 UniRef90_W8T3A2 UniRef90_UPI0002E7CCE1 UniRef90_G2SRM4 UniRef90_R5R233 UniRef90_B8G030 UniRef90_UPI00035E4297 UniRef90_A1D4Y2 UniRef90_E5YB35 UniRef90_UPI00030D3ABF UniRef90_Q2L2R3 UniRef90_D4W8Q9 UniRef90_B2TET8 UniRef90_UPI000468955F UniRef90_C5AJS2 UniRef90_A0A023WLS5 UniRef90_F9FQ55 UniRef90_UPI000478B848 UniRef90_N9LK60 UniRef90_L5N3H5

50 60 70 80

V V P E V K K A N V V K G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A A
UniRef90_UPI00028970BF V V P E L K K E V A N H K K G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A A
UniRef90_UPI0002E0D40B V V P E M K K E V A N I T S G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A S
UniRef90_F7NMB1 V V P E L K K K V A N V S V G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A S
UniRef90_D5DI27 V V P E L K K K V A N V S V G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A Q
UniRef90_UPI00046E902E V V P E M K K K V A N V S V G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A Q
UniRef90_B5F9G4 V V P E M N N K V A N R V D T G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A S
UniRef90_A0A013UIW9 V V P E T N K K V A N H T T G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A S
UniRef90_R5P4D4 V V P E L G K K V A N I G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A S
UniRef90_M8B5Q1 V V P E L G K Q I A N D I H G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A S
UniRef90_R6PQR5 V V P Q M L D L A D V T T G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A S
UniRef90_W9B377 V V P A M T K I A N V T S G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A N
UniRef90_C7M771 V V P E L T K N V A N V R S G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A A
UniRef90_I8SMH9 V V P E L T K N V A N V R S G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A A
UniRef90_R5ECZ5 V V P A M K D Y A N V T S G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A A
UniRef90_I8SJU2 V V P E L H K K V A N V T G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A A
UniRef90_UPI0003A63DFF V V P S L G E K V A N V T A E E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A Q
UniRef90_UPI000288A8D5 V V P Q L H Q N I A N V I K Q A E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A Q
UniRef90_C5EYW3 V V P E L Q N I A N V I K Q A E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A Q
UniRef90_F7NMI4 V V P G L K N D I A S L K S S E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A Q
UniRef90_B9D4M6 V V P E I N G S V I A T I H H A E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A S
UniRef90_V5PSG7 V V P A L L K N I A N V I T G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A S
UniRef90_D8FTT1 V V P E L L K N I A N V I T G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A S
UniRef90_G0VPQ8 V V P E L R D E Y A D V I E S G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A S
UniRef90_A0A023VHW6 V V P Q I L A R D L A D V I E S G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A S
UniRef90_F2LDQ4 V V P A L A R D L A Q I E I G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A S
UniRef90_P50286 V V P A L I N S D L A T I K Q A E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A S
UniRef90_UPI0003472A05 V V P A L L S D L A R I K Q A E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A S
UniRef90_UPI000287BB81 V T G I E S H A E V E S S Y N F S S L P S P H V T P E L M L T E L S N Y I K G F L L K
UniRef90_U2P7J8 V V P Q V K E I A E V Y G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A S
UniRef90_A6LW23 V R N L D K I A N V Y G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A S
UniRef90_D0IXQ7 L P E L L A Q I A N V R G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A S
UniRef90_UPI00046337AD V T N L D K I A N V I E V I F N F A E P G G P H I T P E I M M E L L R N K Y T A K L L A
UniRef90_R9TSQ8 V V P E M K D K V A N V I E S G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A
UniRef90_J0RU19 V V P G T D K V A E I L S S G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A
UniRef90_D1B281 V V P E L K N I A N V L K G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A
UniRef90_E1W2Z5 V V P E I K Q L A N L V K G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A
UniRef90_U7UEE4 V V P Q V Q E A A R T T G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A
UniRef90_UPI000403513D V P D A M K K L A D I K K G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A
UniRef90_C8WED8 V V P E L A K K L A D I K K G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A
UniRef90_L7UBZ0 V V P N L D K L A K L S G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A
UniRef90_E7G732 V V P M L K D V A D L R E Y E F M N I P S R W L E L A N K M E L L V L
UniRef90_A1HNB0 V V P P L A K D V G P V V E V F A N L P S R I M W R L A K V I D D L L A
UniRef90_J2TIF4 V V P E I Q A V A N V K G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A
UniRef90_UPI000478D23C V V P E I N K T I A N V K R G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A
UniRef90_B1LTN5 V V P Q V L A T L A R L D V E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A
UniRef90_B1ZNJ9 V V P Q L A T L A R L D V E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A
UniRef90_B2THR3 V T G I Q G F A E I E S G H T F S N L P S P H M T S E L M L E L S N L V Q N T L L A
UniRef90_R5Q1X4 V V P E I K Q F A E I E S G Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A
UniRef90_A0A011NKN1 I P Q L Q T I A N V R G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A
UniRef90_UPI0003B7634B L P E L A K L A D V R G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A
UniRef90_UPI000368366E L P G V L A K Y A D V V M E E V F N L P S P H L T F F H L Q Q L S R N R V I Q N D E R L A
UniRef90_S0AFK9 V P E L K N V A N V Q G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A
UniRef90_UPI000393F328 V P E L K E D F A D V S G V I A N V P S P H M T P S Y M V H L A K R I N A D L V M A
UniRef90_UPI00041DA0E9 I H G V L E D A E L V V E D F L N V P S P H M T P S Y M V H L A K R I N A D L V M A
UniRef90_E3HU73 V P Q L A G I A E I R A E Q V A N V G S Q N M T H A V W R A L A E R V D A L C R
UniRef90_UPI000316926D V V P E L K K V A N K G G E Q Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A
UniRef90_R7KMN0 V V P G L D K V A N H V E V E Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A
UniRef90_F4GUX5 V P A L A A L A N I Q C E Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A
UniRef90_UPI0003D2C2F4 V P G V L A K L A Q L K V G E Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A
UniRef90_UPI00029A128D V P E L A T L A N L R G E Q V L S N I A S E S I S N E N L L Q L G K R V I A E L A E
UniRef90_C5VSD4 V T G I E K Y A T V E C T T F S N L P G P H I T P D K M L E L S K Y I Q N L L K
UniRef90_A1TUT5 L P E L S N V A H K K G E Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A
UniRef90_F8KR9 I P Q L K N Q V H K K G E Q V F S N M A D S S E T N M T G N E D V V L K L S Q R V I V N E L L L A
UniRef90_A0A010SGE1 V P E L W N V S N V K G V Q V A N V D S S G S E T P G I L L N L T R L V Q E A L D
UniRef90_S3YNM0 V P T N I N E I A T I K G E Q I S N I P G P H M T N E V W L K L A N R V N E L L S
UniRef90_R1CCA8 V P E I F E M A N I T P K L L M N I L S E D M R P E Y W V K I A H E V A K A L N
UniRef90_F8AF00 V P D L N R L A D I S G E Q I A N V I G S S Q D M S F D I L I R L T C R I N E L M K
UniRef90_S0FSL9 V P G L N D I A N V T G E Q I V K I G S S Q D M S D A V W L T L A K K I N E L L K
UniRef90_R5JD10 I P S I N E I A E V S G E Q L S S V G S S Q D M S L D I W K T L A V R I N E I F S
UniRef90_T0MKX1 V P G V E N Y G P F E S K Q L C N I D S S E T N M T M A L W M E L A R T V I Q A A V D
UniRef90_R5BFQ1 A Q A A G H L A D L I V E E P F Q L P S P H I T P R E M L M L K E R V E H H L E
UniRef90_UPI000360EE25 V T N T D K I A N I K V F N F S E I P G P H V T P E I L I K L K S Q V E K L L A
UniRef90_W8T3A2 L P F L S S Y A D I R M L N P F N L D S S E T N M T P P I L M N Q L R L L I E Q E M A
UniRef90_UPI0002E7CCE1 I P Q I N N L A E I E M V P L I S V D S S E T N M T E R Y W I K L R N T I N E Q A K
UniRef90_G2SRM4 V P M I N E V A N L K A I Q L F N V D S S E T N M T E H W I T L A N K I N D L A S
UniRef90_R5R233 I P E L Q E S A F W N V E E F S N A S S E T N M T P E R M L Q L A R R V E E A F A
UniRef90_B8G030 I P N L E E D I D L V E D V F H L P S P H M T P N E M L Q L Q V M I D E K V K
UniRef90_UPI00035E4297 V P E M L D V A N V A G I Q V A N V G S P D V T S S L L R M A K T I N E V C D
UniRef90_A1D4Y2 V P G L R E A C P I E V M E F S N I P S P H M T P K R M F E L G N K V E E L L A
UniRef90_E5YB35 V P E M K E I A N V D G E Q V V N I G S A D V T N E I L L K L G K R V E E L L A
UniRef90_UPI00030D3ABF V P G L A R A A N V Q A E Q L A N V G S S Q N M T Y D V W R A L A A R V A E L C A
UniRef90_Q2L2R3 I P N L K E T A R I S A I Q I S N L G S E D D I T F N E W K K L V D A I H E H N D
UniRef90_D4W8Q9 I P H A G E L A N L R A E Q I L Q T I G S E N F N T H L L A I G N R V A E L L A
UniRef90_B2TET8 V P D T H K Y G K I S G E Q I A Q I T G S S Q D M N V V T W L K L A K R I A Q I F K
UniRef90_UPI000468955F V P G I E K L A R L R P E I A S I P S S Q D M N D A V W F K L A K R I Q D L S D
UniRef90_C5AJS2 V P E V I A E F A R K V N N L S N V G S S Y M D P R W V E L A K R A N A A L E
UniRef90_A0A023WLS5 V P Q L C N V A N V R G V Q F A N T D S I D M S S D M L Q A L A E Q I Q A D L N
UniRef90_F9FQ55 I E S L S S I A S V V D Q A F I N L P S P H I T P V H M F S L Y N R Q T R I N
UniRef90_UPI000478B848 V P Q I K S D L A N V S G V D Q L Q I A S E N I T D K E L K L S L A R Q V N D L V K
UniRef90_N9LK60 S E L L K D H V E I E D D I L F Y L P S P H I R P D H M L S L A G R S I H E K M A
UniRef90_L5N3H5

QUERY	R	D	D	V	D	G	V	V	V	90	H	G	T	D	T	V	E	E	100	F	L	H	L	T	V	K	S	110	D	K	P	V	V	V	V	V	A	A	120							
UniRef90_UPI00028970BF	S	N	D	V	D	G	V	V	V	T	H	G	T	D	T	V	E	E	S	A	Y	F	L	N	L	T	V	K	S	H	K	P	V	V	V	V	V	A	A	M	R					
UniRef90_UPI0002E0D40B	S	D	D	V	D	G	V	V	V	T	H	G	T	D	T	L	L	E	E	E	A	Y	F	L	N	L	V	V	K	S	D	K	P	V	V	L	T	V	A	A	M	R				
UniRef90_F7NMB1	S	Q	D	V	D	G	V	V	V	T	H	G	T	D	T	L	L	E	E	E	A	Y	F	L	N	L	V	V	K	S	D	K	P	V	V	V	V	V	V	A	A	M	R			
UniRef90_D5DIZ7	S	K	D	V	D	G	V	V	V	T	H	G	S	D	T	M	E	E	E	E	A	Y	F	L	N	L	V	V	K	S	D	K	P	V	V	V	V	V	V	V	A	A	M	R		
UniRef90_UPI00046E902E	S	D	D	V	D	G	V	V	V	T	H	G	T	D	T	L	L	E	E	E	A	Y	F	L	N	L	V	V	K	S	D	K	P	V	V	V	V	V	V	V	A	A	M	R		
UniRef90_B5F9G4	R	D	D	V	D	G	V	V	V	T	H	G	T	D	T	L	L	D	E	E	E	A	Y	F	L	N	L	V	V	K	S	D	K	P	V	V	V	F	T	A	A	M	R			
UniRef90_A0A013UIW9	K	S	D	V	D	G	V	V	V	T	H	G	T	D	T	L	L	D	E	E	E	S	Y	F	L	N	L	T	V	K	S	N	K	P	V	V	F	T	A	A	M	R				
UniRef90_R5P4D4	R	P	D	V	D	G	V	V	V	T	H	G	T	D	T	L	M	E	E	E	E	A	F	F	L	N	L	V	L	K	S	N	K	P	V	V	L	V	V	V	A	A	M	R		
UniRef90_M8B5Q1	K	T	D	L	A	G	V	V	V	T	H	G	T	G	T	M	E	E	E	E	A	F	F	L	N	L	V	L	K	S	E	K	P	V	V	L	V	V	V	V	A	A	M	R		
UniRef90_R6PQR5	K	E	G	Y	D	G	V	V	V	T	H	G	T	D	T	M	E	E	E	E	E	A	Y	F	L	N	L	T	V	H	S	D	K	P	V	V	L	V	V	V	V	A	A	M	R	
UniRef90_W9B377	R	K	D	V	D	G	V	V	V	T	H	G	T	D	T	M	E	E	E	E	E	A	Y	F	L	D	L	T	V	H	S	D	K	P	V	V	L	V	V	V	V	A	A	M	R	
UniRef90_C7M771	R	K	E	G	Y	D	G	V	V	V	T	H	G	T	D	T	M	E	E	E	E	A	Y	F	L	D	L	T	V	H	S	D	K	P	V	V	L	V	V	V	V	A	A	M	R	
UniRef90_I8SMH9	Q	D	N	V	D	G	V	V	V	T	H	G	T	D	T	L	L	E	E	E	E	A	Y	F	L	D	L	V	V	K	S	E	K	P	V	V	L	V	V	V	V	A	A	M	R	
UniRef90_R5ECZ5	D	P	K	V	D	A	V	V	V	T	H	G	T	D	T	L	L	E	E	E	E	A	Y	F	L	N	L	V	T	Q	S	D	K	P	V	V	L	V	V	V	V	A	A	M	R	
UniRef90_I8SJU2	S	N	K	V	D	A	V	V	V	T	H	G	T	D	T	L	L	E	E	E	E	A	Y	F	L	N	L	V	I	Q	S	D	K	P	V	V	L	V	V	V	V	A	A	M	R	
UniRef90_UPI0003A63DFF	R	D	D	V	S	G	V	V	V	T	H	G	T	D	T	L	L	E	E	E	E	A	Y	F	L	N	L	V	V	K	S	D	K	P	V	V	V	T	V	V	V	A	A	M	R	
UniRef90_UPI000288A8D5	N	S	N	E	A	D	G	V	V	V	T	H	G	T	D	T	Q	E	E	E	E	A	Y	F	L	E	L	T	V	K	S	D	K	P	V	V	L	T	V	V	V	A	A	M	R	
UniRef90_C5EYW3	D	S	K	V	D	G	V	V	V	T	H	G	T	D	T	M	E	E	E	E	E	A	Y	F	L	N	L	V	I	K	S	D	K	P	V	V	L	T	V	V	V	A	A	M	R	
UniRef90_F7NMI4	Q	P	D	L	D	G	V	V	V	T	H	G	T	D	T	L	L	E	E	E	E	A	Y	F	L	N	L	A	I	K	S	G	K	P	V	V	L	T	V	V	V	A	A	M	R	
UniRef90_B9D4M6	S	Q	G	K	A	D	G	V	V	V	T	H	G	T	D	T	M	E	E	E	E	A	Y	F	L	N	L	V	V	K	S	D	K	P	V	V	L	M	V	V	V	A	A	M	R	
UniRef90_V5PSG7	Q	P	D	V	A	G	A	V	V	T	H	G	T	D	T	L	L	E	E	E	E	A	Y	F	L	H	L	T	V	K	S	R	K	P	V	V	L	T	V	V	V	A	A	M	R	
UniRef90_D8FTT1	Q	P	D	V	N	G	V	V	V	T	H	G	T	D	T	L	L	E	E	E	E	A	Y	F	L	N	L	V	T	K	S	R	K	P	V	V	L	T	V	V	V	A	A	M	R	
UniRef90_G0VPQ8	R	E	D	V	D	G	V	V	V	T	H	G	T	D	T	M	E	E	E	E	E	A	Y	F	L	D	L	T	V	H	T	K	P	V	V	L	T	V	V	V	A	A	M	R		
UniRef90_A0A023VHW6	E	G	I	D	G	V	V	V	V	T	H	G	T	D	T	M	E	E	E	E	E	A	Y	F	L	D	L	T	V	H	T	K	P	V	V	L	T	V	V	V	A	A	M	R		
UniRef90_F2LDQ4	D	P	R	V	D	G	V	V	V	T	H	G	T	D	T	L	L	E	E	E	E	A	A	L	H	L	C	A	T	P	K	P	V	V	L	T	V	V	V	A	A	M	R			
UniRef90_P50286	S	K	A	E	T	E	A	V	V	V	T	H	G	T	D	T	M	E	E	E	E	A	F	F	L	N	L	T	V	K	S	Q	K	P	V	V	L	T	V	V	V	A	A	M	R	
UniRef90_UPI0003472A05	S	A	D	V	D	G	V	V	V	T	H	G	T	D	T	L	L	E	E	E	E	A	Y	F	L	H	L	T	V	K	S	A	K	P	V	V	V	T	V	V	V	A	A	M	R	
UniRef90_UPI000287BB81	R	E	D	V	D	G	V	V	V	T	H	G	T	D	T	L	L	E	E	E	E	A	Y	F	L	H	L	T	V	K	S	D	K	P	V	V	L	T	V	V	V	A	A	M	R	
UniRef90_U2P7J8	A	E	G	Y	D	G	V	V	V	T	H	G	T	D	T	M	E	E	E	E	E	A	Y	F	L	S	L	T	V	H	T	D	K	P	V	V	L	T	V	V	V	A	A	M	R	
UniRef90_A6LW23	Q	D	D	V	D	G	V	V	V	T	H	G	T	D	T	M	E	E	E	E	E	A	Y	F	L	S	L	T	V	K	T	D	K	P	V	V	L	T	V	V	V	A	A	M	R	
UniRef90_D0IXQ7	Q	S	D	V	D	G	V	V	V	T	H	G	T	D	T	L	L	A	E	E	E	E	A	Y	F	L	S	L	T	V	H	T	D	K	P	V	V	L	A	V	V	V	A	A	M	R
UniRef90_UPI00046337AD	R	E	D	V	I	T	G	V	V	V	T	H	G	T	D	S	L	E	E	E	E	A	Y	F	L	D	L	T	V	D	S	K	P	V	V	T	V	V	V	V	A	A	M	R		
UniRef90_R9TSQ8	S	D	D	V	D	G	V	V	V	T	H	G	T	D	T	L	L	E	E	E	E	E	A	Y	F	L	N	L	V	L	K	S	D	K	P	V	V	V	V	V	V	A	A	M	R	
UniRef90_J0RU19	N	N	E	A	D	G	V	V	V	T	H	G	T	D	T	Q	E	E	E	E	E	A	Y	F	L	S	L	T	V	R	Y	D	K	P	V	V	V	T	V	V	V	A	A	M	R	
UniRef90_D1B281	Q	D	N	V	D	G	V	V	V	T	H	G	T	D	T	M	E	E	E	E	E	A	Y	F	L	N	L	V	V	K	S	K	K	P	V	V	L	M	V	V	V	A	A	M	R	
UniRef90_E1W2Z5	D	T	D	G	V	V	V	V	V	T	H	G	T	D	T	M	E	E	E	E	E	A	Y	F	L	D	L	T	A	K	C	E	K	P	V	V	L	V	V	V	A	A	M	R		
UniRef90_U7UEE4	C	D	D	V	D	G	V	V	V	T	H	G	T	D	T	L	L	E	E	E	E	A	Y	F	L	N	L	M	V	H	T	D	K	P	V	V	L	T	V	V	V	A	A	M	R	
UniRef90_UPI000403513D	S	K	D	V	D	G	V	V	V	T	H	G	T	D	T	M	E	E	E	E	E	A	Y	F	L	N	L	V	V	K	T	E	K	P	V	V	L	T	V	V	V	A	A	M	R	
UniRef90_C8WED8	H	N	E	A	D	G	V	V	V	T	H	G	T	D	T	M	E	E	E	E	E	A	F	F	L	D	L	T	V	I	R	T	D	K	P	V	V	L	T	V	V	V	A	A	M	R
UniRef90_L7UBZ0	S	P	E	V	D	A	V	V	V	T	H	G	T	D	T	L	L	E	E	E	E	S	Y	F	L	D	L	V	V	K	S	N	K	P	V	V	L	T	V	V	V	A	A	M	R	
UniRef90_E7G732	D	E	K	I	D	G	V	V	V	T	H	G	T	D	T	L	D	E	E	E	E	A	Y	F	L	T	L	T	V	N	S	K	P	V	V	L	T	V	V	V	A	A	M	R		
UniRef90_A1HNB0	R	D	D	V	A	G	V	V	V	T	H	G	T	D	T	L	L	E	E	E	E	A	Y	F	L	D	L	T	V	Q	S	D	K	P	V	V	C	M	T	A	A	M	R			
UniRef90_J2TIF4	S	D	E	V	D	G	V	V	V	T	H	G	T	D	T	L	L	E	E	E	E	S	Y	F	L	N	L	T	V	K	S	T	K	P	V	V	M	L	V	V	V	A	A	M	R	
UniRef90_UPI000478D23C	Q	P	D	V	D	G	V	V	V	T	H	G	T	D	T	L	L	E	E	E	E	A	Y	F	L	D	L	T	V	K	S	E	K	P	V	V	M	V	V	V	V	A	A	M	R	
UniRef90_B1LTN5	Q	Q	D	V	D	G	V	V	V	T	H	G	T	D	T	L	L	E	E	E	E	A	F	F	L	D	L	V	V	K	S	D	K	P	V	V	V	V	V	V	A	A	M	R		
UniRef90_B1ZNJ9	Q	P	D	I	A	G	V	V	V	T	H	G	T	D	T	M	E	E	E	E	E	A	F	F	L	N	L	V	V	R	S	A	K	P	V	V	L	V	V	V	A	A	M	R		
UniRef90_B2THR3	R	D	D	L	S	G	V	V	V	T	H	G	T	D	T	L	L	E	E	E	E	A	Y	F	L	D	L	T	L	N	S	D	K	P	V	V	V	T	V	V	V	A	A	M	R	
UniRef90_R5Q1X4	R	E	H	M	D	G	V	V	V	T	H	G	T	D	T	L	L	E	E	E	E	A	Y	F	L	N	L	V	V	K	S	E	K	P	V	V	L	V	V	V	A	A	M	R		
UniRef90_A0A011NKN1	Q	A	D	V	D	G	V	V	V	T	H	G	T	D	T	L	L	E	E	E	E	A	Y	F	L	T	L	V	V	H	T	E	K	P	V	V	L	V	V	V	A	A	M	R		
UniRef90_UPI0003B7634B	Q	D	D	I	H	G	V	V	V	T	H	G	T	D	T	L	L	E																												

QUERY UniRef90_UPI00028970BF UniRef90_UPI0002E0D40B UniRef90_F7NMB1 UniRef90_D5DI27 UniRef90_UPI00046E902E UniRef90_B5F9G4 UniRef90_A0A013UIW9 UniRef90_R5P4D4 UniRef90_M8B5Q1 UniRef90_R6PQR5 UniRef90_W9B377 UniRef90_C7M771 UniRef90_I8SMH9 UniRef90_R5ECZ5 UniRef90_I8SJU2 UniRef90_UPI0003A63DFF UniRef90_UPI000288A8D5 UniRef90_C5EYW3 UniRef90_F7NMI4 UniRef90_B9D4M6 UniRef90_V5PSG7 UniRef90_D8FTT1 UniRef90_G0V PQ8 UniRef90_A0A023VHW6 UniRef90_F2LDQ4 UniRef90_P50286 UniRef90_UPI0003472A05 UniRef90_UPI000287BB81 UniRef90_U2P7J8 UniRef90_A6LW23 UniRef90_D0IXQ7 UniRef90_UPI00046337AD UniRef90_R9TSQ8 UniRef90_J0RU19 UniRef90_D1B281 UniRef90_E1W2Z5 UniRef90_U7UEE4 UniRef90_UPI000403513D UniRef90_C8WED8 UniRef90_L7UBZ0 UniRef90_E7G732 UniRef90_A1HNB0 UniRef90_J2TIF4 UniRef90_UPI000478D23C UniRef90_B1LTN5 UniRef90_B1ZNJ9 UniRef90_B2THR3 UniRef90_R5Q1X4 UniRef90_A0A011NKN1 UniRef90_UPI0003B7634B UniRef90_UPI000368366E UniRef90_S0AFK9 UniRef90_UPI000393F328 UniRef90_UPI00041DA0E9 UniRef90_E3HU73 UniRef90_UPI000316926D UniRef90_R7KMN0 UniRef90_F4GUX5 UniRef90_UPI0003D2C2F4 UniRef90_UPI00029A128D UniRef90_C5VSD4 UniRef90_A1TUT5 UniRef90_F8KR9 UniRef90_A0A010SGE1 UniRef90_S3YNNM0 UniRef90_R1CCA8 UniRef90_F8AF00 UniRef90_S0FSL9 UniRef90_R5JD10 UniRef90_T0MKX1 UniRef90_R5BFQ1 UniRef90_UPI000360EE25 UniRef90_W8T3A2 UniRef90_UPI0002E7CCE1 UniRef90_G2SRM4 UniRef90_R5R233 UniRef90_B8G030 UniRef90_UPI00035E4297 UniRef90_A1D4Y2 UniRef90_E5YB35 UniRef90_UPI00030D3ABF UniRef90_Q2L2R3 UniRef90_D4W8Q9 UniRef90_B2TET8 UniRef90_UPI000468955F UniRef90_C5AJS2 UniRef90_A0A023WLS5 UniRef90_F9FQ55 UniRef90_UPI000478B848 UniRef90_N9LK60 UniRef90_L5N3H5

130 140 150 160

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

QUERY A R Y I T K T N A S T T D T F R A N E E G Y L G V I I G N R I Y Y Q R I D K L 200
UniRef90_UPI00028970BF A R E V I S K M N T T A T T D D A F F K S P E E L G M L G Y I I Q G S K A F F Y R N Q S T R K
UniRef90_UPI0002E0D40B A R N N I T K T T T A T T D D A F F K S P E E N G Y L G A L V A G D K P Y F Y R N S P L E R L
UniRef90_F7NMB1 A R G D V I T K T I T D R V D T F F K S P E E G P L G F F T G D K P V F Y N N S P L R Q
UniRef90_D5DIZ7 A R Y I T K T H T T A V D D T F F K S P E E Q G Y L G E I A G D K V I F Y N N S P L R K
UniRef90_UPI00046E902E A R Y I S K T N T T A V D D T F F K S P E E E G Y L G A I V G G K I H F Y E T R S N E K I
UniRef90_B5F9G4 A R F V I T K T N T T L D D T F F K A P E E E G Y L G V I V N G G K P Q F E T R S V E K I
UniRef90_A0A013UIW9 A R F I T K T N T S S I D A F F K A P E E E G Y L G S I I D G N Q V E Y F S S T V E K K
UniRef90_R5P4D4 A H A A T K M N T I N V Q A T F Q A P N S D M G P L G Y V F N G K A N Y N Q R T D K I
UniRef90_M8B5Q1 A R D V I T K T S T M N V A T F R S P N D M G C K I G Y V V D D G K P T F Y N Q R T I R R
UniRef90_R6PQR5 A K D V I K T H T T D C A T F Q Q G G N Y G K I G Y I Y G G E A I Y N R Q V E N L
UniRef90_W9B377 A R D V I K T N T T A V D T F F Q G A P N Y G K L G Y I H N G K V F F N R T P E N K
UniRef90_C7M771 A K D V I K T N T T A V E T F F Q G A N Y G K L A Y I H N G K V F F N R T P E N K
UniRef90_I8SMH9 G R E V T K T I T D R V D T F F Q S P I S G A L G V F T G D K P V F Y R Q S L R K
UniRef90_R5ECZ5 A R D V I K T N T T M P A T F F K S P E D L G Y L G Y V S Q G K V R F Y R Q S T R K
UniRef90_I8SJU2 S R E V T K T N T M L Q D S F F Q A P E D L G Y L G Y I Q G G I P Y F Y R L P A R R R
UniRef90_UPI0003A63DFF A R F T T K T D A N A L D T F F K S P E A G D L G R L V N Q V P L F E T Q I T R R S
UniRef90_UPI000288A8D5 A R D V I K T I T T N M A T F F K S P R N S F G G P I G L I Y D G K V S Y D T A S I L K P
UniRef90_C5EYW3 A R E V T K T H T L N V A T F F K S P E E G E I G Y I I D G K V F F D R T A S I L K P
UniRef90_F7NMI4 S R D V I T K T N T S L Q D T F F K A P E L G Y L G Y L A D G S P Y F Y R I P T R R K
UniRef90_B9D4M6 A R E V I K T N T T A V D A F F K S P E N S G K I G T V F Y G N R V K F Y M N A P L V R K
UniRef90_V5PSG7 A R D V I K T S T Y K V D A F F Q S P E I G V L G W V Q D G R V A F Q R A P P L Q Y
UniRef90_D8FTT1 A R E V T K T N T T S L N T F F Q A H D M G Y L G Y V E L G K P Y F Y R M P I R K
UniRef90_G0VPQ8 A R F V E K T D T T H A D A F F K S R Q D F G C L G Y M Q D G R T Y L Y Q N N V T K A
UniRef90_A0A023VHW6 A R G V V K T H S L N V D A F F S S P E T G V L G W V Q D G R V E F A R G I V R D
UniRef90_F2LDQ4 A R D V V K T S T Y A V D A F F Q S P E T G V L G W V Q D G R V E F Q T Q S V V R A
UniRef90_P50286 A R E A T K L N T T A V N A F F A S P E T G K I G T V Y Q D G R V E F Q T Q S V V R A
UniRef90_UPI0003472A05 A R D V V K T S T Y A V D A F F Q S P E T G K I G W V Q D G R V E F Q T Q S V V R A
UniRef90_UPI000287BB81 A S E V T K S H S M K L N T F F E S P E F G L V G I V D N N E A H F Y R E
UniRef90_U2P7J8 A K N L Y Q K S H T T D C A F F F K S A Y F G Q I G Y V Y N G K A Y Y T A E K S P T Y R
UniRef90_A6LW23 G R N V Q K I N T F K T N A F F S I E F G C L G Y M R D N P F F N E K S I T K P
UniRef90_D0IXQ7 A R D V N K D I N I Q T G A F F K S I Q W G P L G M V V E G K N Y W F R A S P V K R
UniRef90_UPI00046337AD A S E A T K T N T L A L A T F F Q S L T S G P L G V I D C N E L V L N D I V N
UniRef90_R9TSQ8 A R Y V T K T H T T A P L D T F F K S E E M G Y L G N I A D G I Y F H N D I T K K
UniRef90_J0RU19 G R S A V K T S T T H L N A F F T A P N N G P I G Q V Y A D G K V I L Y E T P V R K
UniRef90_D1B281 A R D V V K T D S T I T Q T F F K A P I F G Y L G Q I V D G K V V F F K N P L N K
UniRef90_E1W2Z5 A R D V I K M S T T A V D T F F H S P N Y G T L G Y I H N S K V D Y E R S P E S K
UniRef90_U7UEE4 A R F V E K T D T T A V Q A F F T S R Q H G T V G L L Q D G V P V F Y Q A P D Q R L
UniRef90_UPI000403513D A Q S L T K V S T T A V V T F F M S P I R G L I G T T S Y G V N D F Y H Y I E P D Q R
UniRef90_C8WED8 A R W A S K T H T T A V E T F F S I N A G P L G Y V D P A S V R F I E P K
UniRef90_L7UBZ0 A R N V I T K T N T T N V E T F F R S I L N R G P S G V V N T G K I S W F E K M D K R
UniRef90_E7G732 G R D I Q K V N N Y K V D A F D Q K A F G C L G Y M Q D D Q E V Y F F S R T F K L
UniRef90_A1HNB0 A R E V I T K T H A N A N P K D A F F A S P F W G P L G Y V D E D K V F R R H S L K R
UniRef90_J2TIF4 A R D V T K T N A T R V D T F F K S P Y G P L G L V I E G Q A R F Y R A S P I R L
UniRef90_UPI000478D23C A R D V I K T N T S L T S A F R T P E L G V I G Y M Q N N A K H F Y R S L T R K
UniRef90_B1LTN5 G R D V N K R T N I V P S A F R Y S Q W G P L G M V V E G K T Y F F R S L T K R
UniRef90_B1ZNJ9 A R E V A K T N T T Q L G T F F R A T H R G L A G V V N A G R L H L Y A P P V R R S
UniRef90_B2THR3 A K E V T K R N S M A L N G A F S T P N D F G P I G M V D N N R V I F Y R E N S K S
UniRef90_R5Q1X4 A F G V T K T N S T N V D T F F K C P N D T G Y L G M F M Q N N K P Y F F N A I Q K R
UniRef90_A0A011NKN1 G R D V A K V V N L K T E A F F K S P W G P L G M V V E G K N Y W F R L P V K R
UniRef90_UPI0003B7634B A S F L T K S N T S V A T F F S P I N G L M G T V N Y G K T T Y F R A P S R R
UniRef90_UPI000368366E A R F V T K T H T S N V A T F F Q S P E V G P I G S L D K R S I H F R Q M P L Q H
UniRef90_S0AFK9 A R D V T K T N T S V V T F F Q S P N F G P L G Y I H N G K V D Y Q R S P Q R K
UniRef90_UPI000393F328 A Y Y V T K T N T H A V E T F F Q A P E A G Y L G G F I S G K P Y F Y Y K N T Q
UniRef90_UPI00041DA0E9 A K N V T K T H T S N I A T F F Q S P Q Y G P I G I V S R G V H F H H P V S D
UniRef90_E3HU73 A R E I Q K I A S A G L C A F A S P N R G R A G V M H G G A P F F Y S R N T T T
UniRef90_UPI000316926D A R E V T K T N T S T L D T F F K T P E L G F L G Y I Q G S K P F F Y R Q S T R K
UniRef90_R7KMN0 A G E V M K T H S A N C A T F A S P W W G P I G Y V E A D R I V Y R R V P I A H
UniRef90_F4GUX5 A G L V S K V N T S H V I Q A F S S H E Q G S L G Q I T H G R L Q L F Q K P Y R A
UniRef90_UPI0003D2C2F4 A R G V S K A H T A L Q T F F H S P N F G L V G Y V D P A S V R F V S P P K V H
UniRef90_UPI00029A128D G R D V S K A V N I K T E A F F K S P W G P L G M V V E G K S Y W F R L P A K R
UniRef90_C5VSD4 A S E V T K T N S M K L D T F F Q S P E F G P I G I V D N N E A I F Y R D I L Y K
UniRef90_A1TUT5 G R D V T K G V N I K T Q A F F R S Q W G P I G M V V E G K T Y W F R A P V K R
UniRef90_F8KRV9 A R E A S K M N T T R T D A F F Q S P N T G K I G M V L Y G K V H F Y M Q S L R R
UniRef90_A0A010SGE1 A Y Y T T K T H S N S L D T F F K A V E Q G Y L G F F L D I K P V F Y Y P P V L
UniRef90_S3YNM0 A R E V T K T N T T A V D T F F K S V N T G N I G T V N Y G L V N Y Y L A P V V K K
UniRef90_R1CCA8 A S E V T K T N T I T V N T F F K A P E F G P L G I V D N D E V I F Y R D I V K Y R
UniRef90_F8AF00 G T K V R K M H T S R R D A F F R S I N D V P I A K V W P D R V E F L R D D Y R R R
UniRef90_S0FSL9 A H S L T K T N T T S V Q T F F L S P V N G L V G T V N Y G K T A Y F R F P F R R
UniRef90_R5JD10 A E S V Q K M N T I D V V E T F F Q A P N S G A L G Y I F N G K A Y N Q A P L K R
UniRef90_T0MKX1 S R D V T K L S T T K V N A F G S P N S G A I G Q V F D G K V E F Y K S S D R Q
UniRef90_R5BFQ1 A R E V V K K H T T G S D A F F G N A F F G H I G F V Q D G L A R F Y Y E S L R K
UniRef90_UPI000360EE25 A K N V T K T H T S N V S T F F Q S P Q Y G P I G I T T K K A I L F H H P I
UniRef90_W8T3A2 A F E S T K T N T L S L G T F F K S L T Y G P L G V I D N D K L I I H R N I T
UniRef90_UPI0002E7CCE1 A R N V I K T H T S N V A T F F Q S P Q Y G P I G T V T K K A D V S Y H
UniRef90_G2SRM4 A R N I A K T N N H K I D A F F G L N E Q A A L G Y M R D A D V F I T N H P T T K
UniRef90_R5R233 G R D I Q K I S N F K I D A F F D Q K D F G C L G Y M N D D K V M M F S R T F K K
UniRef90_B8G030 A R D V R K L H T S H V D A F F S S G E V G S L G S I D H D E V L W H R K P
UniRef90_UPI00035E4297 A T N V T K T H T S N V A T F F Q S P Q Y G P I G M V T K R G V V F H H A L V H H
UniRef90_A1D4Y2 A F Y A S K T N A N T M D T F F K A V E M G N L G A I V S N N P Y F F Y P P V M
UniRef90_E5YB35 A R E V V K S H S A N T E T F V S P F W G P L G Y V A D P D R V V F R R N T L G R
UniRef90_UPI00030D3ABF A R Y V T K T N T A P D E T F F K A E E M G Y L G T I A D D V Y F N N T V T R K
UniRef90_Q2L2R3 A R S V Q K T A C G G V A A F T S P N S G R A G W V R G G Q V G F Y N I A S A A
UniRef90_D4W8Q9 A R D V K K I S T F Q T D A F F G S G K F G A I G F V R D H K V D F Y L M T T K P
UniRef90_B2TET8 A R D V V K S N S F K L D A F F R S P Y G P I G Y V I E G A P R Y Y R R P A R A
UniRef90_UPI000468955F A R D V T K T S T N L E T F F R S T N F G P I G L I Y D G K V S Y Y Q S L R N
UniRef90_C5AJS2 A R G A T K T N S T S V Q T F F A S P N S G P I G Y V D P A S V R F L A P A A D
UniRef90_A0A023WSL5 A R H V T K T H T A N V E T F F Q S G D Y G P I G E V Y P D R V I F A R E P A L R R
UniRef90_F9FQ55 A R F T T K V N A N H L D A F F Q A P D S G L L G T F V N I Q P V F F Y P P S R P
UniRef90_UPI000478B848 A K N V T K T H S N L A T F F Q S P Q Y G P I G I V T K K G V S F H H M S P V
UniRef90_N9LK60 A R D V T K G I N I H T N A F V S Q W G A L G T V V E K K P Y W F R N S L K R
UniRef90_L5N3H5 A R N V T K T S T S N V A T F F Q S P Q Y G P I G I T T K Q A V F F H H K M T K H

QUERY H T T R S V F D V R G L T S L P K V D I L Y G Y Q D D P E Y L Y D A A F I Q H G V
UniRef90_UPI00028970BF H T T L E T E F D I V R S K I L D A L P Q Q V D I L Y G Y Q D D N N P T Y M Y E A F I Q A N G A
UniRef90_UPI0002E0D40B H T T T A S E P F D I S K I L K S T L P Q Q V D I L Y G Y Q A N N S P T G T A I E A F T K A N G A
UniRef90_F7NMB1 H T T T A S E F D I S M K L L S T L P Q Q V D I L Y G Y Q N N S R Y F Y D A A A I K A G A
UniRef90_D5DIZ7 H T T T Q S E F D I V S K L L S T L P Q Q V D I L Y G Y Q N N S R Y F Y D A A A I K A G A
UniRef90_UPI00046E902E H T T T Q S E F D I V S K L L S T L P Q Q V D I L Y G Y Q N N S R Y F Y D A A A I K A G A
UniRef90_B5F9G4 H T T L R S V F D I V R N I L K K L P N V V I L Y G Y Q D D P E Y M F D A A I K E N N V
UniRef90_A0A013UIW9 H T T S K S I F N I G G I E K M P S V D I L Y G Y Q D D P E Y M F D A A I K E N N V
UniRef90_R5P4D4 H T T L Q S V F D V S D L N T S L P K V V D I L Y G Y Q N N V E P E A L D A A I E A H N Y
UniRef90_M8B5Q1 H T T G R S E F D I V S D L T S L P K V V G I V Y G Y S H A G D D R L F V D A A V A A G V
UniRef90_R6PQR5 H T T T K S E F S V S E G L T S L P K V V G I V Y G Y S N C P L P F K A F V D A K Y
UniRef90_W9B377 H T T T A A H F N V S K L L S T L P K V V G I V Y Y S N A S P L P V T A L V D A K F
UniRef90_C7M771 H T T Y Q S V F N V D N L K Q L P K V V G I V Y Y S N V S E L P M K A F M D A K F
UniRef90_I8SMH9 N T V A T E F D V S T N L T S L P R V V D I V Y H Y A G N A G T M I D A A V H A G A
UniRef90_R5ECZ5 H T T T N S E F D V S K I L E T S L P R V D I L Y G Y H V D D D R L T M A E A A V A A G A
UniRef90_I8SJU2 H T T L C Q S E F D I S R G I T D L P K V V D I L Y G Y V D S S P L I A E A A V K A G A
UniRef90_UPI0003A63DFF H T T V Q T P F D I S G L D A L P K V V D I L Y G Y Q N D S S G Y L Y D A A V Q N H A
UniRef90_UPI000288A8D5 P A L E K F D I T G L K S L P K V V D I V Y G Y A D A S P R A V T A S I K E E G V
UniRef90_C5EYW3 N T L K A P I E N L T S L P K V V D I V Y T Y N D G S K V A V E A F L K A G S
UniRef90_F7NMI4 H T T Y M T E F N I G T I T E L P Q Q V D I L Y G H V N D N G A L A Y A A A N G A
UniRef90_B9D4M6 H T T V N S E F D I T G L T S L P R V V D I L Y S H S N D N G A D F V D A L V K A G A
UniRef90_V5PSG7 H T T V E S E F V T K L S G E L P A V V E V I Y S A G V S R I A V D A L V A A G V
UniRef90_D8FTT1 H T T V A T P F E V N T L T S L P Q V D I L Y G Y G N N R P V M L N A A I A D G A
UniRef90_G0VPQ8 H T T W S S F D L A S P K T S L P V A I A Y T V G L T A D D V C R L F A Q G K
UniRef90_UPI0003472A05 H T T K N A P F D V S K L L S L P K V V D I L Y S Y N D G S G V A A K A L F E H G T
UniRef90_F2LDQ4 A A S A P R F S I G A W P T V E I L Y S Y A G A S R I G V D A L V A A G V
UniRef90_P50286 H T T L A S E F D I S K L E E L P K V V D I L Y A H P A D D T D V L V D A A L Q A G A
UniRef90_UPI0003472A05 H T T A T P F D I V G A P W P Q V V E I L L Y A G V S R L A V D A L V A A G V
UniRef90_UPI000287BB81 S L D H D Y I G T D K I E T D V E I L I K A C A G M D G K Y L D F C V E R G V
UniRef90_U2P7J8 H T T R S E F N V D N L D K L P K V V G I V Y G Y A N A S A L P M Q A Y F V A N A K F
UniRef90_A6LW23 H T T Y S E F D V T G L T E L P K V V S I A Y F H I D A D P S L I D A Y F A Q S
UniRef90_DOIXQ7 H T T M N S E F N I D N L D K L P Q V D I V Y A Y G S V Q P T A V N A L V D A G A
UniRef90_UPI00046337AD R S V I K T D K V E P Q V A I E K A C V G E D D L F L K Y A V D Q G Y
UniRef90_R9TSQ8 H T K D T D F N I S K I N L L P Q V V D I Y G Y Q N D G R Y L F D A A I K A G A
UniRef90_J0RU19 A N K N T P F D I S T L T L P E V A I V E L Y A D A P A T A I N A Y V A S G V
UniRef90_D1B281 H T Y E S E F D I S T I T K L P V D I N Y G Y A H D S G T V I D A L V A S G A
UniRef90_E1W2Z5 H T T V N T P F N V D K L S L P K V V G I Y A Y S N A P L E P L N S L L D A G Y
UniRef90_U7UEE4 H T Y Q S V F S C T P A S V L P P V V W I L Y G H V G M A A A L V D C A V A A G V
UniRef90_UPI000403513D F G K D S Q F D V K G V T T F P R A V E I L Y A D A D M K P D L I D A S I E K G A
UniRef90_C8WED8 K Q P V P S Y G L P T T A P L P P A V V E I L Y A H S G M G A S I I N D L I K T G V
UniRef90_L7UBZ0 H T T V D S E F S V G K D A S L P R V V D I L Y A H A N M S P D L I D A A V K N G A
UniRef90_E7G732 H T T L A S R F S K Q H L I D L P S V A I A Y E A G A S A Q L L Y D M A R N H
UniRef90_A1HNB0 Q K I K P A A P V D D V V Y L K L V A G A D D L F F R C L V D K G A
UniRef90_J2TIF4 H T V Q S E F D I D K I Q T L P Q V D I A Y G Y Q S M N R A A Y D A L V A S G A
UniRef90_UPI000478D23C H T A Q S E F D V S N L D S L P A V V D I V Y G Y A N V N P L A L N A V G A G D
UniRef90_B1LTN5 H T A M S S E F D I D Q L S L P L V V G I V Y G Y S G N M L P G V Y D A E L V A G A
UniRef90_B1ZNJ9 H T C T S E F S V A G R S E L P R V V D I V Y A Y A G M G R E L I D A A V A A G A
UniRef90_B2THR3 H T T S E F T H V K I N S T E K N V A L I K C V S G M G S K F I D F V I A N G Y
UniRef90_R5Q1X4 H T T Q S E F S I D G L K T L P R V V D V H Y T T L G E D G R I I D A M V K L G A
UniRef90_A0A011NKN1 H T T I N S E F D I L E K I D S L P S V G I A Y G A G N V S D T A Y R A L A E K G A
UniRef90_UPI0003B7634B H T F L S E F S F E F D L P L P R V D I V Y A C A D M P P D L I E C S V I K G A
UniRef90_UPI000368366E E S Y P A K P L Q R S V G L K M A L A I D S R L T D H M L A D G I
UniRef90_S0AFK9 H T T D T P F D V S S L T E L P K V G I V Y N Y A N A S D A P A K A L I A E G Y
UniRef90_UPI000393F328 P M E K P H F D I S N V K E L P K V D I L Y S Y Q D Q D D S L M K M A A I K N G A
UniRef90_UPI00041DA0E9 Q R F V V P S L Q K K L L L K A Y G Q M E P E V L Q S L C D L P I
UniRef90_E3HU73 H T V E S E F S L A L L E K W P R V V D V V Y A H A N L Q A D L I D F L A D A A
UniRef90_UPI000316926D H T V D S E F D I S K L D V L P R V D I V Y G Y A N M N P I
UniRef90_R7KMN0 R I F N P K A L T A R V D D L I K A V T G S D R T Y I D F A V A Q G C
UniRef90_F4GUX5 H T T N T V F Q L Q G K K L P S V D I M Y D H Q S A G L H L Y E A A I A S G V
UniRef90_UPI0003D2C2F4 K Y F S L P E N H Q L P V E I I Y A Y A G M D A Q Q L D D A L R A G A
UniRef90_UPI00029A128D H T A D S E F D I K K I S L P A V V D I A Y G Y G N V I D T A Y K S L A R N G A
UniRef90_C5VSD4 H T M Q S E F N I D D I T T L A P V D I V Y G Y G N V P R S T I Q A D V G N S G V
UniRef90_A1TUT5 H T L Q S A F N I D D I Q S L P R V D I L Y A H P N D H P D L V Q D V I Q H G S
UniRef90_F8KRV9 P L G R A Y F N V T E A S E L P E V D I L F G H Q A L N P A L A T A A V A S G A
UniRef90_A0A010SGE1 H T V N S E F S V K G L E S L P R V D I L Y G H T E D T P D F V E T A V A K N G A
UniRef90_S3YNM0 D Y I P T E N I E T D V A L L K T G V G M S D L I E F C I Q N S G Y
UniRef90_R1CCA8 R S E G E V W V D D K L D E R V V A L V K V Y P G M S P E I I D F L V D R R Y
UniRef90_F8AF00 H T Y S S R F C H P P H P T L P R V D I I Y A C I D M P P D L I D L S S A A G A
UniRef90_S0FSL9 H T L Q S V F D V T Y L E S L P K V G I V Y S Y S N I E A D M V T P L L E N G Y
UniRef90_R5JDI0 V K P L J A P F K I D A N T V F P K V E I A Y M Y A D A S P A Y L N L V K E K A
UniRef90_T0MKX1 H T A A S E F A P L T A K E L P M V A L V L Y G G I D S N V L H S V L S M T K P
UniRef90_R5BFQ1 G R K K I P V N A L S K R V E L L K A Y A G M D A S L F A L S E M K I
UniRef90_UPI000360EE25 P G Q H I K T D T I E S D V D L I K C V L G M D S K L L K F C V D S G S
UniRef90_W8T3A2 H S P L D R E Y Y K I G H A N A N P L V K A V A G M D P R W L S F L L E E P I
UniRef90_UPI0002E7CCE1 H T L R S K F C N Q Q F D A F N K V K M A T Y Y A G A D T D I L D A L K H D C
UniRef90_G2SRM4 H T L Q S V F S E K P I T E L P P V G T V Y Y A G A K P D I L T M M A Q N H
UniRef90_R5R233 E P S I K F A L P T E K L A K V M I C K G Y T G M D E T R M L E C M V D A Q V
UniRef90_B8G030 E K Y A V T Q I A K N V I L K A Y A G M D E T L A A I E Q L P V
UniRef90_UPI00035E4297 P T G K T T F D V R N L A S I P R V V D I L Y S Y Q D M Q N D T L Y D A V D N G A
UniRef90_A1D4Y2 Q S I R P P E L V E D V H L I K L A S G S D S L L I D F L V E R N V
UniRef90_UPI00030D3ABF H T T E T D F I L T I E K L P Q V D I L Y G H Q N E G T Y L F K A A V D A G S
UniRef90_Q2L2R3 A K Q V F S M P L P P V R S W P R V V D L A Y A C V D M D G A L I D F I A A H A
UniRef90_D4W8Q9 H T I H S D F D I T G L D R L P S V D G M A Y F T I D S D P S I L P Y L A S Q H
UniRef90_B2TET8 H T L D T P W S I T T L R S L P K V G I V Y A Y A G A L E P G A I S A I T A N A
UniRef90_UPI000468955F P S K K F D V S K L N E L P K V E I V Y G Y A D A S P E T V S N L S T I P L
UniRef90_C5AJS2 S R K K Y V L P A D G K L P D V E I V Y S H S N M D A R Q I R H A I A D H V
UniRef90_UPI00023WSL5 Q H L Q I Q T D D M P R V D I V A M Y G G A D G S Q L I R S A V D Q G A
UniRef90_F9FQ55 H H H F K L Q S R P P S S A L P Q V D I L Y A Y Q E L S V G M F K A A V D L G A
UniRef90_UPI000478B848 H T T S E F N I E N I D Q L P V V Q I A Y G S D S M I T D A Y V A Y A K A G T
UniRef90_N9LK60 E S Y P I Q K I T D K K V S L I K A F A G M D G S L I D A V K E S G A
UniRef90_L5N3H5

QUERY K G I V Y A G M G A G S V S V R G I A G M R K A L E K G V V V M R S T R T G N G 250 260 270 280

UniRef90_UPI00028970BF K G I I H A G V G D G S V S A A Q M K P A L V E A R K K G V L I V R S S R V G Q G G

UniRef90_UPI0002E0D40B K G I I V A G A P G D G S T L S A K A S V E P A V E A A M K K G V K V V L R S S R R V G T G G

UniRef90_F7NMB1 K G I V H A G T G N G S V S I S A K A E Y P A V E A A Q K K G V V I V L R S S R R V G G G

UniRef90_D5DI27 K G I V V A G A G N G S L L S D A A L T G A R D A V K K G I V I V R S S R R V G S G G

UniRef90_UPI00046E902E K G I V V A G S G S S M S S A S S E G A T D A G K K A G I V I I A R S S R R V G S G G

UniRef90_B5F9G4 D G I I Y A G T G A G S V S V R S D A G I K K A E K A G I V I V R R A S R R T G N G

UniRef90_A0A013UIW9 K G I V F A G A G A G S V S V R S E A G I K K A Q N A G I I V V R A S R R T G S G G

UniRef90_R5P4D4 A G I V H A G V G N G A I L H K N L F D K L A N A S S K A G L L V V R S S R A V P T G

UniRef90_M8B5Q1 E G L I Y A G S G N A A I L T T H A E A G L N D A R K A G L L V V R S S R A G S G

UniRef90_R6PQR5 D G I V L A G V G D G N F Y K D V F D E A L K A R Q K G L L V V R S S R R V P T G G

UniRef90_W9B377 D G I V S A G V G N G N M Y K A I F D L A K A S K E G T M V V R S S R R V P T G

UniRef90_C7M771 D G I V H A G T G N G S L I G K A E Y P A V E N A L K N G V V V R S S A R R V G S G G

UniRef90_I8SMH9 K G I I H A G T G N G S L I A N D P T M E G L K D A V A K G V V V R S S A R R V P N G S

UniRef90_R5ECZ5 K G I I Y A G L G N G N M S Q A I F D N E L A K A S K E G V V V R S S R A G S G

UniRef90_I8SJU2 K G L I Y A G L G N G N M S Q A I F D N E L A K A S K E G V V V R S S R A G S G

UniRef90_UPI0003A63DFF Q G I V V A G V G A G S E S N A F V L P A I R N A I Q K G I V V V R S S T R T G S G G

UniRef90_UPI000288A8D5 A G I V Y A G L G N G S F N A P V G E A L E Q A A K K G I I V C R A A R A G S G G

UniRef90_C5EYW3 K G L V V A G S G A G S L H E N Q K N Y L J E L L D K K L A V V K S R A G S G G

UniRef90_F7NMI4 K G I V Y A G V G N G N M S Q A I K Q A F R E L L Q S Q G V I V R S S T R V N N G G

UniRef90_B9D4M6 K G I I N A G M G N G N P F P S A L L E A L G E A V K K G V V V V R D S R R V G S G

UniRef90_V5PSG7 K G I V V A G T G N G S L H A L L Q Q A L A E A V Q R G V T V V R S S R R V G S G

UniRef90_D8FTT1 K G I V Y A G V G D G S I S V Q L E P A A I A A S K K G I I I A R S S R T G A G G

UniRef90_G0V PQ8 A G L V L A G S H G K V P K E P V W Q A L Q S L M A K G L V V V R A A R A V L A G G

UniRef90_A0A023VHW6 K G I V V A G S G A G S I H H K N Q K D V L K E L L K K G L K V V V S R R V A G S G

UniRef90_F2LDQ4 K G I V V A G T G N G S I H A T L Q A A L Q E A A R R G V A V V R A S R R V G S G G

UniRef90_P50286 K G I I H A G M G N G S P F P L T L Q N A L E K A A A R G V V V V A R S S R R V G S G

UniRef90_UPI0003472A05 R G L V V A G T G N G S L H V T L Q Q A L A E A A A R G V A V V R S S R R V G S G

UniRef90_UPI000287BB81 K G L V V E G T G R G N L P P Q M A T S V K K A I E K G I P V V M V T R C Y R G G

UniRef90_U2P7J8 D G I V L A G V G D G N F Y K D V F D V A L K A Q N S G I Q I V R S S R I P T G G

UniRef90_A6LW23 E G I V L A G A G S G T F S N W L E E I K N L E T K G I P V V R S S R I G N G

UniRef90_D0IXQ7 K A I V H A G T G N G S V A D R M V K P L Q D A R G K G V L I V R S A R R V P Y G G

UniRef90_UPI00046337AD K G I V Y E C M G N G N I P P S M F S G L K Y A R E K K G L P V V V S C H S G G

UniRef90_R9TSQ8 K G I I Y A G S G N G S V S D E A K K G A V A V K K G A A V V R S T R T G S G

UniRef90_J0RU19 K G I V T G G L G N G N L N K V N S D A A A S A V K K G I A V A R A R V P S G G

UniRef90_D1B281 K G I V S A G A G T A S M S E F V L P S V E K A T K K G V A I V R S P R S L G

UniRef90_E1W2Z5 K G I V S A G V G N G N V N A A H L E R L E K A A K D G V V V V R S R R V P T G

UniRef90_U7UEE4 Q G L V L A G L G C K N P D Y V G P A L E R A A V K R G V I V R A S R R V L G G

UniRef90_UPI000403513D K G I I L A G V G D G N M N K A S L D A C A R A S K K G I I V V R S S R R V A T G S

UniRef90_C8WED8 K G I I L A G V G D G N S K E A S M A L N L A V K Q G V I V V R S S R R T G S G

UniRef90_L7UBZ0 K G L V I A G V G D G N M T Q P A L D A L T K H A K K G V V V R A S R R L P S G G

UniRef90_E7G732 H G I I L T G S G S N Y S Q E A W L A A I N D L S K Q G I V F V R A S R R V A N Q G

UniRef90_A1HNB0 S G I V L E G F G R G N V P P A V V P G I K A A L D K G I P V V L T T R T A G G

UniRef90_J2TIF4 K G I I H A G V G G S V P E Y M V G P L N E I R G K G V F V V R A T R T G S G

UniRef90_UPI000478D23C K G I V Y A A V G D G S L G A G I K P D L T E A R K K G V V V R S S R R V G N G

UniRef90_B1LTN5 K A I V N A G T G N G S V P G Y L V D L K L K D I R S K G A I V I R S S R R V P D G

UniRef90_B1ZNJ9 R G I V I A G V G D G N L N A R A L R A A A D A A Q R G V V I V R S S R T G G G

UniRef90_B2THR3 K G V V I E A L G R G N V P P L M V D G I K R A I K K E L P V V I V S R C F E G

UniRef90_R5Q1X4 K G I V N A G L G H A N V P N E V M N S L I J A K K A G A A V V V D S R V G S G

UniRef90_A0A011NKN1 K A I I H A G T G N G S V A K A V V P A L Q E L R G Q G L Q I I R S S H V N A G

UniRef90_UPI0003B7634B R G I V I A G D G N M N D V S V P K M A A S M A E N G I W I V R S S R R V P T G

UniRef90_UPI000368366E D G L V I E A L G Q G N V P P A V V P G I R R A L E K G V P V V L V S R C F N G

UniRef90_S0AFK9 Q G I V S A G V G N G N L Y K T V F D T L A T A A H N G V A V V R S S R R V P T G

UniRef90_UPI000393F328 K G I V I A G T G D G S T P S W I Q D A I I K D A M K K G I P V V V A S R R V Y T G

UniRef90_UPI00041DA0E9 D G L V I E A F G Q G N L P P R T L P A L K S L I D K G I P I V L V S R C F N G

UniRef90_E3HU73 D G I V L A G V G D G N A T D L J A I E G L S R A A A S G V A V V R S S R T G S G

UniRef90_UPI000316926D K G I I V E G F G R G N I P P M M E D G I N S D A C A K G V V V I I S T R T P G G

UniRef90_R7KMN0 Q G I V I A G S G N G S L S P R A E K G V R L A K K H Q I P C V R S S R T G S G

UniRef90_F4GUX5 K G I V L A G M G D G S I S A E A L A G I E R A T K S G I I V V R S T R V G S G

UniRef90_UPI0003D2C2F4 K G I I H A G T G N G S V S S R V A P T L Q E L R K Q G V Q I I R S S H V N A G

UniRef90_UPI00029A128D K A I V I E A L G R G N V P P A M V S G I E R A I N K G V T V I I V I R C F S G

UniRef90_C5VSD4 K A L I H A G M G N G S V A D R V V P A L Q E L R G K G V Q I V R S S R V A D G

UniRef90_A1TUT5 K G I I Y A G M G N G N L Y P S V L K A L S L A V Q K G V V V V R S S R R V P S G

UniRef90_F8KR9 K G I V L A G M G A G G W T T P G R N A L K T A Q E N G T Q I V V S S R T M G G

UniRef90_A0A010SGE1 K G I V L A G M G N G N P Y P S V E K A L A E A V K Q G V V V V R G S R V G S G

UniRef90_S3YNM0 K G I V I E A L G R G N V P P K M I E G I E N A I N K N I P I V V I V S R C P T G

UniRef90_R1CCA8 R G I V V E G T G L G H T P S G L I P T I E R A V Q E G V A V C M T S Q C L Y G

UniRef90_F8AF00 K G I V I A G D G N G N M N Q A T I K K A A Q K A A S G F C I V R S S R R V P T G

UniRef90_S0FSL9 K G I I H A G V G N G N I H K N I F P V L I D A R A K K G I L V V R S S R R V P T G

UniRef90_R5JD10 A G I V I A G V G N G N F S K A F T E Q V K Q A V K T G I M V C R G S R T C V S G

UniRef90_T0MKX1 H G I V L A G L G H G L P P E R I R Q L V E N L E D I P V V R S S R T G S G

UniRef90_R5BFQ1 D G L V I E A L G Q G N L P P Q V L P G I R K L L E E G I P I V V S R C C F N G

UniRef90_UPI000360EE25 K G I V I E A M G R G N I P P K M V E G V Q Y A I D R N I P V V I V S R C P A G

UniRef90_W8T3A2 D G L V I E A M G R G N I P P A L V P V L Q Q I L A K G V P I V L V S R C P F N G

UniRef90_UPI0002E7CCE1 D G I V V I G T G S G N Y S Q A W M Q V L D E I L A S G I V I V R S S R R V P H S

UniRef90_G2SRM4 R G I V I I G S G S G N Y S Q A W L N E I E T L A A K G I I F V R A S R R V N Q G

UniRef90_R5R233 E G I V I E A F G R G N L P P E T V P S I G K I T A E N I P V V I T S R C L F G

UniRef90_B8G030 D G I I I E A L G Q G N L P P R T L P A L Q R L I D K E N I P V V L V S R C C F N G

UniRef90_UPI00035E4297 K G I V I A G S G A G S V S S G F Y D A I D D A S T H S L P I V L S S R T G N G

UniRef90_A1D4Y2 R G L V L E A F G R G N V P P A A L P G L R R A V E K G I P V V I T T R T A G

UniRef90_E5YB35 K G I V Y A G S G N G S M S E V A D E A K E A E A G V E V V R S S R R T G N G

UniRef90_UPI00030D3ABF Q G I I L A G V G D G N A T D D A T A A I D R A V A K G V V V R S S T R T G S G

UniRef90_Q2L2R3 D G L V I V T A G D G N L S K H W L D A I N V L L A Q E Y P L I L S T R V F T G

UniRef90_D4W8Q9 R G L I Y V A G T G N G N V A S H L I D P L R D A A R R G V H V V R A S R T G S G

UniRef90_B2TET8 K G L V Y A G M G N G N F G E P V G K A L A D I S K K G V V C R S A R A N S G

UniRef90_UPI000468955F K G I V L A G V G D G N T S G K A L D A L Q Q A A R Q Q I V V V R S T R V G S G

UniRef90_C5AJS2 K G I V V A G L G M G N M N Q P M F E A V K Y A L G K G V V V I S T R V Y N G

UniRef90_A0A023WSL5 R G I V L A G L G A G F W T S K G T E E I R R I V R E T K I P V I V S R R P E G

UniRef90_F9FQ55 D G L V I E A F G Q G N I P P Q L V P T L Q S M I E K G T P I V L V S R C F N G

UniRef90_UPI000478B848 K A I V N A G T G N G S V A N Y L V P T L K Q L H E Q G I Q I I R S S R V A O G

UniRef90_N9LK60 D G L V I E A L G Q G N L P P E T V D A I A R T L D A D I P I V L V S R C Y Q G

UniRef90_L5N3H5

QUERY UniRef90_UPI00028970BF UniRef90_UPI0002E0D40B UniRef90_F7NMB1 UniRef90_D5DI27 UniRef90_UPI00046E902E UniRef90_B5F9G4 UniRef90_A0A013UIW9 UniRef90_R5P4D4 UniRef90_M8B5Q1 UniRef90_R6PQR5 UniRef90_W9B377 UniRef90_C7M771 UniRef90_I8SMH9 UniRef90_R5ECZ5 UniRef90_I8SJU2 UniRef90_UPI0003A63DFF UniRef90_UPI000288A8D5 UniRef90_C5EYW3 UniRef90_F7NMI4 UniRef90_B9D4M6 UniRef90_V5PSG7 UniRef90_D8FTT1 UniRef90_G0VPG8 UniRef90_A0A023VHW6 UniRef90_F2LDQ4 UniRef90_P50286 UniRef90_UPI0003472A05 UniRef90_UPI000287BB81 UniRef90_U2P7J8 UniRef90_A6LW23 UniRef90_D0IXQ7 UniRef90_UPI00046337AD UniRef90_R9TSQ8 UniRef90_J0RU19 UniRef90_D1B281 UniRef90_E1W2Z5 UniRef90_U7UEE4 UniRef90_UPI000403513D UniRef90_C8WED8 UniRef90_L7UBZ0 UniRef90_E7G732 UniRef90_A1HNB0 UniRef90_J2TIF4 UniRef90_UPI000478D23C UniRef90_B1LTN5 UniRef90_B1ZLNJ9 UniRef90_B2THR3 UniRef90_R5Q1X4 UniRef90_A0A011NKN1 UniRef90_UPI0003B7634B UniRef90_UPI000368366E UniRef90_S0AFK9 UniRef90_UPI000393F328 UniRef90_UPI00041DA0E9 UniRef90_E3HU73 UniRef90_UPI000316926D UniRef90_R7KMN0 UniRef90_F4GUX5 UniRef90_UPI0003D2C2F4 UniRef90_UPI00029A128D UniRef90_C5VSD4 UniRef90_A1TUT5 UniRef90_F8KR9 UniRef90_A0A010SGE1 UniRef90_S3YNNM0 UniRef90_R1CCA8 UniRef90_F8AF00 UniRef90_S0FSL9 UniRef90_R5JD10 UniRef90_T0MKX1 UniRef90_R5BFQ1 UniRef90_UPI000360EE25 UniRef90_W8T3A2 UniRef90_UPI0002E7CCE1 UniRef90_G2SRM4 UniRef90_R5R233 UniRef90_B8G030 UniRef90_UPI00035E4297 UniRef90_A1D4Y2 UniRef90_E5YB35 UniRef90_UPI00030D3ABF UniRef90_Q2L2R3 UniRef90_D4W8Q9 UniRef90_B2TET8 UniRef90_UPI000468955F UniRef90_C5AJS2 UniRef90_A0A023WSL5 UniRef90_F9FQ55 UniRef90_UPI000478B848 UniRef90_N9LK60 UniRef90_L5N3H5

290 300 310 320

I V P P D E E L P G V V S D S L N P A H A R I L L M L A L M T T R T S D P K V I Q E
UniRef90_UPI00028970BF I V A N D D E E L D S I V V S D S D T L N N P Q K A R I L L M L A L M T T R T S D P K V I Q E
UniRef90_UPI0002E0D40B T V S P K D E G Y I V T A G D S D L N N P Q K A R I L L M L A L M T T R T S D P K V I Q E
UniRef90_F7NMB1 I V A R R D D K Y N F V T A G D S D L N N P Q K A R I L L M L A L M T T R T S D P K V I Q E
UniRef90_D5DI27 V V T H D D K D T F F V T A S D S L N N P Q K A R I L L M L A L M T T R T S D P K V I Q E
UniRef90_UPI00046E902E T V S G D L A K P N F V T A D S D L N N P Q K A R I L L M L A L M T T R T S D P K V I Q E
UniRef90_B5F9G4 V V P L D K G K P G L V S D S L N N P A K A R I V L L M T A L S I T T Q T R N N D K E I Q K T
UniRef90_A0A013UIW9 I V P K D D T Q P G L V S N S L N N P A K A R I L L M L A L M T T R T S D P K V I Q E
UniRef90_R5P4D4 P T T Q D D A E E Y G F I A S Q E T L N S P Q K A R I L L M L A L M T T R T S D P K V I Q E
UniRef90_M8B5Q1 P V P R W D E E Y G F I A S D T L N S P H K A R I L L M L A L M T T R T S D P K V I Q E
UniRef90_R6PQR5 P T V D D T K Y Q F V A S L A L N N P Q K A R I V L L M L A L M T T K T T H D W Q K E I Q E
UniRef90_W9B377 S T T D D A K Y Q F V A A G T L N N P Q K A R I L L M L A L M S L T T K T K D N Y W K Q I V
UniRef90_C7M771 A T T D D A K Y Q F V A A G T L N N P Q K A R I V L L M L A L M T T K T T K D N Y W K Q I V
UniRef90_I8SMH9 I I A N D D M Y G F V A S D N L N N P Q K A R I L L M L A L M T T K T T T N D V N E I Q Q
UniRef90_R5ECZ5 A T P M W T K A G L E S D T L N S P Q K A R I L L M L Q L A L M T T K T T Q N D P K E I Q Q
UniRef90_I8SJU2 I V T H D D E Y H F V V S D T L N S P Q K A R I L L M L A L M T T T T T N D P V K E I I Q Q
UniRef90_UPI0003A63DFF Y I P Q D D A Y V G L L G D T L N S P Q K A R I L L M L A L M T T V T T H D P A K E I Q Q
UniRef90_UPI000288A8D5 R V T D D D A L G F I V S D D L N S P Q K A R I L L M L A L M T T K T T K D D R K E I Q Q
UniRef90_C5EYW3 I V P L S D E E L F I V S A N N L N S P Q K A R I V L L M L A L M T T K T T R D T S E I I Q E
UniRef90_F7NMI4 I V S R D D H Y H F V A A D T L N S P Q K A R I L L M L A L M T T K T T R D T S E I I Q E
UniRef90_B9D4M6 E T T D D D G K Y G F V A S D N L N N P Q K A R I V L L M L A L M T T Q T T D D K A R K I Q E
UniRef90_V5PSG7 H V M P D D K Q Y G F V A S A G N L H P K A R I V L L M L A L M T T Q A G V P C M Q S E
UniRef90_D8FTT1 R V E K D D E N G F I V T D N L T P Q K A R I L L M L A L M T T T S D P R K K I Q E
UniRef90_G0VPG8 M V T P V P A Y D G F I T A D S L N P Q K A R I L L M L A L M T T H T T S D R D K K I Q E
UniRef90_A0A023VHW6 C V D S D E A K L G F V S A G S L N P Q K A R I V L L M L A L M T T K T T S D P K K I Q E
UniRef90_F2LDQ4 H V M N D E A L G F V S A G S L N P Q K A R I V L L M L A L M T T A G T D D A A R L I Q A
UniRef90_P50286 S T T Q D D K K L G F V A T E S T L N N P Q K A R I V L L M L A L M T T K T T D S A R A L I Q Q
UniRef90_UPI0003472A05 H V M P D D A M G F V A S A G T L N P Y K A R I V L L M L A L M T T A S G T D S A A L I Q Q
UniRef90_UPI000287BB81 R V L D S Y G Y E G I F A D S M P G Q K A R I K L T I A L G K T T K N I T E I R K K
UniRef90_U2P7J8 P T V D D S K Y H F V A A L T L N S P Q K A R I V L L Q L A L M T T K T T H D W Y S E I Q Q
UniRef90_A6LW23 I I T I D D K Y S N C I P S Y N T L S P P K S R I V L L L A L M T T K T T K Y S E I K R R
UniRef90_D0IXQ7 F V Q P D D K Y D W V J A H D M R P E K A R I L L T M L A L M T T K G A N T K E I L Q R R
UniRef90_UPI00046337AD R V L D S Y G Y G I F G S D L N P G Q K A R I K L T I A L G K N D L D S I K K D S
UniRef90_R9TSQ8 V V T P N E K E N I L A G N S L N P Q Q K A R I L L M L A L M T T K T T D D D K K I Q S
UniRef90_J0RU19 R V T D D K Q L G T I V T D D L I P Q K A R I L L M L A L M T T Q T S D S K K L I Q E
UniRef90_D1B281 M L N H D D K Y G I A G S T L N S P T Q K A R I V L L M L A L M T T K T S N N D P K V I Q Q
UniRef90_E1W2Z5 Y T T R D A E Y G F V A S G T L N P Q K A R I V L L Q L A L M T T Q T Q T P K Y I E A
UniRef90_U7UEE4 M V S T A T A E E G I J A D T L T P Q K A K I L L Q A A L M Q T R D Q A A I E A
UniRef90_UPI000403513D I V C N D D D L G L I A S Y G L N S P Q K A R I L L T I A L L K P K N L S D E I Q Q
UniRef90_C8WED8 F V N N D D K N D F V V S Y D L N S P Q K A R I L L Q I L I A N G K R K N L S D D I Q A
UniRef90_L7UBZ0 L V L N D D E K G F V A S G E L N S P A K S R I V L L Q L A L M T T Q E T K D P A R I Q R
UniRef90_E7G732 I V V F D P Q H Y C I S A N T L S A Q K A R I V L L M L A L M T T S Q T R D R Q V A G
UniRef90_A1HNB0 R V L D V Y G Y E G I G L A G E L S A Q Q K A R I K L M L A L M T T R Q D R Q V A G
UniRef90_J2TIF4 V V V K D D A N D W L V V D D Q N N P Q K A R I L M A L A L M T T K T R D T R A L Q K T
UniRef90_UPI000478D23C I V A N D D D E L D F V V S D T L N N P Q K A R I L L M L A L M T T K T A D T K A L Q R
UniRef90_B1LTN5 F V Q P D D K Y G Y H D L N N P A K A R I L L A A V A L T K T S D T K E I Q R
UniRef90_B1ZLNJ9 V V E R D D R H G F V A A D E L N S P Q K A R I V L L M L A L M T T K T P D P R A V I Q R
UniRef90_B2THR3 R V F E S Y G Y L G I F V A M L N S G Q K A R I K L L V A V N H N K S L K I R R
UniRef90_R5Q1X4 L I T P L I G K F I F V S A M L H N P Q K A R I L L M L A L M T T K T G D S P K E I R R
UniRef90_A0A011NKN1 G E Q P D D K Y D W V J A H D L N P Q K A K I L L A S V A L M T T Q T N Q D S K E I L Q R
UniRef90_UPI0003B7634B R V V D D D A N G F I A S D E L N P Q K A R I K L M L A L M T T K N P T H D D Q V I R Q
UniRef90_UPI000368366E R V Q D V Y G Y E G I F S N G L N G Q K A R I K L M L A L M T T A N D L D M E S I R Q
UniRef90_S0AFK9 S T T E D A E V D F V A A G T L N P Q K A R I L L Q L A L M T T Q T K D D T K Q I R Q
UniRef90_UPI000393F328 Y V S T H E N A I G I S G F Y N G Q K S K V L K L E L A L M T T A K G E S V D R E I R K
UniRef90_UPI00041DA0E9 V V Q D T Y G Y E G I F T N G L N G Q K A R I L K L M V A L E K T S D R E R L Q D D
UniRef90_E3HU73 F V A R D V E L D F V A A R D L N P Q K A R I L L M L A L M T T S I T S R D P A A L Q D
UniRef90_UPI000316926D I V A R D D K L P F V V S D T L N A Q K A R I L L M L A L M T T K T S D T K E I Q Q
UniRef90_R7KMN0 R V L D V Y G Y P G I M G G E I L S A A K A R I K L L A V A L M T T S E N P D R K T L I Q
UniRef90_F4GUX5 M V T N D A R R G L I A A L A L N P Q K A R I L L M L A L M T T S A H T S D R A T I V I Q
UniRef90_UPI0003D2C2F4 F V N R D V E Y G L V A S M D L N P Q K A R I L L Q L A L M T T S N S K Q S P A E I V I Q
UniRef90_UPI00029A128D G E Q P D D K N D Y V J A H D L N P Q K A R I L A M V A L M T T K T Q N S K E I L Q R
UniRef90_C5VSD4 R V L D T Y G Y E G I F G G A L P G Q K A R I K L T L A L G K T S C V D E I K R R
UniRef90_A1TUT5 F V Q P D D K Y D W V J A H D L N P Q K A R I L A A V A L M T T K P Q S Q E I L Q R
UniRef90_F8KR9 M I V D D A K Y G F L S G D D L N A P K A R I V L L M L A L M T T S Q T H D P S K K I Q
UniRef90_A0A010SGE1 F V E D D D A L N T Y G G W N L N P Q K S R I L L Q L A L M T T Y S G Y S S A Q I E T
UniRef90_S3YNNM0 A E V D D A K Y G F I T A D N L N V Q K A R I V L L M V A L M T T K T S D K D K I Q R
UniRef90_R1CCA8 R V L D T Y G Y E G I F G Y N L P G Q K A R I K L M L A L M T T N D I N K I R R
UniRef90_F8AF00 R V N L N V Y S T G I P C E D M L P E T A Y V K L M W V L G H T D D L N E V I R R
UniRef90_S0FSL9 T V V D D D T L G F I A S Q E L N P A K A R I L L M L A L M T T F K R N V P R H K I Q Q
UniRef90_R5JD10 P T T L D A E Y Q F V A S Q E L N P Q K A R I V L L M L A L M T T K T N D W K I I Q
UniRef90_T0MKX1 R V V N D D E L G T L V S D D L N P Q K A R I L L M L A L M T T N T H D K E T L I Q Q
UniRef90_R5BFQ1 M V P N D S R H G F I V S D T L A P S K A R I L L T L G L M T T K T K D R A I I Q Q
UniRef90_UPI000360EE25 T V E D V Y P I Q Y E G I F S N G L N G Q K A R I Q L M L A L M T T E R T K D P E A K I Q
UniRef90_W8T3A2 R V L D T Y G Y E G I F G G E L N G Q K A R I K L M L A L M T T S N I D E I R N
UniRef90_UPI0002E7CCE1 Q V Q D V Y D Y A G I F S N G L N G Q K A R I K L M L A L M T T H T C D P A E I R Q
UniRef90_G2SRM4 I V F F D P K N H F I G S N T L P F K A R I V L L M L A L M T T Q T R N I E E I R N
UniRef90_R5R233 I V V F D P H N V C I P S N T L S G Q K A R I V L L M L A L M T T V T Q N T K E I K R
UniRef90_B8G030 R T A P I Y G Y P G L F A G D L S T E K V I R I L L S I A L G Q N V S H T R I K E
UniRef90_UPI00035E4297 I V Q D V Y S Y E G I F T Y G L N A Q K A R I K L L V A L M T T V T K S Q A E I K O S
UniRef90_A1D4Y2 E V A I T D S D T T I E S G F L N P Q K A R I L L G L L A E N K G F K E I K A V
UniRef90_E5YB35 R V L D V Y G Y E G I L G S E T S G P K A R I K L M L A L M T T G V A S G R K E I A Q
UniRef90_UPI00030D3ABF V V T P K D Y I S A N S L N P Q K A R I L L M L A L M T T K T A S E N K E K I Q R
UniRef90_Q2L2R3 S V M N D D G H G T L A A G E L N P Q K A R I V L L T L G L M R S H E P V A L Q R
UniRef90_D4W8Q9 N I S A Q N L N A N T F N P Q K S R I L L Q L A L M T T K T K D D Q A I N Q
UniRef90_B2TET8 I V L H D H E Y G W L T V D D Q I P Q K A R I L L T L A L M T T Q T D D T A A L I Q
UniRef90_UPI000468955F R I T N D A E L G F V V A D D L N P Q K A R I V L L M L A L M T T E T S D R A K I Q D
UniRef90_C5AJS2 F V N R N V E V N F A V S L D L N S P Q K A R I L L T Q L L V A N D R M S Q P A E I V Q
UniRef90_A0A023WSL5 R V M A N Y G F E G V M A G L N S P Q K A R I L L M L A L M T T Q R G M G S Q E D I Q
UniRef90_F9FQ55 G F V G P C Q A G I G A G F L N P Q K A R I Q L Q L A L M T T E A K M D N D A I R A
UniRef90_UPI000478B848 I V Q D T Y G Y E G I F T N G L T G Q K A R I K L M I A L M T T T N D H E Q I E
UniRef90_N9LK60 F V Q P D D K Y G W V A A H D L N P Q K A R I L A A L M T T K T T D A N E I Q R
UniRef90_L5N3H5 I V Q D T Y G Y A G I F A N G L T G P K A R I K L M V A L M T T N N R T E I E H

QUERY	Y F H T Y
UniRef90_UPI00028970BF	□ F Y T Y
UniRef90_UPI0002E0D40B	F F D K Y
UniRef90_F7NMB1	□ F W T Y
UniRef90_D5DIZ7	Y F N E Y
UniRef90_UPI00046E902E	Y F N E Y
UniRef90_B5F9G4	Y F S T Y
UniRef90_A0A013UIW9	F F Y E Y
UniRef90_R5P4D4	Y F N N Y
UniRef90_M8B5Q1	M F N E Y
UniRef90_R6PQR5	Y F Q K Y
UniRef90_W9B377	M F Q Y Y
UniRef90_C7M771	Y F N E Y
UniRef90_I8SMH9	M F W K Y
UniRef90_R5ECZ5	M F D Q Y
UniRef90_I8SJU2	M F W E Y
UniRef90_UPI0003A63DFF	M □ H T F
UniRef90_UPI000288A8D5	M F F K Y
UniRef90_C5EYW3	Y F E E F
UniRef90_F7NMI4	□ F W R Y
UniRef90_B9D4M6	L F □ T H
UniRef90_V5PSG7	□ F D E Y
UniRef90_D8FTT1	M F Y T Y
UniRef90_G0VPQ8	□ F D T Y
UniRef90_A0A023WHW6	Y F □ K Y
UniRef90_F2LDQ4	A F D T Y
UniRef90_P50286	□ F S T Y
UniRef90_UPI0003472A05	□ F D T Y
UniRef90_UPI000287BB81	□ F E
UniRef90_U2P7J8	Y F Q E Y
UniRef90_A6LW23	□ F A E Y
UniRef90_D0IXQ7	M F W E Y
UniRef90_UPI00046337AD	□ F E K
UniRef90_R9TSQ8	Y F E E Y
UniRef90_J0RU19	Y F F E Y
UniRef90_D1B281	□ F F K Y
UniRef90_E1W2Z5	Y F E D F
UniRef90_U7UEE4	F F R A Y
UniRef90_UPI000403513D	□ F □ E Y
UniRef90_C8WED8	A F E
UniRef90_L7UBZ0	M F Q E Y
UniRef90_E7G732	□ F N E Y
UniRef90_A1HNB0	Y F D
UniRef90_J2TIF4	□ F W K Y
UniRef90_UPI000478D23C	M Y Y A Y
UniRef90_B1LTN5	□ F W E Y
UniRef90_B1ZNJ9	□ F F T Y
UniRef90_B2THR3	□ F E K
UniRef90_R5Q1X4	□ F N E Y
UniRef90_A0A011NKN1	□ F W E Y
UniRef90_UPI0003B7634B	□ F Y A Y
UniRef90_UPI000368366E	A F E
UniRef90_S0AFK9	M F N Q Y
UniRef90_UPI000393F328	Y F A K
UniRef90_UPI00041DA0E9	□ F Q
UniRef90_E3HU73	L F D R Y
UniRef90_UPI000316926D	□ F Y S Y
UniRef90_R7KMN0	□ F D E
UniRef90_F4GUX5	Y F E □ Y
UniRef90_UPI0003D2C2F4	E F
UniRef90_UPI00029A128D	□ F W E Y
UniRef90_C5VSD4	L F E E
UniRef90_A1TUT5	□ F W Q Y
UniRef90_F8KRV9	Y F F T H
UniRef90_A0A010SGE1	□ F
UniRef90_S3YNNM0	Y F K E Y
UniRef90_R1CCA8	□ F E
UniRef90_F8AF00	M M □ T
UniRef90_S0FSL9	M F Y T Y
UniRef90_R5JDIO	Y F N E Y
UniRef90_T0MKX1	Y F □ R Y
UniRef90_R5BFQ1	Y F Y E Y
UniRef90_UPI000360EE25	F F Q
UniRef90_W8T3A2	□ F E K
UniRef90_UPI0002E7CCE1	□ F D
UniRef90_G2SRM4	T F F R Y
UniRef90_R5R233	□ F N E Y
UniRef90_B8G030	□ L
UniRef90_UPI00035E4297	M F
UniRef90_A1D4Y2	A F A K
UniRef90_E5YB35	F F D T
UniRef90_UPI00030D3ABF	Y F D E Y
UniRef90_Q2L2R3	□ F D □ Y
UniRef90_D4W8Q9	Y F S T Y
UniRef90_B2TET8	□ F E R Y
UniRef90_UPI000468955F	N F F E Y
UniRef90_C5AJS2	A F
UniRef90_A0A023WSL5	A F D
UniRef90_F9FQ55	□ F E
UniRef90_UPI00047B8B48	□ F □ Q
UniRef90_N9LK60	M F W E Y
UniRef90_L5N3H5	M F

UniRef90_C6PQI9 1 M K K V I I I F T G G T I S M K K D E N D A A V P S M G S G G D I L L E L 40
UniRef90_A6TQ93 K P R I A I I F T G G T I S M S V D P R T V G A A I P S L G S S E Q I M S L L
UniRef90_U2LPX8 K P Q I T I L L T T G G T I A G S S A S N K T D T T G Y K A G A G V T L G I L L I A A S
UniRef90_W7E5Q4 E K A T I L L L A T T G G T I A G Q A T N D K E L G Y H A E A Q T S G E T L L I K S
UniRef90_UPI0002D69492 E L P N I T I L L G T G G T I A G S A E K S T D V T G Y K A G E I A V S T L L I E A T
UniRef90_Q9KCE7 M K K V L V I F H T G G T I A M S H E D E S A D G G V T Q G Y Q A G A L G I Q A L L I D A
UniRef90_A0A016PEL4 S L P N I T I F A T G G T I A G S A G S A D Q T T G Y Q A G A L G I Q A L L I D A
UniRef90_L7EGW8 M K N I L I I F T G G T I S M K R D K N I N A S V P S M G K G D I L L D L
UniRef90_W0RTK5 L P H V H L V L A T G G T I A S T N Y Y S G Q S G K L G V E A Q L L E A
UniRef90_UPI0004700853 L P R I V L L A T G G T I A G A Q E Q A A S L S Y R A A S L G G A Q L L L Q A R
UniRef90_R5C708 M K K V Y L L A T G G T I A S A A G C E G K T T T G Y H D G K F D L K D L L L A R
UniRef90_UPI00046AC544 K L P R I V V L A T G G T I S G T A D A R S A I G Y N S G S G E R T G Q Q L L L D D A
UniRef90_W6WS49 M K K I V I L A T G G T I A G A A A T G V Q A G Y T S G E V G V E T L L I D A
UniRef90_B7RZ08 K N I L L I H T G G T I S M K E D H E T G E V K P G E F A N P L M D H
UniRef90_UPI00047C7777 K N I L L I L T G G T I A M K A S D P A G V I P S P E F A N E F L R Q
UniRef90_B0VH1 M K K I L V L H T G G T I A M Q E N E G G V T T G D S N P V Q Q W N T L V
UniRef90_UPI0004116EBF M K K I V V I S T G G T I A M V K N E N G V V P Y E K G N L L L S E
UniRef90_A6LLE3 K K H I V I T T G G T I A M K T D P V T G G L V P A V S G E D L L A A S
UniRef90_R6A4P7 M K N I V I A T G G T I A G S G K I G E S A S Y Q A G T I N V K Q L V D S
UniRef90_D4JDX5 M K K I L V I A T G G T I A M T Q T E E S G V E P G L H N P L L Q W
UniRef90_UPI0003B75D60 M K K V V I I A T G G T I A M K K N S S P A I F G E K L I E S
UniRef90_M1E785 K K T K I A V I G T G G T I V S S G A N A T Q M T G Y S I T D A D I H T I M T A
UniRef90_R5EQK2 M K K V A V V F N G G T I A G A G A S S T G S A Y K A G A V S V N H I V D A
UniRef90_UPI000288BBD0 M K K I I L L H T G G T I A M I E D K E T A A V P S L T G E E I M S M
UniRef90_C9LYU0 K P K I C I L L T T G G T I A G A A A R S D A L T G Y R A G A L L G A D E L L A A
UniRef90_V8QWP2 M P R V A I L L A T G G T I A G Q A D N A S A L T G Y S E S G K L G S A K D L L S A
UniRef90_UPI0003B694F7 S L P N I L M I H T G G T I A M S E D K T T G K V G P L G S S N P L N E T
UniRef90_C7YJK4 M P R V L L L A T G G T I A G S A G S A D Q T T G Y Q A G A L G I K V L T D A
UniRef90_D5WMS1 K P R I L L A T G G T I A G A S D S T E T V D Y T A G V I G V A E L L V Q A
UniRef90_K6VRW1 E K P V V Q F I A T G G T I A M K I D P V K N A P V P A I S G D D L L A T
UniRef90_A9BQC6 K K K V I V F T T G G T I A M K F D P K V N G L V P A V S G A D L L A A
UniRef90_R5EJ43 M E K V L I A T G G T I A M R K D K A G K A V P A V S G H E L L E S
UniRef90_I4D8F4 L P K I A V I A T G G T I A M K L D P V T H A P V P A L S G E D L L V A A
UniRef90_UPI000399F153 L P K I S I V I S T G G T V A S V I D Y K T G A V H P A F T A D D L L R A
UniRef90_U6EB94 M K N I L V M H T G G T I S M S E N A Q G V V T T N D T N P M S N I E I I Q S
UniRef90_B9E6L8 K K V A I V F T G G T I A M A M N K D K N S F V P A L T G Y E I M K L
UniRef90_F6BJB9 K R I H I L A M G G T I A G S A G D S A A T T G Y Q A G A M G I E L L A A
UniRef90_I0GMS6 M K N L V L H T G G T I S M S E D E S N K V M T N D D N P I T H H Q D V
UniRef90_E8SHG4 K L P K I V I L G T G G T I V S S G D D P L M L T G Y R I K G L N V I E T L L C
UniRef90_R5PVG4 K P K V C I F T G G T I S M T V D E E I G A A I P T L S S G E Q L L S A
UniRef90_F2JGU4 M K K I L V L H T G G T I S M S A D E A G N V T P G A E N P L D N Y
UniRef90_I9KZ92 K K K I L I I H T G G T I S M S E D A S T G A V V P T E K N P M T D K S
UniRef90_U5LD58 L K N V V I L A T G G T I A G S G E A H K T L N Y E P G A L P V Q D D L L D S
UniRef90_W4ARL0 Q K P H V H I L A T G G T I A G A G S S T T G S N Y T A G Q V A I G T L L D A
UniRef90_UPI00039BACFF S K P Q V L I L T T G G T I A S R T D A P L I R N G P E L V Q A
UniRef90_B8KJY1 M K K I L V L H T G G T I A M S E D E T G A V A P G A E N P L N Q F
UniRef90_UPI0004685E0E S L P N I T I F A T G G T I A G S A S S S E V T G Y K A G A L G V D I L I D A T
UniRef90_F0XE72 L P L C A F I S T G G T I A M K I D P I R K A P V P A L S G D D L L A T
UniRef90_UPI00031A3F1B M K K I L I L N T G G T I A M Q E G P N G T I L K Q Q L N P L L Y S
UniRef90_W4QAJ9 M K R L L V L H T G G T I S M S E D E S K K V V T N E H N P I T T H K D I
UniRef90_K9B7S5 L P Q V R L F T T G G T I Q S K G A H R Q K L M E Y S D G R V T P S E L V D D
UniRef90_UPI0003B31EDD E K P D I S I V I S T G G T V A S V I D Y K T G A V H P A F T A E D L I R A
UniRef90_F0T727 M K K L L V L H T G G T I S M S Q D P E S N K V V T N T D N P I S N H Q N I
UniRef90_D8IPE0 M K K V V V Y A T T G G T I A G T A P S S T S T A I Y Q S G C L K V N E L I E R
UniRef90_UPI0002EDC5DF M K K V I V F T T G G T I A M K Y D A E K G G L V P A V S G A D L L A A
UniRef90_C7Z2A5 M K K I L I L H T G G T I S M A E D E N G H V S P N A V N P M N A
UniRef90_R7IM87 M K K L L V I H T G G T I S M S Q D A S N K V V T N D D N P I S K H Q D I
UniRef90_D2BPL6 L P T I K I L G T G G T I A S K A N S S H A T A G Y E V D L T I E E L V S Q
UniRef90_F9L9Q0 M K R L L I I H T G G T I S M S Q D Q T N K V I T Y N E E N P I S Q H Q N I
UniRef90_A5E6N2 M K R L L I I H T G G T I S M S Q D Q T N K V I T Y N E E N P I S Q H Q N I
UniRef90_Q5HP67 K K R I Y I A Y T G G T I G M Q R S S Q G Y I P Q A G F M E N C L A E R
UniRef90_D1P027 M S N I R L I T T G G T I A S S R K E G S D R V V A N V S G A E L L K S R
UniRef90_C4LB83 P S V L L I Y T G G T I G M I E N P E T G A L E S V S G A E L L K S R
UniRef90_K2NT33 P K I L L I Y T G G T I G M I E D P L T G A L R A F D F T Y L L E Q
UniRef90_R5NH88 E R K H I Y I A Y T G G T I G M I L K S D D H Y R T G A V T A A G F M Q L K Q
UniRef90_UPI00046FF722 L P L V T I I S T G G T I A S K V D Y R T G A V T S Q F S A E E I S A
UniRef90_B5FF15 M K R I L V I H T G G T I S M S E D K D T Y R T G A V H P A F T A D D L L R A
UniRef90_A0B7W3 S R P K I L L I Y T G G T I G M I E N P D T H T Y R T G A V H P A F T A D D L L R A
UniRef90_UPI0002E6E49B L P D V S I I S T G G T V A S I I D N T G D Y D S A K V A V D K I I A A
UniRef90_R7EZV0 K T A G Y H V D L T I E D L L S S N S A S Y Q A K V P V D K L I A G
UniRef90_D9PWU0 K T P R I K V I G T G G T I A S K G E S G S Q T A G Y H V D L T I E D L L S S
UniRef90_UPI0003628A62 M K K I L I I H T G G T I S M L E N K E T G E V A E T N T H P L T D L
UniRef90_A0A059KGD9 P S V L L I Y T G G T I G M I L R N S E T G A L E S F T F D H L V R H
UniRef90_C4R503 K L P K V A I I S T G G T I A S K I D Y R T G A V T S Q F T A D D I L A A
UniRef90_A0A024PZB9 M K K I L I L N T G G T I S M S E D Q R T G K V A P T D S N P I G A G
UniRef90_R5Y2S1 M K K I L A L H T G G T I S M S A S N D T V K T N E Q N A P L L D S Q F I N K N
UniRef90_Q46GJ6 M K R I V I L G T G G T I A G R A V S T S D N I G Y T A A Q V G I D Q L V A A
UniRef90_C5NU98 L K N V V F I S T G G T I A S K I D Y R S G A V S S Q C S A D D I V R T
UniRef90_Q03HC4 Q R K N I Y V A Y T G G T I G M Q R S A Q G Y V P V S G H L Q Q Q L L A
UniRef90_UPI00047DD052 K P R V Y I L G T G G T I A S K V I E Y E T G A V K P A M S A E E L L E A
UniRef90_D5E6V7 S L P S I K I F G T G G T I A S K G S T S A T T A G Y S V G L T V N D L I E A
UniRef90_UPI0004712476 V L V L I T G G T I A S R A T G P M T D G A S L V R G
UniRef90_G0EEK5 M K K I L A I H T G G T I S M S Q N E K G E V V P N A Q N P I A Q Q E T I
UniRef90_P0CZ17 K K K K V Y I A Y T G G T I G M K P S D K G F V P Q E G F L E N T L A S
UniRef90_UPI00046A23C5 I L I Y T G G T I G M V E N P K T G V L E P F D F G Y L H N
UniRef90_R6P687 M K K I L L I Y T G G T I A G K G S N Y C S G T L S V K D I I S A
UniRef90_U5SDT0 K T I L V L H T G G T I S M S E D Q T T G K V S P T S E N P L K K R

UniRef90_C6PQI9 T P G I L E K I A Q I 50 D F L D F G M V P 60 P H M T P E K M L E L 70 S K I I S K K V I 80
UniRef90_A6TQ93 V T N E L D R Y A H I E V S E L N F S S E L P G G P H M V P K L M F Q L R N K R V L L E T L S
UniRef90_U2LPX8 V P A L M A K N E A N E V K G E G A I S S Q I T I G S G Q D V M S D Q V L L T L L S A H H I L N Q K A E
UniRef90_W7E5Q4 V P A L M A K N E A N E V K G E G A I S S Q I T I G S G Q D V M S D Q V L L T L L S A H H I L N Q K A E
UniRef90_UPI0002D69492 V P Q I L V D I A N V D G I Q V A N S Q I T I G S S S N I D S S K I L L E M A N T R I A N S L L Q
UniRef90_Q9KCE7 V P E S Q L T S I V A S N V R G V D D F L A N V I P D S S G D V N S T L L T T L L S A H H I L N Q K T R V L G D
UniRef90_AA0A16PEL4 V P N V L D Q I A N V I H C M D F S T I V P S P H I T P E K M L E L S K M I Q S E
UniRef90_L7EGW8 V P A L D Q T A T A Q E Q V L V S V A G S S Q N M T Y E V W H A L S A R G R I A G D L R A A
UniRef90_W0RKT5 V P Q L E K L A K V L E G E Q V L N V L S S D D I T W G D W L S L A G K I E K L S L
UniRef90_UPI0004700853 V P G L A E K L A K V L E G E Q V L N V L S S D D I T W G D W L S L A G K I E K L S L
UniRef90_R5C708 V P E L G A D V I T A E Q V I A N T V I G S S Q D M N D G I W F Q L A K R I N E I F A D
UniRef90_UPI00046AC544 V P G L A E K L A K V L E G E Q V L N V L S S D D I T W G D W L S L A G K I E K L S L
UniRef90_W6WS49 V P G L A E K L A K V L E G E Q V L N V L S S D D I T W G D W L S L A G K I E K L S L
UniRef90_B7RZ08 V P Q L S E L A D I S G E Q V A N V L S S Q D M S D E V W L L L A D R V N T L L A
UniRef90_UPI00047C7777 L K E L L P D I N L I T T L F H L P S P H I T P A N M M F H L K T Y I E E S K
UniRef90_B0VH1 F P Q L S E V A N I E V M D Y L N I P S P Y M T P A M M F E L A E L I D
UniRef90_UPI0004116EBF I P L K S I V D V E L M E F S N V P S P H I T P S H M L K L F H H M N E R L L Q
UniRef90_A6LLE3 V P G L K S I W A D V E L M E F S N V P S P H M T P I D M W N L S K R I I D G L L L
UniRef90_R6A4P7 I P Q I D T L A N L T M I Q L C N L D S S N D I G I S H W K K L R E Y C E R Y D K
UniRef90_UPI0003B75D60 S R I A N R E I A E L V T S D F L H L P S P H I T P E N M L S L H E H M L L E K L S
UniRef90_M1E785 V P C I R E I A D F E I V N F S N F A S C N M S P E N L I R L A K K V E D I L K
UniRef90_R5E1U7 L P E L N D I A E I A T F S V F N I G S S N I K L S N W L E L V C I N K L S
UniRef90_R5PQK2 V T P Q L A K I A N V P I P I V T S N I G S S Q D M S D E V W L K L A K T I A S D C
UniRef90_V9H357 V T G I E K F A E V E S H S F S S K P S P H M T I Q N M L E L S K T F I K G L I D
UniRef90_UPI000288BBD0 T N A L A S I A D V K V I E E L F Q L P S P H I T E K E M L L L K E K I E T S V R A
UniRef90_C9LYU0 V P E I A D V C A E S E E V A A S I D G S K D M T E T V W L H L A A R I K S A A L A D
UniRef90_V8QWP2 V P G L E K L A T I N A E E Q I A S V I D G S Q D M N D K I W F S L A K K I K S L A D
UniRef90_UPI0003B694F7 A G I F S Q F A D L T I E N I F H L P S P H M T I D H M F L L S Q F I N D H
UniRef90_C7YJK4 V P E L C I S N R G V Q I A N V D S S D I T S T I L T N L T H Q I Q A A F D E
UniRef90_D5VWMS1 V P G L E K L A S I N A E Q I A N V G S S Q D M N D K I W L Q L A R R I Q D E A F E
UniRef90_K6VRW1 V P D L T R I A E I S H Q Q L W Q L D S S V D M D P A R Q L E L V R Q V R A Q V A
UniRef90_A9BQC6 V P D V G K Y A R I Q V V N L S N V P S D Y M D P A R W V L T Q Q A I Q A A L K
UniRef90_R5EJ43 V P G L D K K A D I E V V R E F S N H A S C A M T P Q K M F Q L S Q M V Q E E A L K
UniRef90_I4D8F4 I P E L T R H A K W D V C D F S N V A S C A N M D L N Q M K R L A S V I E E W L S
UniRef90_UPI000399F153 V P K L K D I A S I A V T E F S N V P S S D Y M G P D R W P G L S R Q A I D E I L A
UniRef90_U6EB94 T P E L L D E A N I S G K A L M N I L S E N M K P E F W V K A S Q A I A D E I N
UniRef90_B9E6L8 I F N N H F R D L V I E T E K H P F Q L P S S P H M T L K H M N I L R K S I I N E I Y
UniRef90_F6BJB9 V P Q V R E L A E I T G E Q V A A I D S K D I T A A Q Q L Q L A A R V R E L L L
UniRef90_I0GMS6 V P N I A Q Y A N I D E Q V I A N V P S S P H M T I D N V K I L K E I I E D P D H
UniRef90_E8SHG4 V P S E L Q H F A R I E A H Q V A N I D S S S M T F S I L W L E L G R A I E T A A A
UniRef90_R5PVG4 V S N I F G A D I E L E T E D V F N V P S P H M T F D K L L E L K K L I T A K L D
UniRef90_F2JGU4 Q S S F G A D I E L E T E D V F N V P S P H I T P A R M L Q L K Q R I D K A A H
UniRef90_I9KZ92 T N E L F E L A D I L V I E E P F H L P S P H I T P V I E M L V L R D L I N D K H Y Q
UniRef90_U5LD58 V P H L F R L A N C A G V Q V S N L C S A D I T S E H W L T L A T Y I N T L A F
UniRef90_W4ARL0 V P E V N D V A E V T G E Q I V N I G S S Q D M T D D V W L T L S K R I N E I F E
UniRef90_UPI00039BACFF V P G L L D Y A E I Q V I E E F S V I G S S K V T P D H W L R L A R R I N E I Y A E
UniRef90_B8KJY1 K N P F D R E Y E L L I E N I F N I G S S P H M D P K N M L R L A R R I M E A Y E
UniRef90_UPI0004685E0E V P E I R N A S N V S G V Q Y S N I G S S Q M M N T T L L V G L S Q Q L Q A A L D
UniRef90_F0XE72 V P A M A I A T L E V N D L F N I P S S D Y M D P Q R W I A L Q Q A T A A A L
UniRef90_UPI00031A3F1B I E S L S T I A S V I V D D Y L N I P S P H M T P Q I I G Q L A K H M K R V E
UniRef90_K9B7S5 I Q S Y A E I V E E T P F N V P S S P H M T T E H V E I L Q R I I L T A D E
UniRef90_UPI0003B31EDD L P E L R D V A Q L S Y A E I F S N V G S G N I D T K T L L T L A Q Q V A N A L A
UniRef90_F0T727 N P E L E H A N I N Y G A E I F S N V L S E S D M K P E Y W V K T A R S V V A D E I N
UniRef90_D8IPE0 V P E I S K I A N V R G E Q I F Q I G S S E S F N D E R L I K L G K R V S E L L K
UniRef90_UPI0002EDC5DF I N E K Y A D V T E I T P F N V P S S P H M N I E Y V E T L K Q I I N Q S E K
UniRef90_C7Z2A5 L P E L D V A E V T S R Q I C N V G S S P D L N S E I L I S L S Q Q I E K D L M
UniRef90_R7IM87 V P G L D K V A D V E V R E F S N V A S C A N M S P E R M F A L S H A I E E A L K
UniRef90_D2BPL6 V S M Q F D E Y A L V E T I F N L P S P H V T L S D M L V L K N R I K T A F I
UniRef90_F9L9Q0 I G Y A Q V L E T H L F N V P S P H M T I S K V T Q L H N K I I Q C V E
UniRef90_A5E6N2 I P D L S G T C Q L E Y E Q V L N I D S S E L G P K E I T L L R N Q I V E D L D
UniRef90_Q5HP67 P D L S Q Y A E V D E I N L L N I P S S P H M T I S N V V R L R D E I T Y S K
UniRef90_D1P027 V P E T K K I A N L S G E Q L V N I G S S Q D M N D Q V W L T L A K K I N Q D C
UniRef90_C4LB83 M P E F H R P D Y V I H E Y N P L I D S S D M T P A D W Q R I A E D I R D H
UniRef90_K2NT33 L H D P L E G F D I T V D V F C S V G S S F A F D P L A F A L A K H I D E A L A
UniRef90_R5NH88 V P E L K R F Y H I N T Y S F P P I D S S S D M E P Y H W A R L A R I V E R A L A N
UniRef90_UPI00046FF722 I P E L Q R F F E L S S I Q F P P I D S S A I T L D I W L K L A S T I E K H Y D
UniRef90_B5FF15 M P E F H R P F T I H E Y E P L I D S S D M T P E D W Q R I A D D I R A N Y D
UniRef90_A0B7W3 I P E L G D I A R Y I H A R V L Y T I L S E N M R A E Y W I E L A R A V A
UniRef90_UPI0002E6E49B Q A F I Q S L G D I E E I N P F Q V P S P H M N D Y I V L K N I T D A I E
UniRef90_R7EZV0 V P K I R M D Y D I D H I Q F S P I D S S S T I T P T H W R S I A E M I E E R Y N
UniRef90_UPI00049PWU0 N P E L L D M A N I R G K A V L S N I L S E N M K P E Y W V E T A R A V Y R E I D
UniRef90_UPI0003628A62 V P E M K Q V A N V R G E Q I F Q I G S S E S Y N D E R T L K L A K R V S E L V K
UniRef90_A0A059KGD9 V P E L A Q V A Q V L E Y E Q V F Q I A S E S F T N E H L L T L G K R V A A L A K
UniRef90_C4R503 I P D L S Q V C E L E Y E Q V L N V A S K E F G E K E L L M H E A V S R S I R
UniRef90_UPI000424PZB9 S Y H F S K Y A Q T E E M V I F S L P S P H I T P E H M L K L S E E I K K K L S
UniRef90_R5Y2S1 I P E L K Q M C R D S V Q F P P I D S S D M D P S L W V D L A R A I H D N Y D
UniRef90_Q46GJ6 I P E L R E I A D F K G R V I S S I L S E N M D S E S W Q N L A R A I V E I E
UniRef90_C5NU98 G N I F S Y I G D L H V I E D L Y H L A S P Q I T Q N E M L G I K N R I N K A V L Q
UniRef90_Q03HC4 I P A V G D A G P V L N E V I L N K P S E H I T P D D M L T I K K R V K K A L D
UniRef90_UPI00047DD052 I P E L D D I A N I R G R V T N I L S E N M K P Q V W T E L A R A V Y E E I N
UniRef90_D5E6V7 M P E F H R P E M P I H E Y Q P L M D S S D M T P S D W Q V I A D D I H A K N
UniRef90_UPI0004712476 V P E I G F I A D I D H I Q F S P I L S E N M T P S H W E R I V D E V A K L I Q
UniRef90_G0EEK5 V P S L A E K A N I D Y L Q V S N V G S S N S L N Y T H L I P L Y H G I S E A L A
UniRef90_P0CZ17 I P A L A T V A S V R V D E L F R V P S S Q M T P J D W L R I V K R I N A E L A
UniRef90_UPI000479F465 I P A L A T V A S V R V D E L F R V P S S Q M T P J D W L R I V K R I N A E L A
UniRef90_UPI0003624788 M E G R V I L T D E L F N L P S P H V T P V E M L K I K E R I N Q G E
UniRef90_C7RBC6 F H E F K H M P E I T I R D Y E P I D S S A N M T P E D W Y L I A Q D I Q N N
UniRef90_UPI00046A23C5 I P E L Q H I C N F T I E Q F P P I D S S A M T K P D L W A K V A L M I Q E N Y D
UniRef90_R6P687 V K G L D K V A H F T D F V Q A S N I D S S C N M K E I L V Y N I A Y L I E E T
UniRef90_U5SDT0 G H L F D N V A N M I V E D F F H L P S P H M T P D K M L L K N R I E Q A I A

		90	100	110	120																																						
UniRef90_C6PQI9	E	G	Y	D	G	V	V	I	T	H	G	T	D	T	S	L	E	E	T	A	Y	L	L	D	L	T	T	Y	N	G	L	K	P	V	V	F	V	G	S	M	K		
UniRef90_A6TQ93	R	E	E	G	D	G	V	V	I	T	H	G	T	D	T	L	E	E	T	A	Y	L	L	D	L	T	T	Y	N	S	P	K	P	V	V	F	V	G	S	M	R		
UniRef90_U2LPX8	Q	Q	G	Q	G	V	V	I	T	H	G	T	D	T	L	E	E	T	A	F	F	L	L	D	L	T	T	Y	N	S	P	K	P	V	V	F	V	G	S	M	R		
UniRef90_W7E5Q4	N	P	K	S	G	V	V	I	T	H	G	T	D	T	M	E	E	T	A	F	F	L	L	D	L	T	T	Y	N	S	P	H	K	P	V	V	F	V	G	S	M	R	
UniRef90_UPI0002D69492	N	D	T	S	G	V	V	I	T	H	G	T	D	T	T	E	E	T	A	F	F	M	D	L	V	N	Q	T	D	K	P	V	V	V	V	T	G	A	M	R			
UniRef90_Q9KCE7	N	E	S	F	D	G	V	V	I	T	H	G	T	D	T	L	E	E	T	A	F	L	L	D	L	L	Q	D	S	E	W	P	V	V	V	V	T	G	A	M	R		
UniRef90_A0A016PEL4	N	P	H	Q	G	V	V	I	T	H	G	T	D	T	L	E	E	T	S	F	F	L	L	D	L	L	T	V	S	E	K	P	V	V	V	V	T	G	A	M	R		
UniRef90_L7EGW8	A	K	V	Y	D	G	V	V	I	T	H	G	T	D	S	L	E	E	T	A	Y	L	L	D	L	T	Y	N	G	N	P	V	V	F	T	G	A	M	K				
UniRef90_W0RTK5	H	P	D	L	A	G	V	V	I	T	H	G	T	D	T	L	E	E	T	A	Y	F	L	L	D	L	T	V	A	D	P	R	K	P	V	V	V	T	G	A	M	R	
UniRef90_UPI0004700853	D	P	A	V	D	G	V	V	I	T	H	G	T	D	T	L	E	E	T	A	Y	F	L	L	D	L	V	L	A	D	F	G	K	P	V	V	L	T	G	A	M	R	
UniRef90_R5C708	R	S	D	M	D	G	F	V	V	T	H	G	T	N	T	L	E	E	T	A	Y	F	L	L	D	L	V	L	K	T	E	K	P	V	V	L	T	G	A	M	R		
UniRef90_UPI00046AC544	T	D	A	T	H	G	V	V	I	T	H	G	T	D	T	L	E	E	T	A	G	F	F	L	L	D	L	T	V	N	S	D	K	P	V	V	V	L	T	G	A	M	R
UniRef90_W6WS49	R	G	E	A	D	G	V	V	I	T	H	G	T	D	T	M	E	E	T	A	F	F	L	L	D	L	K	N	V	L	H	S	R	R	P	V	V	L	V	G	S	M	R
UniRef90_B7RZ08	S	K	D	V	D	G	V	V	I	T	H	G	T	D	T	L	E	E	T	S	Y	F	L	L	D	L	V	L	N	S	D	K	P	V	V	V	M	T	A	A	M	R	
UniRef90_UPI00047C7777	K	M	H	L	D	G	V	V	I	T	H	G	T	D	T	L	E	E	T	A	Y	F	L	L	D	L	V	L	S	L	T	T	P	V	V	L	T	G	A	M	R		
UniRef90_B0VH11	I	I	D	Y	D	G	V	V	I	T	H	G	T	D	T	L	E	E	T	A	F	L	L	D	L	V	L	T	T	T	R	K	P	V	V	F	T	A	A	M	R		
UniRef90_UPI0004116EBF	D	T	K	A	E	G	V	V	I	T	H	G	T	D	T	L	E	E	T	A	Y	L	L	D	L	L	H	T	M	E	L	P	V	V	L	T	G	A	M	R			
UniRef90_A6LLE3	D	R	N	V	I	G	V	V	I	T	H	G	T	D	T	L	E	E	T	S	Y	F	L	L	D	L	T	L	K	S	D	K	P	V	V	L	T	G	A	M	R		
UniRef90_R6A4P7	K	A			D	G	F	V	V	T	H	G	T	D	S	L	E	E	T	A	F	F	L	L	D	L	M	T	L	H	T	E	K	P	V	V	C	V	T	G	A	M	R
UniRef90_D4JDX5	D	D	S		D	G	V	V	I	T	H	G	T	D	T	L	E	E	T	A	F	F	L	L	D	L	N	L	N	C	H	K	P	V	V	L	T	G	A	M	R		
UniRef90_UPI0003B75D60	E	N	D	A	Y	D	G	V	V	I	T	H	G	T	D	T	L	E	E	T	A	F	A	L	L	D	L	F	H	D	D	E	L	P	V	V	V	T	G	A	M	R	
UniRef90_M1E785	K	D		N	G	L	V	I	T	H	G	T	D	T	V	E	E	S	A	F	F	L	L	E	L	T	L	H	D	D	E	R	P	V	V	I	F	T	A	A	Q	R	
UniRef90_R5E1U7	K	E	N	F	D	G	F	V	V	T	H	G	T	D	T	M	E	E	T	A	F	F	A	L	L	D	L	L	K	T	E	K	P	V	V	F	T	G	S	M	K		
UniRef90_R5PQK2	K		Y	D	G	F	V	V	I	T	H	G	T	D	T	M	E	E	T	A	F	F	L	L	Q	L	T	T	A	C	K	K	P	V	V	L	V	G	A	M	L		
UniRef90_V9H357	R	E	D	I	D	G	V	V	I	T	H	G	T	D	T	L	E	E	T	A	Y	F	L	L	D	L	T	I	D	T	E	K	V	V	V	T	G	A	M	R			
UniRef90_UPI000288BBD0	E	D	K	I	E	G	V	V	I	T	H	G	T	D	T	L	E	E	T	A	Y	F	L	L	D	L	T	I	Q	S	S	D	I	P	V	V	V	T	G	A	M	R	
UniRef90_C9LYU0	A	G	A	A	G	V	V	I	T	H	G	T	D	T	L	E	E	T	A	F	F	L	L	H	L	V	V	K	S	E	K	P	V	V	L	T	G	A	M	R			
UniRef90_V8QWP2	S	K	G	A	D	G	V	V	I	T	H	G	T	D	T	L	E	E	T	A	F	F	L	L	C	V	L	K	D	P	S	V	P	V	V	L	T	G	A	M	R		
UniRef90_UPI0003B694F7	Y	E	D	F	D	G	V	V	I	T	H	G	T	D	T	L	E	E	T	A	Y	F	L	L	E	L	T	C	D	L	P	I	P	V	V	M	T	G	A	M	R		
UniRef90_C7YJK4	S	P	Y	T	Q	G	V	V	I	T	H	G	T	D	T	L	E	E	T	S	F	F	L	L	D	L	T	V	Q	S	D	K	P	V	V	V	V	G	S	M	R		
UniRef90_D5VWMS1	R	N	E	A	D	A	V	V	I	T	H	G	T	D	T	L	E	E	T	A	F	F	L	L	D	L	N	V	L	H	S	D	K	P	V	V	V	V	G	S	M	R	
UniRef90_K6VRW1	R	P	D	V	D	G	V	V	I	T	H	G	T	D	T	L	E	E	T	S	A	Y	L	L	D	L	L	V	G	S	P	K	P	V	V	V	V	G	A	M	R		
UniRef90_A9BQC6	R	E	E	V	A	G	A	V	V	T	H	G	T	D	T	L	E	E	T	A	F	W	L	D	L	L	H	V	S	S	K	P	V	V	L	T	G	A	Q	R			
UniRef90_R5EJ43	E	E	G	V	A	G	A	V	V	T	H	G	T	D	V	L	E	E	T	A	Y	M	L	D	I	L	H	K	S	E	K	P	V	V	L	T	A	A	M	R			
UniRef90_I4D8F4	K	D	S	S	R	G	L	V	V	T	H	G	T	D	T	L	D	E	E	T	A	Y	F	L	D	L	T	I	K	D	P	R	P	V	I	L	T	A	S	Q	R		
UniRef90_UPI000399F153	D	P	A	L	K	G	A	I	I	L	H	G	T	D	T	L	H	Q	Y	T	A	A	L	S	F	L	L	L	K	E	T	P	V	V	L	T	G	A	Q	R			
UniRef90_U6EB94	Q	G	A	E	G	V	V	I	A	H	G	T	D	T	M	H	Y	T	A	A	A	L	S	F	L	L	L	L	E	T	P	V	V	L	T	G	A	Q	R				
UniRef90_B9E6L8	E	E	N	Y	D	G	V	V	I	T	H	G	T	D	T	L	E	E	T	A	Y	F	L	L	D	L	T	L	N	V	S	I	P	V	V	L	T	G	A	M	R		
UniRef90_F6BJB9	R	S	D	T	C	G	V	V	I	T	H	G	T	D	T	L	E	E	T	S	A	Y	F	L	L	D	L	T	L	F	A	D	S	K	P	V	V	L	T	G	A	M	R
UniRef90_I0GMS6	S	G	E	V	D	G	L	V	I	T	H	G	T	D	T	L	E	E	T	A	Y	L	L	D	L	L	H	F	A	D	I	P	V	V	V	T	G	A	M	R			
UniRef90_E8SHG4	L	T	H	Y	D	G	V	V	I	T	H	G	T	D	T	L	E	E	T	A	F	L	L	D	L	T	I	S	T	S	K	P	V	V	I	T	G	A	M	R			
UniRef90_R5PVG4	D	P	D	T	A	G	V	V	I	T	H	G	T	D	T	M	E	E	T	A	W	F	T	H	L	T	T	A	K	Q	K	P	V	V	I	F	T	G	A	M	R		
UniRef90_F2JGU4	E	E	D	T	S	G	V	V	I	T	H	G	T	D	S	L	E	E	T	A	Y	F	L	L	D	L	T	I	H	H	E	K	P	V	V	V	V	T	G	A	M	R	
UniRef90_I9KZ92	E	E	G	V	D	G	V	V	I	T	H	G	T	D	T	L	E	E	T	A	Y	F	L	L	D	L	T	L	P	N	E	L	P	V	V	V	T	G	A	M	R		
UniRef90_U5LD58	T	R	E	D	V	H	G	F	V	I	T	H	G	T	D	T	L	D	E	E	T	S	Y	F	L	L	D	L	V	I	Q	A	P	I	P	V	V	I	T	G	A	M	R
UniRef90_W4ARL0	R	E	D	V	H	G	F	V	I	T	H	G	T	D	T	L	D	E	E	T	S	Y	F	L	L	D	L	N	V	L	H	S	D	K	P	V	V	I	T	G	S	M	R
UniRef90_UPI00039BACFF	N	N	E	A	D	A	V	V	I	T	H	G	T	D	T	M	E	E	T	A	F	W	L	S	L	T	V	K	S	K	R	P	V	V	L	V	G	A	M	R			
UniRef90_B8KJY1	S	N	D	H	A	G	V	V	I	T	H	G	T	D	T	L	E	E	T	A	Y	F	L	L	D	L	T	V	Q	S	N	R	P	V	V	L	T	G	A	M	R		
UniRef90_UPI0004685E0E	Q	N	E	I	D	G	V	V	I	T	H	G	T	D	T	L	E	E	T	A	Y	F	L	L	D	L	T	V	P	L	E	L	P	V	V	L	T	G	A	M	R		
UniRef90_F0XE72	E	P	T	V	A	G	V	V	I	T	H	G	T	D	T	M	E	E	T	A	F	F	L	L	D	L	L	R	T	E	K	P	V	V	V	V	T	G	A	M	R		
UniRef90_UPI00031A3F1B	R	P	E	I	S	G	V	V	I	T	H	G	T	D	T	L	E	E	T	A	W	F	L	L	D	L	L	S	S	D	K	P	V	V	L	T	G	A	Q	R			
UniRef90_W4QAJ9	K	D	Q	L	E	G	L	V	I	T	H	G	T	D	T	L	E	E	T	A	Y	F	L	L	D	L	L	L	D	W	D	L	P	V	V	L	T	G	A	M	R		
UniRef90_K9B7S5	S	N	D	Y	D	G	V	V	I	T	H	G	T	D	T	L	E	E	T	A	F	L	L	D	L	T	V	G	I	K	R	P	V	V	I	T	G	A	M	R			
UniRef90_UPI0003B31EDD	L	P	E	A	A	G	A	V	V	T	H	G	T	A	T	L	E	E	T	A	Y	F	L	L	D	L	T	V	K	S	D	K	P	V	V	V	T	G	A	M	R		
UniRef90_F0T727	N	G	A	D	G	V	V	I	A</																																		

UniRef90_C6PQI9
UniRef90_A6TQ93
UniRef90_U2LPX8
UniRef90_W7E5Q4
UniRef90_UPI0002D69492
UniRef90_Q9KCE7
UniRef90_A0A016PEL4
UniRef90_L7EGW8
UniRef90_W0RTK5
UniRef90_UPI0004700853
UniRef90_R5C708
UniRef90_UPI00046AC544
UniRef90_W6WS49
UniRef90_B7RZ08
UniRef90_UPI00047C7777
UniRef90_B0VH11
UniRef90_UPI0004116EBF
UniRef90_A6LLE3
UniRef90_R6A4P7
UniRef90_D4JDX5
UniRef90_UPI0003B75D60
UniRef90_M1E785
UniRef90_R5E1U7
UniRef90_R5PQK2
UniRef90_V9H357
UniRef90_UPI000288BBD0
UniRef90_C9LYU0
UniRef90_V8QWP2
UniRef90_UPI0003B694F7
UniRef90_C7YJK4
UniRef90_D5VWMS1
UniRef90_K6VRW1
UniRef90_A9BQC6
UniRef90_R5EJ43
UniRef90_I4D8F4
UniRef90_UPI000399F153
UniRef90_U6EB94
UniRef90_B9E6L8
UniRef90_F6BJB9
UniRef90_I0GMS6
UniRef90_E8SHG4
UniRef90_R5PVG4
UniRef90_F2JGU4
UniRef90_I9KZ92
UniRef90_U5LD58
UniRef90_W4ARL0
UniRef90_UPI00039BACFF
UniRef90_B8KJY1
UniRef90_UPI0004685E0E
UniRef90_F0XE72
UniRef90_UPI00031A3F1B
UniRef90_W4QAJ9
UniRef90_K9B7S5
UniRef90_UPI0003B31EDD
UniRef90_F0T727
UniRef90_D8IPE0
UniRef90_UPI0002EDC5DF
UniRef90_C7Z2A5
UniRef90_R7IM87
UniRef90_D2BPL6
UniRef90_F9L9Q0
UniRef90_A5E6N2
UniRef90_Q5HP67
UniRef90_D1P027
UniRef90_C4LB83
UniRef90_K2NT33
UniRef90_R5NH88
UniRef90_UPI00046FF722
UniRef90_B5FFI5
UniRef90_A0B7W3
UniRef90_UPI0002E6E49B
UniRef90_R7EZV0
UniRef90_D9PWU0
UniRef90_UPI0003628A62
UniRef90_A0A059KGD9
UniRef90_C4R503
UniRef90_A0A024PZB9
UniRef90_R5Y2S1
UniRef90_Q46GJ6
UniRef90_C5NU98
UniRef90_Q03HC4
UniRef90_UPI00047DD052
UniRef90_D5E6V7
UniRef90_UPI0004712476
UniRef90_G0EEK5
UniRef90_P0CZ17
UniRef90_UPI000479F465
UniRef90_UPI0003624788
UniRef90_C7RBC6
UniRef90_UPI00046A23C5
UniRef90_R6P687
UniRef90_U5SDT0

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

UniRef90_C6PQI9 A S Q V T K T S T Y S L D T F K S M D F G P L I G I V D N N K A N F Y Y S Y D K
UniRef90_A6TQ93 A S E V T K T N S T T L S L D D T F K A P T E F F G G Y L G L V D N D Q V I Y H R N M V
UniRef90_U2LPX8 A F Y T S K M N S T T T L S L D D A F F R A P N E P G G Y L G L F V N S G Q P K F Y Y Q P A A S Q
UniRef90_W7E5Q4 A R S V T S Q K M N T Q N I L D D A F F R A P N E P G G Y L G V V N T E H V H F F F Q P A S S Q
UniRef90_UPI0002D69492 A Y Y T S K T S S S I S L D A T F F K A H D Q Q G F L G T F A G G E P K F Y F E P A K V
UniRef90_Q9KCE7 A K N V T K T H T S N V A Q T F Q S E D Q Q G Y L G I V T K R G V T F H H A P S S Y
UniRef90_A0A016PEL4 A R Y T V K K T H A N A V V A Q T F J A E D Q Q G Y L G A F E N I Q P V F W Y P A S R P
UniRef90_L7EGW8 A A Q V T K T N T H S L D D T F F K S L D F G G P L G F V D N N K P Y F Y F D Y S K S
UniRef90_W0RTK5 A R D A T K L N T S I V R P D A F F A A P N A R G D L G V A D P E R V V F H R E P H R A
UniRef90_UPI0004700853 A R D V T Q K M A S I G V J A D A F S G R D F G G C I G Y M Q D S V P K F L Q Y P V E N
UniRef90_R5C708 A D R I Q K V N C F R T D A F S G R D F G G C I G Y M Q D S V P K F L Q Y P V E N
UniRef90_UPI00046AC544 A Y Y T T K T N A T M M D T F K A T E Q G G Y L G A F V S G K P H F Y Y T P A T
UniRef90_W6WS49 P R W I T K T N T T S V M Q T F L S P N A G P L G F V D P A S I R F V M P L
UniRef90_B7RZ08 A R G M T K T S T T D V V Q T F V S A E R G L M G A T L Y G E N R Y Y R S P Y R T
UniRef90_UPI00047C7777 A I N V T K T H T S N V A T F Q S P Q Y G P I G I V N K A G V E F H H K S I L T
UniRef90_B0VH1 A R D V V K A D T G K I A D A F V S P Q Y G P I G N V D P D K I V Y H R A S L Y R
UniRef90_UPI0004116EBF A K N A T K T H A S N V A T F Q S P Q Y G P I G L I T K R E I F F H H Q P
UniRef90_A6LLE3 A R E V T K T Y T S N V A T F Q S P Q Y G P L G L V D E D N V I F F R
UniRef90_R6A4P7 A F D V T K F H T T N P D T F R D L H Y G P L G T V Y S H E I I Y L G R R P G H
UniRef90_D4JDX5 G R D L Q K T N S Y K T D A F K M G E F G S L G Y M R D D Q V Y L L S E P H K K
UniRef90_UPI0003B75D60 A K N V T K T H S S N I A T F Q S P Q Y G P I G F V D N N E I F I L H H Y P
UniRef90_M1E785 A L Y V Q K T H T S N I A T F S S G E M G M I G Y V D I D K I C F Y N F
UniRef90_R5E1U7 A R D V V K T N T V A V E T F K S P N S G P L G Y I I G D Q I D F L T E S V K P
UniRef90_R5PQK2 A R D V F K S N T Q P E A M N F G K V G W I F N D K V T Y E A A G L R A
UniRef90_V9H357 A A E V T K A N S M A L N A F K T P N F G P I G I V D N N K V L F Y R N
UniRef90_UPI000288BBD0 A K N V T K T H T S N A I A T F Q S P Q Y G P L G I V S K R D I T F H H M P T I R
UniRef90_C9LYU0 T R D V T K K V H T T A V A Q A F V S D V G A L G R M E D G T P H F R R R V L T R
UniRef90_V8QWP2 P V W V T K T D T T N V A T F Q S P Q Y G P M G Y V D A A D L H Y T Q T S A S Q
UniRef90_UPI0003B694F7 A T Y V T K T H T T N L A T F Q T P T F G P L G L V V K D Q V T Y F Q K L V R Q
UniRef90_C7YJK4 A R Y T I K T N A N A L D T F F K A E E Q G G Y L G A F E N I Q P V F W Y P V R P
UniRef90_D5VWS1 P R W I T K T N T A A V Q A F A S P N A G A I G Y V D P A S V R F V T P A V
UniRef90_K6VRW1 A R S V G K V H T T R T N A F A S P H G P L G E V V A E R A C Y F R T P H R V
UniRef90_A9BQC6 A R Y V T K T H T A N V E T F A S G E F G P L G E V Y P D R V N F A S A P A R R
UniRef90_R5EJ43 A G Q V R K T H S A N P D T F A S P W W G P I G Y C D V D R V V F R R A P L D R R
UniRef90_I4D8F4 A R D V R K L H T N H V D A F N S G E K G D L G T I D T G E V I W H R M P E K T
UniRef90_UPI000399F153 A R E V R K T H T S N V E T F N S G D A S P L G Y V D E D R V I F S R K S L R R
UniRef90_U6EB94 G T R V R K M H T S R R D T F N S I N S P P L A K V R E G K V K L I D K Q F L Y
UniRef90_B9E6L8 A M N V T K T H T S N T S T F Q S P N Y G P L G I I T K N N I Y F H H H P L T H
UniRef90_F6BJB9 A S E V K I S T S S L D A F C S P M L G P I G F V D T D K V T F Y R N I
UniRef90_I0GMS6 A Q L V T K M S A T A V E T F Q S P N G G P I G A V N D G E V C F Y Q S A Q L H
UniRef90_E8SHG4 A R N V T K T H T S N T N T F Q S P N H G P L G V I T K A G V Y F H H R P Y
UniRef90_R5PVG4 A R D A M K I S P T N A A A F G S P N V Q G P L G L I A G A E I L W L G R P E R A
UniRef90_F2JGU4 A A E V T K T N T L S L A N A T F Q S P Y G P L G I I D T N L I L Y R D L
UniRef90_I9KZ92 A R Y V T K T H T T N V A T F R T P T F G P I G L V A N K G V V F F E S L L R S
UniRef90_U5LD58 A E N C K T H T S N V A T F Q S P Q Y G P I G L V T K R G V F F H
UniRef90_W4ARL0 G R D V Q K V T N T F K A N S A F D E R D F G C L G Y M R D S H A V F Y T R T L K R
UniRef90_UPI00039BACFF G Q I V S K T N T T S V E T F Q A S T G G P I G Y V F G G K V Y Y N M S Y G L
UniRef90_B8KJY1 A R D V W K T D N R R V H T F G G A N V G H L G A V D P D G V R F Y H R S L Q P
UniRef90_UPI0004685E0E A R Y V T K T H T N V A T F R T P T F G P I G L I L R D K V Q F F E K L R H
UniRef90_F0XE72 A Y Y T T K T N A N A L D T F K A Y E Q G G F L G V F E D I S P V F Y Y P V L P
UniRef90_UPI00031A3F1B A R D V S K T H T A D V E T F K S G D F G V L G V A D E D R I V F A R R P L R R
UniRef90_W4QAJ9 A K N V T K T H S S N I A T F Q S P Q Y G P I G I V T K R G V I F H
UniRef90_K9B7S5 A R N V T K T H T S N I N T F Q S P N H G P L G V V T K S G V L F H H R P Y
UniRef90_UPI0003B31EDD A R D T T K N N T Y R V D T F J A R D V G P L G F A D S D S I V E Y R R P I Y R
UniRef90_F0T727 G T K V R K M H T T R R D T F R S I N S L P L A K I Q K S K L K L V D K A M V Y
UniRef90_D8IPE0 G R D V T K S N T F K V E T F R S P Y G P L G Y V V E N K L S F Y R L P A R P
UniRef90_UPI0002EDC5DF A R N V T K T H T S N T N T F Q S P N H G P L G V I T K Q S V Q F H H R P F D H
UniRef90_C7Z2A5 A R F T A K I N A N R V D A F Q A G D Q G Y L G T F E N S M P N F Y P P V R A
UniRef90_R7IM87 A G Q V R K T H S A N P A T F E S P W W G P I G Y C D E D R V V F R R
UniRef90_D2BPL6 A R Y V T K T H T T N V I N T F Q T P T H G P L G L L T K N K I I Y F H K D S E N
UniRef90_F9L9Q0 A R N V T K T H T S N I N T F Q S P N H G P L G V L T K D R V Q F H H P Y R Q
UniRef90_A5E6N2 G Y Y I T K S N A N S L D T F K S V G Q G Y L G N F V N N Q V R Y Y P P A K
UniRef90_Q5HP67 A R N V T K T H T S N I N T F Q S P N G G P L G V L T K N R V Q F Y H H P Y R Q
UniRef90_D1P027 G R N V M K M S T T E V Q A F D A V N G G A E G F I H D G K V T Y Y Q A A Q P
UniRef90_C4LB83 G N R S T K V H A D G F H A F D S P D F S P L L D V G I H I D W N A G K P A V A
UniRef90_K2NT33 G R D V T K A H T S R V D T F R S N S Y G K L G E V D G E K V F I Y R R P A Q R
UniRef90_R5NH88 G N R T T K I N A E K V N F K S Y N Y P C L G H S A I D I K I K P E R I R R P
UniRef90_UPI00046FF722 A N R T I K C S A E Q F E A F A S Y N Y P A L A N A G I H I N Y Q N M Y I H R V
UniRef90_B5FF15 G N R S T K S H A D G F D A F S S P N L P P L L E A G L N L Q I N G A E I N K Q
UniRef90_A0B7W3 G T R V R K M H T T S R R D A F Q S I N H P P I G R V D Y T T R R I E I F S D Y R
UniRef90_UPI0002E6E49B A K N V T K T H T S N T S T F Q S P N Y G P I G S V T K T H V I F H H Q P F P Y
UniRef90_R7EZV0 G N R S T K H S A D H R F N A F K S N N Y P E L A K I G L G Q F N V D A L W R K
UniRef90_D9PWU0 G V K V R K M H T S R R D T F R S I N A L P L A E V T P G D I K L D A D Y R K
UniRef90_UPI0003628A62 A R D V T K S N A L K V E T F K S L Y G P L G V V V E S K A Y Y R L P A R P
UniRef90_A0A059KGD9 G R D V S K S V N L K T E A F R S P W G P L G M V V E G K T Y W F R A P V K R
UniRef90_C4R503 G F Y I T K S N A N S L D T F K S V I Q G Y L G N I V N N E I H Y F F P A S K
UniRef90_A0A024PZB9 A K N V T K T S T S N V A T F Q S P Q Y G P L G I I T K D A I I F H
UniRef90_R5Y2S1 G N R T T K V N A E N F N A F K S H N Y P N L A D V G V I N Y Y T R I L P P
UniRef90_Q46GJ6 G T K V R K M H T S R R D A F K S I N S R P I G I V D Y N T R K I K T F I D Y I
UniRef90_C5NU98 A T Y V T K T H T T N V A T F Q T P T F G P I G L V S K N N V I Y F Q K L I K
UniRef90_Q03HC4 A R F V T K T H T T N V D T F R T P T F G P L G L V Y K R D I R F Q A L V N Q
UniRef90_UPI00047DD052 A L D V Q K V H T Y Q L D A F S S G D A G P L G Y V E E G A V R L R N W P L
UniRef90_D5E6V7 A T R V R K M H T S R R D A F Q S I N S L P I G F V D Y A T G K I T T E S E Y N
UniRef90_UPI0004712476 G N R T T K A H A D G F D A F A S P N L T P L L E A G I H I R R L H T P A A P Q
UniRef90_G0EEK5 G T K V R K M H T S R R D A F Q S I N A L P L A K I W P Q E G R I E L V K E Y
UniRef90_P0CZ17 G F W T T K M N A N S L D T F R A D E Q G Y L G Y F S N D D V E F Y Y P P V K P
UniRef90_UPI000479F465 A R D V W K T D N R R V D T F R S P E R G P L G A A D P D S V V F F R Q T V Q P
UniRef90_UPI0003624788 A R Y V T K T H T T N V A T F R T P T F G P I G L V A K G S Q P I Y F R R L I R E
UniRef90_C7RBC6 G N R C T K T D A D G F A A F S S P N M P P L A S I G S T I K V R D H L V F K Q
UniRef90_UPI00046A23C5 G N R T S K I S A D Q F N A F E S Y N Y P K L A Y A G I D N I K Y N D S V T R Y
UniRef90_R6P687 A R D V Q K V S T F R T N A F N Q R D L G A L G C V Y D N R V E F N A P I K P
UniRef90_U5SDT0 A R Y V T K T H T S N V A T F R T P T F G P I G L I S K N K V L F F Q K L I

UniRef90_C6PQI9 K Q Y I P A D K V D G N V A L I K C G C G M D D S L L R F C V D S S G S
UniRef90_A6TQ93 S R Q F I E T D E V N D Q V D L I K C V A G M D D R F L K F S V D S S G A
UniRef90_U2LPX8 P L D K R Y F L D V S K L T S L F P R V E I L Y S Y Q Q D M D A I L I D E A A L K S S G A
UniRef90_W7E5Q4 K P T T F M L P S Q A P L F P R V D I L Y S Y Q D M D G G L I L I D E A A V L K S R G A
UniRef90_UPI0002D69492 M G K P T F D V S K L E T L P K V D V I V Y S Y Q D M D G S E I I I D A I L V E S G A
UniRef90_Q9KCE7 K E S Y T S S L D H R V V L L K A Y A G M D G S E L V F Q A A I A D S T G A
UniRef90_A0A016PEL4 H Y F N I S A S S P K K A L P Q V D V L Y G H Q E A D P E L V F Q A A I A D S T G A
UniRef90_L7EGW8 E Y I S V S K I E S G V S L I K A C G M D Y K L I K F C V D S S G T
UniRef90_W0RTK5 P T F W D L A G V S E L P R V E I V Y A Y V G A D G A A V D D A F V A A G A
UniRef90_UPI0004700853 A A Q I F P W L P P A R R W P R V E I L Y S C V D Q D A R A V D D A F V A A G A
UniRef90_R5C708 H T T H T R F T T E A L K R I P R V E I A Y F S A D A D P E I L L E F Y G K T A
UniRef90_UPI00046AC544 P T D K P H F D V T S L D G L P K V D I V Y A H Q D M D P A L F T A A A L D N G A
UniRef90_W6WS49 D S R Q S P Y T L P A A G L P R V D I V Y A H S N M D A S Q I I D A A V D N G A
UniRef90_B7RZ08 H T S D S E F S V E G T K V L P R V D V I Y I S A G V S P D L I D A A V D N G A
UniRef90_UPI00047C7777 R A L H V S K L N K N V F L I K A F A G M D S L L K G I E K L N P
UniRef90_B0VH1 E N V W T E Q L D T R V E L I K A V A G M D G K F I R C C L E N D I
UniRef90_UPI0004116EBF K S L T R E K I L V D K I E E K I A L I K T F T G D D G N L I R A A K I E S G A
UniRef90_A6LLE3 P R L H P S S L S A K V W M V T C W S G M E G D I I R A A G E A Q V
UniRef90_R6A4P7 H T H Q T I F A N L S I D L P K V G T Y Y V H S D C D P Q L L E D M M K R Y
UniRef90_UPI0003B75D60 A S R E H F S P A H M D R K V L L K M A A G M D A A L L S P L L R D S Q P L
UniRef90_M1E785 Q K S K I K F K I P E N F P V V I P I M A F T G M D S N L I E F C V R S G A
UniRef90_R5E1U7 H T L R S C F E T D T A D E Y P R V C A L L C C A D Q N P D L L E A A V D K G F
UniRef90_R5PQK2 Q L K A P R F D V T K L D Q L P K V G I Y N H A G V E G Y Q A E A L V K A G Y
UniRef90_V9H357 T K K H R V Y H V E N M I L D K V A L I K C V A G M G S D Y I N Y F I D N E Y
UniRef90_UPI000288BBD0 E T Y E I K K I T K K V I L L K A Y A G M E G S I I Q A I R T L H P
UniRef90_C9LYU0 K T R E S E F D L A G V T A L P R V P I L Y G H A G A D I R L A R A A I E S S G A
UniRef90_V8QWP2 H P F T L P L E G D A L P Y V E I L Y S H S N M D D Q L I K S A V I S N G T
UniRef90_UPI0003B694F7 E H Y A I F T V E P R V A L L K A Y A G M D D S L F A I V D Q V I G Y
UniRef90_C7YJK4 H S Y F A N L S I S A S E P L P K V D V L Y G Q S E V D P E L F E A A V E G G A
UniRef90_D5VWMS1 Q S A R A A L S L P A N G Q L P R V D I V Y A H S N M D G R Q I I D H A I A D G G A
UniRef90_K6VRW1 D G T A A A V I S A V G Q E L P A V E V V Q G R A G L P Q Q M L Q A V L E S G A
UniRef90_A9BQC6 Q T K A P R F D V T K L D Q L P K V G I Y N H A G V E G Y Q A E A L V K A G Y
UniRef90_R5EJ43 R T Y S P K H L P I Q A Q T M P V E I F P M Y G G A N G Q A V R Q A V A D R G V
UniRef90_I4D8F4 I K L G V P Q E L T A R V D I V T G Q T G I G R D Y I R Q A V A Q G C
UniRef90_UPI000399F153 Q T L P N L A D V A I C K V Y T G M P N N I L R S I T Q E K T
UniRef90_U6EB94 K R G R C E L E V K D A L E K V G F I K S Y P G I A A E L D Y H I D K G Y
UniRef90_B9E6L8 P P Q K I L T D A V I E K V S L L K T V I G M D D K L I K F C V D S S G D
UniRef90_F6BJB9 H L P N A L S V S E K L T S Q P V P I L Y G H S D D D G R L V K L V R E N G A
UniRef90_U10GMS6 E R S Q F L T N I N A S L Q I P L I K A H M G M G C E M L D F Y A E R H V
UniRef90_E8SHG4 F G S E T P F S I P K L A E I P R V D I V Y S H A D D D G V M V R A A C A A G A
UniRef90_R5PVG4 A F R Q H I D T D S V E R R V D L I K T V L D M D D R L V R S A V D L G A
UniRef90_F2JGU2 T V C P I Q S V E R N V F L I K A Y A G M G P E L F D A I A Q P T T
UniRef90_I9KZ92 H S P L T K E S Y Q I S D V S K K V L V K A H A G M D S S L L M A I L Y L Q S M
UniRef90_U5LD58 H T T A T Q F D V S V I Q E L P E V S V A Y F H V D A N P G L L D K L A T I V S
UniRef90_W4ARL0 T A Q R I V F D V S N L T K L P K V G I Y A Y S N I E A D M L D P I L N G G Y
UniRef90_UPI00039BACFF H T T A S E F D V S A S L P T V L V L S D F T G L D A A V V R H F G E L P M
UniRef90_B8KJY1 T S L A I D H V V D H V Y L F E K A Y A G M D P E L L E M A V N E K T
UniRef90_UPI0004685E0E A G R P Y F D I M A N D D G M P Q V D I L Y G Y Q L N A A L I P A A V A T G A
UniRef90_F0XE72 Q Y L P L L G G T L P R V E I L P M F G G A S G D I L R A A V S I L G T
UniRef90_UPI00031A3F1B H T L T N R E S F N S T Q L N K N V P L I K A Y M G I N K D I F D F Y A E Q E V
UniRef90_K9B7S5 P H T I L D H I N S N L N V P L I K A Y M G I N K D I F D F Y A E Q E V
UniRef90_UPI0003B31EDD H T S H S E F D V S K L S L P R V D V L Y A Y Q E S D D A A V K A F V S A G A
UniRef90_F0T727 N K R S T E S L I J E D E I E K V A F I K S Y P G I Q A E L I D Y H I D K G Y
UniRef90_D8IPE0 H T T Q T E F D I D K I S S L P R V D I V Y N Y G N V S R T A Y D A F V A A G A
UniRef90_UPI0002EDC5DF L V L T E P L V K A Y M G M N S D V L F A F S Y S E K Q V
UniRef90_C7Z2A5 N C W R H F D I G G L D K G L P K V N I L C G H P E L E T E L F A E S I R C G A
UniRef90_R7IM87 T P V I G R Q C F A P K A L T A K V D L I P A Q T G L G S E Y I D F A I S R G C
UniRef90_D2BPL6 Q S H L D V A T V H G K V P I V K A F A G M T G E I L D L L N L E Q L
UniRef90_F9L9Q0 S S F K M I N H Q L Y V P L I K S Y M G M G S D L L E F Y A N Q G V
UniRef90_A5E6N2 P S G L T V F D I P A E I E F A E V P I V Y A Y Q G F D T K V L E L V L N I D A
UniRef90_Q5HP67 T T Y Q Y I D V N L R V P I V K A Y M G M D D V L S F Y S Q E Q H V
UniRef90_D1P027 R S D K A A F D V S K L E K L P A V G I V Y N Y A N A S A A P V K A L R E E G V
UniRef90_C4LB83 T D K P L K M H S I Q P Q P I G V V T L Y P G I A V D V I A N I L Q Q P V
UniRef90_K2NT33 F N A K V E R I V P E V E L M K L A M G A S P A F L N F A V E Q G A
UniRef90_R5NH88 D A S R P L K A H Y L F D T N V V V L T L F P G I Q E S I T S V F N I K G L
UniRef90_UPI00046FF722 G Q D G L H S L K V G K T M N P N V V V L R L F P G L P Q E I V R T I L S I P L
UniRef90_B5FF15 P E G E F T V N N I T P Q P I G V V T M Y P G I S A E V I K N T L R Q P V
UniRef90_A0B7W3 K R G E C E L Q L F D R L E P R C A L T I K Y F P G A D P E I F N H L I E L G Y
UniRef90_UPI0002E6E49B K K Y P E I N P N T K T G L I K A H M D I S S D I F N F F V E H Q Y
UniRef90_R7EZV0 K P A G P L R V Q K N M D P S V L S I D L F P G M K P E V L N Y L E P G V
UniRef90_D9PWU0 R G S A E L E L H D R V E R V A L I K S Y P G M S P D I I E H L E R G Y
UniRef90_UPI0003628A62 H T T A S E F D I D Q I T S L P K V D V F Y A H T S M D P G I L L G A I A D R G G
UniRef90_A0A059KGD9 H T T G S E F D I E Q I S A L P A V S I A Y A G A G N A D D T A Y R A F A A K G A
UniRef90_C4R503 P T G I Q Y F E L A P F P K V I V L Y A H Q G F D P Q I V R L C A S Q N V
UniRef90_UPI00047DD052 H T P I A H Y S Y P I D K I D K K V F L L K A Y A G M D L S L L E A I L L A K P
UniRef90_R5Y2S1 R S I K P L K P H F L F D T N I V L L F P G I Q E H I V T E V I L K M G L
UniRef90_Q46GJ6 K R G E R P L K F N P G M E P K C A L V K F T P G S G P E I L D H V I D S G Y
UniRef90_C5NU98 E E H Y N V S T T E K R V Y L L K A Y A G M D G E L I D A V V E L G V
UniRef90_Q03HC4 H V C D I L H L E K G V Y L I K A Y A G M D G E I F E I L N R P G T
UniRef90_UPI00047DD052 I E G R K Q F A I K N I T E W P R V E I V M S Y A G A S G V V E A L L T Q G V
UniRef90_D5E6V7 A R G E T E L I L K D K I E P E C A I V K F T P G A K P E I L G H Y I D A G Y
UniRef90_UPI0004712476 A Q G P F T V H N I T P Q P I G V V T M Y P G I S A E V I K N T L R Q P V
UniRef90_G0EEK5 R E R G R E K L V E N G F D D R V A L I K Y Y P G M K P E I I E F L V E Q G Y
UniRef90_P0CZ17 N G W Q F F D I S N D P S E I P E V I L Y S Y Q G L N P E L I V K A V D L G A
UniRef90_UPI000479F465 H T T S E F D V T R L E T L P A V E I L T D Y A G F D S T V M R A A L E R R P
UniRef90_UPI0003624788 A T C D I D H I V D R H H V Y L L K A Y A G M D A S L V F D A A L N S D Q T
UniRef90_C7RBC6 N K P A L N V Q K F S S P K I A I L T L F P G I S A D L V K G F L S Q P L
UniRef90_UPI00046A23C5 P A N W N K S L E V K P N M D A N V A I L K I F P G I L T R E V L E A L S I P L
UniRef90_R6P687 H T I S T E F N K E D I K R M P D I P V I F G P D M D T N L L E Y A L K N Y
UniRef90_U5SDT0 E E E I Y S I N T V N K K V Y L L K V Y A G M D G T L F D A V N Q P T T

UniRef90_C6PQI9 H G I V I E G M G R G N I P P K M V S G V E Y A L S K N I A V V V L V S R C L K G 250 260 270 280
UniRef90_A6TQ93 K G I I L E A M G R G N I P P T A M L P G V E Y A L S K N I A V V V M L S R R T C P T G G
UniRef90_U2LPX8 K G I I L A G N G N G N T V S A D N M E A A I G K L H K N Q G V P V V M S T R T R T G A G G
UniRef90_W7E5Q4 K G I I L A G V G D G N T S A D A L K A L Q E A R K K G V I I V R S T R T R V G S G G
UniRef90_UPI0002D69492 D G I V V A G S G G N G S V P S A V R E R I S Q R L N E D G Y P V V V L S T R T R T G S G G
UniRef90_Q9KCE7 D G I V I E A F G G Q G N L P P A A V V P S I K R L L H Q A N T I P V V V L V S R T R V S G
UniRef90_A0A016PEL4 E G I V L A G L G A G G W P D E A A D E I K K L N E T N D I P V V V S R R T A W G
UniRef90_L7EGW8 K G I V I E G M G S G N I P P G M L P G I D Y A L N R N I P I I L V S R C I T T G
UniRef90_W0RTK5 K G L V V A G A G R G N T P S A M R Q A L D R A M A N G V V V V D G S R V G S G G
UniRef90_UPI0004700853 Q G I V L A G V G D G N T T D A A A L Q A L A G A A A R G V A V V V R S T R V G S G G
UniRef90_R5C708 E G L V I A G A G S G L F S K P W K E K I A R G I A R E I P V V V R S S T R T G N G G
UniRef90_UPI00046AC544 K G I V I A G S G N G S I P D D T L K P L V K Q A V E D G I P V V V R S T R T G N G G
UniRef90_W6WS49 K G I V L A G V G D G D V S K A A L A A M E K R A A K M G I V V V V R A S R V G T G G
UniRef90_B7RZ08 K G I V T A G V G N G N M T G D A L Q A L E R A R A E G V V V V R S T R V T S G G
UniRef90_UPI00047C7777 D G L V I E A L G R Q G N L P P M M L P G L K S L L D K N V P I V L V S R C F N G G
UniRef90_B0VH11 K A I V I E A L G R G N L P K T L V P D I E E A I A R N V L V I I T S R T Y T G
UniRef90_UPI0004116EBF D G V V I E A L G R Q G N V P P A L M E P V V Q S L I D H R I P V V V L V T R C F S G G
UniRef90_A6LLE3 Q G I V L E A G F G G N V P P N V A D A V E E L V N D G I P V V V T T R V F K G G
UniRef90_R6A4P7 D D G L I V D A L G C G N V P P K C K T A E M M K L G E A G L P M V L T T R V P S G
UniRef90_D4JDX5 D G V V I A G T G S G N Y P S A I K D V I E K N D D C I L V R S S R V I E G G
UniRef90_UPI0003B75D60 D G I I I E A F G G N V P P T I V P L L E D S I A R Q K V P V V L V S R C H S G G
UniRef90_M1E785 R G I V I E A F G R G N V P P E L E D G I L F A R E K K I P V V V I T S R C Y N G G
UniRef90_R5E1U7 H G I V L S C T G N G S V P L V F E P V L Q K A H D V V C V R S S R T G S G G
UniRef90_R5PQK2 K G I V I S A G V G R G N I H K A V W P V L E K A A Q D G L V V V R A S R V P T G G
UniRef90_V9H357 K G I V I E A L G R G N V P P T M V D G I K R A L D K N I P V V V I A S R C F E G G
UniRef90_UPI000288BBD0 D G L V I E A L G R Q G N L P P R M V P D L K E L I D S G V P V V L V S R C F N G G
UniRef90_C9LYU0 A G I V L H A G T G N G S I H E A L L A T A L A D A A A G K G I G V V R A S R T G A N G
UniRef90_V8QWP2 R G I V L A G V G D G N T S A T A L K A L E A A A R K D G V V V V R A S R V Q N G G
UniRef90_UPI0003B694F7 D G L V I E G L G A G N L P S Q T V S A V G R L I A K H V P I V M V S R A F N G G
UniRef90_C7YJK4 K G I V V A G V G A G G W P P T K A K A L E E V V K K T K V P V V V S T R T A W G
UniRef90_D5VWMS1 K G I V V A G E G D G D M S K E A L A A L D R A A A K G I V V V V R S T R L V S G
UniRef90_K6VRW1 A G V V Y V I G H G A G N V P S D V L P R L G A L V D A G V V V M R A S R V C S G G
UniRef90_A9BQC6 K G I V I D A L G M G N M N V A M L D A A K Y A L D G K N V P V V V S T R H N G G
UniRef90_R5EJ43 K G I V L E G F G R G N L P P A I V E P A I K D A T D K G V V V I T T R T P G G
UniRef90_I4D8F4 G A L V I E A F G R G N L P P H L V P E I A E T V E R G I P V V I T S R C L F G G
UniRef90_UPI000399F153 E A I V L E A Y G W G N M N A E M H D A I V D V I A K G V P V V I V A T K V Y N G G
UniRef90_U6EB94 K G I L M E G T G L G H C P D H L I P S L Q R A A D E N I P V V M T S Q C C L Y G G
UniRef90_B9E6L8 D G L V I E A L G Q G N L P P S S L D G I Q Y L I D K N I P I V I V S R C C L F N G G
UniRef90_F6BJB9 K G I V I E G T G R G N V P P T M V E G I K Y A L A N N I P V V I V S R C C L V T G G
UniRef90_I0GMS6 Q G I V Y A G M G N S I P E R A E K E L A A A V Q A G I P V I R S S T S V S G
UniRef90_E8SHG4 D G L V I E A L G Q G N L P P T A M P G V N A C L D K N I P I V L V S R S F N G G
UniRef90_R5PVG4 R A I V L H A G T G N G S I H C C T D E A L A D A A D A G V L I V R A S R V T T G G
UniRef90_F2JGU4 V G I V I E A M G R G N V P L K V L E G I R Y A I S K G V I V I V S R C C Q S G G
UniRef90_I9KZ92 H G V V I E A L G A G N L P P A T L P A V Q K L L D M Q I P V V V L V S R C C F N G G
UniRef90_U5LD58 D G V V I E A L G G G I Y S K P A A A V G V Q S L I E A N I P V V V R S R C C F N G G
UniRef90_W4ARL0 K G I V I A G A G G G I Y S K P W A I D K V G E L K N N I P V V V R C S R I S S G G
UniRef90_UPI00039BACFF K G V I H A G L G N G N I H K N V F P V L E K A R E Q G I L V V R S S R V P S G G
UniRef90_B8KJY1 D G L V V R T F A G G R M S A G M L A G L A S T S E R G I P I V V T S R V P K G G
UniRef90_UPI0004685E0E N G V V I E A L G A G N L P P R V L P A L E K L S A H D I P V V L V S R S F N G G
UniRef90_F0XE72 K G L V F A G S G A G S W T D D G N A A A E K A I E N G T A I V V Y S R R P M D G G
UniRef90_UPI00031A3F1B R G L V I Q A L G F G N V N A A L Y E A I R E A I V Q G N V T V V I S T R V A N G G
UniRef90_W4QAJ9 D G F V I E A F G G N V P P E L V K P I R S L L S N N I P V I L V S R C F S G G
UniRef90_K9B7S5 D G I V I E A L G Q G N L P P S C I E G L D H C R D K G I P I V L V S R S F N G G
UniRef90_UPI0003B31EDD K G L V L N S G G Y S E P L A A L K D K G V V V V Q S D R K G S G G
UniRef90_F0T727 K G M V L E G T G L G H C P E E L I P V S L E R A A D E S I P V V I M T S Q C C L Y G G
UniRef90_D8IPE0 K A I I H D G T G N G S V A E Q I V P V L Q E V R S K G V Q V I R A S R T G S G G
UniRef90_UPI0002EDC5DF D G I I I E A L G Q G N L P P T C L V G L N Q C L S N N I P V I L V S R S F N G G
UniRef90_C7Z2A5 K G V I L A G M G A G C W S K D G G Q A I S K V R E K G D L V I V S Y R T A Y G
UniRef90_R7IM87 N G I V I E G F G R G N I P P A M E E G I D R A V A K G I A V V I A T R A F A G G
UniRef90_D2BPL6 D G L V I E A L G A G N L P P T A S Q S L Q R L L D A K I P V V V L V S R C F N G G
UniRef90_F9L9Q0 D G I V V E A L G Q G N L P P T C L H G L K Q R L L D N D I P I V L V S R S F N G G
UniRef90_A5E6N2 K G L V I A T M G A G S F P S K C N K F L A D T V S A D F P I V V Y S K R S M D G G
UniRef90_Q5HP67 D G I V I E A L G Q G N L P K S C L N G L A Q Q C L K K N I P L V L V S R S F N G G
UniRef90_D1P027 Q G I V I S A V G N G N M Y K T I F D S L A N A A K D D I V V V R S S R V P T G G
UniRef90_C4LB83 K A L I L L T Y G V G N A N P A M L R L L R E A S A R G V I V N L S Q C L R G G
UniRef90_K2NT33 R A I V I E A F G R G N A P N G F A E A I A P L A V E R G I P V I I A S R C C H E G G
UniRef90_R5NH88 K A V V M K T F G S G N A P W F I K E L A E R N I I I N I T Q C C Q S G G
UniRef90_UPI00046FF722 R G V I L E T Y G S G N A T T W F L D L L A E A V Q K G I I I V N V T Q C C L S G G
UniRef90_B5FF15 N A M I L L T F G V G N A N P E L L A Q L K E A S E R G V V V N L T Q C C L R G G
UniRef90_A0B7W3 R G I V I E G T G L G H V A T E D W I P F I K K A T D N G I P V V V A S Q C C L S G G
UniRef90_UPI0002E6E49B N G L V V E A L G Q G N L P P T A L D G L H K L M D A H I P V V V V S R S F N G G
UniRef90_R7EZV0 K G I V L R T Y G A G N I D P W F I N A I K K A S D S G K F I V N V T Q C C S N G G
UniRef90_D9PWU0 K G L V M E G T G L G H C P D D T L P V L R E A H D M G V P V A M T S Q C C L N G G
UniRef90_UPI0003628A62 K A L I Y G G T G N G S V A D Y M E E P L K E V R K K G L I V V R A T R T G S G G
UniRef90_A0A059KGD9 K A I I H A G T G N G S V S N Q V V P A L R E L R A Q G V Q I I V R S A R V T A G G
UniRef90_C4R503 R G V V I E A T M G A G S L S K E T N I E L Y K K A V D A G V V V M T S Q C C L F S G G
UniRef90_A0A024PZB9 D G L V I E A L G Q G N L P K E T I T P L R D L I Q N Q I P V I L V S R C Y Q G G
UniRef90_R5Y2S1 K A V V M K T F G T G N A P E W F V R A V R E A T Q R G L V I N I T Q C C P S G G
UniRef90_Q46GJ6 R G L V L E G T G L G H V S T K W I P K I Q K A T D A K M P V I V T S Q C C L N G G
UniRef90_C5NU98 D G L V I E A L G A G N L P P K T V P A I R N C I E K N I P V V F V S R A F N G G
UniRef90_Q03HC4 K G I V I E G L G A G N L P V E V V E P I Q A L I D N D I T V V M V S R C C L Y N G G
UniRef90_UPI00047DD052 Q G L V V A A T G N G T L P H H A L E A L L K A Q A A G I K V V R A T R C C L N G G
UniRef90_D5E6V7 K G I V I E G T G L G H V S T D W V P E I K R A T Q T N I P I V I A S Q C C L H G G
UniRef90_UPI0004712476 K A L I L R S Y G V G N A N A E F L T E L R Q A S E R G I V V V N L T Q C C L S G G
UniRef90_G0EEK5 R G I V L E G T G L G H V G E W L V D S I K K A V D A G V V V M T S Q C C L F S G G
UniRef90_P0CZ17 K G I V L A G S G A G S W T A T G S I V N E Q L Y E E G I P I V H S R R T A D G G
UniRef90_UPI000479F465 R G I V I E T S F A G G R L S G G G Q A A V R M A G A A G I P V V V A S R V P G N G
UniRef90_UPI0003624788 A G I V I E G L G A G N L P V I T L P A I Q R L L D R A H I P V V L V S R C Y N G G
UniRef90_C7RBC6 D G V V L Q S Y G A G N A N Q A L M D A I R E A C A N G Q V I V N C T Q C C L K G G
UniRef90_UPI00046A23C5 K G V V L E A T F G S G N M D E W F L N A L S N A V K R G V V I I N V T Q C C V T G G
UniRef90_R6P687 K G V V I A G A G N G Y N D N W V D T I A N N T I P I I R C Q C L A N G G
UniRef90_U5SDT0 D G L V I E A L G A G N L P P A T L P A L K R V L A N N I P V V L V S R S F N G G

UniRef90_C6PQI9 K V S A D Y G Y E G I L G D N L P G Q K A R I K L T A A L 310 G F T R D L N K I K
UniRef90_A6TQ93 R V L D T Y G Y E G I L G D N L P G Q K A R I K L T A A L 310 G F T R D L N K I K
UniRef90_U2LPX8 Y V L S T D Y G Y E G I L G D N L P G Q K A R I K L T A A L 310 G F T R D L N K I K
UniRef90_W7E5Q4 F V N N D K Q N F A I G S G V L L N P Q Q K A R R L L L Q L I A L A L 310 G F T R D L N K I K
UniRef90_UPI0002D69492 F V T A K S E H A I G S G V L L N P Q Q K A R R L L L Q L I A L A L 310 G F T R D L N K I K
UniRef90_Q9KCE7 I V Q E T Y A Y E G I F T N G L N G Q Q K A R R I K L Q L V A L A L 310 G F T R D L N K I K
UniRef90_A0A016PEL4 Y V S G E R Y P F E G I G A G N Y L N G S Q K A R I K L Q L V A L A L 310 G F T R D L N K I K
UniRef90_L7EGW8 K V S D S E G Y K G I L G G N L N G Q Q K A R I K L M A A L A L 310 G F T T N D N D A R E Q I V I
UniRef90_W0RTK5 S V P V G E G V S M V G T A G D L N P Q Q H A R V L L L M L A L A L 310 G F T T N D N D A R E Q I V I
UniRef90_UPI0004700853 A V G Q D V E V D F V I A A G E L N P Q Q K A R R L L L T L A L A L 310 G F T T N D N D A R E Q I V I
UniRef90_R5C708 M V H C D E E L G T F V I P G G T L T P V K A R I L L L T L A L A L 310 G F T T N D N D A R E Q I V I
UniRef90_UPI00046AC544 I V S A K E E G I G S G A L L N P Q Q K A R R L L L S L V L A L 310 G F T T N D N D A R E Q I V I
UniRef90_W6WS49 F V N R N V E V D F V I G S G A L L N P Q Q K A R R V L L T Q L L I A L 310 G F T T N D N D A R E Q I V I
UniRef90_B7RZ08 T V T D D D A M G T V I A S S G E L N P A Q S R V L L K L I L E T K T T D D P A K E V L L Q
UniRef90_UPI00047C7777 I A Q D V Y G Y E G I F S A N G L L N P Q Q K A R I K L M L A L A L 310 G F T T N D N D A R E Q I V I
UniRef90_B0VH11 R V L P E Y G Y E G I L A G D M K G V K A R R L K L M A L F E G K Y Q D K D A D I L V
UniRef90_UPI0004116EBF V V Q D I Y S Y Q G I F T N G L N G P K A R I K L M A A L A L 310 G F T T N D N D A R E Q I V I
UniRef90_A6LLE3 R V Y P V Y G Y K G I M S E H P I G Q K A K I K L M V V M G K T T G N I E E E I R R K E
UniRef90_R6A4P7 S V M E E Y S Y D G I L G G R L S A W K A R L L L A I A L A L 310 G F T T N D N D A R E Q I V I
UniRef90_D4JDx5 A V Y F D P E L K T I P A L K F S P Q K A R I L L Q L S L L V T K E P K K I R R D
UniRef90_UPI0003B75D60 V V Q A T Y S Y E G I F T N G L N S Q K A R R L K L L A A L A L 310 G F T T N D N D A R E Q I V I
UniRef90_M1E785 R V L P V Y S Y K G I F S E N G L S T A K S R L L L G L S L A L A L 310 G F T T N D N D A R E Q I V I
UniRef90_R5E1U7 P V T R W Q V N G M I P S S G T L N P Q K A R I L L Q L S L K K G L D L E K E I K E Q
UniRef90_R5PQK2 S A T K D A E Y H W F A A E S M P G Q K A R I V L L Q L S L S T K T A D S W K E I V I
UniRef90_V9H357 R V Y E S Y G Y E G F F A E S M P G Q K A R I K L I V A L S S K K S I D I Q R E
UniRef90_UPI000288BBD0 Y V Q D V Y N Y D G I F S N G L N G Q Q K A R I K L L V T L L E M T N N D H D E I L I Q R E
UniRef90_C9LYU0 A V L F Y A D A D G F I D A D T L P P A K A R I L L L A L A L L A N K I N D P D K V L I K E Q
UniRef90_V8QWP2 A V N D D D Q S G F V V S P G L P A K A R V L T Q L L I A S G V L P K D E I L I D
UniRef90_UPI0003B694F7 V T E D V Y D Y P G I F T Q G L T G V K A R I K L T V L L A S G V L P K D E I L I D
UniRef90_C7YJK4 F V S G Q D Y I F A S N A G L L N P A K A R I Q L Q L A L A K K T D P A K E I L I K E Q
UniRef90_D5VWMS1 F V N R D D D K R G F V A S L D L N P Q Q K A R R L L T Q L L V A N G T D D P V K V Q K Q
UniRef90_K6VRW1 P V T R D D R Y G F V A A G D L T P Q Q G R I S L A V A L A Q S R D D P R Q D V L Q K A
UniRef90_A9BQC6 R V M P S Y G F E G V M A D D L R S A K A R I L L M L A L A S G V T Q K E L L Q A R E
UniRef90_R5EJ43 R P Y Q V Y A Y P G I H G E F S A K T R L K L M V L L A K K E N R E E I K A R E
UniRef90_I4D8F4 R T S P V Y G Y P G W F A S D L S T E K V R I F L S I A L G Q R V S K K I I K A K E
UniRef90_UPI000399F153 R A L P V Y G F G I F A D D L T P D K A R I L T L I A L P K T K D R A A L Q A K
UniRef90_U6EB94 R T N L N V Y S T G I S V G D M L P E T A Y V K L V W A L G Q T S Q Y Q E V L Q K Q
UniRef90_B9E6L8 I A S G N Y Q Y E G I F S N G L N G Q K A R I K L I V A I S N G L N D A L L D D D
UniRef90_F6BJB9 R V L D T Y G Y K G I L G E N L N G L K A R I K L M L S L G Y S N G Y T E E I K R N
UniRef90_I0GMS6 M V V K A E A E G F I A S G L L N P R K A R R L L L Q A A V V C G K G N G T A D L R N
UniRef90_E8SHG4 I V S A V Y A Y E G I F S N G L N G Q K A R I K L L V A L S N D F Q H D Q I L Q D E
UniRef90_R5PVG4 A V T T W Q Y E R G Y V P A G T L T P Q K A R V L A Q L V V A E Y T Q D V T Q A L A R E
UniRef90_F2JGU4 R V L E S Y G Y E G I M G S D M R G Q K A R I K L M L A L A L 310 G F T T N D N D A R E Q I V I
UniRef90_I9KZ92 I A Q D V Y A Y E G I F C G G L N G Q Q K A R I K L L V G V S A G M S T D E L A R R
UniRef90_U5LD58 I A Q D V Y G Y E G I F S N G L N G Q Q K A R I K L L I A L A L 310 G F T T D E M E H I A A
UniRef90_W4ARL0 I T L K D S Y A N S I P C S N S L V P Q K A R I L L S L A L T T Q T T G E Y D E I A A
UniRef90_UPI00039BACFF N T T L D A E Y E F I A S Q S L S P Q K A R I L L M L S L T T T T D W Q Q I I Q K G
UniRef90_B8KJY1 R P P D Y P F S A L V S R G Q Q D N K A R I L L M L A L A L 310 G F T T R T S E P Q K I
UniRef90_UPI0004685E0E F A Q D V Y A Y P G I F C H G L N G Q Q K A R I K L L M L A L G L S A G L D K V A L D E T
UniRef90_F0XE72 Y V A K G G V E Y G F G G G F L S P P K A R I M L Q L A L A N A G Y S T E Q Q M R T Q A
UniRef90_UPI00031A3F1B R V L P S Y G F D G I F A D D L S A Q K A R I L L M L G L Q S T S H D A T S Q I L Q A
UniRef90_W4QAJ9 I V Q D I Y A Y E G I F A N G L N G Q Q K A R I K L M V I L S E Q T S D L S Q I L N T Q A
UniRef90_K9B7S5 I V G A I Y A Y D G I F A N G L N G A K A R I K L L V G L S N D Y T H D Q I L N T Q R K
UniRef90_UPI0003B31EDD R V V K S E K V G V T A D N L P P Q K A R I L L R L A L A L 310 G F T T R T T D P V I E I Q R K
UniRef90_F0T727 L V N M N V Y S T G I S G L D M L P E T A F V K L A W A L G Q T D N I K E I V E K
UniRef90_D8IPE0 V V Q P D K F D W V I T D D Q N A Q K A R I L A E L A L A L 310 G F T T N D N D P K E L Q K K
UniRef90_UPI0002EDC5DF I V G P S A N A Y E G I F S N G L N G Q K A R I K L L I G L S N H L T F E Q I K K K
UniRef90_C7Z2A5 F V D S A N E L Y G V G G G F L N P P K C R I Q L Q L C L A T G L D V D K R K R
UniRef90_R7IM87 R P Y Q S Y A Y P G S V I G G E A S G A K T R L K L M I L L S E A S N R D E L E R P
UniRef90_D2BPL6 I A E P V Y S Y Q G M F A D E V N S G P K A R I K L T I A L N A G A L D L S E L P
UniRef90_F9L9Q0 I V S P V Y A Y E G I F S N G L N S G P K A R I K L L V G L S N Q N M N H Q K L K N
UniRef90_A5E6N2 M V P E G A F Q N A I A G G Y L N P Q K A R I L L Q L C L A N A G Y D L K K I K Q
UniRef90_Q5HP67 I V S P V Y A Y E G I F S N G L N G P K A R I K L L V G L S Q D M T Q N Q L E R E
UniRef90_D1P027 Y T T R N A E Y G F V A S E R L S P Q K A R V L L Q L A L T Q T Q T P K K I L Q E
UniRef90_C4LB83 K V N M G G Y A T G L S G Y D M T T E A A L A K L H F L L S Q D L S S E Q I R T
UniRef90_K2NT33 R T R P I Y G A G V I F S G D L S L K A R I L A S V L L G R G A D I E D F R R R
UniRef90_R5NH88 S V E M E R Y E T G I S G Y D S T P E C A L T K L M F L L G K G L S R E E V A A
UniRef90_UPI00046FF722 M V D M S R Y D T G I S G F D M T T E C A L T K L M F L L G K G L S R E E V A A
UniRef90_B5FF15 K V N M G G Y A T G I S G Y D M T P E A A L A K L H Y I L S K E L P Y E T M R T
UniRef90_A0B7W3 R I C D R V Y A Y E G I E A E D M L P E V A L V K L M W L L A N A S S L D E A R D
UniRef90_UPI0002E6E49B I V D G I Y A Y E G I F S N G L N G Q K A R I K L L V G L S N H L N K E Q L K T E
UniRef90_R7EZV0 S V R Q M E R Y L T G I S G H D L T P E A A V T K M M Y L E G K D T S E P L E K V R E
UniRef90_D9PWU0 R V N M N V Y S T G I P C A D M L P E V A Y V K M C W V L G Q T S E P G R V A R E
UniRef90_UPI0003628A62 Q V V H D D E N D W I V A A D Q T P Q K A R I L T S L A L A L 310 G F T T K T Q D P K E I E K
UniRef90_A0A059KGD9 G E Q P D D Q Y D W V S H D L N P Q K A R I L A M V A L A R G A M D S K A I L Q R D
UniRef90_C4R503 M V P I V Q F D G C M A S G Y L N P Q K A R I L L Q L C L A G A S M D K R Q L A D
UniRef90_A0A024PZB9 I V Q A T Y G Y E V I F A N G L T G P K A R I K L L I A L Q N E Y N L E S L Q R K
UniRef90_R5Y2S1 S V D M K R Y E N G R S G Y D S T P E A A V T K L M F L L G H G L T P D E V R R
UniRef90_Q46GJ6 R I C D R V Y D T G I E G E D T L P E I A L V K L M W V L G Q T D E F N E A V K
UniRef90_C5NU98 V T Q D V Y D Y E G I F T T G L S G Q K A R I K L M I L L E A G I P F D R L R E
UniRef90_Q03HC4 L A E P I Y D Y V G V F C G G L N G Q K A R I K L Q V A V S A G M N S K D I A K
UniRef90_UPI00047DD052 R V L P K P G D T L P D S N G L S P V K A R V D L L H L G Q T S D L S E V L Q K
UniRef90_D5E6V7 R V C D R V Y D T G I E A E D M L P E V A L V K L M C V L G Q T S D L S E V L Q K
UniRef90_UPI0004712476 K V N M G G Y A T G I S G Y D L T V I E A A L T K L H Y L L S A G A R D P Q Q L R D
UniRef90_G0EEK5 R V N M N V Y A S G I P S G D M L P E V A F V K L S W V L S K R A R D P E E A K R
UniRef90_P0CZ17 T V P P D D A E Y A I G S G Y L N P Q K S R I L L Q L C L Y S G Y G M D Q Q I R S Q
UniRef90_UPI000479F465 R I V P H S G L P R L L A R D L P P H K A R V L L M L A L A L 310 G F T T R T T D R A G L L Q Q E
UniRef90_UPI0003624788 V A E D I Y D Y Q G M L C G G L N G Q K A R I K L L V G L S R A G T D Q R G L A E
UniRef90_C7RBC6 S V N M A T Y E T G I S G Y D M T T E A A L A K L Y Y L F S R G L D R Q T I R Q
UniRef90_UPI00046A23C5 Y V D M M R Y E T G I S G Y D T T P E C A L V K L M Y L L G Q G Y S N E K Y K K E
UniRef90_R6P687 I S Y D D R K C N I C G S F P P C S R L L Q L A L S H N N D T S Y I K E
UniRef90_U5SDT0 I A Q D V Y D Y M G I F A T G L S G P K A R I K L Q V V L S Q A T L T R S L E D

UniRef90_C6PQI9 I F E K
UniRef90_A6TQ93 L I E S
UniRef90_U2LPX8 Y F D
UniRef90_W7E5Q4 S F S T
UniRef90_UPI0002D69492 Y F G T
UniRef90_Q9KCE7 I F
UniRef90_A0A016PEL4 I F E
UniRef90_L7EGW8 I F K Q
UniRef90_W0RTK5 M F A E H
UniRef90_UPI0004700853 L F N K Y
UniRef90_R5C708 I F K Q Y
UniRef90_UPI00046AC544 Y F E
UniRef90_W6WS49 A F
UniRef90_B7RZ08 Y F N K Y
UniRef90_UPI00047C7777 I F
UniRef90_B0VH11 F F K Q
UniRef90_UPI0004116EBF C F E R Y
UniRef90_A6LLE3 Y F E
UniRef90_R6A4P7 I F E
UniRef90_D4JDX5 I F S I Y
UniRef90_UPI0003B75D60 C F E
UniRef90_M1E785 I F
UniRef90_R5E1U7 I F K T Y
UniRef90_R5PQK2 Y F D K Y
UniRef90_V9H357 S F
UniRef90_UPI000288BBD0 M F
UniRef90_C9LYU0 M F R E Y
UniRef90_V8QWP2 A F D
UniRef90_UPI0003B694F7 Y F Q
UniRef90_C7YJK4 I F E
UniRef90_D5WMS1 A F
UniRef90_K6VRW1 F V D T H
UniRef90_A9BQC6 V E D
UniRef90_R5EJ43 L L D
UniRef90_I4D8F4 M L L T
UniRef90_UPI000399F153 L F D K
UniRef90_U6EB94 I M E T
UniRef90_B9E6L8 Y F
UniRef90_F6BJB9 M F Q S
UniRef90_I0GMS6 F L R
UniRef90_E8SHG4 Y F N
UniRef90_R5PVG4 A F S K Y
UniRef90_F2JGU4 L F K E
UniRef90_I9KZ92 F V A T
UniRef90_U5LD58 L F Q
UniRef90_W4ARL0 M F N E Y
UniRef90_UPI00039BACFF Y F N
UniRef90_B8KJY1 I F D I Y
UniRef90_UPI0004685E0E F M
UniRef90_F0XE72 V F E
UniRef90_UPI00031A3F1B L F D
UniRef90_W4QAJ9 L F E Q
UniRef90_K9B7S5 Y F D E
UniRef90_UPI0003B31EDD I F D E Y
UniRef90_F0T727 I I H T
UniRef90_D8IPE0 I M W K Y
UniRef90_UPI0002EDC5DF Y F E
UniRef90_C7Z2A5 V F E
UniRef90_R7IM87 I L D
UniRef90_D2BPL6 F L E
UniRef90_F9L9Q0 Y F E E
UniRef90_A5E6N2 V F
UniRef90_Q5HP67 Y F E E
UniRef90_D1P027 M F E Q Y
UniRef90_C4LB83 L M Q Q
UniRef90_K2NT33 E F E K
UniRef90_R5NH88 L M N T
UniRef90_UPI00046FF722 L M Q Q
UniRef90_B5FFI5 M M Q Q
UniRef90_A0B7W3 M I S K
UniRef90_UPI0002E6E49B Y F
UniRef90_R7EZV0 A F E K
UniRef90_D9PWU0 M M
UniRef90_UPI0003628A62 I L Y K Y
UniRef90_A0A059KGD9 V F M E Y
UniRef90_C4R503 I F K T
UniRef90_A0A024PZB9 M F E
UniRef90_R5Y2S1 L M N Q
UniRef90_Q46GJ6 M L R E
UniRef90_C5NU98 L F
UniRef90_Q03HC4 Y M H
UniRef90_UPI00047DD052
UniRef90_D5E6V7 L I Q E
UniRef90_UPI0004712476 L M Q Q
UniRef90_G0EEK5 L M L E
UniRef90_P0CZ17 V F
UniRef90_UPI000479F465 I F D R Y
UniRef90_UPI0003624788 Y L S T
UniRef90_C7RBC6 K M S E
UniRef90_UPI00046A23C5 L M E Q
UniRef90_R6P687 V F S K Y
UniRef90_U5SDT0 Y F

UniRef90_C6C5W8 1 Q R K S I Y V A Y T G G T I 10 G M Q R S E H 20 G Y I P V S G H L Q Q Q L A Q 30 40
UniRef90_HOPWQ9 L P T L A L T A T G G T I A G A A S A T D V A G Y T A G A L G A D A L L A A
UniRef90_X2GVC2 M K K I L V L H T G G T I S M A M S D E G A V M P N K E N P
UniRef90_R8ANY0 Q K K S I Y V A Y T G G T I G M Q R S D E H G Y I P V S G Y M Q K Q L I K E Q
UniRef90_H3NKW5 M K K V L L T N T G G T I A M S E D Q E T G K V S P S Q H N P L L T Q
UniRef90_B6HE41 S L P N V T I L A T G G T I A G T S D D K T A T A G Y E S G A L G I N T L L S K
UniRef90_N6VTP0 K K T V S I L S T G G T V A S K V D Y S T G A V H P S F T A D D L L R A
UniRef90_UPI0003786C18 K K I L V L H T G G T I S M Q A D A S G N V N S S T E N P M N Q
UniRef90_J9BPJ2 P S V L L I Y T G G T I G M I E N P E T G A L E N F D F D H L L K H
UniRef90_F9D6M0 M N K V L L I Y T G G T I G M Q N A V T G A L E P L D F N H L L V E S
UniRef90_K4M7D2 L P K V S I L S T G G T I A S K I D Y R T G A V T A S F S A D D I L R A
UniRef90_A6CR96 M K K I L V L H T G G T I S M M E D A D T G A V K P G E E N P L S A H
UniRef90_G5JXD4 M K K I L V L H T G G T I S M Q A D D N G Q V I P N S Y N P M N Q
UniRef90_G4HHD1 P N V L V I G T G G T I A G Q S T D A T S F Q S Y R A G T L A I E D M V G E K
UniRef90_UPI00029A09CE K Q V L L I Y T G G T I G M A V D P D D T N A L V P F D F E N I S R K
UniRef90_J1F3U7 M K T L L I L H T G G T I A M S Q N E D G G V A P N S A N P L D T F K N P
UniRef90_M7WYU3 L P K T L I L A T G G T I A G S S S A T D S T A Y T A G V V G I G V L V Q A
UniRef90_F3ZUJ0 P S V L L I Y T G G T I G M I E N P D D T G A L E N F D F D H L L T Y
UniRef90_UPI000379F86A R K P R V A L V G T G G T I S S I L G R D S L D V W E Y T S R K A E P E E L L Q R
UniRef90_UPI0002375EC4 M P R I V V L A T G G T I A G S S A N P A S S A H Y Q A A T V P V S Q L V Q A
UniRef90_R6Z187 K I V L L I G T G G T I A G T S A R I G D N L D Y I A A Q G V E E L L A A
UniRef90_Q0W7A3 Q L P T V S I L S T G G T I A S R V D Y R T G A V S S Q F T P D D I M D S
UniRef90_B2A299 M K K V L L S T G G T I A S I K T E K G L T P G R E S R E L L E Y
UniRef90_UPI000365CF36 M K K I L V L H T G G T I S M T A D S S G Q V R P E A V N P M L
UniRef90_F9V7P7 M K K L V L H T G G T I S M A E D A S G R V A P N A V N P M N
UniRef90_D2TZM6 L P N V I V F T T G G T I A S S A Q S A T A M S Q Y T A G K V S L D A L I N A S
UniRef90_F0XAV9 K K I L V L H T G G T I S M Q A D A S G A V V T S S D N P M N H
UniRef90_B5E2J0 K P R V K I L G T G G T I A S K A D S T T Q T A G Y D L G L T I D Q L L S Q
UniRef90_W6MQU40 S I P R L L L L G T G G T I A G T A P E S T Q L N R Y A A G V I G A E A L L T T
UniRef90_A4CY73 M K K L V L H T G G T I A M H S D R S G H I V T N D S N P M A S
UniRef90_UPI000362385F V L I I Y T G G T I A G M I E N P H N G A L E A F D F E Y I E Q H
UniRef90_UPI00047094E9 K L P N V S V M S T G G T I A C R V D Y E T G A V K P A F T A E E L V G A
UniRef90_Q8TV84 S L P N V T I F A T G G T I A G S G S N T A T T G Y S I G S V G V L S L V D A
UniRef90_W9Y7C7 P Q I R V L S T G G T I A S T D G P D G A T P S E D G A D L V G A
UniRef90_F8DDJ5 K K I Y I A Y T G G T I G M Q K S A K G Y V P L J A G F M T N S L A A
UniRef90_H2FX79 S L P L V K I Y G T G G T I A S R G S S A S Q T S G Y S L G L T V E D L I E S
UniRef90_F2QRD0 M K K L L L I Y T G G T I A S A K G E E G L E P E L T S S Q L L D F
UniRef90_UPI0002EEDE33 M K R I L L I H T G G T I S M S E D E H G A V R P D E K N P L L A A G Q K L D
UniRef90_R2S1F9 M K N I L L I A T G G T I A S V E E G K G L V P G L S A E E L L Q Y
UniRef90_UPI0004729843 Q K K S I Y V V Y T G G T I G M R H S P Q G Y I P V S G H L Q A Q L A K
UniRef90_I0DNX6 E K P N I L L I Y T G G T I G M V K D Y E S G V L K A F D F N T L L K S
UniRef90_A4AMP6 P R L V L I G T G G T I A A T A G D A R T L T G Y R V T Q G I E A M L A A
UniRef90_W8X2C0 M K R V L I I Y T G G T I G M A N D P E T N S L I P F N F S M I E E K
UniRef90_W7YD0 M K I M I I N T G G T I A M S N D M T T G S V M P T S E N P L N V L
UniRef90_K1MH50 M K R I L V L H T G G T I A M Q E D S L T K K V A P G A S N P L L S A
UniRef90_R2RZP5 M K E L V L H T G G T I S M Q S D E S G K V F P N Q I N P M N Q
UniRef90_G5JZZ5 M K K I L V L H T G G T I A G V A K S S T D S V Y K A G S L S I D D I V E Q
UniRef90_B0TZ59 M K K I L M L G T G G T I A C K R G D S G L K P L L T S N E L L S Y
UniRef90_UPI000464E802 M K Q I L V L H T G G T I S M Q A D A G Q V A P N A I N P M T
UniRef90_A0A023VLJ1 S L P N I K V L L G T G G T I A S K G L T S H Q T A G Y E V D L T I E D L V N S
UniRef90_M3HP16 M K K V L L L A T G G T I A A R R G R Q G L A P D I N C G D F L D M
UniRef90_X8IMR0 L K N I S I L S T G G T V A S R V D Y N T G A V H P A F T A D D L I R A
UniRef90_C0C1W8 M K N I L A I H T G G T I S M S Q D E K G G V V Q N D E N P I D N N D I L G L
UniRef90_A6UWS4 L P R V R L V A T G G T I M S K V D Y R T G A V Y P S F S L E D L Y A M
UniRef90_G2KTE5 M K R I L L I T T G G T I A S K P T S D G L T P S V I T S E E I L E Y
UniRef90_E1QRJ9 J A V E F T G G T I G M S P T E G A C G V A P G G N F D K L L N Q
UniRef90_R7BF41 R L P V I K V L G T G G T I A A K G S T A F Q T A G Y H V D L A I E D L I S V
UniRef90_E6VZ08 M K H I L L I A T G G T I A S R K T D Q G L T P Q L S P E L L G Y
UniRef90_C4YCF0 V L L I Y T G G T I G M I E N P E T G A L E N F D F E H L Q K H
UniRef90_R5A796 K K K S I Y V A Y T G G T I G M Q K T S N G F A P V A G F L E C G V S D
UniRef90_U2DKA2 P S V L L I Y T G G T I G M I E N P E T G A L E A F N F N Q L Q E N
UniRef90_UPI000469E71F M K K I L L I H T G G T I S M H V N E E S G A V V P K E T N P L I V E
UniRef90_D3RX33 L P T I S I I G T G G T I A S Y V D Y R T G A V H P A L T A E D L I F S
UniRef90_R6YHM2 M K K I L L I H T G G T I A M K E N L L T G G V S P D V I N P L L D A
UniRef90_W4EMC4 K R K R I Y I A Y T G G T I G M M K S A H G Y I P A P G F L E K S L Q G
UniRef90_B5IAQ0 K V L L I Y T G G T I G M G C D P R T G A L E P L D F N H L A K N
UniRef90_R2RRG3 K M K K L L L S T G G T I A S V V S D E G L A P G E G A L E P F N F R H I Q E H
UniRef90_F7HX25 S K S V L L I Y T G G T I G M V E N P E T G A L E P F N F R H I Q E H
UniRef90_H1Q0W3 M K K I L I I T T G G T I A M G Q D E R Q I V Q M M G E N V L L S G
UniRef90_F8DQZ9 M K K I L V L H T G G T I A M H A D E D G D V E V I G E N P L N Q
UniRef90_W2C752 M K H I L L I A T G G T I A S G S E N G L T P Q I S S E I L L S Y
UniRef90_UPI00037FFAB5 K K S I L L I T T G G T I A S L S S S E G L A P G L N G S D L G G Y
UniRef90_A9KTD6 P N I L L I Y T G G T I G M I K D F E T G A L R A F N F D K L L E R
UniRef90_A9DNZ3 E M K K I L L I G T G G T I A S D V I T D S G L A P E L T T E Q L L S H
UniRef90_U2QM01 K P H I L I I Y T G G T I G M I E N P E T G A L E N F D F E Q F R H Y
UniRef90_R7LDU3 L P T I K V I G T G G T I A S K G S S A H Q T A G Y E V D L T I E D L T K S
UniRef90_A3GI76 R K P R I A L A T G G T I A G T A G S A T D T R D Y T A G Q L G P A L L A A
UniRef90_C4ZJ57 K K R I Y I A Y T G G T I G M K K S A Q G Y I P A D G Y L T K T V Q N S A E F
UniRef90_A4C9R8 K K R I Y I A Y T G G T I S M K Q N E I T H A A V P T M S G N D I T K L
UniRef90_UPI000372802 S R K R I Y V A Y T G G T I G M Q H S P Q G Y V P V P G F L T D T V K R
UniRef90_I1DYG7 R V V V L G T G G T I A G K A S S S G D N I G Y T A G Q V D V S D L L G G
UniRef90_E6VB26 K K R I L I I N T G G T I S S V K T D H G Y E P A P G Y V E S A L A Q
UniRef90_UPI00037746A1 L P R V V V L A T G G T I A G S S S A A S S A K Y Q A A T V P V T A L L D A
UniRef90_E7GRB6 M K K I L L F T T G G T I A S K E S N A G L E P E M D A N E L L S Y
UniRef90_F4B2R4 S K A K I L L I Y T G G T I G M I K D Y E T G A L K A F N F D E L L E K
UniRef90_C5F8X9 K H I L V L H T G G T I S M T E N S E G D I M P S Q H N P L L G A
UniRef90_C2NS49 M K K I L L L A T G G T I A S V E G N E G L V P G L S A E E L L H Y

UniRef90_C6C5W8 M P E F H R P V F T L H E Y T P L I D S S D M T P S D W Q S I A A D D I R Q H
UniRef90_HOPWQ9 V P Q L G E V A N I R A E Q L F N L D S S K D M G P A Q W L A I A A Q R I V R Q A L A Q
UniRef90_X2GVC2 S K K L D R T L A S I K E I V E A F N L D S S P H I T P P A K E M L H I A R N D D I Q M E A K T S N
UniRef90_R8ANY0 M P E F H R P A F S I H E Y C P L I D S S S D M T P P A D W Q R I A R N D D I Y A Q
UniRef90_H3NkW5 S S F F N T L A D L E V V D L F N L D S S P H M T S S Q E M L K L A S Q T Y I Q Q D H
UniRef90_B6HE41 V P E I F N V A N I A A V Q A H N V N S G D I S S S L L L N I A T H T E I K K A V C D K
UniRef90_N6VT40 UniRef90_UPI0003786C18 I G F N L E N L D L T V I D F F N L D S S P H I T P Y H M L A L Y H K I R D T N M G D
UniRef90_J9BPJ2 V P E L K R F N Y H I S S Y Q F P N L D S S S D M A P D N W T K M V K I I D E N Y D
UniRef90_F9D6M0 M P E F R I K T E I D V Y Y P P P I D S S S D M A P D K W A K L V R I A R R Y D
UniRef90_K4M7D2 M P E L R T I A D F S G K A I Y N I L S S E N M R A E Y W Q E L A R E I A A R E I E
UniRef90_A6CR96 S S S L E H L A D I T V I R E A F H L P S P Q I I T P E H M L Q L K Q L M E E Y N T
UniRef90_G5JXD4 V G I G L D Q I E I T E S I D F L N L D S S P Q I I T V D H M L L A A Q K I R E E Y T
UniRef90_G4HHD1 L P N K D K V A D V T A L Q F G N S G S S S A Y T M E D L Y D L S L T V D K A L E N
UniRef90_UPI00029A09CE V P E L R R F K D F V N S I S F D P I D S S S E M S P E T W A R L V E I L E E N A
UniRef90_J1F3U7 F I L K L N L I T E D V F N L D S S P H I G P A E M L I L E K R I L Q A A N
UniRef90_M7WYU3 V P Q L N V S N L D G M Q V S N V G S S E S L T D E I A L R L S K L A N K C A A N
UniRef90_F3ZUJ0 V P E L K R F L N F H S F Q F P P I D S S T D M D P S F W V D L V K L I D R A N A
UniRef90_K7PER6 F P E V A E A E I T I T R F R A V G S S T A L G P T E W L A L D A A V H D R A V A
UniRef90_UPI000379F86A V P A L G D V A R I E A E Q V A Q V D S S K D M M F G L W Q T L A A R V G F W A E Q
UniRef90_UPI0002375EC4 V P A L Q T F A T L V A E Q V A Q I L D S S T D M D Q C D V W R A L A L R C A Q H L Q S
UniRef90_R6Z187 I P E A G K F C E V S V R Q L F S L D S S T N V M Q P E H W L R I S Q E I R E E Y S
UniRef90_Q0W7A3 I P E L T E I A N Y K G E V L S M I F S S E D M D A S I W Q N L A R A V H R H I
UniRef90_B2A299 I P S V K Y F A E V I T A K D L P N I D S S S N M Q P E D W L E I A K E I V R N
UniRef90_UPI000365CF36 V P S L E G V E L I N R E P F H L P S P H I T C D H M L Q L Y G L I R E M A F D
UniRef90_F9V7P7 V D M H L D S I H M V A E D I F N L P S S P H I T P K E M L L I K K R I N R A F D
UniRef90_D2TZM6 V P E I R K I A H L N G E V I Y N I G S S Q D M N D Q V W L T L A S R K I N A A D C
UniRef90_F0XAV9 V P E L R D V A N I W G V E L C N I L S S K D M T S A M A L R A S Q A I A A E L A
UniRef90_B5E2J0 V S N P L E G I Q V H A L D F F N L P S S P H I K P K H M L V L Y Q K I A E E A D
UniRef90_W6MQ40 I L P D V T Q T C D C F Y E Q V C N V D S S T E V N D K I L A L L H S R K V V J E S L A
UniRef90_A4CY73 L P Q L N R L A E I Q V E Q I T N V D S S A D L G F N H W R D L V S R L R Q L A E
UniRef90_H5WR18 L P E L A R V A T L R T V Q V F Q I A S S E S F T N E R L I T L A K R V S A L A K
UniRef90_UPI000362385F V E V N F N N I E V I T V Q N V L N I P S S P H I T V E H M L L F S H I R K E A
UniRef90_UPI00047094E9 V P E I K R F N F I N T L S F D P V M S S D M G P D S W V K I A E E V I D A L S
UniRef90_Q8TV84 V P E L L D V I N I D A R A V L D L L S S E N M E P K H W M K I A E E V V D A L S
UniRef90_W9Y7C7 V P E V L I S N I A G V I I S N V L G S S E D V T S E L L L N L S K Y A N K V C G A
UniRef90_F8DDJ5 V P E L E D N A T V D V E S V C D E L S F H L S F A D V A S M A R A V E R A
UniRef90_H2FX79 T P E L H R P A Y H I S E Y D P L I D S S D M T P A D W Q R I A D D I R A H Y D
UniRef90_F2QRD0 V P T L Q D V A N L E Y L Q V S N V D S S S I N D T L L L D L A H N I Q A R D L D
UniRef90_UPI0002EEDE33 L P P Q S D I S I D C I L D M K I D S S S N M Q P E E W Q V I A R E I A R H V D
UniRef90_R2S1F9 L P P K D V E L V V E D F S N L P S S P H I T V E V M F D L K E R I K K A K
UniRef90_UPI0004729843 F P E H T S L D V N V T C F E L M N R D S S T N I Q P E H W Q M A E K I A Q H Y E N
UniRef90_I0DNX6 M P E F H R P E M P T E F H Q P L I D S S S I T P E D W Q I A A D D I S E
UniRef90_A4AMP6 I P E L N Q D C N I T E S V S F E P L D S S S N M N P K H W T D I A E L I E V N
UniRef90_W8X2C0 I P G A A E V A D I R C E G F N V D S S R E L T T A R V L R I A R A V I E E R H A R N
UniRef90_W7Y7D0 V P E L K R F D F V D S T S F N P I D S S D M N P E I W L K I G T I I E E R H A R N
UniRef90_K1MH50 P H Q L D E F A E L E T V D F D N I P S S P H M T P A H M L E L A Q Y I E K H H Q
UniRef90_R2RZP5 P I T V P M D V I L V E D I F N L P S S P H I T P Q E M L Q L K E R I Q E L A K
UniRef90_G5JZZ5 V G L D L T H I R L S V V D F L N L P S S P H I T P Y H L A L Y H K I Q E E I D
UniRef90_B0TZ59 V P A I S R I A N I K S E Q F Y N I D S S V D M T M A M R I R L A E H I Q K L I D
UniRef90_UPI000464E802 V P D A K E F C Q A D S L Q I L N I D S S T N M Q P K H W L I S H K A I E S H
UniRef90_A0A023VLJ1 L G I N L D N I Q L H V I D F L N L P S P H I T P H H M L K L Y R Q I K E S D
UniRef90_M3HP16 I P D L S T T C N L E Y E Q V L N L D S K E F D T E A L L K L Y R Q I N D
UniRef90_X8IMR0 I P E M K K N F L I T E S R D I L N L D S S S N I Q P E E W Q Y I A G I V T Q A L S
UniRef90_C0C1W8 V P E L L D I A N I N G K V V L N I L S S E N M T P T Y W K M I A E E I I E K E V S
UniRef90_A6UWS4 S D I N V I N D E L M N L P S S P H M T P E T M L Q V T N R L K Q A I A
UniRef90_G2KTE5 Y P E V K G I A D I E L N L M A I F S E D M T P R R W A E I A E A A Y K A F L
UniRef90_E1QRJ9 I P E V T E I C S I E T Y G L F N L D S S T N I C Y Q H W I A I V K C L K E H
UniRef90_R7BF41 L A P Q R G G V T L R F V E W S D K P S P H M T P A D M F R L A R E V E E T L A D
UniRef90_E6VZ08 I P D L S H T C E L R P F E Q V F N L D S S K E F T A K Q L L E L H A K V I E E A R Y D
UniRef90_C4YCF0 V P D A A S L C S I D T I Q P L N L D S S T N I R P E H W L L A K L I E E R Y D
UniRef90_R5A796 V P E L L K F K F I D T Y Q F P P M D S S D M E P D M W Q K I V R L I Y A N Y D
UniRef90_U2DKA2 V P E L L K F K F I D T Y Q F P P M D S S D M E P D M W Q K I V R L I Y A N Y D
UniRef90_UPI000469E71F M P E F F H P I T F V I Q E Y C P L I D S S S N M A P S H W Q M I A D D I Q A N Y D
UniRef90_D3RX33 I P E L A E I C K I D A T L L Y N I L S S E N M K P E N W I E L A R E V Y K S L K
UniRef90_R6YHM2 V P E L K R F Y C R I S V Y Q F S P I D S S D M E P A L W S K L V K I I Q Y N
UniRef90_W4EMC4 S K K L R Y A D I E L D A S F N I P S S P H M T P I E M L K L V K N I L E A I S
UniRef90_B5IAQ0 V P E I E E E C N V R A E V L F N I L S S E D M K P E Y W I K L A K H V K K E L D
UniRef90_R2RRG3 E T V P T N V D L V M E D I F N L P S S P H I M T P K H M L L K N R I L E A Y D
UniRef90_F7RX25 M P E F Y R P E M P E C E Y S P L M D S S D M T P A D W Q R I A D D I Q R N
UniRef90_H1Q0W3 V P E F E Q Q P D I D T F Q F P A I D S S S D I T P A R W G E I V K L I T K R
UniRef90_F8DQZ9 L G R L E Y D L T V R D I L L E L D S S S N I G P P E E W K I A E T I Y D H
UniRef90_W2C752 I P E L K R H K T A S I S F D P P M D S S S D I G P P D S W A K I V R L I A D N
UniRef90_UPI00037FFAB5 K S L L D P Y A E T T F Y E F A N L P S S V H L T V G D Y L K L R E L I L K K
UniRef90_UPI0002195A1C A Q F D L P A V D L D E N I F N L P S S E H I T P Q H M L Q L Y N R L K D A
UniRef90_R6BGX0 V P A A R E F C T I D A V Q I L N L D S S T N L Q P P E H W L L M A R T V K D N Y D
UniRef90_A9KTD6 L A G I S E N Y L I T I K D I L N L D S S N I Q P E E W M F I A K S I Y D N H N
UniRef90_A9DNZ3 I P E L S H D C E I E T V A F D P I D S S D M N P N Y W I K M A T I E E N Y E
UniRef90_U2QM01 I P G I S D I C G V D C L Q L L N I D S S T N M T P A H W L E I A A C I R D H
UniRef90_R7LDU3 V P E M R R F N Y I D A L A F P P I D S S D M E P R Y W V K I A H I A D H Y E
UniRef90_A3GI76 I P D I S T T C L L E Y E Q L L N I D S S K E F G T K E L I Q L Y S K I M S E L P
UniRef90_C4ZJ57 V P Q L A E L A R I D A T Q I L F S V D S S K D M T P Q H W L V L S R R V Q R L M D
UniRef90_A4C9R8 N R E E M P H F D I H E Y A P L I D S S D M S P A H W Q L I A N D I K D K
UniRef90_A0A037Z802 T P G I E K V A N L D F V N F G M L D S S P H M T P K K M F E L S Q I N N K V T
UniRef90_I1DYG7 M P E F Y R A E M P D F H E Y H P V I G S S D M T P E H W R H I A E D I Q Q
UniRef90_E6VB26 I D A P E G V T L L A E Q V A Q V D S S K D M A I D I W Q K L A Q R C M H W L A
UniRef90_UPI00037746A1 I P A L K H P I Y T I K E Y Q P L L D S S S N M T V N E W N R I A Y D I A K E Y D
UniRef90_A0A022FUD6 V P A L G D V A R V E A E Q V A Q V D S S K D M S F A L W T R L V E R V A F W S A
UniRef90_E7GRB6 M G D L A N R Y D I T C R E L L S L D S S S N I Q A E E W R K I A R N I F E N L E
UniRef90_F4B2R4 I P E L R L D C E I S T A S F D T I D S S S N M N P T Y W N E L C D F I K E G
UniRef90_C5F8X9 D S F V R A D V E L T T E E I F N L P S S P H M T P E R M L E L V K R I R Q A E
UniRef90_C2NS49 F P K S S L N L E I D C K I L M N I D S T N M Q P E H W L E I A N A V F S H Y D

UniRef90_C6C5W8
UniRef90_HOPWQ9
UniRef90_X2GVC2
UniRef90_R8ANY0
UniRef90_H3NkW5
UniRef90_B6HE41
UniRef90_N6VTP0
UniRef90_UPI0003786C18
UniRef90_J9BPJ2
UniRef90_F9D6M0
UniRef90_K4M7D2
UniRef90_A6CR96
UniRef90_G5JXD4
UniRef90_G4HHD1
UniRef90_UPI00029A09CE
UniRef90_J1F3U7
UniRef90_M7WYU3
UniRef90_F3ZUJ0
UniRef90_K7PER6
UniRef90_UPI000379F86A
UniRef90_UPI0002375EC4
UniRef90_R6Z187
UniRef90_Q0W7A3
UniRef90_B2A299
UniRef90_UPI000365CF36
UniRef90_F9V7P7
UniRef90_D2TZM6
UniRef90_F0XAV9
UniRef90_B5E2J0
UniRef90_W6MQ40
UniRef90_A4CY73
UniRef90_H5WR18
UniRef90_UPI000362385F
UniRef90_UPI00047094E9
UniRef90_Q8TV84
UniRef90_W9Y7C7
UniRef90_F8DDJ5
UniRef90_H2FX79
UniRef90_F2QRD0
UniRef90_UPI0002EEDE33
UniRef90_R2S1F9
UniRef90_UPI0004729843
UniRef90_I0DNX6
UniRef90_A4AMP6
UniRef90_W8X2C0
UniRef90_W7Y7D0
UniRef90_K1MH50
UniRef90_R2RZP5
UniRef90_G5JZZ5
UniRef90_B0TZ59
UniRef90_UPI000464E802
UniRef90_A0A023VLJ1
UniRef90_M3HP16
UniRef90_X8IMR0
UniRef90_C0C1W8
UniRef90_A6UWS4
UniRef90_G2KTE5
UniRef90_E1QRJ9
UniRef90_R7BF41
UniRef90_E6VZ08
UniRef90_C4YCF0
UniRef90_R5A796
UniRef90_U2DKA2
UniRef90_UPI000469E71F
UniRef90_D3RX33
UniRef90_R6YHM2
UniRef90_W4EMC4
UniRef90_B5IAQ0
UniRef90_R2RRG3
UniRef90_F7RX25
UniRef90_H1Q0W3
UniRef90_F8DQZ9
UniRef90_W2C752
UniRef90_UPI00037FFAB5
UniRef90_UPI0002195A1C
UniRef90_R6BGX0
UniRef90_A9KTD6
UniRef90_A9DNZ3
UniRef90_U2QM01
UniRef90_R7LDU3
UniRef90_A3GI76
UniRef90_C4ZJ57
UniRef90_A4C9R8
UniRef90_A0A037Z802
UniRef90_I1DYG7
UniRef90_E6VB26
UniRef90_UPI00037746A1
UniRef90_A0A022FUD6
UniRef90_E7GRB6
UniRef90_F4B2R4
UniRef90_C5F8X9
UniRef90_C2NS49

130 140 150 160
P L A E L R S D G G Q T N L L N A L V Y V A A A H G E E S V N E V S L F F N N K L L R
P A T A L R S A D G G P M N L L Y E A V R V V A A I D A E E A K D K G V L V V S F G N G D D I H A
S S N E L G A S D G G Q T N L L Y E A V R V V A A I D A E E A K D K G V L V V S F G N G D D I H A
P L A E L R S D G G Q T N L L Y E A V R V V A A I D A E E A K D K G V L V V S F G N G D D I H A
S S N E L G A S D G G P M N L L V I Q S V T A A A D N D S R D R G G A L V V M N N E E R L H T
S S A D R P S S D A Y L N L L S Q S V I A A K E N K G V F V V M H E T S D D D K H V S
S S N E L G S D G G V Y N Y L S A L R V A S H D K A A D K G V L V V M N D E I H A
P I G T L R T D G K E N L I T S I E I L A A A K H P D G P E V C I F F E S G R L L M R
P M G Q L R T D G K E N L I T S I E I L A A A K H P D G P E V C I F F E S G R L L M R
S A D R P S S D N A M N A I C A A L V A V S D I A E V T V V M H S E E S D I H R
S S N E L G A S D G G L Y N L L S A L K V A S N E K S V D K G V L V V L N D E I H A
S S N E L G A S D G G L Y N L L S A L R V A G H E K A A E K G V L V V M N D E I H A
P W T V I G S D A Q A N L Y N A I K L A G S G R T A S F G G T V L M L N D T I H L
P L G A I R T D G K E N L I T S I E I L A K N N Q A L V P E V C I Y F Q D K I F R
S A N E I G S D G G L H N F Q T A I Q T A A S N D E A K N K G V L V V M N D E I H T
P S T A I S A D G G P N N L L Q A I V T T A V S P N S R A R R G T L I V L N D R I C A
UniRef90_J1F3U7
P I G K L R T D G K E N L I T S I E I L A A A Q Y P N G P E V C I V F E F E H L M R
P A T G L S S D A A M N L L L N A V R V A G A P A A R G L G V L V L N D E I H L Q A
UniRef90_UPI000379F86A
P S T S L S A D G G P L N M L D A V R V A A C R E A V G K G V L V V L N Q Q I H A
UniRef90_UPI0002375EC4
P A N A L L T P D G Q N L L D A V A V Q A P P G A S G V L A V A A G G K A L H G
P I S V P I T D A R K N L L M D S L R F A V S R D G V R G V Y L V F D G K A I L
UniRef90_Q0W7A3
S S D R P S S D N A M N A I C A A A V A V S D I A G V T V V M H G S T S D D H R
UniRef90_B2A299
S I E E P L G S D A N R N L I D A V R F A C E D I S G V E V A F C G K I I N
UniRef90_UPI000365CF36
S S N E L G S D G G V Y N F L S A L R V A S H D K S A D K G V L V V M N D E I H A
UniRef90_F9V7P7
S S N E L G T D G G I Y N F L S A L R V A S A D D A S H D R G V L V V M N D E I H S
UniRef90_D2TZM6
P A T A L G A D G P L N L Y N A V I V A T D K E A A G N R G T L A M D D K V I S
UniRef90_F0XAV9
P A S A L S A D G P M N I F Q A V S V A A C D T A A R G R G T M I V T N D R I G S
UniRef90_B5E2J0
S S N E L G S D G G V Y N Y L S A L R V A S D D R A A A D K G V L V V M N D E I H A
UniRef90_W6MQ40
P A S A L S A D G P M N L Y Q A I L V A A S K S S R D R G V L V S F N D Q I S S
UniRef90_A4CY73
P A S A L S A D G P L N L Y Q A I V Q V A C S A D S R G R G V M V M D G Q I H S
UniRef90_H5WR18
P G T A M S A D G T L N L Y D A V V A A G D P A S R G K G V L V V M D D I L S
UniRef90_UPI000362385F
S S N A L G S D G G L Y N Y L C A L R E I A A H P K A D K G V L V V M N E E I H A
UniRef90_UPI00047094E9
P I G Q L R T D G K E N L I T A I E I L A A A K D A D G N E V C I V L F D S L L R
S S D R P S S D A A S N L I A A C A F A G D G E V G E V T V C M H E V C L V H R
UniRef90_Q8TV84
P S T A I S A D G P Y A N L L E A V T V A A S N K S T N R G A L V V L N D R I A S
UniRef90_W9Y7C7
P A D H P G A D G P A N L L Q A V R V A A D D R F E D G V Y I A F G N L V H A
UniRef90_F8DDJ5
P L V E L R S D G R N N L L N A L V Y I A A E Y P I H E V G L F F N N R L F R
UniRef90_H2FX79
P A T A T S A D G P M N L L Y Q A I V S V A G S E L S K G R G S L V V F N D R I G S
UniRef90_F2QRD0
P L S H P L T D G Y D N L R C A I A M A A S D S C G G V F V A F N R K I L
UniRef90_UPI0002EEDE33
S I S N E L G S D G G L Y N F Q S A I R V A A C K D A I G Q G V L V V M N D E I H S
UniRef90_R2S1F9
P I S F K K T D G K K N L I T D A L R F A Y E N I G E V V F V F N D G R K V I R
UniRef90_UPI0004729843
P L E A L R S D G G Q T N L L N A L Y L A A N Y P I N E G V G L F F N D R I L
UniRef90_I0DNX6
P I G D L R T D A K E N L I T S I Q I L A A L R K S V I Q E V G L Y F E Y K L Y R
UniRef90_A4AMP6
P A S A L S A D G P L N L V N A L L A A A D P A S R G R G V L V A M N D R I V A
UniRef90_W8X2C0
P L S T I R T D G K E N L I T A L D I A S T Y H A M V P E V C I F F Q D K I F R
UniRef90_W7Y7D0
S S N E I G A D G L A N L R S S I T V A A S P E A S R N K G V T V V M N D E I H S
UniRef90_K1MH50
S S N E L G S D G G L Y N F E S A I R V A A C P E A A D K G V L V V M N D E I H S
UniRef90_R2RZP5
S A N E I G S D G I Y N F L T A L R V A S H D K A K G V L V V M N D E I H A
UniRef90_G5JZZ5
A F T A L S S D A L M N L Y D A L L V A V D K Q S L D K G V L V V M N E E L T
UniRef90_B0TZ59
P I D M E N T D A R T N L F D S A L R F A S D D R A H G V T I V F D G K A I A
UniRef90_UPI000464E802
S A N E I G S D G I Y N Y L T A L R V A S H D K S K G V L V V M N D E I H A
UniRef90_A0A023VLJ1
P S T A I S S D G P M N L L Y Q A I I I A S N Q M S K N R G V L I T L N D S I G S
UniRef90_M3HP16
P A T A L S A D G P M N L L Q A I V T V A A D P E A K G R G V M V V L N D R I G A
UniRef90_X8IMR0
P I E Q M F T D A R R N L Q E T A F A A V P E A G I P K V M V A F D D K I I N
UniRef90_C0C1W8
S S D R P S S D A A L N L I S A T M C A T E Q I K G V F V V M H G E S G H L H R
UniRef90_A6UWS4
S S N E I G A D G F E N F K S A I Q V A A S D E A K N K G V L V V F N T G I Y A
UniRef90_G2KTE5
S S D R P S S D A V F N M L A I V L V A R A P F A G S Y V V M H A S T N D V H R
UniRef90_E1QRJ9
P L A A V D S D A R S N L L N A I V F A C D S R A H G V H L L F D N K V I L
UniRef90_R7BF41
Y S E S G Y D G P R N L Y A V R A C L L P L P P G T G A C A V L M T D R I F A
UniRef90_E6VZ08
P S T S V S A D G P L N L Y Q A C V V A A N P Q S R H R G V L V T L N D K I G S
UniRef90_C4YCF0
S I D E D T T D A K T N L L D S L R Y A C S G E S G V C I V F G S H V I A
UniRef90_R5A796
P I G V L R T D G K E N L I M T S I E I L A A A C N G E G P E V C I F F E N H L M R
UniRef90_U2DKA2
P I S Q L R S D G Q T N L L N A L Y I E I L A A N Y P V A E V C I F F E N K L M R
UniRef90_UPI000469E71F
S S D R P S S D A A M N M I C A A H A A L S D L G E V V V V M H G T T S D D H R
UniRef90_D3RX33
P I G V L R T D G K E N L I T S I E I L A A A R H P D G P E V C I F F E N H L L R
UniRef90_R6YHM2
S S N E L G A D G G V Y N L V E A M R V A V S E D A K N K G V L V V M N D E I H A
UniRef90_W4EMC4
S S D R P S S D A Y M N L L S A V K V A K S D L G E V A V V M H D D Y C H I H R
UniRef90_B5IAQ0
S S N E L G S D G G L Y N F E S A I R V A S C D E A V D K G V L V V M N D E I H S
UniRef90_R2RRG3
P L A A L R S D G G Q T N L L N A L Y V A A H Y P I H E V S L F F N N R L F R
UniRef90_F7RX25
P I G Q L R T D G K E N L I M T S I E I L A A A Y H S D G P E V C I V Y F N G H L L R
UniRef90_H1Q0W3
P M N V I L S D A P D N L R L A F E A A A N C E P P G V Y I A F F N R K V M R
UniRef90_F8DQZ9
P I N M L R T D G K E N L I T A F E I L A A A K K P V V P E V C I F F E N Q L M R
UniRef90_W2C752
S S N E L A S D G G L L N L Q Q S V Q T A V S E E S R D K G V L V V L N G E I H G
UniRef90_UPI00037FFAB5
S S N E L G S D G G L Y N F Q S A I R V A I D S E A A N R G V M V V L N D E I H A
UniRef90_UPI0002195A1C
P I S M E I T D A K T N L L D S L R F A I Y P D A H G V T I V F N G K I I A
UniRef90_R6BGX0
P L T H P L T D A I D N L R Y A L A M A A T G I P G I Y L A F H R K V I L
UniRef90_A9KTD6
P I G D L R T D A K E N L I T S I Q I L A D S G N P Q I T E V G L Y F E Y K L Y R
UniRef90_A9DNZ3
P I G F D S T D S K T N L A D A F R C A E P D L P G V S I V F N S R V I L
UniRef90_U2QM01
P I G Q L R T D G K E N L I T S I E I L A A A T D P R V P E V C I F F E S R L M R
UniRef90_R7LDU3
P S T A I S S D G P M N L L Y Q A C V I A A S R E S R G R G V M V A L N D R I G S
UniRef90_A3GI76
P A T A L S A D G P L N L Y Q A V E L A C R P A A A R S G V L A V V G D R I L P
UniRef90_C4ZJ57
P L S Q L R S D G G Q V N L L N A M F L A A N Y P I A E V S L F F N N Q L F R
UniRef90_A4C9R8
N S S E F G W D P R N L I D A V N T A A A N D E S Y D R E V M V V M N N Q I H A
UniRef90_A0A037Z802
P L A Q L R S D G G Q V N L L N A L Y L A A A N Y P I A E V A L F F N N Q L F R
UniRef90_I1DYG7
P A T A L S P D G P Q N V R D A I A V A T A G A Q G V T A V C A G T V H S
UniRef90_E6VB26
P L S E V R N D A I D N V I T S L W L C A H Q P I N E V C I Y F N Q H L L R
UniRef90_UPI00037746A1
P S T S L S A D G P L N L L D A V R V A A S A G A A G K G V L V L N Q E I H A
UniRef90_A0A022FUD6
P I D N M L I T D A R N N L Y A A F A A I D A G I A G V S V A F N R R I M L
UniRef90_E7GRB6
P I G D L R T D A K E N L I T A V Q V A K R N K P L I T E V C I V F E Y K L Y R
UniRef90_F4B2R4
S S N E I G S D G G L E N L Q S A I Q T A A S D D S R N K G T L V V M N D E I H T
UniRef90_C5F8X9
P I S F K K T D A K K N V A D A L R F S C E D I G G V F I V F D G R V I

UniRef90_C6C5W8 G N R T T K A H A D Q R G F D A F A S P N F P P L L E A G H R R T P P A Q T I
UniRef90_HOPWQ9 A L G L S K H H T D Q R S V N D A F A S N D T N T G P I G R S H P V R Y F A P V P T
UniRef90_X2GVC2 A G V N T T K T S T A D S S G F V N D A F A S Q S P N Q Y G P I G L E I T K T R I L F H H A P I R R
UniRef90_R8ANY0 A G N R T T K T S T A D S G F D A F A S P N Q F P L L T E V G N I R Q I T K S T L I R V
UniRef90_H3NKW5 A T Y V T K T H T T N V A T F Q T P T F G P V G L V A K S Q V I Y F H Q L M R
UniRef90_B6HE41 A L F A T K T H A N T M D A F L S K A Y E Q Q G N L G F I V S N K P Y F Y P A V I Q A
UniRef90_N6YTP0 G V K V R K C H S S R R D A F L S I N S L P V A K I D P F S K N I Y L Q E V E
UniRef90_UPI0003786C18 A K Y V T K T H T T N V A T F N T P T H G P L G I V M K H E I L F F K T
UniRef90_J9BPJ2 G N R T T K I N A E N F A F R S D S F N Y P P L A K V G T H D I K Y E P G L I R K P
UniRef90_F9D6M0 G N R S T T K I N A D E G F H A F R S D S F N Y P H L C D A G V D F V F H D H L L K P
UniRef90_K4M7D2 G T K V R K M H T S R R D A F R S I N G K P I G Y V D Y K A M Q L T T S G E H A
UniRef90_A6CR96 A K N V T K T H T S N V L A T F Q T P T Y G P L G I V T K R G V I F H H K P T T V
UniRef90_G5JXD4 A K Y V T K T H T S N V L A T F Q T P T H G P L G L I M K R D I L F F Q
UniRef90_G4HHD1 A R G V T K T N D Y R T D T F E T P M L G A V G Y I D E E N I R I Y R A P L R D
UniRef90_UPI00029A09CE G N R T T K Y T N A E H F R A T F R S D N Y P P L A E V G L H I K Y N Y P Y I R
UniRef90_J1F3U7 A R Y V T K T H T T N V A T F R T P T F G P I G L V T K N R V L F Y E Q L L R N
UniRef90_M7WYU3 A Y Y C E K T Q A N T L N T F A S P E P G Y I G G L L S D K P F Y Y M G A S K
UniRef90_F3ZUJ0 G N R T T K H S A E N F R A F R S D S F N Y P P L A T V G L H I K Y E Y N L I R K V
UniRef90_K7PER6 A R E V T K K A S T L R L E T A F R S A D L G M L G Y A D P D G R I I Y R A P V R R
UniRef90_UPI000379F86A A R D V T K G H T S A V D A F V S P M A G P L G F V Q D G Y V R F A H A P S R V
UniRef90_UPI0002375EC4 A Q Q V Q K V I R S Y R A H A F S S G D A G P L G W I E E G R V R L A Q A W P P A
UniRef90_R6Z187 G T R A R K K I R S K S Y S A F E S I N Y P V A A F I D E N R L I Q Y V D G S R
UniRef90_Q0W7A3 G T K V R K L H T S A R T A F Q S V N E A P I A K V D Y A T R A I T V S G E Y
UniRef90_B2A299 G P R A K K I T S K S Y S A F D S I N Y P V V A S V K E N Y V C Y H E R A C Q D
UniRef90_UPI000365CF36 A K Y V T K T H T T N V S T F Q T P T H G P V G L V I M K H D I L F F K A A E Q R
UniRef90_F9V7P7 A R Y V T K T H T T N V S T F Q T P T H G P V G L A T K H K L F Y F
UniRef90_D2TZM6 A R N V T K M N T N F V E A V N A G Q P E G F I Y N G K V H Y L S A A K P
UniRef90_F0XAV9 A Y W T E K H H A N S V D S F Y A E A Q G Q L G V F L E H R P V F F Y G P A V
UniRef90_B5E2J0 A K Y V T K T H T T N V N T F Q T P T H G P L G L I M K Q E I L Y F
UniRef90_W6MQ40 G F F I S K S N S N S L E A F S S G K F G Y L G N F I D N E I N Y F Y P P A K P
UniRef90_A4CY73 A R D V A K R A T Q G V L G A F H S A T R G P L G W V D D F G V H L S G P A V E R
UniRef90_H5WR18 G R D A G K R I N I K T N A F G S Q W G A L G S V V E G K T Y W F R A P V K R
UniRef90_UPI000362385F A K Y V T K T H T T N V S A F Q T P T H G P L G I I M K D D I L F F
UniRef90_UPI00047094E9 G N R C K I S A D Q F S A F A S P N Y P P L A R V G I N I H Y D R R M R L S
UniRef90_Q8TV84 G V R V R K M H T S R R D A F R S V E S I P I A K V D V K D L R N P K I E F D Y
UniRef90_W9Y7C7 A Y Y V T K N A N A N T L E T F A P I D E E G F L G T L V S D V P Y Y Y P P V T
UniRef90_F8DDJ5 A R W V T K K N A R A N G P L E A Y A S P D A G P V A E I T A D G L A L R R E P R S E
UniRef90_H2FX79 G N R A S K V H A D G F N A F D S P N F P P L L N A G I H I S L E S G K L S Q P
UniRef90_F2QRD0 G F Y S T K S S A N S L D A F F K S L E Q G Y L G F F F N N D I E Y Y P P A R
UniRef90_UPI0002EEDE33 G S R S V K V R T M G F D A F E S V N C E P V C V D A R G L T I H R E L L P K
UniRef90_R2S1F9 A R Y V T K T H T T N V A T F R T P T L G P V G L V T K S K I L F M
UniRef90_UPI0004729843 G T R A V K M R T K S Y N A F S S I N Y P V A H L T G N E V H Y Y W K P V I S
UniRef90_I0DNX6 G N R T V K S H A D G F D A F T S P N C P P L M E A G I H I R T F N T C P A P I
UniRef90_A4AMP6 A N R T T K I N A E H F Q A F S S L N Y P P L A E S G V H L K V Y P E Y I E K K
UniRef90_W8X2C0 A R H A A K R H T T R V D A F R S G A D G A G V L G A V T D G Q V R Y V L R P D L P
UniRef90_W7Y7D0 G N R I T K Y N A E H F R A F R S D N G Y P P L A E V G I H I K Y N H P Y I Q K I
UniRef90_K1MH50 A M Y V T K T H T T N V A T F Q T P T F G P L G I I C K N E V F Y F Q K L I H Q
UniRef90_R2RZP5 A R Y V T K T H T T N V A T F R T P T L G P L G L V S K K R I L F L Q E L L E I
UniRef90_G5JZZ5 A K Y V T K T H T T N V I S T F Q T P T H G P L G V I M K D D L L F F K N A
UniRef90_B0TZ59 A N D V S K T N T T N V D A F K A L N Y G K L G T V T P S S V S Y Y Q T P K Y V
UniRef90_UPI000464E802 G T R G K K V R T K S Y N A F S S I N F P Y I A T I Q D G H V I F Y L D D K K T
UniRef90_A0A023VLJ1 G K Y V T K T H T T N V I S T F Q T P T H G P L G I V T K D D L L F F K T
UniRef90_M3HP16 G F Y I T K S N A N S L D T F K S I G Q G Y I G N F V N N E I R Y F Y P A N K P
UniRef90_X8IMR0 A R F V T K T N A T T L D T F K A P E E G Y L G V I V S G K P Q F E T R V D K I
UniRef90_C0C1W8 C R A T K V R T L G F D A F E S I S A N Y L G E V Y A D G V H L Y D N Y K V V
UniRef90_A6UWS4 G V K V R K S H S T R R D A F K S I N S I P V A E I N P F K K Q I K Y L T E L
UniRef90_G2KTE5 A R F V T K T H T T S V D T F K D P I Y G T V G T V D H D Q V V F A Q L T L G S
UniRef90_E1QRJ9 G T R V R K M H T S R R D T F K S I N D R P V A Y V N D R L I V L N T N N Y M
UniRef90_R7BF41 G T R A R K T H T K S F N A F K S I D F P E I A I V R D R R V R Y Y I E E K V S
UniRef90_E6VZ08 A R E A V K V N S L N V D T F K S R E A G L V G Y V A G E S V L A G C P L A H
UniRef90_C4YCF0 G Y Y I S K T D A N S V D T F K S L N F G Y L G N F V N G E V H Y Y F P P Q R
UniRef90_R5A796 G T R A R K S R T K S Y N A F T S L N F P D L A S V H E S R V V R Y I
UniRef90_U2DKA2 G N R T T K L S A E N F N A F G S F N Y P V L A E A G I H I K Y N N V Q I H V N
UniRef90_UPI000469E71F G N R T T K A H A D G F D A F A S P N F P P L L E A G I K I R L R A R G K I A P L
UniRef90_D3RX33 G V K V R K N H T S R R D A F Q S V N Y P P L G K V I Y P D G K I E W L A E R F
UniRef90_R6YHM2 G N R T T K I N A E N F A F R S Y N Y P A L A T A G I H I K Y E Y D R I R K V
UniRef90_W4EMC4 A A N V T K T S T S E N V G T F Q S P Q Y G P L G L I T K T M I H F H
UniRef90_B5IAQ0 A T R V R K M H T S R R D A F K S I N S K P L G E V R G N E I K F Y G E Y K R
UniRef90_R2RRG3 A R Y V T K T H T T N V A T F R T P T L G P I G L V T K H R I L I E M Q E L J A T
UniRef90_F7RX25 G N R S T K A D A D G F D A F A A P N F P A L L E A G I D I E L L A G V E P V
UniRef90_H1Q0W3 G N R S T K Q N A E E F N A F D S F N Y P H L C E A G V N F T F K E H N I M Q P
UniRef90_F8DQZ9 G C R S V K V R T A F D A F E S V N V P P V G E V T S D G F S I R D H Q H P Q
UniRef90_W2C752 G N R T S K I N A D D F N A F H S F N Y P P L A R A G V T I R Y V K L I Y R P
UniRef90_UPI00037FFAB5 A R F V Q K M H T S H V E T F Q S P Q L G S F G V V D K A G V R Y F V R Q C K
UniRef90_UPI0002195A1C A R F V T K T H A T N V A T F A S P I S G P M G M I T K R Q I V F Y D L P K T
UniRef90_R6BGX0 G T R A K K V R T T G F D A F E S V N Y P V L A T I R N N K I V H Y V K D S C P
UniRef90_A9KTD6 G C R A V K V R T T G F D A F E S V N Y P L V A T I D A N G L N I N T N A T I Q P
UniRef90_A9DNZ3 A N R T T K I N A E H F A F D S L N Y P P L A E S G V H L K I F K E N L W R P
UniRef90_U2QM01 G T R A K K T R S K S F Q A F S S I N H P E L G V L R D G V L L R Y I R Q D C R
UniRef90_R7LDU3 G N R T T K I N S E G F N A F R S F N L N S L A H A G I H I K Y D N H L I R R P
UniRef90_A3GI76 G Y Y I T K S N A N S L D T F K S I G Q G Y L G N F V D N E I H Y Y F P P A K P
UniRef90_C4ZJ57 A A A L A K R H S A V D A F S F E G A L T T L A S D A L H A L A P S R Y
UniRef90_A4C9R8 G N R A T K V H S D G F N A F A S P N F E P L A L S G I N I E L I N G C L S
UniRef90_A0A037Z802 A S Q V T K T N T H T L D T F K S V D F G P I G F V D N D K V Y F Y S Y T K R
UniRef90_I1DYG7 G N R A T K A D A S G F N A F A S P N F P P L I E A G I H I N L V A G K L S Q T
UniRef90_E6VB26 G V E V Q K V H T Y R L D A F A S G D A G P I G Y V I E G A V R R V R E W P T S
UniRef90_UPI00037746A1 G N R S Q K I S A Q R F N A F D S P N Y P H I A A A G I D I E L H Q H L L R K A
UniRef90_A0A022FUD6 G R D V V K A H T S A V N A F V S P L A G P I G F V Q D D L E R F V R A
UniRef90_E7GRB6 G C R A V K V R T L G F E A F E S V N A P Y L A E V F A N G M R R Y H E P E K P
UniRef90_F4B2R4 A N R T S K I S A E N F A F T S P N Y P E L L T S G V H L T I N E D A L W K
UniRef90_C5F8X9 A R F V T K T H T T N V A T F R T P T F G P V G L V T K D G V R F Q E L I N Q
UniRef90_C2NS49 G T R A V K M R T K S Y D A F E S V N S P Y V A E V N E Y E V K Y H C K

UniRef90_C6C5W8
UniRef90_HOPWQ9
UniRef90_X2GVC2
UniRef90_R8ANY0
UniRef90_H3NKW5
UniRef90_B6HE41
UniRef90_N6VTP0
UniRef90_UPI0003786C18
UniRef90_J9BPJ2
UniRef90_F9D6M0
UniRef90_K4M7D2
UniRef90_A6CR96
UniRef90_G5JXD4
UniRef90_G4HHD1
UniRef90_UPI00029A09CE
UniRef90_J1F3U7
UniRef90_M17WYU3
UniRef90_F3ZUJ0
UniRef90_K7PER6
UniRef90_UPI000379F86A
UniRef90_UPI0002375EC4
UniRef90_R6Z187
UniRef90_Q0W7A3
UniRef90_B2A299
UniRef90_UPI000365CF36
UniRef90_F9V7P7
UniRef90_D2TZM6
UniRef90_F0XAV9
UniRef90_B5E2J0
UniRef90_W6MQ40
UniRef90_A4CY73
UniRef90_H5WR18
UniRef90_UPI000362385F
UniRef90_UPI00047094E9
UniRef90_Q8TV84
UniRef90_W9Y7C7
UniRef90_F8DDJ5
UniRef90_H2FX79
UniRef90_F2QRD0
UniRef90_UPI0002EEDE33
UniRef90_R2S1F9
UniRef90_UPI0004729843
UniRef90_I0DNX6
UniRef90_A4AMP6
UniRef90_W8X2C0
UniRef90_W7Y7D0
UniRef90_K1MH50
UniRef90_R2RZP5
UniRef90_G5JZZ5
UniRef90_B0TZ59
UniRef90_UPI000464E802
UniRef90_A0A023VLJ1
UniRef90_M3HP16
UniRef90_X8IMR0
UniRef90_C0C1W8
UniRef90_A6UWS4
UniRef90_G2KTE5
UniRef90_E1QRJ9
UniRef90_R7BF41
UniRef90_E6VZ08
UniRef90_C4YCF0
UniRef90_R5A796
UniRef90_U2DKA2
UniRef90_UPI000469E71F
UniRef90_D3RX33
UniRef90_R6YHM2
UniRef90_W4EMC4
UniRef90_B5IAQ0
UniRef90_R2RRG3
UniRef90_F7RX25
UniRef90_H1Q0W3
UniRef90_F8DQZ9
UniRef90_W2C752
UniRef90_UPI00037FFAB5
UniRef90_UPI0002195A1C
UniRef90_R6BGX0
UniRef90_A9KTD6
UniRef90_A9DNZ3
UniRef90_U2QM01
UniRef90_R7LDU3
UniRef90_A3GI76
UniRef90_C4ZJ57
UniRef90_A4C9R8
UniRef90_A0A037Z802
UniRef90_I1DYG7
UniRef90_E6VB26
UniRef90_UPI00037746A1
UniRef90_A0A022FUD6
UniRef90_E7GRB6
UniRef90_F4B2R4
UniRef90_C5F8X9
UniRef90_C2NS49

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

UniRef90_C6C5W8 R V N M G G Y A T G I S G F D M T V E A A L T K L H Y L L S R N D S P D E L R Q
UniRef90_HOPWQ9 G V V P K A Q D P D W A A T G G L P A S Q A R R V A L M L A L S T S P N S S
UniRef90_X2GVC2 I A E G V Y G A T G I F A T G L N G Q K A R L K L L I G L N T S A F S P L D E I K R E
UniRef90_R8ANY0 K V N M E G Y A T G I G I F A T G D M T M E A A L A K L H F L L S Q E F A S D E I K R
UniRef90_H3NKW5 V I E D I Y D Y T G I S F A G Q L S G V K A R I K L M V V L S N T T E P V A I I R D Q
UniRef90_B6HE41 E V P T E D A Q T K I A S G L F N P E Q Q A R I L L G L L L A E K Y S L K E I R K K
UniRef90_N6VTP0 R V N M N V Y S N G I G C E D M L P E V A Y V K L M Y L L A N K Y S L K E D V I K K
UniRef90_UPI0003786C18 I A E P V Y A Y A G M F V K E L N A Q K A R L K L L I A L N A G L K G Q E L K R D
UniRef90_J9BPJ2 A V E M G R Y E T G I V S G Y D S T P E Y C A V T K L M F L L G R H G L S N Q E I R R N
UniRef90_F9D6M0 S V E M G R Y E T G V S G Y D S T V E S A V T K L M F L L A R H S T P A T I R R N
UniRef90_K4M7D2 R V C D R V Y D T G I E G E D M L A E V A L V K L M W A L G Q S D D P A V I A D E
UniRef90_A6CR96 I A Q D I Y G Y A G L I F S N G L N G Q K A R L K L L V A L S T S S S K E L K E E
UniRef90_G5JXD4 I A E P I Y A Y E G M F V K E L N A P K A R L K L L I A L N A G L K G Q E L K E E
UniRef90_G4HHD1 S V Y G G G E T I S G D N L S P Q Q A R I L L L L S L S F T D D F N T I K G E
UniRef90_UPI00029A09CE N V E M W R Y E T G V S G H D I N T T E A A L T K L M F L L G N S V S S M E E I K E T
UniRef90_J1F3U7 I A Q E V I Y S Y N G T F C H G L N G Q K A R I K L L V G L S A N L S T T E L T D
UniRef90_M7WYU3 F V T P G D Y P N T I A S G S L N P V K S R R Q L Q V L L A L N K T N D E I R T K
UniRef90_F3ZUJ0 S V E M Q R Y E T G I S G Y D S T T E C A V T K L M F L L G R H G Y D D Y A K V K
UniRef90_K7PER6 R V L P R R E R G F V V A G D N L T P V E S A R V L A M L A L T R T R T D P A K V R
UniRef90_UPI000379F86A H V P R P A G G V F V S A A D L N P Y K A R V L L A A D P A L G R D S A R L Q
UniRef90_UPI0002375EC4 Q V L A R P G D L L P A S R G L S P V K A R V A L M L D L G Q T R D F E T V K K
UniRef90_R6Z187 S D A E V Y E Y N V L Q A Y D M T V E A A V K L M W I M G Q T T D F G E E V R K R
UniRef90_Q0W7A3 R V C D R V Y S T G I D G Q D M L A E T A L V K L M W T L G Q T T D F G E E V R K R
UniRef90_B2A299 G I E L G T Y A L G L I F S G D M T P S A L V V K M M W A L A K N Q S G E E L K R D
UniRef90_UPI000365CF36 I A E P V Y G Y E G M F A P E L N S Q K A R L K L L I G L N G G L S G D A L K K
UniRef90_F9V7P7 I A E P V Y A Y E G M F A P E L N S Q K A R I K L L I G L N G G L S G D A L K K
UniRef90_D2TZM6 F I T R D A E Y D W F I A S E R L N P Q K A R I L L Q L A L T Q G T H D P F A E L K Q S
UniRef90_F0XAV9 Y A L Q L Q G D W L P S G C L S P Q K A R I L L Q L C L Q A G K T P F A E T K K A
UniRef90_B5E2J0 I A E P V Y A Y Q G F F V K E L N A Q K A R I K L L I A L N A G L T T G Q A L K D
UniRef90_W6MQ40 V V P R G Y S E G S L P A A G D M N P Q K A R I L L Q L C L L H G I L V D V I K V
UniRef90_A4CY73 P V H R C E D L G L P A A G D L S P Q K A R V L L N G D D R N T L A Q R D
UniRef90_H5WR18 F V Q P D D K Y D W V V A H D L N A P Q K A K I L A A L A L T R T G D T K Q L L A R
UniRef90_UPI000362385F I A E A I Y D Y E G M F V K E L N A Q K A R L K L L I A L N A G L A G D D L K D R
UniRef90_UPI00047094E9 N V E M T R Y E T G I C P G E D M L P E V A V A K L M M L L G T G R P D E I K R R
UniRef90_Q8TV84 R V N M N V Y R T G I C P G E D M L P E V A Y V K L M Y V L D R T D D I K E I V S A R
UniRef90_W9Y7C7 E V G L S D T A S H I A S G F L D P P Q K S R I L L G L L A Q F G D N L T K R
UniRef90_F8DDJ5 A V P A R Y G S P G I P A G E L P P W K A R I K L G L A L S A F D H E A V R Q
UniRef90_H2FX79 S V N M E G Y A T G I S G Y D M T T E A A L T K L H Y L L S K G L P P E E T R L
UniRef90_F2QRD0 K V P E R T N N T I G S G Y L N P Q K A R I M L Q L C L N E G L N L N Q T K D
UniRef90_UPI0002EEDE33 R S D F S I Y Q N T G I Q G F D M T S E A A V T K L M W A L G K E T L D P Q V V K A
UniRef90_R2S1F9 I A E P V Y D Y H G I F C R G I N S Q K A R I K L L I A M N A D L S K E Q L K H
UniRef90_UPI0004729843 E N L Y L Y E Y N V I V S G D M T T E A I V A K L M W A L G K T T D I H E I K Q E
UniRef90_I0DNX6 R V N M E G Y A T G I S G F D M T F E A A L S K L H Y L L S Q E Y T P A H V I R E
UniRef90_A4AMP6 S V I M G Q Y E Q V I N G K D I T T E A A I T K L M Y L L G N K V S P K L F K T
UniRef90_W8X2C0 L V T D S G A S G P L A A H A L N P L Q A R I A L R L A L A R G A M D R A G I G D
UniRef90_W7Y7D0 S V A M E R Y E T G L S G G D I T T E A A I T K L M Y L L G N A L N I E E V K
UniRef90_K1MH50 I P A D V Y D Y E G I F A K G L S G I K A R L K L Q V I L S S D T P Y Q I A Q E
UniRef90_R2RZP5 I A E P V Y D Y D G L F C A N S I N S Q K A R L K L L V A L N R D L N R K E L V H
UniRef90_G5JZZ5 I A E P V Y G Y Q G G G A K E L N S A S K A R L K L L I A L N A G L T G A D L K A
UniRef90_B0TZ59 Q I T H N Y K F D L V S S G T L S P E K A R I F L Q L C L L K T D N V S Q I K Q K
UniRef90_UPI000464E802 G S N M S V Y E V G H S A Y D M T L E A T V T K L M W I L G Q T E D Q K K I R E
UniRef90_A0A023VLJ1 I A E A V Y A Y Q G G G A K E L N A P K A R L K L L I A L N A G L K G Q A L K D
UniRef90_M3HP16 M V P I G V F K N A I A G G Y L N P Q K A R I L L Q L C L N D K M D L N Q I K E Q
UniRef90_X8IMR0 V V P V D D G Q P G L V A D S L N P A K A R I L L M T A L T Q T K N P Q V I K Q
UniRef90_C0C1W8 K S D F S L Y E V G I P G R D M T E A I V T K L M W A L G Q T E D S S E V W Q D
UniRef90_A6UWS4 R V N M N V Y S N G I S C E D M L P E V A L V K M M H L L G N Y D T E K A K E
UniRef90_G2KTE5 S A Q P I Y A Y P G L F C T C L N G Q K A R M K L T V A L S C G K K G K D L K D
UniRef90_E1QRJ9 R V N L N V Y R R G I P A E D M L P E V A F V K L S W V L G Q T R K G K D V R R
UniRef90_R7BF41 G S D M S V Y M V G Q V A Y D M T T E A I V T K L M W I L A Q T K N P D E V R E
UniRef90_E6VZ08 G V W P I Y G Y P G I L C G R L G G P K A R L R L M C A L G L T R N M D E I R D
UniRef90_C4YCF0 M V P T G A M P K G V A G G Y L N P Q K A R L L Q L C L N D K M G M P Q I R R
UniRef90_R5A796 S D L S V Y Q V G H R V I T Y D M T L E A T V T K L M W V L G Q T S D P Q E I R R
UniRef90_U2DKA2 T V E M E R Y E T G V S G Y D S T T E S A I A K L M F L L G R H G Y S P E E V R L
UniRef90_UPI000469E71F K V N M G Y A T G I S G A D M T T E A A L T K L H Y L L S Q G L G T E E I R R
UniRef90_D3RX33 R V C D R V Y D T G I E G E D M L P E V A L V K V M W L L G N Y S L E E A K E
UniRef90_R6YHM2 M V E M A R Y E T G I S G Y D A T V I E S V L T K L M F L L G R H K L T T R E V R N
UniRef90_W4EMC4 I A Q G V I Y G Y E G I Y A P G I S G Q K A R L K L L I G L N Q V H S P I E V A H
UniRef90_B5IAQ0 R V N L N V Y S T G I P L E D M L P E V A Y I K L M W L L G N Y D T Q K A R E
UniRef90_R2RRG3 I A E P V Y D Y E G I F C N S I N S Q K A R L K L L I A L N N G L N N H E L I S
UniRef90_F7RX25 T V N M A G Y A T G I S G Q D M T I E A A L T K L H Y L L S V G D D T Q E I K K
UniRef90_H1Q0W3 K V E M N R Y G A G V S G Y D S T V I E A A V T K L M Y L L Q A Q F N D P N I R K
UniRef90_F8DQZ9 R S D L T K Y E V G I S A R D M T S E S A I T K L M W G L G Q G E M D V K E I A D
UniRef90_W2C752 C V E M H R Y E V G R S G F D S T S E C A V A K L M F L L G Q E L T P K E I R E
UniRef90_UPI00037FFAB5 S V A P V Y G F V G I F A P D L P A H K A R I K L M V V L A A A A T V E E V R K
UniRef90_UPI0002195A1C I A E P V Y D Y L G I F A R A V N G Q K A R L K L L I G L E N G L S S S A L T N
UniRef90_R6BGX0 S D M E V Y E V G H V A S A Y D M T L E A T V T K L M W I M A Q T H D P Q R I K A
UniRef90_A9KTD6 R S D L S I Y Q A G I P A Y D M T T E A A V T K L I W A L G Q S N D E E E V R K T
UniRef90_A9DNZ3 K V I M G Q Y E T I L S G K D T S E A A I A K L M Y L L G R K I S Q S E F K T
UniRef90_U2QM01 G S D L G V Y H V G Y E A Y D M T T E A V V A K L M W L G Q T R R R E E V E R
UniRef90_R7LDU3 S V E M H R Y E T G I N G Y D S T L I E A M V T K L M F L L G R H D Y S T Q E I R
UniRef90_A3GI76 R V P R L G T F E S A I P G G Y L N P Q K A R I L L Q L C L Y E D Y N M Q E I K K
UniRef90_C4ZJ57 V R R H H A P A N W L D A G A L D P L K A R V R L I A G L G A G L R G A R L R R
UniRef90_A4C9R8 S V N M G G Y A T G I S G Y D M T L I E A C L T K L H Y L L S K G L E V E T I R H
UniRef90_A0A037Z802 K V L D D Y G Y E G I L G D N L N S H K A R I K L T V A L G Y T N K I Y E I K D
UniRef90_I1DYG7 K V N M Q G Y A T G I S G Y D M T L I E A A L T K L H Y L L S K D L T S D D I R
UniRef90_E6VB26 R I L P K T D D R L R D A G A L T P V K A R I A L M L E L
UniRef90_UPI00037746A1 H V E M S Q Y A T G I S G H D M T P E A A H C K L L Y L L S K N V S I P E A L Q A
UniRef90_A0A022FUD6 H V P R P A S G A F V S A G D L N P Y K A R V L L M L A L A T T V D P A A L V K T
UniRef90_E7GRB6 P S D F S I Y E V G I P G R D M T T E A A V T K L M W A L G Q T Q D P S E V R K
UniRef90_F4B2R4 S V H M G N Y E T S V A G G D M T T E A A T T K M M Y L L G Q E L G G P K V F K T
UniRef90_C5F8X9 V A Q A V Y N Y E G I F C G L N G Q K A R I K L Q V G L S D G K Q Q D L A D
UniRef90_C2NS49 G E D I L L Y E V G I L S G D M N T E A I M A K L M W A L G Q T N K I E E I K E

UniRef90_C6C5W8 LMQQ
UniRef90_HOPWQ9 F F Q
UniRef90_X2GVC2 LMQQ
UniRef90_R8ANY0 A F R
UniRef90_H3NKW5 V F L K
UniRef90_B6HE41 L I N K
UniRef90_N6VTP0 Y L Q
UniRef90_UPI0003786C18 K M N
UniRef90_J9BPJ2 L M D
UniRef90_F9D6M0 I M
UniRef90_K4M7D2 I F R
UniRef90_A6CR96 Y I E
UniRef90_G5JXD4 W F E T Y
UniRef90_G4HHD1 F L
UniRef90_UPI00029A09CE A F E E
UniRef90_J1F3U7 L M
UniRef90_M7WYU3 M F D E Y
UniRef90_F3ZUJ0 L F S Q Y
UniRef90_K7PER6 M F Y T
UniRef90_UPI000379F86A I M E T
UniRef90_UPI0002375EC4 V I H T
UniRef90_R6Z187 Y I E
UniRef90_Q0W7A3 F V E
UniRef90_B2A299 M F D K Y
UniRef90_UPI000365CF36 V F
UniRef90_F9V7P7 Y M E
UniRef90_D2TZM6 V F E
UniRef90_F0XAV9 V F M E Y
UniRef90_B5E2J0 Y I E
UniRef90_W6MQ40 L M M T
UniRef90_A4CY73 L M R T
UniRef90_H5WR18 V F H
UniRef90_UPI000362385F T F E
UniRef90_UPI00047094E9 L M
UniRef90_Q8TV84 L M
UniRef90_W9Y7C7 V F
UniRef90_F8DDJ5 I F E
UniRef90_H2FX79 L M
UniRef90_F2QRD0 V F
UniRef90_UPI0002EEDE33 I F E
UniRef90_R2S1F9 F M E E
UniRef90_UPI0004729843 I I E T
UniRef90_I0DNX6 L M Q
UniRef90_A4AMP6 I F E T
UniRef90_W8X2C0 L L R
UniRef90_W7Y7D0 F I
UniRef90_K1MH50 F M E S
UniRef90_R2RZP5 Y I E
UniRef90_G5JZZ5 L F D R F
UniRef90_B0TZ59 M F Y Q
UniRef90_UPI000464E802 Y I E
UniRef90_A0A023VLJ1 V F S T
UniRef90_M3HP16 Y F H T Y
UniRef90_X8IMR0 I F N T
UniRef90_C0C1W8 L M N K
UniRef90_A6UWS4 Y M
UniRef90_G2KTE5 L M L T
UniRef90_E1QRJ9 L F Y
UniRef90_R7BF41 L F E
UniRef90_E6VZ08 V F R
UniRef90_C4YCF0 L F
UniRef90_R5A796 R M N
UniRef90_U2DKA2 Q M Q Q
UniRef90_UPI000469E71F L
UniRef90_D3RX33 E M
UniRef90_R6YHM2 F F
UniRef90_W4EMC4 L L S Q
UniRef90_B5IAQ0 F M
UniRef90_R2RRG3 H M N
UniRef90_F7RX25 F F N T
UniRef90_H1Q0W3 H M Q
UniRef90_F8DQZ9 A F
UniRef90_W2C752 F L H E F
UniRef90_UPI00037FFAB5 M F Y T
UniRef90_UPI0002195A1C M F Q T
UniRef90_R6BGX0 V F E T
UniRef90_A9KTD6 L F Y T
UniRef90_A9DNZ3 L M N
UniRef90_U2QM01 V F
UniRef90_R7LDU3 W F E
UniRef90_A3GI76 L M Q
UniRef90_C4ZJ57 I F E K
UniRef90_A4C9R8 Q M Q Q
UniRef90_A0A037Z802 L M E T
UniRef90_I1DYG7 L F A E
UniRef90_E6VB26 I F D T
UniRef90_UPI00037746A1 V F E T
UniRef90_A0A022FUD6 F V D
UniRef90_E7GRB6 I I E T
UniRef90_F4B2R4
UniRef90_C5F8X9
UniRef90_C2NS49

UniRef90_A8YX67
UniRef90_D8ILX9
UniRef90_UPI00047BEF38
UniRef90_R7D5F8
UniRef90_UPI000369E4A9
UniRef90_UPI00035E00A0
UniRef90_E5V3T0
UniRef90_V4JAU4
UniRef90_K2CBA8
UniRef90_A6EJG3
UniRef90_D9WDY3
UniRef90_UPI000362D691
UniRef90_U4KL39
UniRef90_F4KNZ0
UniRef90_G0LVB9
UniRef90_R5BBM6
UniRef90_Q3IRA6
UniRef90_A1K2J8
UniRef90_UPI0003B44113
UniRef90_D2RSV6
UniRef90_UPI00040C53C5
UniRef90_UPI0004704445
UniRef90_F2K828
UniRef90_UPI0003FB6135
UniRef90_A6EM05
UniRef90_D2TZA7
UniRef90_UPI0003B79E5D
UniRef90_R6YM35
UniRef90_E6TYQ5
UniRef90_R5IYA8
UniRef90_G4NXE0
UniRef90_N6YAK5
UniRef90_UPI000419DA60
UniRef90_P38986
UniRef90_UPI00035F4BF2
UniRef90_F0SW11
UniRef90_D0LXX2
UniRef90_S5ZX36
UniRef90_F9ND39
UniRef90_A6FDH7
UniRef90_Q481H0
UniRef90_U2EY35
UniRef90_S6E492
UniRef90_G9RYP1
UniRef90_UPI00040AE6BA
UniRef90_R5FEC0
UniRef90_V6Z3N2
UniRef90_D1RCL7
UniRef90_J9G011
UniRef90_UPI00047C3AA2
UniRef90_UPI00031EA4BC
UniRef90_D5VQY4
UniRef90_C5CKV8
UniRef90_UPI000407728C
UniRef90_F5SBF2
UniRef90_C5T695
UniRef90_W5YAN4
UniRef90_R6Z5R5
UniRef90_I3C4L1
UniRef90_Q3AVY7
UniRef90_E1KSV3
UniRef90_H3ZJL8
UniRef90_R6WQ19
UniRef90_UPI000360ECBE
UniRef90_U1QY67
UniRef90_UPI0003B4048B
UniRef90_I0TA06
UniRef90_UPI0002F9E10C
UniRef90_U2K5A3
UniRef90_R6VF80
UniRef90_UPI000372593B
UniRef90_K2PT05
UniRef90_X5D8Y6
UniRef90_U1KTQ4
UniRef90_Q0I6R9
UniRef90_E1GVL0
UniRef90_K4RNL0
UniRef90_UPI0002F6F759
UniRef90_C6CVN5
UniRef90_D5QHS4
UniRef90_M0DDE3
UniRef90_D7D949
UniRef90_UPI00047E27FE
UniRef90_F3KN34
UniRef90_U7VA71
UniRef90_U4TFF7
UniRef90_B9WN17
UniRef90_P30363
UniRef90_F0Q2B2
UniRef90_R5Q2W4
UniRef90_E7QNI3
UniRef90_UPI00046674B6

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

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

UniRef90_A8YX67
UniRef90_D8ILX9
UniRef90_UPI00047BEF38
UniRef90_R7D5F8
UniRef90_UPI000369E4A9
UniRef90_UPI00035E00A0
UniRef90_E5V3T0
UniRef90_V4JAU4
UniRef90_K2CBA8
UniRef90_A6EJG3
UniRef90_D9WDY3
UniRef90_UPI000362D691
UniRef90_U4KLX39
UniRef90_F4KNZ0
UniRef90_G0LBV9
UniRef90_R5BBM6
UniRef90_Q3IRA6
UniRef90_A1K2J8
UniRef90_UPI0003B44113
UniRef90_D2RSV6
UniRef90_UPI00040C53C5
UniRef90_UPI0004704445
UniRef90_F2K828
UniRef90_UPI0003FB6135
UniRef90_A6EM05
UniRef90_D2TZA7
UniRef90_UPI0003B79E5D
UniRef90_R6YM35
UniRef90_E6TYQ5
UniRef90_R5IYA8
UniRef90_G4NXE0
UniRef90_N6YAK5
UniRef90_UPI000419DA60
UniRef90_P38986
UniRef90_UPI00035F4BF2
UniRef90_F0SW11
UniRef90_D0LXX2
UniRef90_S5ZX36
UniRef90_F9N3D9
UniRef90_A6FDH7
UniRef90_Q481H0
UniRef90_U2EY35
UniRef90_S6E492
UniRef90_G9RYP1
UniRef90_UPI00040AE6BA
UniRef90_R5FEC0
UniRef90_V6Z3N2
UniRef90_D1RCL7
UniRef90_J9G011
UniRef90_UPI00047C3AA2
UniRef90_UPI00031EA4BC
UniRef90_D5YQY4
UniRef90_C5CKV8
UniRef90_UPI000407728C
UniRef90_F5SBF2
UniRef90_C5T695
UniRef90_W5YAN4
UniRef90_R6Z5R5
UniRef90_I3C4L1
UniRef90_Q3AVY7
UniRef90_E1KSV3
UniRef90_H3ZJL8
UniRef90_R6WQ19
UniRef90_UPI000360ECBE
UniRef90_U1QY67
UniRef90_UPI0003B4048B
UniRef90_I0TA06
UniRef90_UPI0002F9E10C
UniRef90_U2K5A3
UniRef90_R6VFB0
UniRef90_UPI000372593B
UniRef90_K2PT05
UniRef90_X5D8Y6
UniRef90_U1KTQ4
UniRef90_Q016R9
UniRef90_E1GVL0
UniRef90_K4RNL0
UniRef90_UPI0002F6F759
UniRef90_C6CVN5
UniRef90_D5QHS4
UniRef90_M0DDE3
UniRef90_D7D949
UniRef90_UPI00047E27FE
UniRef90_F3KN34
UniRef90_U7VA71
UniRef90_U4TFF7
UniRef90_B9WN17
UniRef90_P30363
UniRef90_F0Q2B2
UniRef90_R5Q2W4
UniRef90_E7QNI3
UniRef90_UPI00046674B6

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

		90	100	110	120																																					
UniRef90_A8YX67	R	N	D	Y	D	G	V	V	V	S	H	G	T	D	T	M	A	Y	T	A	S	M	L	A	F	M	L	N	I	N	I	P	V	V	V	L	T	G	S	Q	V	
UniRef90_D8ILX9	D	E	N	I	D	G	V	V	V	T	H	G	T	D	T	L	E	E	T	A	Y	F	L	D	L	T	I	P	S	K	F	P	V	V	V	L	T	G	S	Q	R	
UniRef90_UPI00047BEF38	Y	D	S	Y	D	G	F	V	I	T	H	G	T	D	T	M	A	Y	T	A	A	A	L	S	F	M	L	N	L	A	K	P	V	V	V	L	T	G	S	Q	I	
UniRef90_R7D5F8	Y	D	E	Y	D	G	F	V	I	T	H	G	T	D	T	M	A	Y	T	A	A	A	L	S	F	M	L	N	L	A	K	P	V	V	V	L	T	G	S	Q	I	
UniRef90_UPI000369E4A9	Y	D	E	Y	D	G	F	V	I	T	H	G	T	D	T	M	A	Y	T	A	A	A	L	S	F	M	L	N	L	A	K	P	V	V	V	L	T	G	S	Q	I	
UniRef90_UPI00035E00A0	N	K	E	G	V	D	G	V	V	T	H	G	T	D	T	M	E	E	T	A	F	F	L	Q	N	V	L	D	T	D	V	I	V	V	V	L	T	G	S	M	R	
UniRef90_E5V3T0	E	G	L	E	G	V	V	V	I	T	H	G	T	D	T	L	E	E	T	A	Y	Y	L	Q	N	V	L	D	V	E	I	P	V	V	V	L	T	G	S	M	R	
UniRef90_V4JAU4	A	G	Y	E	G	V	V	V	A	H	G	T	D	T	M	A	Y	T	A	A	A	L	S	F	V	F	H	L	P	G	P	V	V	A	L	V	I	G	A	Q	R	
UniRef90_K2CBA8	Y	H	D	Y	D	G	F	V	I	L	H	G	T	D	T	M	A	Y	T	A	T	A	L	S	F	M	L	N	L	S	K	P	V	V	V	L	T	G	S	Q	L	
UniRef90_A6EJG3	Y	E	E	F	D	G	F	V	I	L	H	G	T	D	T	M	S	F	T	A	S	A	L	S	F	M	L	N	L	S	K	P	V	V	V	L	T	G	S	Q	L	
UniRef90_D9WDY3	T	N	D	A	V	V	V	T	A	G	T	D	T	M	E	E	F	A	Y	W	L	D	L	T	V	R	S	D	K	P	V	V	V	L	T	G	A	L	R			
UniRef90_UPI000362D691	D	P	G	L	A	G	F	V	I	T	H	G	T	A	T	L	E	E	T	A	W	F	L	D	L	L	A	L	T	L	D	Q	P	V	V	V	L	T	G	A	L	R
UniRef90_U4KL39	K	H	Y	D	G	V	V	L	T	H	G	T	D	T	L	E	E	T	A	Y	F	L	D	L	L	Y	L	A	L	H	E	P	V	V	V	L	T	G	S	M	R	
UniRef90_F4KNZ0	K	E	Y	D	G	F	V	I	L	H	G	T	D	T	M	A	Y	T	A	S	A	L	S	F	M	L	Q	G	D	R	P	V	V	V	L	T	G	S	Q	L		
UniRef90_G0LVBV9	Y	D	S	H	D	G	F	V	V	L	H	G	T	D	T	M	S	Y	T	A	S	A	L	S	F	M	L	N	L	G	K	P	V	V	I	E	T	G	S	Q	L	
UniRef90_R5BBM6	N	Y	D	G	F	V	V	L	H	G	T	D	T	M	A	Y	S	A	S	A	L	S	F	M	L	N	L	R	K	P	V	V	I	E	T	G	S	Q	L			
UniRef90_Q3IRA6	A	G	A	D	G	V	V	V	M	H	G	T	D	T	M	Q	Y	T	A	A	A	L	S	F	M	L	D	T	P	V	P	V	V	F	T	G	S	Q	R			
UniRef90_A1K2J8	D	P	A	V	D	G	V	V	I	T	H	G	T	D	T	L	E	E	S	A	F	F	V	H	L	T	V	A	T	A	K	P	V	V	F	T	G	A	S	M	R	
UniRef90_UPI0003B44113	A	D	A	V	D	G	F	V	I	A	Q	G	T	D	T	M	A	Y	S	A	H	A	F	M	L	K	L	G	K	P	V	V	F	T	G	A	S	I	V			
UniRef90_D2RSV6	D	P	T	V	D	A	V	V	I	T	H	G	T	D	T	M	E	E	T	A	Y	L	D	V	T	V	Q	P	E	T	P	V	V	F	L	T	G	A	Q	R		
UniRef90_UPI00040C53C5	Q	D	D	Y	D	G	F	V	I	L	H	G	T	D	T	M	A	Y	T	A	S	A	L	S	F	M	L	N	L	C	K	P	V	V	I	V	T	G	S	Q	L	
UniRef90_UPI0004704445	Y	Q	Y	D	G	F	V	I	L	H	G	T	D	T	M	S	Y	T	A	S	V	L	S	F	M	C	N	L	T	K	P	V	V	I	E	T	G	S	Q	L		
UniRef90_F2K828	D	P	S	V	D	G	V	V	V	T	H	G	T	D	T	L	E	E	T	A	Y	F	L	N	L	T	V	H	S	S	K	P	V	V	F	A	A	S	M	R		
UniRef90_UPI0003FB6135	Y	N	S	Y	D	G	F	V	I	L	H	G	T	D	T	M	S	Y	T	A	S	A	L	S	F	M	L	N	L	N	K	P	V	V	I	E	T	G	S	Q	L	
UniRef90_A6EM05	Y	Q	L	F	D	G	F	V	I	L	H	G	T	D	T	M	S	Y	T	A	S	A	L	S	F	M	L	N	L	C	K	P	V	V	I	E	T	G	S	Q	L	
UniRef90_D2TZA7	Y	E	N	Y	D	G	F	V	I	L	H	G	T	D	T	M	A	Y	T	A	S	A	L	S	F	M	F	D	L	S	K	P	V	V	I	E	T	G	S	Q	L	
UniRef90_UPI0003B79E5D	Y	V	I	Y	D	G	F	V	V	L	H	G	T	D	T	M	S	Y	T	A	S	A	L	S	F	M	L	N	L	A	K	P	V	V	I	E	T	G	S	Q	L	
UniRef90_R6YM35	Y	D	D	Y	D	G	F	V	I	L	H	G	T	D	T	M	A	Y	T	A	S	A	L	S	F	M	L	N	L	T	K	P	V	V	I	E	T	G	S	Q	L	
UniRef90_E6TYQ5	T	N	S	V	D	G	V	V	V	T	H	G	T	D	S	L	E	E	T	A	Y	L	D	L	T	I	D	N	T	N	P	V	V	V	L	T	G	S	Q	R		
UniRef90_R5IYA8	Y	E	E	Y	D	G	F	V	I	L	H	G	T	D	T	M	A	Y	T	A	A	A	L	S	Y	L	I	N	S	P	K	P	V	V	I	E	T	G	A	Q	R	
UniRef90_G4NXE0	N	E	D	V	A	G	V	V	I	S	H	G	T	D	T	L	E	E	T	S	Y	F	L	D	L	V	I	N	S	D	E	R	P	V	V	L	T	G	S	Q	R	
UniRef90_N6YAK5	D	P	E	I	D	G	V	V	I	T	H	G	T	D	T	L	E	E	T	A	Y	F	L	H	I	T	L	A	T	A	K	P	V	V	M	T	A	A	S	M	R	
UniRef90_UPI000419DA60	Y	E	Q	F	D	G	F	V	I	L	H	G	T	D	T	M	S	Y	T	A	S	A	L	S	F	M	L	N	L	A	K	P	V	V	I	F	T	G	A	S	Q	L
UniRef90_P38986	A	Y	E	F	D	G	F	V	I	L	H	G	T	D	T	L	S	E	T	A	F	F	I	E	S	T	I	D	G	D	V	P	V	V	F	V	I	G	S	M	R	
UniRef90_UPI00035F4BF2	A	P	H	F	D	G	F	V	I	T	H	G	T	D	T	L	E	E	T	A	Y	F	L	D	T	M	Q	L	P	M	I	P	V	V	I	M	T	G	A	M	R	
UniRef90_F0SW11	R	E	D	P	D	G	F	V	I	S	Q	H	G	T	D	T	M	E	E	T	A	S	F	L	L	L	L	D	I	P	E	P	V	V	I	E	T	G	A	M	R	
UniRef90_D0LXX2	Y	E	D	Y	D	G	F	V	L	S	H	G	T	D	T	M	A	F	T	A	S	A	L	S	F	M	L	E	L	A	K	P	V	V	L	L	T	G	S	Q	L	
UniRef90_S5ZV36	E	P	D	V	R	G	I	V	V	A	H	G	T	D	T	L	H	Y	T	A	A	A	M	A	F	A	I	K	A	P	G	P	V	V	F	V	I	G	A	Q	R	
UniRef90_F9N3D9	R	D	D	L	G	I	V	I	L	H	G	T	D	T	M	E	E	T	A	S	F	L	Q	L	T	V	H	T	K	K	P	V	V	I	M	T	G	S	M	R		
UniRef90_A6FDH7	Y	D	D	Y	D	G	F	V	I	L	H	G	T	D	T	M	A	Y	T	A	S	A	L	S	F	I	L	D	L	G	K	P	V	V	I	E	T	G	S	Q	L	
UniRef90_Q481H0	Y	D	D	Y	D	G	F	V	V	L	H	G	T	D	T	M	A	Y	T	S	S	A	L	S	F	M	F	N	L	S	K	P	V	V	V	T	G	S	Q	I	L	
UniRef90_U2EY35	L	G	Y	D	G	I	V	I	L	T	H	G	T	D	T	L	A	E	T	A	F	F	I	E	S	T	I	D	G	D	L	P	V	V	F	V	I	G	S	M	R	
UniRef90_S6E492	Y	S	S	F	D	G	F	V	V	C	H	G	T	D	T	M	A	Y	T	A	A	A	L	S	Y	L	V	Q	G	P	K	P	V	V	I	E	T	G	S	Q	K	
UniRef90_G9RYP1	Y	S	S	F	D	G	F	V	V	C	H	G	T	D	T	M	A	Y	T	A	A	A	L	S	Y	L	V	Q	G	P	K	P	V	V	I	E	T	G	S	Q	K	
UniRef90_UPI00040AE6BA	Y	V	D	H	D	G	F	V	I	L	H	G	T	D	T	M	A	Y	T	A	S	A	L	S	F	M	L	N	L	Q	K	P	V	V	I	E	T	G	A	Q	L	
UniRef90_R5FEC0	K	Y	D	G	F	V	I	L	H	G	T	D	T	M	A	Y	T	A	S	A	L	S	F	M	M	E	N	L	T	K	P	V	V	I	E	T	G	S	Q	L		
UniRef90_V6Z3N2	N	Y	D	G	I	V	I	L	T	H	G	T	D	T	L	E	E	T	A	Y	F	L	D	T	M	N	V	P	S	I	P	V	V	I	E	T	G	A	M	R		
UniRef90_D1RCL7	Y	E	H	F	D	G	F	V	V	F	H	G	T	D	T	M	A	Y	T	A	S	A	L	S	F	M	L	N	L	G	K	P	V	V	V	L	T	G	S	Q	L	
UniRef90_J9G011	D	P	K	V	S	G	V	V	V	T	H	G	T	D	T	L	E	E	T	A	F	F	L	N	L	T	V	K	S	K	P	V	V	V	I	E	T	G	S	M	R	
UniRef90_UPI00047C3AA2	D	E	D	V	S	G	V	V	V	T	H	G	T	D	T	M	E	E	T	S	Y	F	L	D	L	T	I	N	D	S	R	T	V	V	V	T	G	S	Q	R		
UniRef90_UPI00031EA4BC	Y	V	E	F	D	G	F	V	I	L	H	G	T	D	T	M	S	Y	T	S	S	A	L	S	F	M	L	N	L	A	K	P	V	V	I	E	T	G	S	Q	L	
UniRef90_D5YQY4	K	E	G	A	K	I	V	I	A	H	G	T	D	T	L	S	Y	T	A	A	A	L	S	F	M	V	K	G	D	V	P	V	I	L	V	I	G	A	Q	R		
UniRef90_C5CKV8	E	A	D	V	A	G	V	V	I	A	H	G	T	D	T	L	E	E	T	A	F	F	L	Q	A	V	L	A	A	G	K	P	V	V	L	T	C	A	M	R		
UniRef90_UPI000407728C	R	D	D	L	V	D	G	V	V	V	T	H	G	T	D	S	L	E	E	T	A	Y	F	L	D	L	T	V	Q	D	E	R	P	V	V	V	T	G	S	Q	R	
UniRef90_F5SBF2	R	P	D	V	D	G	V	V	V	T	H	G	T	D																												

UniRef90_A8YX67 P I N V V L S D A H D N L R L A F A A A T C P P D L L Y 140 150 L A F H N K I M L 160
UniRef90_D8ILX9 S A N E I G S D G L H N F Q T A I Q T A A A S D E A H G K G V L V V M N D E I I H T
UniRef90_UPI00047BEF38 P I S F Q R T D A K K N L I K D A I E R F A A C E Q H P K I G G V F V F F D N D E I I L Q R
UniRef90_R7D5F8 P I G M L R T D A K K N L I T A I E I A A A A Q H P D G P E V C I F F G N H R L L R Q
UniRef90_UPI000369E4A9 P I T F K K T D A K K N L I T D A I E R F A C E E G V G G V L V V F D N D E I I L Q
UniRef90_UPI00035E00A0 P S T A I G A D G P A N L L Y E A M R V A A S A P E S S R D R K G V L V V L N D T E H A
UniRef90_E5V3T0 S S N E I G A D G L A N L R S S L V V A V S A P E S S R D R K G V L V V M N D E A H T
UniRef90_V4JAU4 S S D R P S S D A F N L T A A V L V A S E A P F G E V T V V M H G E T G D H R
UniRef90_K2CBA8 P I G E I A S D G V N L T N A V L E R F A C Q D I T E V A I M F G N H L L R
UniRef90_A6EJG3 P I G E I R T D A K E N L I T A V L E I A A T K K A M V P E V C I Y F D Y Q L L R
UniRef90_D9WDY3 P W T V I G S D G P A N L L Y N A I R L A A S G R T T C F G T V V M L N D Q I Q A
UniRef90_UPI000362D691 P A N T A G S D G P A N L L R A A I L A V A Q S E A A R G T G V L V V M D G H I F A
UniRef90_U4KL39 N R S E L G Y D G L L N L A S A I L L V A A S E G A S K D R G V L V V L N D E I I N S
UniRef90_F4KNZ0 P I G R L R T D G K E N L I T A F E I A L A R R A D G P E V A V Y F E D D L Y R R
UniRef90_G0LBV9 P I G E D L R T D A K E N L I T A I Q I A K K N K P V V Q E V A G L Y F E Y K L L R
UniRef90_R5BBM6 P I G E V R T D G E E N L I T A I Q I A A A T N S A G Q E V A L L F E N Y L W R
UniRef90_Q3IRA6 S A D R P S S D N V M N A V C A V E A A T A D H S E V L V C M H D D N C A L H R
UniRef90_A1K2J8 P A T A L S A D G P M N L L A A V R V A A A P A F H G L G T L V A I N D R V I A
UniRef90_UPI0003B44113 P L S E I L G A D G R M N L L I Y S C L V A A S M D I A E V C I Y F G N H I I R
UniRef90_D2RSV6 R P D E L S S D G P S N L L T A V R A A E A F V D R D G E T F I A F N E T V I H S
UniRef90_UPI00040C53C5 P I A G E L R S D G K I N M L N A S I L Y L A A N Y P I A E V A L Y F F N N K L L R
UniRef90_UPI0004704445 P L Q E L R T D G K E N L M T S I E I L A S T Y K A D G P E V C I Y F F N G H L L R
UniRef90_F2K828 P S T A I S A D G P L N L D A V V I A A S P Q S Q N K G V L V S L N D E I I H S
UniRef90_UPI0003FB6135 P I G D L R T D A K E N L I T A I Q V A A H D G Q P I T R E V C I Y F F Y K L L Y R
UniRef90_A6EM05 P I G D L R T D A K E N L I T S I Q I A A S L H N P I V V K E V V G L Y F E Y K L L Y R
UniRef90_D2TZA7 P L E A L R S D G Q T N L L N S I Y Q L A A N Y P I N P I V V K E V T L Y F F N N K L L R
UniRef90_UPI0003B79E5D P I G E D L R T D A K E N L I T A I E I A S L Q K N A D G P V I Q E V G L Y F F Y K L L R
UniRef90_R6YM35 P I G E L R T D A K E N M M T A I E I A S L Q K N A D G P E V C I Y F F N G K L L R
UniRef90_E6TYQ5 S P E E L G S D A F I N L R H A I Y S A C D E Q L L D V G T I V V F N E R V I F A
UniRef90_R5IYA8 G P T L E G N T D A R T N L A D S L R F A S H D K A H G V N I V F D N E R V I A
UniRef90_G4NXE0 P T L E G N T D A R T N L R Q A F L L A A H P D A R G L G V T V L F N E R V I A
UniRef90_N6YAK5 P A T A L S A D G P L N L Y Q A V Q L A C R P A A G R A G V L A V L G D R I L P
UniRef90_UPI000419DA60 P I G D L R T D A K E N L I T A I Q I A T D G K P V I T R E V C I Y F F Y K L L Y R
UniRef90_P38986 P S T S V S A D G P M N L Y Q A I C I A S N P K S R R G R G V L V S L N D Q I S S
UniRef90_UPI00035F4BF2 S S T E I G S D G V Y N Y L T A I L R V A A E T K S R D K G V L V V M N D E I I H A
UniRef90_F0SW11 N A S E M S Y D G T Q N L Y H S I Q V A G S A K A M N K G V M V C M N N I Y A
UniRef90_D0LXX2 P L E E T R N D A T Q N N L T A I L T I L G R D H A R L P E V L I Y F A G L L L R
UniRef90_S5ZV36 S S D R P S S D A A L N A I G A T I A A I K A P F A E S V I A M H A T T S D H R
UniRef90_F9N3D9 P A T A L S A D G P V N L L Q A V Q V A R S E S A H H Q G V L V V M N G Y I D S
UniRef90_A6FDH7 P L A E I R S D G Q S N L L N S L Y L A A N Y P V H E V C L F F N N Q L L R
UniRef90_Q481H0 P L S Q L R S D G Q V N V L N A L Y L A A N Y P V I S E V S L F F N N K L L Y R
UniRef90_U2EY35 P L A D P L S A D A W E N L R D A F A M A A S G Q P G I F E L C F N R K V S L
UniRef90_S6E492 P S T S V S A D G P M N L Y Q A I C I A A D S K S R G R G V L V S L N D Q V S A
UniRef90_G9RYP1 P I N M D I T D S K T N L L D S F V C A C D G R I P G V Q I V F G G A V I L
UniRef90_UPI00040AE6BA P I G K L R T D A K E N L I T A M E I A A D K D S I G N E V C I Y F F Q N Y L L R
UniRef90_R5FEC0 P I G Q L R T D A K E N L I T S I E L A D E G H A R V P E V C I Y F S G H L L R
UniRef90_V6Z3N2 S S N E L G S D G I Y N Y L S A L R V A G H P K S L G K G V L V V M N D E I I H A
UniRef90_D1RCL7 P L S E V R N D A L D N V V T S L W L C A H Q P I H E V C I Y F N Q I L L R
UniRef90_J9G011 P S T A I S A D G P M N L N A V K L A S D P K A Q D R G V L V A L N D Q I S S
UniRef90_UPI00047C3AA2 S P E D L G S D V Y I N L R H A I Y C A C S D D L R N A G T V V V F N E R I F A
UniRef90_UPI00031EA4BC P I G D L R T D A K E N L I T A I Q I A S L Q Q P V I N E V C L Y F E S K L Y R
UniRef90_D5YQY4 S S D R P S S D A Y L N L R S V L A A R E R I R G V Y V M H G E S D T H S
UniRef90_C5CKV8 P A S S L S P D G P Q N L R D A I A V A A T P A A H G V T V V C A G A I H G
UniRef90_UPI000407728C S P G D I G S D V Y I N L R H A I Y T A S A E D L R G A G T V V V F N E R I F A
UniRef90_F5SBF2 S Q N E L G A D G P I N L V N A I V R V A S H P K A R G K G T V V V F N D E I H A
UniRef90_C5T695 P A T A L A P D G P Q N L L D A I A V A T A E G A R G V L V V V A A G V V H G
UniRef90_W5YAN4 P A S A L S A D G P A N L L Y A A L L V A S C P D A A G R G V L V V A N N E I H A
UniRef90_R6Z5R5 P M T S S F T D A K L N L Y Q S L L Y A S L D D A S C D V T I V F G G I A I A
UniRef90_I3C4L1 P I G D L R T D A K E N L I T S I Q I A Q N G S A V I R E V C L Y F E Y K L Y R
UniRef90_Q3AVY7 P A T A L S A D G P L N L L Q A V Q V A L S P V A R G Y G V L V V M D G Q I H G
UniRef90_E1KSV3 P I G Q L R T D G K E N L M T S L E L A A A H H D G P E V C I Y F F N G H L L R
UniRef90_H3ZJL8 P V T E E S D A P R N L K A I R F A M E D V S G I F V A F M D K I M L
UniRef90_R6WQ19 P I G Q L R T D G K E N L Y T S I E V A A S H H D D G P E V C I Y F N G H L L R
UniRef90_UPI000360ECBE P W T V I G T D A P A N L Y N A I S L A A S G R T T C Y G S I M L N D E I L F P
UniRef90_U1QY67 S A D R P S S D N V M N A V C A V E A A T G D C A E V L V C M H T E G S D S H R
UniRef90_UPI0003B4048B S S D R P S S D A A L N L M H A S Y A A G S H D I A E F G P T S D E Y G F L H R
UniRef90_I0TA06 P I G Q L R T D G K E N L M T S I E I A A A H D A E G P E V C I Y F S G H L L R
UniRef90_UPI0002F9E10C P I G V L R T D G K E N L I T A I E I A A A R R P R V P P E V S L Y F F N Y L M R
UniRef90_U2K5A3 P V G K L R T D G K E N L I T A I E I A A A R R P R V P P E V S L Y F F N Y L M R
UniRef90_R6VF80 P I G V L R T D G R E N L I T A I E I A A R D G R P V V P P E V S L Y F F Q N R L F R
UniRef90_UPI000372593B P L A E L R S D G Q V N L N A L F E I A A N F P I A E V V G L F F N N R L L R
UniRef90_K2PT05 P I G D L R T D A K E N L I T S I Q I A S L Q E A V I K E V C I Y F E Y K L L Y R
UniRef90_X5D8Y6 P I G M I R T D A K E N L I T A V E I A A A K I S I V P E V C I Y F E Y K L L Y R
UniRef90_U1KTQ4 P L S Q L R S D G Q V N L L N A M Y L A A N Y P I G E V S L Y F N N Q L Y R
UniRef90_Q0I6R9 P A T A L S A D G P L N L F Q A V Q V A S S Y Q A C G H G V L V V M D G Q I H G
UniRef90_E1GVL0 P I G Q L R T D G K E N L M T S I E L A A S S Y P N G P E V A I Y F S G H L L R
UniRef90_K4RNL0 N A S S L S A D G P L N L Y N A V A V A A S K Q A Y N K G V L V V M D D A I H A
UniRef90_UPI0002F6F759 P A T A Y S A D G P A N L L D A C S V A A S C P G A Q W R G T V L V M N D R I H S
UniRef90_C6CVN5 P W D V I G T D A P A N L Y Q A I K V A S S N K T K W F G T V L M L N D V I Y A
UniRef90_D5QHS4 P A S A I S A D G P A N L H A A L L V A A S A Q A R G K G V L V V S D N E I H A
UniRef90_M0DDE3 S A D R P S S D N V M N A V C A V E A A T A D C A E V M V C M H A S E S D D H R
UniRef90_D7D949 S S D R P S T S D A F N L A A F L T A A K A P F A E S V V M H G E T G D T H R
UniRef90_UPI00047E27FE P I Q N P L T D G V T N L F A T A V E A I A R G I A G V S V A F D R K I P
UniRef90_F3KN34 S S D R A S S D A A L N L T G A T K F L V G C K T N G V Y I V M H Q D G N C H L
UniRef90_U7VA71 P L V T P S S D A L Q N L I T S I Q I A G N R I Y G I P E V T I C F R N D E L L R
UniRef90_U4TFF7 P I G Q I R N D A C N I J D A L L I A N H H P I P E V C L Y F F N N Y L L R
UniRef90_B9WN17 P S T A I S S D G P M N L Y Q A I V I T A S N R E S R G R G V L I A L N D R I G S
UniRef90_P30363 A P E Q Q G T D A Y T N I R H A I V Y T A C S P D I K G A G T V V V F N E R I F N
UniRef90_F0Q2B2 P A T A L A P D G P Q N L L D A V A V A A T P G V R G V V A V A G E L H G
UniRef90_R5Q2W4 G A S D I L S P D G P Y N L Y C S V E K T A A P Q A V G M G V M V C L D E I L Q A
UniRef90_E7QNI3 S A D R P S S D N V M N A V C S V E A A K A D C A E V L V C M H A S E S D D H R
UniRef90_UPI00046674B6 P I N M D V I T D A K T N L L D S F I Y A A D D N S E D V S I V F D G K V I L

UniRef90_A8YX67 G C R A V K V R T T N F D A F E S V N V P I A T V S S D G L V F N K D Y Q
UniRef90_D8ILX9 A R Y V T K T H T T N S V A S F R E S P T F G P I G L V S K H K V S F F E E L L R R H
UniRef90_UPI00047BEF38 G N R A T T K L I R T K S Y D N A S F E S F N Y P E L A S L Y D N K I E Y S Y P N A
UniRef90_R7D5F8 G T R A T T K L I R T K S Y D N A S F E S F N Y P E L A T A G L H I N F N E E R I R K A
UniRef90_UPI000369E4A9 G T R A T T K L I R T K S Y D N A S F E S F N Y P E L A F I N E D G I E Y N K K I R K E E
UniRef90_UPI00035E00A0 A R Y V Q K T N T T N S V A T F R Q T P D A G G P V G Y V D T K G S L R F L Q P A A P A
UniRef90_E5V3T0 A T W V T K T H T T N S V A T F R Q T P D A G G P V G L V S D K N E V I Y F Q K L L K
UniRef90_V4JAU4 G T K V R K M H S S R R D A F Q S V N D V P L A K V W P Y E G K V E M L R D D
UniRef90_K2CBA8 G N R A T T K I S H F S L D G F V S P N Y C L P L S V V G T E L R L J A D H C I V R
UniRef90_A6EJG3 G N R S T K Y N S E K F E R S P N Y P L A E A G V N L S F Y K N Y L S R Q
UniRef90_D9WDY3 A R E V R K A D A L R L N A F T S G S S G E L G V V D Q N Q I R I D R A P A R V
UniRef90_UPI000362D691 A R D V T K A A S F D L N A F E A P P F G P L G R V E A S G A V I M R R L Q V R
UniRef90_U4KL39 A S E V T K T H T V A L D N T F K S M F F G P L G I V D Q Q D V L Y Y R E
UniRef90_F4KNZ0 G N R T T K Y S A E H F E A F A S P N Y P H L A F A G I D I K Y S P S A I G F D
UniRef90_G0LVB9 G N R T T K I N A E D H F Q A F A S L N Y P E L I E S G L V L K V N S E E Y L L R N
UniRef90_R5BBM6 G N R S T K M S N D N F A F E T S N N Y P P L A K I G L G I H Y N E D A L L Y R P
UniRef90_Q3IRA6 G T R V R K M H T S R R D A F E T V G A E P L G N V D W E T G D V S F R R
UniRef90_A1K2J8 A R D V Q K Q R T H G F L D A F G A G E G A A V G R S D P A R P G L L V N
UniRef90_UPI0003B44113 G C S R A K K N H E T F G V D V F H S P N F P L G E I G R P I K L F E W R R R S
UniRef90_D2RSV6 A R S V T K T H T S A L E A F R S R N A G P V A T V D R N G V A I H R R R P R S E E
UniRef90_UPI00040C53C5 G N R S R K V D A D E F D A F D S P N F P P L L E A G I D I E L I A G K V I T E E P
UniRef90_UPI0004704445 G N R S T K Q N A D E F N A F D S F N Y P H L C E A G V N F T F Q E H H I L K P
UniRef90_F2K828 A R D V S K T S S F K T D T F K S P Y G P L G Y V V E G R P F F Y R D V I L R A
UniRef90_UPI0003FB6135 G N R T T K I N A E H F F A F T S P N Y P A L A E S G V H L K V N K E Y L L N
UniRef90_A6EM05 A N R T T K I N A E H F F A F A S L N Y P P L A E S G V H L D V N K G A L L
UniRef90_D2TZA7 G N R T V K S H A D G F N A F T S P N Y P P L I D A G I H I R C L Q S C P L P K
UniRef90_UPI0003B79E5D G N R T T K I N A E H F F A F N S P N Y P A L A E S G V H L K V E K E L F F K N
UniRef90_R6YM35 G N R T T K I N A E G F H A F D S F N Y P H L C D V G I N F V F H E H I L T P
UniRef90_E6TYQ5 A Q Y V K K E H A S N I Q G F N A F G F G Y L G I I D N D K L H L Y Q K P I K K
UniRef90_R5IYA8 G T R G K K E R T K S Y N A F S S F N F G Y I A I L Q E D H I L F Y L D D K A Q
UniRef90_G4NXE0 A R Y V K K Q H A S N V D G F S S P G F G Y L G T A D Q D E L A I H Q R L I K R
UniRef90_N6YAK5 A A L V T K R H P S A V D A F S T P E S A T D A Q L Q A L A P Y R Y S R I S L P
UniRef90_UPI000419DA60 G N R T T K I N A S H F R A F T S P N Y P E L V E S G V H L K L N S E I F L A P
UniRef90_P38986 G Y Y I T K T N A S L D S F N V R Q G Y L G N F V N N E I H Y Y Y P V V K P
UniRef90_UPI00035F4BF2 A K Y V T K T H T T N L S T F Q T P T H G P I G L V T K N E I L F F K Q A E D R
UniRef90_F0SW11 A M D V Q K T H A F N V A S I A A P G R G P I G S L L G D R M I F Y Y Q P L L R
UniRef90_D0LXX2 G N R A T K V S V G E F A F E S P N F A P L G R A G I D I D I D W R R V L P P
UniRef90_S5ZV36 G V R A R K M H T S R R D A F M S I N A V P L A E I N P Y T R E L K L K T D K Y
UniRef90_F9N3D9 G R E V A K L H T T D D G F A F A T A P N C L G H M G C I Q N G K A Y F Y T P C R K
UniRef90_A6FDH7 G N R T T K V H A D G F S A F A T A Q C E I L K V G I N I E V M L G D V K P L
UniRef90_Q481H0 G N R C I K A Y A D G F N A F D S P N M P V L L E A G I N I Q L V A G T L A H P
UniRef90_U2EY35 G C R A V K V R T T G F D A F E S V N C P Y A A K V F D N S R G L R I L N P S V V R
UniRef90_S6E492 G Y Y I T K T N A S L D S F N V R Q G Y L G N F V N N E V H Y Y Y P V V K H
UniRef90_G9RYP1 G T R A R K T Y S K S F G A F S S I N Y P V L G V V Q D N C L V P Y I R P Q A Q
UniRef90_UPI00040AE6BA G N R S T K V N A D N F N A F A S Y N Y P L L G K S G H I R Y D M A K I L
UniRef90_R5FEC0 G N R S T K I D A D D G F N A F D T F N Y P H L C D A G V N F S F A N H H L L K P
UniRef90_V6Z3N2 A K Y V T K T H T T N V S T F Q T P T H G P L G I T M K H E I L F F Q
UniRef90_D1RCL7 G N R T Q K I S S Q G F K A F D S P N Y A H L A S I G I D K V H K N L L K M R
UniRef90_J9G011 G R D V T K T N T N T A F T F K S P D L G Y L G Y I A G G K N Y F L R N P A M R
UniRef90_UPI00047C3AA2 A R Y V K K E H A S N I Q G F N S F G F G Y L G I I D N D Q V H V F Q K P I K R
UniRef90_UPI00031EA4BC G N R T T K I N A E H F R K A F T S P N Y P A M V E S G V H L K M R S E L F L
UniRef90_D5VQY4 G V R V R K S H S R R D A F K S I N S P I A K I Y P L E R R I E L E E V E
UniRef90_C5CKV8 A L D V Q K V H T Y R P D A F S S G D A G Y P V G Y V E E G A V R R L R D W P Q P
UniRef90_UPI000407728C A K Y V K K E H A S N I Q G F N A F G F G Y L G I I D N D V V H V Y Q K P I R R
UniRef90_F5SBF2 A R W V T K T H T S N V A T F Q S P S Q G P V L G T I T K K D I L F H Q S L S R G
UniRef90_C5T695 A Q R V Q K V H P Y R V D A F S S G D A G P L G W V E E G R V R L V Q D W P A V
UniRef90_W5YAN4 A Q E V T K A S T Y Q S L E T F R S P D F G P L G M I E A N R V F F G R A A G Y R
UniRef90_R6Z5R5 G T R A R K Q R T M S S N A F S V N F P P L A Y I R N D R I V R A G A G A T
UniRef90_I3C4L1 A N R T T K I N A E H F Q A F A S L N Y P A I A E S G V H L K V H H E Y L L K S
UniRef90_Q3AVY7 A Q R V T K A A T Q G V G A F A S P G S G P L G R V D D F G V H L P M A S G S W
UniRef90_E1KSV3 G N R S T K Q N A D E V L N A F D S F N F P H L C E A G V S F N F Q T H H I L K P
UniRef90_H3ZJL8 G C R T S K I R A L G L N A F M S I N Y P D V A Y V K G E E V I Y N L P Q K R F
UniRef90_R6WQ19 G N R A T K A N A D G F N A F E S Y N Y P H L A D A G V N I T Y H E E H I L K R
UniRef90_UPI000360ECBE A R D V T K T N A L R M D T F Q T R E Y G V L G V V D E T R L R L R A P A R A
UniRef90_U1QY67 G T R V R K N H T S R R D A F E T V G A A P L G A V D F E E R S V E F R R G Y R
UniRef90_UPI0003B4048B G T R V R K M H S S Y R S A F R T I G D I P L A K V T R D S V E L T K S S Y K
UniRef90_I0TA06 G N R S T K Q N A D E F N A F D S F N Y P H L C E A G V N F T F D E H S R I L V P
UniRef90_UPI0002F9E10C A N R T V K Q S A E E F A A F R S Y N Y P A L A E V G V N I T F H R D Y I H R
UniRef90_U2K5A3 G N R S S K V S A D Q F S A F E S Y N Y P H L A Y A G I E I R Y H D A V I A K A
UniRef90_R6VF80 A N R T T K R S A E D L S A F E S Y N Y P P L A E V G V N I A Y N Y P A I L R P
UniRef90_UPI000372593B G N R S R K V D A D G F N A F D S P N F P P L L E A G I N I R L N A G I L A E P
UniRef90_K2PT05 A N R T T K I N A E H F Q A F T S L N Y P E L V E S G V H L K V H K E Y L
UniRef90_X5D8Y6 G N R T K R D A E L F S A F R S V N Y P E L A V A G I D I K F S T E F I Y Y P
UniRef90_U1KTQ4 G N R A T K M H A D G F A A F G S P N M S P L A K V G I N I E L I A G Q L S P S
UniRef90_Q0I6R9 A R A V T K V A T Q G V G A F Q S P D L G P L G W V D D S G V H L P V A S G
UniRef90_E1GVL0 G N R S T K Q N A D E F N A F S F N Y P H L C E A G V K F K F N T H N I L T P
UniRef90_K4RNL0 A R E V S K T N T T H T D T F K S L N T G S I G S V I Y G Q V R F Y M Q P L R K
UniRef90_UPI0002F6F759 G L W V A K R H V S S V I A F D S P L A G A V G E V A D D Q S V Q W F R A A G R A
UniRef90_C6CVN5 A R E V T K T N A H R L D T F D A P M F G P L G Y V D D P A V R I Y R A P A R G
UniRef90_D5QHS4 A S S V T K A S T Y R L D T F R S P D F G P L G V I E G D V V C F A R Q S V A R
UniRef90_M0DDE3 G T R V R K N H T S R R D A F E T V G A K P L G E V D Y E S E T V E F R R D H A
UniRef90_U7D949 G V K V R K M H T S R R D A F Q S I N D Y P L A L I Y P E K N K I E I N K I V
UniRef90_UPI00047E27FE G T R A V K V S T M A F D A F E S V N A D Y L G Q I F A D G T R I F H P Q H I
UniRef90_F3KN34 G T R V R K N H T S R R G A F Q T I G D N P A F I A N D Q I Q R N K K E
UniRef90_U7VA71 G N R A R K I D A T N Y F G A F A S P N Y P A L G E I G C I K I H D K V L D M
UniRef90_U4TFF7 G N R S Q K T Y A D R L N A F R S P N F P P L A E L G T E I K I R E H L I L P P
UniRef90_B9WN17 G F Y I T K S N A N S L D Q T F K S I G Q G Y L G N F V N N E I R Y F Y P P A K P
UniRef90_P30363 A R Y V K K V H A N S L Q D G F D V F G F G Y L G I I D N D K V Y V Y Q K L A K
UniRef90_F0Q2B2 A Q R V Q K V H P Y R L N A F A S G E A G P L G W V E E G R V R L A A G W P S A
UniRef90_R5Q2W4 P G E V M K T H S A N P A T F Q S P W W G P L G Y V D I D H I V W R R K V L G V
UniRef90_E7QNI3 G T R V R K N H T S R R D A F E T V G A E P L G E V D Y D A E E V T F R R E Y D
UniRef90_UPI00046674B6 G T R A K K E R A K S Y N A F S S I N F P Y P A V I Q D E Q V I R Y I P P V R H

UniRef90_A8YX67 P R E K T G A P S L N T D L D S N V S L V K L F P G F D P K L L F A M V D S G C
UniRef90_D8ILX9 T A L P I K D V V N H V Y L L K K A Y A G M D N E L F D F I A S D N A
UniRef90_UPI00047BEF38 Q T D K K K E I K L L D T S L C T D V S L V K L F P G I K P E Y F D F L K D H G L
UniRef90_R7D5F8 D M S L P L K P H Y L F D T N V L I L T L F P G I K E N M V J A N I L N P G L
UniRef90_UPI000369E4A9 Q H K F T V D T S L C T D V L L R L H P G L K P E M F D A L K G L Y
UniRef90_UPI00035E00A0 R G A K L K L P D A P P L K R V D I I Y S H A N M D A A E V E D A V K L R G A
UniRef90_E5V3T0 F K G R S K G L E P E N G F D E R V A L I K Y Y P G M A S E V I D F L V D R G Y
UniRef90_V4JAU4 F K G R S K G L E P E N G F D E R V A L I K Y Y P G M A S E V I D F L V D R G Y
UniRef90_K2CBA8 F K G R S K G L E P E N G F D E R V A L I K Y Y P G M A S E V I D F L V D R G Y
UniRef90_A6EJG3 P V E P L K V H T N F N A N I G V L K L Y P G I S A Q A V Y A L T K S G V
UniRef90_D9WDY3 Q Q G K P G W K T P F D P L P K V E I A Y S Y Q G A G P E A V K A F A D A G A
UniRef90_UPI000362D691 G R V L P S P D L S S T D A L P R V E I L S Y A G A D R T A I D A L V A A G C
UniRef90_U4KL39 S T K S K Q D F S F S K L N D S V E I V K I S A G T T S N I I N F L V S E G V
UniRef90_F4KNZ0 E P A L S Q A W R P A F D G H V V L K L F P G L S A S L L D H I L H T P L
UniRef90_GOLBV9 K G R K K F T V H K E M D Q N V A L L K L F P G L G P L V L Q S V V R P G L
UniRef90_R5BBM6 A P S Q D T K L K V H Y G L D T G V M F V D L F P G M R A E L L S H V Q L A P G I
UniRef90_Q3IRA6 P V A D R G D A D P R L Q G E L N T D V E L V T F V P G T D A D R L A V A E G A
UniRef90_A1K2J8 R D G G S C A A A L J A S A A L P A V E R L V V A A G A S P A L L D A V R E S G A
UniRef90_UPI0003B44113 R A K L Q Y H P H F E P A N V I V L V K L F P G L P T T A L L A M I E S D G A
UniRef90_D2RSV6 T R L E P L R I D A T S L E A T V Y T I K S G S A V T G D L V A A A L E R G A
UniRef90_UPI00040C53C5 T T V E P L R L S N I T A Q P V G L V S L Y P G I S A D M L R N T L R Q P V
UniRef90_UPI0004704445 D F N K P M L P H P G L D N N L M V F S L Y P G L E E N I V K H A L D A P G L
UniRef90_F2K828 N T V N S Q F D I R K I E K L P R V D T Y Q Y T N S D M T A F N A F V K A G A
UniRef90_UPI0003FB6135 H A N D G K K L S V G L E F E D N V A I V K M F P G L N V K V M Q A I V N T P L
UniRef90_A6EM05 H P K K E K L S V H L E L E D D I L L V K M F P G I T E K T I N H F V S K G T
UniRef90_D2TZA7 N D G N F S S H K I T P Q A I G V V T I Y P G I S V Q C I E N I L L Q P T
UniRef90_UPI0003B79E5D K S S K D L V Y H K H L N N N V E I V K L F P G I N E A A M N A V I N T P L
UniRef90_R6YM35 D Y S K P M V P H L K L D P N V E I V F S L F P G I Q D G I V R H V I E S P L
UniRef90_E6TYQ5 C K L I P V S E S F H L K L D P N V E I I K A Y L G A D E F F I N A C M E A N V
UniRef90_R5YA8 V T E P L T F Y H Q M D S S V G L M K L T P S A D A S L L D Y A M A A H Y
UniRef90_G4NXE0 E T Y Q L I Q P L P N V E I L I K C S L G S D G K F I D Y A V K C G S
UniRef90_N6YAK5 D S V Q V L P P V E L L T V G A G S S A A L J A S A V V R A L A R A S L L T G A
UniRef90_UPI000419DA60 N T T G S L K R V H T T M D T N V A I I K M F P G M S E A V L S A I L V A K L
UniRef90_P38986 Q G C H K F V D G K H F K L P E V I L Y A H Q A F P A I V N L V A D K Y
UniRef90_UPI00035F4BF2 V R F D L K E V S G T V P I V Q A Y T G M G D T L L A N L H S E Q I
UniRef90_F0SW11 Q H C E P E H L N H V N V F L V K T G I G E L P L P S V L P D Y
UniRef90_D0LXX2 R A R A S E A V Q V P V G S A N V A A F R L F P G L K P A L L E A V L A A P V
UniRef90_S5ZV36 K G R E K A V E A Y P R F S D K V A L V K F Y P G M T P D I F S F F S E R G Y
UniRef90_F9N3D9 H T S D S E F L R E E V E L P Q V G I V N L Y G G M D T E I L T M V A S R S
UniRef90_A6FDH7 I E K T L T V S S I T P Q E I A I V T L Y P G I S T E V I F N I L L Q P V
UniRef90_Q481H0 V D K V E P L Q L S T M T P Q P V G V V H L Y P G I S S E V I E N V I K Q P V
UniRef90_U2EY35 P A A G L C Q L K D Q L D C R E L I I K L T P G F N P D I F D M L L G M D Y
UniRef90_S6E492 K F K L R L E E Y M P T P R F E V C I I Y A H Q S V D P E L V D L V A K R Y
UniRef90_G9RYP1 A E P V F Y D A L N S R V A L L K L T P G A S A G Q L R F L L D E N G
UniRef90_UPI00040AE6BA K P D Y E K K I V R F H Y L M D S E I I F K L F P G I Q R K T V D A I L N K E G V
UniRef90_R5FEC0 D F N K P M I P H Y G L N S N V I F S L F P G V Q E C I V R E V L K K E L
UniRef90_V6Z3N2 T A E P R V R F D L D H I Q G T L P I I K A Y A G M G D G I L R L L R A S H I
UniRef90_D1RCL7 P Q K P F H L Q T I E P Q F I A N F R L E P G F A T D V L D A Y L L N Q P L
UniRef90_J9G011 H T Y Q S E F D V S N L D K L P R V D I L Y T H A N D D R V L A D A A I A A G A
UniRef90_UPI00047C3AA2 E Y F E I K S S I P Q V E I I K Y M G A D G K F I K A A R E S G I
UniRef90_UPI00031EA4BC A K N K G K E L V V I K N L D N N V A I V K M F P G M S E A V L S A I F E I P L
UniRef90_D5QY4 S S E K R G E I E I N T N L E K V A I I K V F P G M D G E I I N Y V V D K G Y
UniRef90_C5CKV8 M G A V P K I P E P K A G R W P R V E I V T S H A G A S G A L V D S G V A E P V
UniRef90_UPI000407728C E T Y E I K A P I P A V D I I K V Y L E A D G K F I D A S V D S G V
UniRef90_F5SBF2 R V F P H L P V E G V Y L V K A A A G T D D L L I Q A A L Q S K A
UniRef90_C5T695 L V D Q A P F A I E K I T N W P W V E L V V S H A G A S G A L V D A L V R D G V
UniRef90_W5YAN4 R H V G W P K G Y G S G G E I P R V D I S Y S H A G A D G V G I R A F V A A G A
UniRef90_R6Z5R5 P G A E A P L P V F R T L D D R A V L K L T P A G L S P H L F R A L K A D Y
UniRef90_I3C4L1 T R K K L K V H K Q M D A N I A L V K L F P G I N E N T L G C L T N P T T
UniRef90_Q3AVY7 Q V P F A G L A L P E Q W P V I V Y G S V E P E P L L L T A C L N A R V
UniRef90_E1KSV3 D Y T K P M A P H L E M N S N V F S L F P G A E E N I V K H I L D A P L
UniRef90_H3ZJL8 K P K G E P V L D T K Y E P R V V F I R L T P G L D G N A I D A L V K A G Y
UniRef90_R6WQ19 D F T K K L P H F A L D P N V T V F T L F P G V Q E Q I T R H V I E S P L
UniRef90_UPI000360ECBE S L C D K P K E W A T P D A L P R V E A Y S Y Q D A G G E A I T A Y A D A S G V
UniRef90_U1QY67 E R G A T D L D I A P D L I E T E V S L V K F T P G A G T E Q L E A V A D S
UniRef90_UPI0003B4048B P R R K D K K V T L L P Y F E E K V S I V Y Y P P N M R P D I L D S L V D N G Y
UniRef90_I0TA06 D Y S K P L V T H T Q L D N N V I I F S L F P G M E E G L M H L L F D A P L
UniRef90_UPI0002F9E10C P A H A D A E L R V A A A L D D R V L V I R L F P G L R E Q V L R A M L S I T G L
UniRef90_U2K5A3 P Q G R T L A V H P H F D P N V E V I K L F P G I T E R G V V E S I L S L P L
UniRef90_R6VF80 E T F G E P L R V A T R L A D G I E V I K L F P G L G E R V L R A M L S A P L
UniRef90_UPI000372593B D A T P L V V S Q V S A Q P I G L V S L Y P G I S H E V L K N T L Q Q P V
UniRef90_K2PT05 F K P K K K Q L K V H K N L D P N I A L I K L F P G I T E N T L N C V L T N P L
UniRef90_X5D8Y6 E N K G I L K V N T D F D D N V I L K I F P G I N Q N V F N S V L N P G L
UniRef90_U1KTQ4 L N N K L D V T K I T P Q Q I A V L H L Y P G I S V D L I K S M M T D S L
UniRef90_Q0I6R9 F R S V P F A T L A L P D Q W P E V A I L Y G C V N P S L A L V S S L F Q A G V
UniRef90_E1GVLO D Y D L P M S P H T T L D N N V I L S L F P G I K E G I F D H I L D Q P C
UniRef90_K4RNL0 H T F S S V F D I A N I K S L P R V D I L Y A H E N D N P E F V Q A A L A R G T
UniRef90_UPI0002F6F759 P T V A W K T P S T W P R V D I A V A Y A G V D E T A L R A F V A A G A
UniRef90_C6CVN5 W A T P F D L K T I S K D S L P V V E I A Y S Y Q E A G G A I R G F V E D G A
UniRef90_D5QHS4 R H I D G D V L A R L R H G V P R V D I C Y S Y S G G D G A A L A F H A A G A
UniRef90_M0DDE3 D R G E T D F S A A P D L N E N V D L L K F T P G M D V D A Y A E F L V R D L
UniRef90_D7D949 E R D K S K D P L E N K F D D K V V M I K A Y P G F Q P E I I D L V D K G F
UniRef90_UPI00047E27FE S C D P T S P T I L N D D F C T D V F L K L L P G T R P E I F D S L A D M G Y
UniRef90_F3KN34 D F F K V Y K D F Q P K I K I N T K V A L V K Y H P G Y D P N L L E K I I E M N Y
UniRef90_U7VA71 P K N E F T D S S I N S N I L I V E I F P G M N P Q Y I K T L V E S H S E I
UniRef90_U4TFF7 S T P A I Q L P A S W Q D A K I A A F R L F P G F S M T I L E H V L A Q D I
UniRef90_B9WN17 H P S I G G A N N G T M P S L P E V T I Y A H Q G L N N E I F K F I I N D K S
UniRef90_P30363 R D V H H Q L R P L P A V D V K C Y L D G D G K F I R A A V R E G V
UniRef90_F0Q2B2 E A R A A L E A L R N G A E W P R V E V V S H A G A S G R M V D L L V A D G V
UniRef90_R5Q2W4 K R F H P Q A L T A R V D L I K C M T G S T R D Y A V N Q G V
UniRef90_E7QNI3 E R G T Q E L A L A D D L E S D V E L L K F T P G M G V E A L D Y A D G K
UniRef90_UPI00046674B6 Q G E V R F Y H E M K D S V V L K L V P G M R N G V L T Q I L D F Y

UniRef90_A8YX67 Q G I V I E A Y G L G G M H R N M V A A I G K L T R Q G I P V V I A S S Q C L Y E
UniRef90_D8ILX9 N G L V I E A Y G L G G N L P P H V L P S L K K E I T D K S N I P V V V L V S T R Q C C F N E
UniRef90_UPI00047BEF38 K G I V V E K T Y G G S G G N A P P F H G R N L L K E E L T E A R G V I S V V V V T T Q Q C C L A E
UniRef90_R7D5F8 K A V V L E S T Y F G S G N A P P F W F R N L L K E N V V A R S G V I V I V N I T T Q Q C C L L A
UniRef90_UPI000369E4A9 K G I V I E S Y F G S G G N L P P F E E R N L L E E L V E S G V V V V V I T T Q Q C C L L E
UniRef90_UPI00035E00A0 K G I V L A E A V L G D G N S L P P K G A T V D A L A A A A K Q D N I V V V V F S S R A F A F N G
UniRef90_E5V3T0 D G L V I E A E L G A G N S L P P P K A T V P A I K Q L L D D A I K Q Q L D D N I V V V V R S S R A F A F N G
UniRef90_V4JAU4 H G I V I E E G T G F G H V A N R L I P S L Q R A V E S G V P V V V I T T Q T Q L F G G
UniRef90_K2CBA8 R G V I L E A Y F G S G N T F P T E G I Q D A V L R D E T I A I K Q Q L V T V I G T Q C C T Y R G G
UniRef90_A6EJG3 D A I V L E T F G S G N T P T W F I E S L R E A I A S N K L I I D I T Q C C Q R G G
UniRef90_D9WDY3 A G V V T A G T G A G G L S P A M T E A R D D A V K N G V L F A S A S R T G S G G
UniRef90_UPI000362D691 A G I V S A G L P R G N V P A N A E A Q G L A D A V R A N G V I T V V Q S T R R A A F R G G
UniRef90_U4KL39 S G I V E A L G P R G N V P P T V V P G I K N A I K N G I P V I L T S R R A A F R G G
UniRef90_F4KNZ0 R G V V L E T F G S G N A P T S F L S A I K G A V A R N G I T I V N V T Q C C Y S G G
UniRef90_G0LBV9 K A L V L E T Y G A G N A P T W F L D L R E A K E K N H I V V V N V T Q C C S V G G
UniRef90_R5BBM6 K G I V L K T Y G A G N A P T W F T D A I K Q A V N D N K V V L N V T Q C C V N G G
UniRef90_Q3IRA6 D G L V I E G T G L G H V N T D W L A R I D E L T D D G T T V V M T S Q C C I E G G
UniRef90_A1K2J8 A G A V L E A F P G N G S V P E A W K P A I D A A L H A G M V L R A R V P A P A R S
UniRef90_UPI0003B44113 R G F V I E A F Y G G P G N V P A S L M P F L K R A R K Q H I P V V V I T T Q Q M E R S G
UniRef90_D2RSV6 D G L V V E G T G L G N V T A S G L A D A A R D A I E A G V P V V V T T S R Q C L E G G
UniRef90_UPI00040C53C5 K A L V L L S Y F G V G N A P P Q N I L K D Q F K H A L D N D I V V V N C Q C C V S R G G
UniRef90_UPI0004704445 R G I V M R S F G S G N A P P W L L K Q L K E A S M R G L V V V N G I L V V V N S S R T G S G G
UniRef90_F2K828 R G I V I A G T G N G N V S D Q L L P E L A N L G D K T L L V R S S R T G S G G
UniRef90_UPI0003FB6135 K G I V L E T Y G A G N A P D W F I G L L Q R A I E S G L H V V N V T Q C C S G G
UniRef90_A6EM05 K G V I L E T Y G S G N T E P W F I K A L Q E L M D K S G I P V V V N V T Q C C S G G
UniRef90_D2TZA7 K A L I L R S Y G V G N A P S Q L L K C L E K A C Q Q D I V V N V T Q C C L S G G
UniRef90_UPI0003B79E5D K G I V L E T Y G A G N A P T W F L S S L Q E A V N K G L H I V N V T Q C C L S G G
UniRef90_R6YM35 R G I V M R T Y G S G N A P P W L M R L L D Q A A H R R G V N I I N I S Q C C L T G G
UniRef90_E6TYQ5 D G I I I E G V G R G Q V S P K M M P K I Q E A I K K G I R I V I T T A A E E G
UniRef90_R5IYA8 D A V I I E S F F G V G G L A P S Y Y R A V A H W I N L G K T V I M T T S A D E N E G
UniRef90_G4NXE0 A G I I I E A P G R G H T A P A I L E S A K K A V E K G I P V V L T T S A D E N E G
UniRef90_N6YAK5 A G L V L G L P G N A S L P Q S W E A A I E E E L P A S V P V V L A S R C C G G G
UniRef90_UPI000419DA60 K G I V L E T Y G S G N A P T W F L N E T K K A I L D G L H I V N V T Q C C S G G
UniRef90_P38986 D G I V L A T M G A G S L P E E V N E T C M K L S L P I V Y S K R C S M D G
UniRef90_UPI00035F4BF2 S G L V I E A M G A G N V P P Q A A E E I R K L I Q K G L P V V L V S R C C F N G G
UniRef90_F0SW11 D G F V I E G T G L G N G Q A W M E P W I K E Q L A Q K K P V I T T R C C A E G G
UniRef90_D0LXX2 Q G V V L E C Y G A G N A P P A F M R V I A E A T A R G V V V L V D V S Q C C L R G G
UniRef90_S5ZV36 K A L V I E G T G L G H I N E G L I G A V R D I T V Q Q G V F V A M T S Q C C L W G G
UniRef90_F9N3D9 K G L I V L G G F Y G H G Q A V R D T L K K L T I P K V R S S R I C I G N G
UniRef90_A6FDH7 Q A L I L R S Y G V G N A P A E L L N A L E A A N Q R G I V V V N L T Q C C I K G G
UniRef90_Q481H0 K A L I L R S Y G V G N A P Q D L L A C L R K A K E Q G I V V V N C S Q C C I K G E
UniRef90_U2EY35 R G I V I E A F G L G G L H F I H R D K L Q K V T E A G I S V V V C S Q C C L Y E
UniRef90_S6E492 K G L V I A T M G A G S L P K A V N E R C L A Q T I P I V Y S K R S M D G
UniRef90_G9RYP1 D A V I L E S F G P S G E T G E F Y E V I R K A S A K G K T V V V T T Q V Q N E
UniRef90_UPI00040AE6BA K A I V L E T Y G S G N A Y E W F L J R S L Q D A V K R G L T I V N I T Q C C E M G G
UniRef90_R5FEC0 R G I V M R S F G S G N A Q P W L L R S L R E A A E R G V V V I V N I S Q C C V A G G
UniRef90_V6Z3N2 D G V V I E A L G A G N L P P E A A K T L I T L A Q E G L P I V L V S R C C F N G G
UniRef90_D1RCL7 C G L I L E T Y G A G N A Q P R F L K Q L T D A C A R G V I I I N C T Q C C Q Q
UniRef90_J9G011 K G I V H A G S G N G S I H G Q T E P A L V I E A
UniRef90_UPI00047C3AA2 T G I I L E G V G R G Q V A P K M M T E I E K A I A Q G M K L V I T T S A E E G
UniRef90_UPI00031EA4BC K G V V L E T Y G A G N A P T W F L J A L L V K A I L N N G M H V I N V T Q C C S G G
UniRef90_D5YQY4 K G I V L E G T G L G H A P E Y I F N N I K Y A I L D N N V I V C M T T Q T I N G G
UniRef90_C5CKV8 R G L V V A A T G N G T V H H A L E A A A L R A Q D A G V A V L R A T Q C C A N G G
UniRef90_UPI000407728C K G L V L E A G V G R G Q V S P R M M E S I V R A I E S G V V V V I T T A S E E G
UniRef90_F5SBF2 R G L V V E A L G G Q N L P P A M L P S L G K R V V G S G I P T V L V S R C H H G
UniRef90_C5T695 R G I V A A A T G N G T L H H A L E A A L R A Q S A G V R V V R S T R C C P Q G G
UniRef90_W5YAN4 R G I I S A G M L P G M C C G P A E N V A L D E A V A R G V S V V Q A S S G Y C
UniRef90_R6Z5R5 D A L I L E E Y G L G G C G P S F N K E A I F D W V D S G R S I V L T T Q S V P E E
UniRef90_I3C4L1 K A I V L E T Y G A G N T E K W F D D L L K K A I K S G K T I V N V T Q C C S G G
UniRef90_Q3AVY7 P G L V F T G T G A G Q L S A A E R S A L Q A V S G K R P L M L R A N R C C I S G G
UniRef90_E1KSV3 R G I V M R T Y G S G N H T P W L M K L L K E A S Q R G V V V T V N V S Q C C I S G G
UniRef90_H3ZJL8 R G L V L E G Y G A G G I P Y R K R D I L S K I R E P Q I P V V M T T Q A L Y D
UniRef90_R6WQ19 R A M V M R T Y G S G N H S P W L M R L L K E A T S R G I T V V N S T T Q C C D A G
UniRef90_UPI000360ECBE K G I V T A G T G A G G I S P K Q S A A R T D A A S R G V V F V S T T R T G S
UniRef90_U1QY67 A G I V L E G T G L G H V N T A W I P E I E A L T A S G T P V V M T S Q C I T E G
UniRef90_UPI0003B4048B R G I V L A G T G L G H V N K P L Y P A L E R A S E K G V A V Y M T V Q T L W G
UniRef90_I0TA06 R S I V M R S Y G S G N A P P W L M K L L K Q A S E R G V I V V N I S Q C C I S G G
UniRef90_UPI0002F9E10C R A V V L E T Y G A G N A P P E F I R T V R E A V A R G L L V M N V T Q C C I S G G
UniRef90_U2K5A3 R G V V L E T F G S G N M L P T W F L D A L R S T V A R G V V I V N I T Q C C V T G G
UniRef90_R6VF80 R A V V L E T F G A G N A P T W F I R T L Q E A L D R G V I V L N I T Q C C G G G
UniRef90_UPI000372593B N A L I L L S Y G V G N A H P A L L E Q L Q R A R D N Q I P V L N C T Q C C M R G G
UniRef90_K2PT05 K A I I L E T Y G A G N A P T W F E K A L K N A V E S G K I V V N V T Q C C S G G
UniRef90_X5D8Y6 K G V V L E T F G S G N V P T W F L I N A I K R T I K R G I V V L N V T Q C C Q G G
UniRef90_U1KTQ4 K A L V L L S F G V G N A N P E M L L E L F S S A T Q A G L V I I N L T Q C C I Q G G
UniRef90_Q0I6R9 K G M V W T G T G A G Q L S A G E R E A I K T W P G V L P L M L R A N R C C I S G G
UniRef90_E1GVLO H G I V M R S Y G S G N A Q P W L I K L F K K A T A R G V V T I V N I S Q C C I S G G
UniRef90_K4RNL0 E G L V S A G V G N G N L F P S V L S A L E A A K K G V V V R S S R V G S G G
UniRef90_UPI0002F6F759 Q G I V H A G T G N A N T P T A Y R A F I Q S L P A Q Q G V L V A R C A R F T G G
UniRef90_C6CVN5 K G I V T A G T G A G G I S S K M S Q A R S A A I Q K G V V F V T T T R T G S G
UniRef90_D5QHS4 R G I V V A S M L P G M C A P A E N A Q I D A V C A Q G V A I V M S S Q G S S G G
UniRef90_M0DDE3 D G L V V E G T G L G H V I H T E F I P V L E E L V E E S G T V V A M T T Q C C I E G G
UniRef90_D7D949 H G I V I E G S G L G H I S N R V I D S I K R A V E E S G T V V V M T S Q C C L F G
UniRef90_UPI00047E27FE R G I V L E A F G A H Y I N R D L H S R L A M L A E R N I A V V V C S Q C C L Y E
UniRef90_F3KN34 N G I I E E G T G L G H I G K T M Y E N V K S A K E K S G V F L G M T S Q C C I D G G
UniRef90_U7VA71 K G V I L K T Y G N G N A P T N F V S A L K S I I K S G V V V N I T Q C C A T G G
UniRef90_U4TFF7 N G I I L E S Y G T G N A P N Q F L K A L Q Q A N N R G V V I V N C T Q C C L Q G G
UniRef90_B9WN17 Q G I I L A T M G A G S M S E K T N Q Y L S D L L N P N Y P I V Y S K S M D G G
UniRef90_P30363 E G I V L E A G V G R G Q V P P N M M A D I E Q A L N Q G V Y I V I T T S A E E G
UniRef90_F0Q2B2 H G L A V A A T G N G T L H H Q L Q A A L E R A Q A G V A V R V A T R C P L G G
UniRef90_R5Q2W4 K G I V I E G F G R G N V P P A M V P R I A D A I K K G L A V I T T R T P G G
UniRef90_E7QNI3 A G L V L E G T G L G H V H S D W V D G I E G L V D D G T V V M T S Q C C L G G
UniRef90_UPI00046674B6 D C V V I E S F G P D S I T K E V Y E G M K K W K E E G K L I V M T T Q V V S E

UniRef90_A8YX67 R S D L T K Y E V G I S A C D M T S E S A I T K L M W A L G Q G M N L H E V A D
UniRef90_D8ILX9 I A E D V Y S Y E G I F C Q G L N T S Q K A R I K L L V G I S A G L K G K D V A N
UniRef90_UPI00047BEF38 G E D M E R Y E T G I R S R N M N T E A I V P K L M W V L G K T H D P K K V V R Y
UniRef90_R7D5F8 T V E M E R Y E T G I S R G H D S T V E A I V P K L M F L L G H G M S A H E V V R Y
UniRef90_UPI000369E4A9 G E D M S I Y E V G I R S R N M N T E A I V P K L M W A L G Q S T P D L H E V V R Q
UniRef90_UPI00035E00A0 F V N R D D D K L G F A V I S L D L N S P Q K A R V L L E L L I A N G T E P S A V L Q E E
UniRef90_E5V3T0 V T T Q D V D Y G V T G I F T T G L S G Q K A R I K L L V L L E A N I E D K C K A L L E E R
UniRef90_V4JAU4 R V N L N V Y S T G I P A E D M L P E T A F V K L S W V L A R T S R D M D E V I R R K
UniRef90_K2CBA8 S V E Y E Q Y Q G G F F A K D M T S E A L I K L M W C L G Q S S D F D E I Q K R
UniRef90_A6EJG3 S V A L G K Y E T I I S G Y D M T F E A T V T K L M Y L M G Q G Y S N A E I A R K
UniRef90_D9WDY3 A V Y D P H V R G V V G A Q D L T P Q K A R I L L T L S L A R T T H N E D R I Q H
UniRef90_UPI000362D691 M V L P Q R A A G V L A G G D L S P Q K L R I L L M L A L T Q T R D P K L L Q Q
UniRef90_U4KL39 R V L D T Y G Y E G I L G G N L S S Q K A R I K L M M L L S S K K R D V K D Y V Y
UniRef90_F4KNZ0 S V V M G R Y E T G I G G S D M T T E S A T T K L M Y L L A Q D L S P E E V A H
UniRef90_G0LBV9 S V S M G R Y A G V I N G K D T T E A A A V A K L M Y L L G S N V S P K L F K S E
UniRef90_R5BBM6 R V H K R Y N E G V V S G R D M T F E A A I T K M M F L F G L G L D N R Q V A E
UniRef90_Q3IRA6 R V C D R V Y D T G I E A G D T L P A T A Y V K L M W A L E H A D S V A E
UniRef90_A1K2J8 P V T G H D T R A S L L S A G D L P P S K A R V A L M L A L A
UniRef90_UPI0003B44113 Q T N P H A Y E A G I P S Y D M T F E A A V T K L M W V L G Q V Q S L P E V R R
UniRef90_D2RSV6 R V A P V Y G G D G I F A N D L T A Q Q A R L R L A L A L E A S D D E D A I R R E
UniRef90_UPI00040C53C5 R V N M S G Y A N G H V T G G D M T P E A T L A K L H Y L L S K N L P L K E L K R Q
UniRef90_UPI0004704445 Q V E M S R Y D A G V L T G Y D S T V E A A V T K L M H L L Q A R F S D D T I R R Q
UniRef90_F2K828 S L Y R G A S Y D F V A V D D Q T P V K A R L L T A L A L T Q T S D P V E V R E D
UniRef90_UPI0003FB6135 R V N M G H Y E T V I S G A D T T E A A I T K M M Y L L G R N H P D S H A K F F K D
UniRef90_A6EM05 S V A M G H Y E T V I S G K D T T E A A I A K L M Y L L G R N D S K E D F K N
UniRef90_D2TZA7 R V N M G Y A T G I S G Y D M T F E A T L T K L H Y L L S Q S L S V D D I R T
UniRef90_UPI0003B79E5D S V N M G Q Y E T G I S G K D T T E A A I T K M M Y L L A Q N V S A T S F K T
UniRef90_R6YM35 C V E M E R Y E G A G I S G R D S T V E A A V T K L M Y L L Q G R Y A D N K I V R Q
UniRef90_E6TYQ5 A V Y T T Y D Y L G S A G K D Y D S K K A R I K L L C L I R A N E D I N K V F D
UniRef90_R5IYA8 G S N M S V Y E V G I L E A Y D M T L E A A V T K I M W I L T Q T K E P A K V R E
UniRef90_G4NXE0 E V K G V Y G F K G I L G A Y S Y D S K K A R I K L A V L L A A G Q K I D E
UniRef90_N6YAK5 V T A D L A G R N W L Q C V A L D P L K A R V R L T V G L G A G L R G V R L K R S
UniRef90_UPI000419DA60 S V N M G Q Y E T V I S G R D I T T E A A I T K L M Y L L G H N I N P K E F Q K
UniRef90_P38986 M V P L S K E D N L I A S G Y L T P E K S R I L L Q L C L A G N Y T L E E I K H
UniRef90_UPI00035F4BF2 I A E P V Y A Y E G M F V K E L N A P K A R L K L L I A L N A G L E Q A L K D
UniRef90_F0SW11 W V D S M Y A Y P G I P G H G V N G A V K A R I K L L A A L G S K M T N K E I K K E
UniRef90_D0LXX2 S A D L R L Y A T G V G G Y D M T F E A A L A K L A Y L F E K G H T P E R V K E R
UniRef90_S5ZX36 R V N L N V Y R T G V P A E D M T P E T A Y V K L S W I F G Q T D D D E A K R N
UniRef90_F9N3D9 I V S D V K E G F I V S D S L P V K A R I L L M L A L S Q Q E R S R E E L K N
UniRef90_A6FDH7 K V N M G Y A T G I S G Y D M T T E A A I T K L H Y L I S K N L S E E L K V
UniRef90_Q481H0 T V N M S G Y A T G I S G H D M T L E A T L T K L H Y L L S K N L S Y D E M C Q
UniRef90_U2EY35 A S D F S V Y E T G I A Q S R D M T S V A A V T K L T W A L G Q T Q T P A Q V R A
UniRef90_S6E492 M V P N V K Y S N V I A S G Y L S P E K S R I L L Q L C L T K S Y T Q E A R N
UniRef90_G9RYP1 G S D L S I Y N V G H S A F D M T T E A V V A K L M W L A L T D D P N E V Q K
UniRef90_UPI00040AE6BA C V E M Q R Y E T G I S G Y D A T V E A T V T K L M Y L L G H K Y S R E E I
UniRef90_R5FEC0 S V V M G R Y D T G I S G Y D A T V E A T V T K M M C M L A R Y A D A N T V R K
UniRef90_V6Z3N2 I A E P V Y A Y Q G G G A D E L N S Q K A R L K L L I A I N A G L E G Q T L S E
UniRef90_D1RCL7 G V E M S Q Y A T G I S G H D M T P E A A H C K L L Y L L S K R L D I S K I K Q
UniRef90_J9G011
UniRef90_UPI00047C3AA2 S V Y T T Y D Y E G I L G S D N D S K K A R I K L A V A L A S N L N E I R
UniRef90_UPI00031EA4BC R V N M G Q Y E T V I S G K D T T E A A I T K L M Y L L C Q N S A Q K D F K T
UniRef90_D5YQ4 S V N M N V Y S N G I G C E D M L P E V A Y V K L M Y L L G N Y K S E E V K E
UniRef90_C5CKV8 R I L P K S G D P L R D A G A L T P V K A R I A L M L E L M E T
UniRef90_UPI000407728C A V Y P T Y D Y E G I L G D D D D S K K A R M K L A V A L A S G
UniRef90_F5SBF2 F V E D T Y G Y D G I F A N G L N G Q K A R I Q L M A A L H V S R D P A R L Q T
UniRef90_C5T695 Q V L P R P G D A I P D S G G L S P V K A R I S M V L D L
UniRef90_W5YAN4 G V V R R Q E L C Q R A A G H M R P R Q A R I L L A L M L M T G A D G D A I Q T
UniRef90_R6Z5R5 G L D L G V E V G R A G G D M S T E A I V A K M W A L G Q T R D P K D I E Q
UniRef90_I3C4L1 S V I M G Q Y A G V I N G K D T T E A A I T K L M Y L L G N N I Q A K V F K T
UniRef90_Q3AVY7 P V Q D D D E R Y D T G I S A G S L N P Q K A R V
UniRef90_E1KSV3 Q A D M N R Y D T G V S G Y D T T V E A A I T K L M L L Q A Q Y D D P E M V R Q
UniRef90_H3ZJL8 G V D L T K Y E V G I P A K D M T K E T T I T K L M W A L G H T K N V E E V K E
UniRef90_R6WQ19 A V E M G R Y D T G V S G Y D S T V E S A L T K L M F L I G Q H N D V N V R
UniRef90_UPI000360ECBE G S V Y G G S G N V I A G E D L L P Q K A R L L L T S L A V S K D V N Q I R G
UniRef90_U1QY67 R V C D R V Y D T G I E G E D M L P G T A T V K L M W V L A N T E S G S V A E
UniRef90_UPI0003B4048B Y V H M Y V Y E T G I P A E N M L P E V A Y I K L G W A L G Q T D D D K V K E
UniRef90_I0TA06 Q V E M S R Y D T G I S G Y D S T V E A A V T K L M Y L L Q A R Y K D A D K V R Y
UniRef90_UPI0002F9E10C R V A M E L Y E T G I C G H D T T E A A V A K L M Y V L G Q N L P A E R T Q R Q
UniRef90_U2K5A3 Y V D M M R Y E T G I S G R D A T T E A A V T K L M Y L L G Q G F S S E E V G Q E
UniRef90_R6VF80 R V S M E L Y E T G L C G Y D M T T E A A V T K L M Y T L G L G L P R Q Q T E E
UniRef90_UPI000372593B R V N M G G Y A T G L P G S D M T P E A A L A K L H Y L L S K S L T F E Q I N Q
UniRef90_K2PT05 S V I M G R Y Q M G I S G D T T E A A L T K L M F L L G T N I E S K V F K T
UniRef90_X5D8Y6 K V V M G Q Y A G V V S A K D M T T E A A I T K L M F L L G Q S L K P D E I K M
UniRef90_U1KTQ4 S V N M G G Y A T G I S G Y D M T L E A C L T K L H Y L L S Q N L E V E T V R H
UniRef90_Q0I6R9 P V H P C A E L G L P A G T L N P Q K A R I L L L A L I A G M E R A E L S A
UniRef90_E1GVL0 Q V E M S R Y D T G I S G Y D S T V E A A I T K L M F L Y A T C T D T E T I R A
UniRef90_K4RNL0 E V T Q D A K Y H F L T S D N L N P A K A R I L L M V G L T K T H D L K T L Q R S
UniRef90_UPI0002F6F759 S V T R D A Q H G L L T A G P L P H K V R I V M L L G L A H G M D G P A I I Q S
UniRef90_C6CVN5 T M Y D S G T S A T L L G A D N L N A H A R M L L L S L A F T S D L P T I H S
UniRef90_D5QHS4 A T L A R H D L R Q M A A A G R L R P R Q A R I M L A L C L A L D L P V V R L Q E
UniRef90_M0DDE3 R V C D R V Y D T G V E A G D T L P G T A K V K L M W A L A N L E D P A
UniRef90_D7D949 R V N M H V Y S T G I P G S D M L P E T A Y V K L S W A L G K T R D L R E V Y R
UniRef90_UPI00047E27FE R C D L S I Y E V G I P A R D M T T E A A A T K L M W A L G Q T T Q V E E V R R Q
UniRef90_F3KN34 R V S M T V Y E S G I P L E N M L P E V A L V K A M W A L G N S K T L E E E V K Q
UniRef90_U7VA71 A V K M G L Y E G V I S G G D M T P E A A T K L M Y L L G K N L P I E E I K V
UniRef90_U4TFF7 A V K M Q N Y S T G I S G H D M T P E A A L T K L S W L F S C H Q D I T L I K N
UniRef90_B9WN17 M V P L G S F V A G I A G G Y L N P Q K A R I L L Q L C L N E G M D L S K I K N
UniRef90_P30363 E V Y T T Y D Y A G I L G K D Y D S K K A R M K L A V L L A S Y K E G L K D
UniRef90_F0Q2B2 Q L L P R P G D T L P A T Q G L S V V K A R V E L L L
UniRef90_R5Q2W4 R V L D V Y G Y P G A A A G E L S A A K A R L K L M V V L S E Y E A T Q R D
UniRef90_E7QNI3 R V C D R V Y D T G I E G E D M L P G T A K V K L M W S L A N S D D P A T
UniRef90_UPI00046674B6 G S N M T V Y E V G I L E A Y D M T L E A T I T K L M W L M A Q S N S Y E E I K N

UniRef90_A8YX67	F F N T
UniRef90_D8ILX9	F
UniRef90_UPI00047BEF38	L M E T
UniRef90_R7D5F8	R M N T
UniRef90_UPI000369E4A9	I M E T
UniRef90_UPI00035E00A0	A F
UniRef90_E5V3T0	L F
UniRef90_V4JAU4	L M L T
UniRef90_K2CBA8	Q Y Q S
UniRef90_A6EJG3	F M E Q
UniRef90_D9WDY3	W F T T
UniRef90_UPI000362D691	W L
UniRef90_U4KL39	Y F
UniRef90_F4KNZ0	L M Q
UniRef90_G0LBV9	I F E T
UniRef90_R5BBM6	K F
UniRef90_Q3IRA6	
UniRef90_A1K2J8	
UniRef90_UPI0003B44113	L F
UniRef90_D2RSV6	A F
UniRef90_UPI00040C53C5	Q M V T
UniRef90_UPI0004704445	Y M N Q
UniRef90_F2K828	I M Y K Y
UniRef90_UPI0003FB6135	L F E T
UniRef90_A6EM05	I F E
UniRef90_D2TZA7	L M Q K
UniRef90_UPI0003B79E5D	I F E T
UniRef90_R6YM35	K L E Q
UniRef90_E6TYQ5	Y Y
UniRef90_R5IYA8	L F Y Q
UniRef90_G4NXE0	
UniRef90_N6YAK5	W F E
UniRef90_UPI000419DA60	I F E
UniRef90_P38986	V F
UniRef90_UPI00035F4BF2	Y I E
UniRef90_F0SW11	F F E
UniRef90_D0LXX2	L V Q T
UniRef90_S5ZV36	L F Q T
UniRef90_F9N3D9	L F A L Y
UniRef90_A6FDH7	L M Q Q
UniRef90_Q481H0	Q M D
UniRef90_U2EY35	F F E T
UniRef90_S6E492	V F Y
UniRef90_G9RYP1	L F Y T
UniRef90_UPI00040AE6BA	
UniRef90_R5FEC0	L M N S
UniRef90_V6Z3N2	Y I E
UniRef90_D1RCL7	L I E T
UniRef90_J9G011	
UniRef90_UPI00047C3AA2	
UniRef90_UPI00031EA4BC	S F E T
UniRef90_D5VQY4	L M
UniRef90_C5CKV8	
UniRef90_UPI000407728C	
UniRef90_F5SBF2	F F K E Y
UniRef90_C5T695	
UniRef90_W5YAN4	L F D
UniRef90_R6Z5R5	L F Y
UniRef90_I3C4L1	I Y E T
UniRef90_Q3AVY7	
UniRef90_E1KSV3	Y M N K
UniRef90_H3ZJL8	I M H T
UniRef90_R6WQ19	
UniRef90_UPI000360ECBE	W F T K Y
UniRef90_U1QY67	R M Q T
UniRef90_UPI0003B4048B	I M
UniRef90_I0TA06	Y M N
UniRef90_UPI0002F9E10C	L L R
UniRef90_U2K5A3	L M
UniRef90_R6VDF80	L L R
UniRef90_UPI000372593B	L L
UniRef90_K2PT05	I Y E
UniRef90_X5D8Y6	Y L N K
UniRef90_U1KTQ4	L M Q
UniRef90_Q0I6R9	L L V T
UniRef90_E1GVL0	Y M N K
UniRef90_K4RNL0	Y F L E Y
UniRef90_UPI0002F6F759	W L D Q
UniRef90_C6CVN5	W F Q S F
UniRef90_D5QHS4	L F D
UniRef90_M0DDE3	
UniRef90_D7D949	L M T T
UniRef90_UPI00047E27FE	M F D T
UniRef90_F3KN34	I M L Q
UniRef90_U7VA71	F M E S
UniRef90_U4TFF7	K M
UniRef90_B9WN17	V F K T
UniRef90_P30363	K F
UniRef90_F0Q2B2	
UniRef90_R5Q2W4	K L E E
UniRef90_E7QNI3	
UniRef90_UPI00046674B6	R F Y T

UniRef90_H5UQB1 1 RI | A[V]V | GTGGGT | IAGSAA AADGR HYDA G[V]L | P[V]GAL | LTDA 40
UniRef90_Q2BQ06 MKR V | L | I | Y | T | T | G | G | T | I | G | M | Q | P | S | E | Q | G | Y | V | P | M | S | G | F | N | T | L | V | A | E | L | N | S | D | R
UniRef90_I4X4U5 KKK K | V | S | L | I | T | T | T | G | G | T | I | A | S | M | R | E | I | S | N | G | L | L | K | S | G | A | L | S | G | K | E | L | A | E
UniRef90_R6GZ65 EKK H | I | L | L | I | T | T | T | G | G | T | I | A | S | M | P | G | G | Q | G | L | E | P | K | S | G | A | L | S | G | K | E | L | A | E
UniRef90_C7LP92 KKK K | V | C | L | L | Y | T | T | G | G | T | I | G | M | K | P | T | P | Q | G | Y | A | P | E | A | G | Y | L | G | R | V | M | A | S
UniRef90_UPI0002FF1A32 MKK I | L | L | I | A | T | T | G | G | T | I | A | S | K | Y | T | K | E | G | L | S | G | Y | A | P | E | A | G | Y | L | G | R | V | M | A | S
UniRef90_S6CFA8 P R | I | L | L | V | Y | T | T | G | G | T | I | G | M | T | E | D | L | S | T | G | A | L | V | P | F | S | F | D | H | L | M | K | N
UniRef90_H1HJE3 V | L | L | I | Y | T | G | G | T | I | G | M | G | R | N | R | Q | T | N | A | L | E | P | L | D | F | N | H | L | V | S | N
UniRef90_S5F3L5 MK E | G | E | D | G | K | V | S | P | S | N | E | N | P | L | L | A | A
UniRef90_J0KFA0 K | V | V | L | G | T | G | G | T | V | A | G | T | A | A | Q | A | G | D | N | I | G | Y | T | A | A | Q | V | G | V | G | E | L | L | A | A
UniRef90_C5LZU7 K | V | L | M | I | Y | T | G | G | T | V | G | M | Q | P | G | S | D | G | P | V | P | G | F | L | T | E | K | I | S | H | L | E | E | L | K | R
UniRef90_R4VT89 L | P | T | I | A | L | I | S | T | G | G | T | I | A | S | T | V | D | Y | R | T | G | A | V | T | A | R | F | D | A | E | D | V | L | R | A
UniRef90_R6AVW6 KMK N | I | Y | L | I | S | T | G | G | T | I | A | S | C | V | P | T | D | N | G | L | K | P | E | L | S | A | R | E | L | L | A | G | S | T | C | E | G
UniRef90_UPI000255B1CE R | I | L | L | I | Y | T | G | G | T | I | G | M | V | K | D | Y | E | T | G | A | L | K | A | F | N | F | D | Q | L | L | K | Q
UniRef90_K1YF64 I | L | L | I | Y | T | G | G | T | I | G | M | K | Q | D | P | E | T | G | A | L | T | P | F | N | F | N | L | L | R | E
UniRef90_F4X9G4 MKK I | L | M | L | A | T | G | G | T | I | A | S | K | Q | S | G | Q | G | L | T | G | A | L | T | P | A | I | T | S | Q | E | I | L | N | Y
UniRef90_D3HW21 R | I | L | L | I | Y | T | G | G | T | I | G | M | G | C | N | P | Q | T | G | A | L | E | P | L | D | F | N | H | L | V | N | A
UniRef90_U1YH16 MRK V | V | L | L | T | T | G | G | T | I | A | S | K | A | N | E | K | G | M | L | S | S | G | E | L | S | G | Q | E | L | L | A
UniRef90_Q6CQZ8 L | P | R | V | K | I | L | G | T | G | G | T | I | A | S | K | A | N | E | K | A | S | Y | R | T | G | A | V | T | A | G | Y | H | V | D | L | T | H | L | E | A
UniRef90_H1Z4H4 L | P | D | L | A | L | V | S | T | G | G | T | I | A | S | R | I | D | Y | R | T | G | A | V | T | S | Q | F | E | A | E | D | I | M | R | A
UniRef90_V6SBK4 M | V | Y | T | G | G | T | I | G | M | V | K | D | F | E | T | G | V | L | K | A | F | N | F | D | E | L | H | N
UniRef90_A3HYL2 V | L | I | Y | T | G | G | T | I | G | M | A | Y | D | D | S | G | S | L | V | P | F | N | F | G | Q | L | L | E | K
UniRef90_UPI0003767DAD K | P | S | I | Y | I | A | Y | T | G | G | T | I | G | M | Q | T | A | Q | G | F | A | P | V | A | G | F | L | T | S | H | I | K | T
UniRef90_A4FWR5 K | L | P | N | I | S | I | L | S | T | G | G | T | V | A | S | R | V | D | Y | K | T | G | A | V | H | P | A | F | T | A | D | D | L | I | R | A
UniRef90_Q1J287 K | M | P | R | L | A | V | I | H | T | G | G | T | I | A | S | R | P | N | P | H | G | P | G | V | T | P | Q | V | A | P
UniRef90_Q18GL3 S | L | P | T | V | S | L | I | S | T | G | G | T | I | A | S | T | V | D | Y | R | T | G | A | V | T | A | Q | F | D | A | E | D | V | L | R | A
UniRef90_UPI0003FC406F K | R | I | Y | V | A | Y | T | G | G | T | I | G | M | Q | K | S | A | Q | G | Y | I | P | A | P | G | F | L | T | E | Q | L | N | K
UniRef90_R41A4 K | K | F | I | Y | V | A | Y | T | G | G | T | I | G | M | Q | S | S | R | G | Y | V | P | V | A | G | Y | L | Q | Q | L | K | L
UniRef90_E6N6D9 L | P | R | V | M | I | V | N | T | G | G | T | I | A | S | R | I | D | Y | R | T | G | G | V | K | P | A | L | T | A | S | D | I | V | S | I
UniRef90_UPI000419C573 V | L | V | I | Y | T | G | G | T | I | G | M | V | S | D | R | S | G | S | H | L | V | P | F | N | F | E | I | M | H | R
UniRef90_C6A532 MKK L | L | I | I | G | T | G | G | T | I | A | S | A | K | T | E | Q | G | Y | K | S | V | L | K | I | D | E | L | K | L | A
UniRef90_I3YLJ5 MKS I | L | L | I | Y | T | G | G | T | I | G | M | K | N | D | A | E | T | G | A | L | V | P | F | D | F | S | A | I | Y | D | E
UniRef90_UPI00029B04BA N | I | L | L | I | Y | T | G | G | T | I | G | M | I | K | D | F | E | T | G | A | L | K | A | F | N | F | S | E | L | L | Q | N
UniRef90_B1KEJ9 S | L | P | H | L | S | I | V | S | T | G | G | T | I | A | S | K | I | D | Y | R | T | G | A | V | T | S | Q | F | T | A | A | E | L | M | R | A
UniRef90_B8GH20 MAK V | A | L | I | Y | T | G | G | T | I | A | S | K | T | A | S | G | K | L | A | S | G | E | L | S | G | E | E | L | A | A
UniRef90_Q92A68 V | L | L | I | Y | T | G | G | T | I | G | M | T | E | D | P | A | T | G | A | L | K | A | I | D | F | A | Y | I | E | H
UniRef90_UPI00037F5797 K | M | K | I | L | L | I | A | T | G | G | T | I | A | S | S | E | S | E | G | G | L | T | G | A | V | T | P | A | L | S | A | S | D | L | I | N | E | A
UniRef90_R7ACG3 K | L | P | K | I | L | L | S | T | G | G | T | I | A | S | K | Q | D | D | R | T | G | A | V | T | P | A | L | S | A | S | D | L | I | N | E | A
UniRef90_UPI000374DC3E K | K | I | L | L | V | L | H | T | G | G | T | I | A | M | H | Q | D | G | D | G | D | V | E | T | S | E | E | N | P | L | I | Q | A
UniRef90_UPI00020D9AD8 MKK I | L | V | L | A | T | G | G | T | I | A | S | T | H | H | Q | D | G | L | A | P | G | L | T | I | D | Q | L | A | R | Y
UniRef90_V6IYM1 V | V | I | I | Y | T | G | G | T | I | A | G | R | N | L | G | P | V | E | R | H | A | Y | R | A | G | E | L | S | A | A | E | L | V | A
UniRef90_H5WP43 MTN I | L | I | Y | T | G | G | T | I | G | M | V | A | E | S | G | G | L | A | P | E | Y | E | V | H | K | F | P | D | D | T | L | V | L | P
UniRef90_H8KN48 R | V | L | V | I | N | T | G | G | T | I | G | M | V | A | E | S | G | G | L | A | P | E | Y | E | V | H | K | F | P | D | D | T | L | V | L | P
UniRef90_UPI0003D0D0C0 K | K | I | L | I | V | Y | T | G | G | T | I | G | M | T | C | S | E | N | G | Y | V | P | Q | L | D | S | F | I | E | Q | L | H | T | I | H | E | L
UniRef90_R5ZAD6 R | I | L | I | Y | T | G | G | T | I | A | S | S | K | T | E | R | G | Y | K | A | T | L | S | V | D | E | L | L | E | L
UniRef90_C5A6T2 MKK I | Y | I | A | Y | T | G | G | T | I | G | M | K | K | S | K | Y | G | Y | P | V | I | S | G | Y | L | Q | K | K | L | M | K
UniRef90_W0P797 MKK I | L | V | I | G | T | G | G | T | I | A | S | K | M | G | E | G | L | S | P | A | L | S | A | P | E | L | T | F
UniRef90_J4UBK2 R | K | P | D | I | L | I | Y | T | G | G | T | I | G | M | K | D | E | A | G | S | L | R | P | V | R | G | Y | L | N | S | Q | L | A | A | I | E | A
UniRef90_L8HE50 L | P | R | I | K | I | L | G | T | G | G | T | I | A | S | K | G | A | S | A | S | N | T | A | G | Y | N | V | D | L | T | V | Q | D | L | L | S | S
UniRef90_I2GVG3 K | P | K | V | T | L | V | A | T | G | G | T | I | A | G | V | A | Q | G | R | D | T | F | S | S | Y | R | A | G | T | G | E | L | V | A | Q
UniRef90_F6FST3 K | K | L | L | L | S | T | G | G | T | I | A | S | V | V | S | E | E | G | L | V | P | K | E | S | G | E | L | I | K | R
UniRef90_I7L8U7 K | P | R | I | L | I | V | Y | T | G | G | T | I | G | M | I | E | D | A | E | T | H | A | L | R | P | F | D | F | T | H | L | M | D | N
UniRef90_R7J1F3 K | S | V | L | I | Y | T | G | G | T | I | G | M | V | N | D | P | A | T | G | A | L | C | P | F | D | F | E | Q | I | A | K | A
UniRef90_F9Z5A7 P | R | I | A | L | I | S | T | G | G | T | I | A | S | T | V | D | Y | R | T | G | A | V | T | A | Q | F | D | A | E | D | V | L | R | A
UniRef90_U1R265 V | L | I | Y | T | G | G | T | I | G | M | A | Y | D | D | D | G | A | L | V | P | F | N | F | G | K | I | L | E | K
UniRef90_G0J7M0 MKK I | L | M | L | T | T | G | G | T | I | S | S | I | E | T | E | N | G | L | I | P | S | A | N | T | I | L | K | Q
UniRef90_R7GHJ1 I | K | I | L | S | T | G | G | T | I | V | S | S | I | E | Y | D | T | G | A | V | R | P | A | L | T | T | E | E | I | R | F
UniRef90_UPI00031LP02 R | L | I | L | L | G | M | G | G | T | I | A | S | V | P | S | E | E | G | Y | E | S | S | L | S | V | I | E | L | L | R
UniRef90_F8AHM4 K | K | R | I | K | I | A | Y | T | G | G | T | I | G | M | K | P | S | P | E | G | F | V | P | V | A | G | Y | L | S | Q | T | I | A | N
UniRef90_UPI0003B641C8 L | P | R | I | K | I | L | G | T | G | G | T | I | A | A | K | G | S | S | G | T | Q | T | A | G | Y | H | V | D | L | T | I | Q | E | L | L | D | A
UniRef90_G8BSM6 MKK V | A | I | I | T | T | G | G | T | I | A | S | K | K | N | D | G | L | L | E | C | T | D | M | T | G | L | E | L | M | S | N
UniRef90_UPI00047B08D3 K | K | I | L | V | L | H | T | G | G | T | I | S | M | H | E | D | E | D | G | D | V | E | T | G | T | E | N | P | L | N | G | A | T | V | Q | L
UniRef90_K0DE41 Q | R | K | R | I | Y | V | A | Y | T | G | G | T | I | G | M | Q | R | T | E | N | G | Y | A | P | V | A | G | F | L | T | E | S | V | N | A
UniRef90_E1STP2 K | E | I | H | I | I | S | T | G | G | T | I | A | S | K | I | D | Y | Q | T | G | G | V | K | P | V | L | T | A | D | E | L | I | E | M
UniRef90_I0A2J6 MS | S | L | A | I | L | H | T | G | G | T | I | A | S | N | F | D | A | R | S | G | S | V | T | P | Q | S | A | P
UniRef90_L0A2C0 K | K | K | I | Y | I | A | Y | T | G | G | T | I | G | M | R | K | S | Q | Q | G | Y | V | P | V | R | G | H | L | T | D | T | V | S | G | M | N | E | F
UniRef90_UPI000362135E MKN I | L | L | I | A | T | G | G | T | I | A | C | S | S | S | D | E | G | L | T | P | S | A | N | V | N | E | L | L | S | Y
UniRef90_R7N6L2 MKK I | L | F | I | T | T | G | G | T | I | A | S | S | E | G | D | N | G | L | E | P | S | F | D | A | E | E | L | L | A | H
UniRef90_D9QV03 K | N | I | L | I | Y | T | G | G | T | I | G | M | V | R | S | P | M | G | Y | I | P | V | G | G | L | Q | K | L | I | D | L | K | I | P | R
UniRef90_UPI0003703EF6 K | K | I | Y | V | A | Y | T | G | G | T | I | G | M | R | P | S | E | S | G | Y | V | P | G | D | N | L | M | G | L | I | E | E | K | L | P | P | D
UniRef90_UPI0003677639 K | K | I | Y | V | A | Y | T | G | G | T | I | G | M | R | P | S | E | S | G | Y | V | P | G | D | N | L | M | G | L | I | E | E | K | L | P | P | D
UniRef90_UPI00035F1816 K | R | I | Y | I | A | Y | T | G | G | T | I | G | M | K | P | S | K | D | G | F | L | P | V | A | G | Y | L | S | Q | T | A | N | M | P | E | F
UniRef90_A8A8Y3 P | L | V | K | V | L | G | T | G | G | T | I | A | S | R | I | D | Y | E | T | G | A | V | K | P | A | M | S | T | E | L | V | E | E
UniRef90_I3D7B0 MK | H | I | L | L | I | N | T | G | G | T | I | G | M | I | G | E | P | L | H | P | S | K | N | W | K | E | I | T | K | N
UniRef90_R5EMA2 K | K | R | I | L | L | I | T | T | G | G | T | I | A | S | V | P | G | G | E | G | L | E | P | R | R | S | E | V | M | E | R | E
UniRef90_D5WW09 H | V | A | V | I | T | T | G | G | T | I | A | A | L | P | Q | D | D | G | D | V | K | A | V | L | P | G | Q | E | L | L | K | I | R | A | S
UniRef90_H3FVV7 R | V | L | V | L | Y | T | G | G | T | I | G | M | K | S | K | G | G | V | Y | S | P | G | Y | L | P | P | L | N | D | R | E | F | I | D | S
UniRef90_E3QQI5 K | V | A | F | L | G | T | G | G | T | I | S | S | E | G | H | D | K | Y | D | L | L | D | Y | N | A | D | G | G | R | K | R | H | D | A | Q
UniRef90_UPI00034BD57F V | A | V | Y | G | T | G | G | T | I | A | M | T | S | D | G | S | G | G | V | V | P | A | L | S | A | A | Q | L | V | A
UniRef90_L9VUU3 L | P | T | V | A | I | L | S | T | G | G | T | I | A | S | T | S | A | E | G | G | A | T | P | S | K | R | G | A | D | L | V | E | A
UniRef90_M7X0G3 V | L | I | Y | T | G | G | T | I | G | M | A | Y | D | E | S | G | A | L | V | P | F | N | F | G | Q | I | L | E | K
UniRef90_D4IZT8 MKK I | L | M | I | G | T | G | G | T | I | A | S | K | Q | T | D | A | G | L | T | P | G | L | T | A | E | D | I | L | A | Y
UniRef90_UPI000423211D MKK I | L | M | I | G | T | G | G | T | I | A | C | K | Q | T | D | A | G | L | T | P | G | L | T | A | E | D | I | L | S | Y
UniRef90_C6LIH9 S | F | S | K | L | L | I | A | T | G | G | T | I | A | S | K | Y | T | G | S | G | L | S | P | Q | I | S | A | S | E | L | L | S | Y
UniRef90_H2AS25 S | L | P | R | I | K | I | L | G | T | G | G | T | I | A | S | K | G | A | S | S | A | T | A | D | Y | Q | V | D | L | P | I | Q | D | L | L | D | A
UniRef90_I2GIW7 V | L | V | I | Y | T | G | G | T | I | G | M | V | Y | N | Q | K | S | G | Q | L | V | P | F | D | F | E | Q | V | L | D | R
UniRef90_H2MN78 R | V | L | V | I | N | T | G | G | T | I | G | M | T | L | H | D | N | V | L | A | P | K | A | N | T | L | V | Q | S | L | R | K | L | P | I | L
UniRef90_Q6APK1 MKK I | A | V | F | I | T | G | G | T | I | G | M | S | P | H | S | D | S | G | L | G | V | S | P | D | N | N | F | E | Q | I | L | A | S
UniRef90_W8BYY9 R | V | R | V | I | Y | T | G | G | T | I | G | M | V | R | N | E | N | V | L | A | P | G | S | A | A | S | M | G | P | L | V | L | P | F | V
UniRef90_F8EBA7 V | L | V | I | Y | T | G | G | T | I | G | M | V | F | E | K | G | Q | L | V | P | F | D | F | E | Q | L | D | R
UniRef90_K7G1W5 R | V | L | V | I | N | T | G | G | T | I | G | M | V | F | E | K | G | L | A | P | E | A | N | K | L | A | K | A | L | K | M | P | L
UniRef90_R6JTA0 MKR I | L | L | I | A | T | G | G | T | I | A | S | K | Q | T | Q | D | G | L | A | P | S | M | D | V | N | S | I | F | S | Y

UniRef90_H5UQB1
UniRef90_Q2BQ06
UniRef90_I4X4U5
UniRef90_R6GZ65
UniRef90_C7LP92
UniRef90_UPI0002FF1A32
UniRef90_S6CFA8
UniRef90_H1HJE3
UniRef90_S5F3L5
UniRef90_J0KFA0
UniRef90_C5LZU7
UniRef90_R4VT89
UniRef90_R6AVW6
UniRef90_UPI000255B1CE
UniRef90_K1YF64
UniRef90_F4X9G4
UniRef90_D3HW21
UniRef90_U1YH16
UniRef90_Q6CQZ8
UniRef90_H1Z4H4
UniRef90_V6SBK4
UniRef90_A3HYL2
UniRef90_UPI0003767DAD
UniRef90_A4FWR5
UniRef90_Q1J287
UniRef90_Q18GL3
UniRef90_UPI0003FC406F
UniRef90_R41A4
UniRef90_E6N6D9
UniRef90_UPI000419C573
UniRef90_C6A532
UniRef90_I3YLJ5
UniRef90_UPI00029B04BA
UniRef90_B1KEJ9
UniRef90_B8GH20
UniRef90_Q92A68
UniRef90_UPI00037F5797
UniRef90_R7ACG3
UniRef90_UPI000374DC3E
UniRef90_UPI000209AD8
UniRef90_V6IYM1
UniRef90_H5WP43
UniRef90_H8KN48
UniRef90_UPI0003D0D0C0
UniRef90_R5ZAD6
UniRef90_C5A6T2
UniRef90_W0P797
UniRef90_J4UBK2
UniRef90_L8HE50
UniRef90_I2GVG3
UniRef90_F6FST3
UniRef90_I7L8U7
UniRef90_R7J1F3
UniRef90_F9Z5A7
UniRef90_U1R265
UniRef90_G0J7M0
UniRef90_R7GHJ1
UniRef90_A0A031LP02
UniRef90_F8AHM4
UniRef90_UPI0003B641C8
UniRef90_G8BSM6
UniRef90_UPI00047B08D3
UniRef90_K0DE41
UniRef90_E1STP2
UniRef90_I0A2J6
UniRef90_L0A2C0
UniRef90_UPI000362135E
UniRef90_R7N6L2
UniRef90_D9QV03
UniRef90_UPI0003703EF6
UniRef90_UPI0003677639
UniRef90_UPI00035F1816
UniRef90_A8A8Y3
UniRef90_I3D7B0
UniRef90_R5EAM2
UniRef90_D5WMA09
UniRef90_H3FVV7
UniRef90_E3QQI5
UniRef90_UPI00034BD57F
UniRef90_L9VUU3
UniRef90_M7X0G3
UniRef90_D4IZT8
UniRef90_UPI000423211D
UniRef90_C6LIH9
UniRef90_H2AS25
UniRef90_I2GIW7
UniRef90_H2MN78
UniRef90_Q6APK1
UniRef90_W8BYY9
UniRef90_F8EBA7
UniRef90_K7G1W5
UniRef90_R6JTA0

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

UniRef90_H5UQB1 G R D V D G V V V T H G T D T M E E T A S H L L Q L V L D T D V P V V V T G A M R
UniRef90_Q2BQ06 N D Y D G F V V L H G T D T M A Y T A S M L S F M L Q G D D K P V V V L T G S Q Q R
UniRef90_I4X4U5 R E P E D Y D G L V V T H H G T D T L E Y T A S F L D L T I N D D D R T V V V L T T G S Q Q R
UniRef90_R6GZ65 R E D Y D G L V V T H H G T D T M A Y T A S M A T F M L N N L N L V V V F T G S Q Q R
UniRef90_C7LP92 Y H E F D G F V I V T H H G T D T M A Y T A S A L P F M L E G A K P V V V L T T G S Q Q R
UniRef90_UPI0002FF1A32 Y E F Y D G F V I C H H G T D T M A Y T A A A L S Y L I P N R R R I V V L T T G S Q Q K
UniRef90_S6CFA8 Y E D F D G F V V L H H G T D T M A Y T A S A L S F M L N G A K P V V L T T G S Q Q L
UniRef90_H1HJE3 Y E A Y D G F V I L H H G T D T M A Y T A S A L S F M L N L T K P V V L T T G S Q Q L
UniRef90_S5F3L5 E E N V D G L V V T H H G T D T L E E T A S Y F L D L A L S V N I V V L T T G A M R
UniRef90_J0KFA0 D P A V R G V V I T H H G T D T W F L H S V L D A T K P V V L T T C A M R
UniRef90_C5LZU7 Y Y D Y D G F V I V H H G T D T M A Y T A G A L S F M L N L A K T V V L T T G S Q L
UniRef90_R4VT89 D G A D G L V V M H H G T D T M Q Y T A A A M S F M L D S P V P V V F T G S Q Q R
UniRef90_R6AVW6 K C Y D G L V V T H H G T D T M A Y T A S A L S F M L A G R I P V V L T T G S Q Q Y
UniRef90_UPI000255B1CE Y Q N F D G F V V L H H G S D T M A Y T A S A L S F M L N L R K P V I V L T T G S Q Q L
UniRef90_K1YF64 Y K S Y D G F V V L H H G T D T M S Y T A S A L S F M L N L E K P V I V L T T G S Q Q R
UniRef90_F4X9G4 R Y D G F V I T H H G T D T M A Y T A A A L S Y L I Q S E K P I V L T T G S Q Q K
UniRef90_D3HW21 Y H S H D G F V I L H H G T D T M A Y T A S A L S F M L N L T K P V V L T T G S Q Q L
UniRef90_U1YH16 D E S V D G L V V T H H G T D T M E E T A Y F L D L V I S D G E R T V V L T T G S Q Q R
UniRef90_Q6CQZ8 K A V R G V V I T H H G T D T L E E T T F F I E S T I D G Q V P I V V L T T G S S M R R
UniRef90_H1Z4H4 S G V A G V I V T H H G T D T M S Y T A A A V S F M L K T P V P V V F V G S Q Q R
UniRef90_V6SBK4 Y N F F D G F V V L H H G S D T M S Y T A S A L S F M L N L T K P V I V L T T G A Q L
UniRef90_A3HYL2 Y D S Y D G F V V L H H G T D T M A Y S A S M M S Y M L Q G N K P V I V L T T G A Q L
UniRef90_UPI0003767DAD Y E D Y D G F V I L H H G T D T M A Y T A S A L S F M L Q G A K P V I V L T T G S Q Q I
UniRef90_A4FWR5 N G A E G I V I A H H G T D T M H E Y T A S F M L T S E V P I V L T T G S Q Q R
UniRef90_Q1J287 A P E Q D G I V V T H H G T D T L E E T A F F L H L T L A T R T P V V L T T G S M R R
UniRef90_Q18GL3 R A G A D G V V V M H H G T D T M Q Y T A S A L S Y M L D T P V P V V F T T G S Q Q R
UniRef90_UPI0003FC406F Y R D A Y D G F V I L H H G T D T M A Y T A S A L S F M F N L G K P V I V L T T G S Q Q I
UniRef90_R41A4 R Y D G F V I L H H G T D T M A F T A S A L S F M L N L V K P V I V L T T G S Q Q I
UniRef90_E6N6D9 K G F D G L V I T H H G T D T M G Y T A A A L S F A L N P P A P V V L V G A Q Q R
UniRef90_UPI000419C573 Y E E Y D G F V V L H H G T D T M A Y T A S A L S Y L N L Q K P I I V L T T G S M V
UniRef90_C6A532 R D Y D G L I I T H H G T D T L A Y T A S M L S F M I N P N K P I V L T T G A M L
UniRef90_I3YLJ5 R Y D G F V V L H H G T D T M S Y T A S A M S F M L N L A K P V V F T T G S Q I
UniRef90_UPI00029B04BA Y E E Y D G F V V L H H G S D T M S Y T A S A L S F M F N L T K P I I V L T T G S Q I
UniRef90_B1KEJ9 K E Y D G F V I L H H G T D T M A F T A S A L S F M L Q G S K P V I V L T T G S Q I
UniRef90_B8GH20 K D G A E G V I V T H H G T D T M A Y S A A A V S F M L K T P V P V V F V G S Q Q R
UniRef90_Q92A68 D E T Y D G L V V T H H G T D S L E E T A Y F L D L A V T D A R P I V V L T T G S Q Q R
UniRef90_UPI00037F5797 K Y S G F V I L H H G T D T M A Y T A S M L S F M L D G C Y P V V L T T G S Q Q L
UniRef90_R7ACG3 Y E S Y D G F V V A H H G T D T M A Y T A A A M T Y M L N L A K P V V F T T G S Q Q I
UniRef90_UPI000374DC3E N S D Y K G L I A H H G T D T M H E Y T S S F L S F A L A G P I P A L V T T G S Q Q R
UniRef90_UPI000209AD8 S E G F A G L V V T H H G T D T L E E T A F F L D S T L D I E L P I V L T T G A M R
UniRef90_V6IYM1 R Y D S F I I T H H G T D T M A Y T A S G L S Y L L H G K K T I V L T T G S Q V
UniRef90_H5WP43 R E V A G V V V T H H G T D T L E E S A Y F L H R V L S P G K P V V F T A A M R
UniRef90_H8KN48 K Y D G F V I L H H G S D T M A Y S A S A L S F M L N L A K P V V F T T G S Q Q L
UniRef90_UPI0003D0D0C0 Y E H Y D G F V I L H H G T D T M A Y T A S A L S F M C N L G K T V V L T T G S Q V
UniRef90_R5ZAD6 Y A N Y D G F V I L H H G T D T M A Y T A S A L S F M L N L N K P V V L T T G S Q I
UniRef90_C5A6T2 D Y D G L V I T H H G T D T L A Y T A S A L S F M L N V P I P I V L T T G S M L
UniRef90_W0P797 Y Y K Y D G F V I L H H G T D T M A Y T A S A L S F L N L E K P I V I T T G S Q Q I
UniRef90_J4UBK2 Y D S Y D G F V I L H H G T D T M A Y T A S A L S Y M I N S R K P I V L T T G S Q Q K
UniRef90_L8HE50 S D Y Q G F L I H H G T D T M S Y T A S A L S F M L N L G K I V V L T T G S Q Q I
UniRef90_I2GVG3 S F D G V V I T H H G T D T M A E T A F F I E S T L D G E V P V V F V G S M R
UniRef90_F6FST3 G S D G V V T T H H G T D T Q E E T A Y W L D L T V Q S Q K P V V T T T G S M R
UniRef90_I7L8U7 R N D Y D G L V L S H H G T D T M A Y T A S M L T F M L Q Q N I P V V L T T G S Q V
UniRef90_R7J1F3 R Y D G F V V L H H G T D T M A Y T A S A L S F M L Q G S K P V I V L T T G S Q L
UniRef90_F9Z5A7 Y D Q Y S G F V I L H H G T D T M A Y S A A A L S F M L N L T K P V V F T T G S Q R
UniRef90_U1R265 R G A D G V V V M H H G T D T M Q Y T A A A L S F M L D T P V P V V F T T G S Q R
UniRef90_G0J7M0 Y D T Y D G F V V L H H G T D T M A Y S A S M L S F M L K G N K P V I V L T T G A Q L
UniRef90_R7GHJ1 I N N Y D A I I I T H H G T D T M A Y T A S M I S F M I Q N P K P I I V L T T G S Q R
UniRef90_A0A031LP02 D E N I G V V V A H H G T D T M A Y T A A A L A F S L K L P G P I V L V G S Q R
UniRef90_F8AHM4 E F D G V V I T H H G T D T L A Y T A S M L S F M V N P P V P I V L T T G A M R
UniRef90_UPI0003B641C8 E F D G F I V I L H H G T D T M S Y T A S A L S F V F H L S K P I V L T T G S Q I
UniRef90_G8BSM6 G F D G I V I L H H G T D T L S E T A F F I E S T I D G D V P I V F V G S M R
UniRef90_UPI00047B08D3 D S S D G I V V T H H G T D T L E E T A Y F L D L T V S D T R P V V V T T G S Q K
UniRef90_K0DE41 K N S F D G V V I T H H G T D T L E E T A F F L D S T L S V D F P I V I V T T G S M R
UniRef90_E1STP2 Q F D G F V I L H H G T D T M A F T A S A L S F M L E G E K P I V I V T T G S Q I
UniRef90_I0A2J6 K E P D T G V I I T H H G T D T L A Y T S S A L S F A L N I G S P I A L V G S Q R
UniRef90_L0A2C0 A F D G V V L T H H G T D T L E E T A Y F L H L T L T P H A P V V L T T G S M R
UniRef90_UPI000362135E Y D D Y D G F V V L H H G T D T M A Y T A S A L S F M F G L T K P I I V L T T G S Q I
UniRef90_R7N6L2 K D D Y D G F V V A H H G T D T M S Y T A A A L V Y M L N N Y K P V V I V T T G S Q L
UniRef90_D9QV03 Y D D Y D G F V V T H H G T D T M G Y T S S L L T Y M L N I K K P V V V T T G S Q V
UniRef90_UPI0003703EF6 Y D Y D G F V V L H H G T D T M A Y T A S A L S F L Q G T K P V I V L T T G S Q I
UniRef90_UPI0003677639 Q F D G F V V L H H G T D T M A Y S C S M I S F M L N L Q K P V I V L T T G S Q I
UniRef90_UPI00035F1816 Y H D F D G F I I L H H G T D T M S Y T A S A L S F V F N L S K P V I V L T T G S Q I
UniRef90_A8A8Y3 R E E V A G V V V A H H G T D T M V Y T A S A V A F A L E I N K P V V F V G A Q R
UniRef90_I3D7B0 Y D N Y K G F V I L H H G T D T M A Y T A S L S F F C N L G K P I I L T T G S Q V
UniRef90_R5EMA2 R A G Y D G L V V T H H G T D T M A Y T A S A V T F M L N L D V P I V L T T G S Q L
UniRef90_D5WAW09 K D A V D G V V I T H H G T D T M E E T A F Y L S L V T P K Q K P V V L T T G A Q F
UniRef90_H3FVV7 Y H H Y D G F V V L H H G T D T L A Y T A S A L S F M M D L G K P V V L T T G S Q I
UniRef90_E3QQI5 D P E I R G I V I G H H G T A S L E E T A W I L F L V L N L K I P I V I T T G S V R
UniRef90_UPI00034BD57F S G T V D G V V V T Q G T D T I E E T S Y L D L F H T A P Q P V V V T T G A M R
UniRef90_L9VUU3 A D G A D G V V V T H H G T D T L E E S A Y F L D L T L E C T I P V V F T T G A Q R
UniRef90_M7X0G3 Y D S Y D G F V I L H H G T D T M A Y S A S M L S Y M L H G N K P V V F T T G A Q L
UniRef90_D4IZT8 Y A S Y D G F V V C C H H G T D T L A Y T A A A L S Y M I N S A K P I V V T T G S Q K
UniRef90_UPI000423211D Y S N Y D G F V I C C H H G T D T L A Y T A A A L S Y M I N S A K P I V I T T G S Q K
UniRef90_C6LIH9 K Y D G F V I C C H H G T D T M A Y T A A A L S Y L I Q N N K P V V I V L T T G S Q K
UniRef90_H2AS25 S F D G L V I T H H G T D T L S E T A F F V E S T I D G E V P I V F V G S M R
UniRef90_I2GIW7 Q Y D S F V I L H H G T D T M A Y T A S A L S F M L G G N K P V I L T T G A Q L
UniRef90_H2MN78 Y E H Y D G F V I L H H G T D T M A Y T A S A L S F M C H L G K P I V L T T G S Q V
UniRef90_Q6APK1 K N D Y S G A V V L H H G T D T L A E T S F V L N V S L T T S K P V I T T T G S M R
UniRef90_W8BYY9 Y E F F D G F V V L H H G T D T L C Y T A S A L S F M L N L G K T V I I T T G S Q I
UniRef90_F8EBA7 Y E L Y D S F V I L H H G T D T M A Y T A S A L S F M C H L S K P V I L T T G A Q L
UniRef90_K7G1W5 Q E Y D G F V I L H H G T D T M A Y T A S A L S F M C N L G K T I V L T T G S Q V
UniRef90_R6JTA0 Y V Y F D G F V V A H H G T D T M A Y S A A A V T Y M L N L S K P V V F T T G S Q I

UniRef90_H5UQB1
UniRef90_Q2BQ06
UniRef90_I4X4U5
UniRef90_R6GZ65
UniRef90_C7LP92
UniRef90_UPI0002FF1A32
UniRef90_S6CFA8
UniRef90_H1HJE3
UniRef90_S5F3L5
UniRef90_J0KFA0
UniRef90_C5LZU7
UniRef90_R4VT89
UniRef90_R6AVW6
UniRef90_UPI000255B1CE
UniRef90_K1YF64
UniRef90_F4X9G4
UniRef90_D3HW21
UniRef90_U1YH16
UniRef90_Q6CQZ8
UniRef90_H1Z4H4
UniRef90_V6SBK4
UniRef90_A3HYL2
UniRef90_UPI0003767DAD
UniRef90_A4FWR5
UniRef90_Q1J287
UniRef90_Q18GL3
UniRef90_UPI0003FC406F
UniRef90_R41A4
UniRef90_E6N6D9
UniRef90_UPI000419C573
UniRef90_C6A532
UniRef90_I3YLJ5
UniRef90_UPI00029B04BA
UniRef90_B1KEJ9
UniRef90_B8GH20
UniRef90_Q92A68
UniRef90_UPI00037F5797
UniRef90_R7ACG3
UniRef90_UPI000374DC3E
UniRef90_UPI00020D9AD8
UniRef90_V6IYM1
UniRef90_H5WV43
UniRef90_H8KN48
UniRef90_UPI0003D0D0C0
UniRef90_R5ZAD6
UniRef90_C5A6T2
UniRef90_W0P797
UniRef90_J4UBK2
UniRef90_L8HE50
UniRef90_I2GVG3
UniRef90_F6FST3
UniRef90_I7L8U7
UniRef90_R7J1F3
UniRef90_F9Z5A7
UniRef90_U1R265
UniRef90_G0J7M0
UniRef90_R7GHJ1
UniRef90_UPI00031LP02
UniRef90_F8AHM4
UniRef90_UPI0003B641C8
UniRef90_G8BSM6
UniRef90_UPI00047B08D3
UniRef90_K0DE41
UniRef90_E1STP2
UniRef90_I0A2J6
UniRef90_L0A2C0
UniRef90_UPI000362135E
UniRef90_R7N6L2
UniRef90_D9QV03
UniRef90_UPI0003703EF6
UniRef90_UPI0003677639
UniRef90_UPI00035F1816
UniRef90_A8A8Y3
UniRef90_I3D7B0
UniRef90_R5EMA2
UniRef90_D5WVW09
UniRef90_H3FVV7
UniRef90_E3QQI5
UniRef90_UPI00034BD57F
UniRef90_L9VUU3
UniRef90_M7X0G3
UniRef90_D4IZT8
UniRef90_UPI000423211D
UniRef90_C6LIH9
UniRef90_H2AS25
UniRef90_I2GIW7
UniRef90_H2MN78
UniRef90_Q6APK1
UniRef90_W8BYY9
UniRef90_F8EBA7
UniRef90_K7G1W5
UniRef90_R6JTA0

130 140 150 160
P A D D P G A D G P A N L L D A V R V A A A D P A A R G L G V L V V F G G Q V H G
M V E L R S T D A S D N L T T A L L L A A G N Y D I P E V C I Y F F N G R L L R S
P E E V G T D V A Y S N L R R T A L Y V A V D H S L R G I G A V V V F N D R K L L Y S
L A D F L S D D A P S N L R R T A F A M A A S G K P G V F L A F F G N R K L L M L
L C K V R S D D G R D N L V T A L M V I A Q T P V S E V C L C F G G N R K L L R
P I D L A T T D D G R D N L L D S A L R F A S H D R A E H G I S I V F F G N R K L L A
U P I G E I R T D G T E N L L I T S I L Q I A A A A Q H E D G Q E V C I Y F S G S H L W R
S S N E L G A D G L I N Q S A L L V A V A N E E S T G A D K G V L V V M A G D E I H N G
U N I R E F 9 0 _ J 0 K F A 0 P D G P Q N L L D A V A V A A E S T G A Q G V V V V A A G A I H H G
P F G E P H S D A R R N L I V S T L I A G L C N I P E V C V F F N T Y L L R
S A D R P S S D N V M N A V I E A A K S D S S E V L V C M H A A E S S D D H R
U N I R E F 9 0 _ R 6 A V W 6 P A V Y P D S D G R R N L E N A I I A A T A L T G G V Y I C A F G S K D M L
P I G D L R T D A K E N L I T S I Q I A T L N E S P L L Q E V V A L Y F F E Y K L L Y R
U N I R E F 9 0 _ K 1 Y F 6 4 P I G M L R T D G K E N L I S S I E L A A A K D S N G P E V C I Y F F E N R K L L Y R
S I C L E N T D A R K E N L Y N S F L Y A A A E G S H G V S L V F D G N R K L L Y R
U N I R E F 9 0 _ F 4 X 9 G 4 P M G Q L R T D G K E N V V T S I E L A A A H N A D G P E V C I Y F S G R I L L R
U N I R E F 9 0 _ D 3 H W 2 1 S L E D L S N D V Y I N I R H A I Y T A C D E T S L R G S G V V V F N D R Q I F S A
U N I R E F 9 0 _ U 1 Y H 1 6 P S T S I S A D G P M N L Y Q A L C I A A A N R E S T S R G R G V L I S L N D
U N I R E F 9 0 _ Q 6 C Q Z 8 S A D R P S S D N L M N G L C S A A A A V S D L G E V S V V M H G T S N D D H R
U N I R E F 9 0 _ H 1 Z 4 H 4 P I G D L R T D A K E N L I T S I Q I A I A N N N Q P I V T E V G L F F E Y K L L Y R
U N I R E F 9 0 _ V 6 S B K 4 P I S A M R S D A R E N L M T S L E I A I N G K P I V P E V C I Y F F D K K L L R
U N I R E F 9 0 _ A 3 H Y L 2 P L A Q P H S D G P S N L S H A L Y L A A N Y P A P E V C V F F D K K L L R
U N I R E F 9 0 _ U P I 0 0 0 3 7 6 7 D A D S S D R P S S D A A L N I T A A V K A A T E P K G V Y V L M H G E T G D I H E
U N I R E F 9 0 _ A 4 F W R 5 H A G E A S W D G P G N L L D A A E V A L H P Q S R G R G P L A V F G G D I L Y D
U N I R E F 9 0 _ Q 1 J 2 8 7 S A D R P S S D N V M N A V C A V E A A T A D I S G V F V C M H D D T C A L H R
U N I R E F 9 0 _ Q 1 8 G L 3 P L S E L R S D G Q T N L L N A L Y I A A N Y P I V H E V G L F F N N K L L Y R
U N I R E F 9 0 _ U P I 0 0 0 3 F C 4 0 6 F P L A Q L R S D G Y T N L L N A L Y I A A Y Y P V I H E V S L F F N N K L L Y R
U N I R E F 9 0 _ R 4 1 A 4 S S D R P S S D A A L N L L T A V E V A A W A P F A E V V V A M H D N V L I H R
U N I R E F 9 0 _ E 6 N 6 D 9 P I G K P R T D A R E N L V T A L E I A V E S T R C I V P E V C I Y F G N L L R
U N I R E F 9 0 _ U P I 0 0 0 4 1 9 C 5 7 3 P I T E N G S D A P R N I R T A I K F A M E D V A G V F V C M H D D T C A L H R
U N I R E F 9 0 _ C 6 A 5 3 2 P I G V L R T D G R E N L I T S I E I A G A H R P E V P E V S L Y F F Q N R L L F R
U N I R E F 9 0 _ I 3 Y L J 5 P I G D L R T D A K E N L I T S I Q I A G L Q K P V I S E V G L Y F F E Y K L L Y R
U N I R E F 9 0 _ U P I 0 0 0 2 9 B 0 4 B A P I G Q L R S D G Q T N L L N S L Y I A A N Y P I A E V C L F F N N K L L F R
U N I R E F 9 0 _ B 1 K E J 9 S A D R P S S D N L M N G L C S A R A A V S D L G E V A V V M H Q T S S D D H R
U N I R E F 9 0 _ B 8 G H 2 0 A P E E P G T D A Y V N I R H A I Y T A C E V N L R Q A G T V V V F N D R I E A
U N I R E F 9 0 _ Q 9 2 A 6 8 P I G K V R T D G K E N L I R H A I Y T A A A K D P M G N E V C I Y F F D N R L L R
U N I R E F 9 0 _ U P I 0 0 0 3 7 F 5 7 9 7 P I E A L Y T D A K K N L S D A I R F A C E G I N G V Y V T F D G M V I N
U N I R E F 9 0 _ R 7 A C G 3 S S D R P S S D A A L N I T A A S K F L V G S N T K G F L V M H H N D E C H H A
U N I R E F 9 0 _ U P I 0 0 0 3 7 4 D C 3 E S A N E L G S D G L Y N Y E S A I R V A S D E Q S S G R G F L V V L N D E I H A
U N I R E F 9 0 _ U P I 0 0 0 2 0 D 9 A D 8 P V S F K R T D A K K N I N D A L T F A Q K A D I P G V F I V F D G K A I L
U N I R E F 9 0 _ V 6 I Y M 1 P A T A P G A D G P A N L L D A V A L A G W G P D R P Q G V L A V L G G V V H G
U N I R E F 9 0 _ H 5 W P 4 3 P I G E I R T D A K E N L L T A L E I A A A K K A M V P E V C I Y F D G F M V Y R
U N I R E F 9 0 _ H 8 K N 4 8 P I Y E L R N D G R A N L L G A L E I A A G Q F V I P E V C L Y F Y H K L L Y R
U N I R E F 9 0 _ U P I 0 0 0 3 D 0 D 0 C 0 P L C E I R N D A R D N L L T A L M I A S N S H L H E V C L Y F F G K K L L R
U N I R E F 9 0 _ R 5 Z A D 6 P I T E P N S D A P R N I K T A L T F A M K G F S H G I Y V A F M D K I M L
U N I R E F 9 0 _ C 5 A 6 T 2 P L S E I R S D G R Q N L L H S L L M A A N H P I N E V T L F F N Y K L L Y R
U N I R E F 9 0 _ W 0 P 7 9 7 P I E S T D G T D A K R N L R D S L L Y A C D D Y S Q N V V L V F D N G N I A
U N I R E F 9 0 _ J 4 U B K 2 P L E N S I T D A R R N L I A S M I I A K E V D M P E V V I F F N K V I L R
U N I R E F 9 0 _ L 8 H E 5 0 P S T S V S A D G P M N L Y Q A I C I A S S P K S R G R S V M V S L N D Q I S A
U N I R E F 9 0 _ I 2 G V G 3 P W Q D F G A D G P A N L Y N A V K L A A S Q A T F C Y G T V L M L N D E I H A
U N I R E F 9 0 _ F 6 F S T 3 P I N V V L R S D A P D N L R L A F A A S A T C K P G I Y L A F D R K V M L
U N I R E F 9 0 _ I 7 L 8 U 7 P I G E V R T D G E E N L I T A L Q I A A A K D P D G S G A I L F E N Y L W R
U N I R E F 9 0 _ R 7 J 1 F 3 P I G T I R T D G R E N L I A A L E I A A A T K A V V P E V C L L F G A T K F F R
U N I R E F 9 0 _ F 9 Z 5 A 7 S A D R P S S D N V V N A V C A V E A A K S D L A E V V V A M H A D E T D D H R
U N I R E F 9 0 _ U 1 R 2 6 5 P I S A M R S D A R E N L M T S L E I A I S K K P I V P E V C I F F N H L L L R
U N I R E F 9 0 _ G 0 J 7 M 0 P I G N F L T D A A I N L R S A F A M A M S G V G G V F L A F D R Q L I L
U N I R E F 9 0 _ R 7 G H J 1 S S D R P S S D A A I N L Y S V L L A K V I G K F G E V V V N M H G E S S D H R
U N I R E F 9 0 _ U P I 0 0 0 3 1 L P 0 2 P I T E P G S D A P R N L W T A L R F A I E G V P G V Y V A F M D K V M L
U N I R E F 9 0 _ F 8 A H M 4 P I S Q L R T D A R I N L N S L Y I A A S H P I N E V C L F F N N Q L L F R
U N I R E F 9 0 _ U P I 0 0 0 3 B 6 4 1 C 8 P S T S I S A D G P M N L Y Q A L C I A A S P K S R G R S V L S L N D Q I S A
U N I R E F 9 0 _ G 8 B S M 6 S V E E S G T D V F Q N L S D A M H V A C E K K A L D L G S I V V F N G D I F A
U N I R E F 9 0 _ U P I 0 0 0 4 7 B 0 8 D 3 S S N E L G S D G L Y N Y Q S A L R V A A D K N S R H R G V M V V M N D E I H A
U N I R E F 9 0 _ K 0 D E 4 1 P L A Q L R S D G Q Q N L L N A L Y I A A N Y P I A E V C L F F N N T L L R
U N I R E F 9 0 _ E 1 S T P 2 S S D R P S S D S P F N L I A A S I Y A T S D I C E P A V V M H G E T S D S H R
U N I R E F 9 0 _ I 0 A 2 J 6 H A G E A S W D G P G N L L R D A A E V A L H P E T R G R G P L A V F F G G D V F D
U N I R E F 9 0 _ L 0 A 2 C 0 P I A E L R S D G Q T N L L N A L Y I A A N Y P I A E V C L F F N N K L L F R
U N I R E F 9 0 _ U P I 0 0 0 3 6 2 1 3 5 E P M E A E Y T D A K K N I S D A V I Y A C E G R A E V Y V A F D G G C I F N
U N I R E F 9 0 _ R 7 N 6 L 2 A T I G Q P Y T D A K K N I S D A V R E A L E G V P G G I F V A F D G K I I N
U N I R E F 9 0 _ D 9 Q V 0 3 P L S E L R N D A Q S N L V T S I E L A S S Y V I P G V C L Y F F N G R L L R
U N I R E F 9 0 _ U P I 0 0 0 3 7 0 3 E F 6 P L C E A R T D G L E N L V G A L T M A A D D R I K E V C L Y F F N G R L L R
U N I R E F 9 0 _ U P I 0 0 0 3 6 7 7 6 3 9 P L S Q L R S D A R V N L L N S L Y I A A A H H P I N E V C L Y F F N N Q L L F R
U N I R E F 9 0 _ U P I 0 0 0 3 5 F 1 8 1 6 S S D R P S S D A T L N L I G A T I A A A R S D I A E S I I A M H G E S S D H R
U N I R E F 9 0 _ A 8 A 8 Y 3 P L A K P R S D A L Q N L I T A I Q I A S Q Y K I P E V C I L F R D T L L R
U N I R E F 9 0 _ I 3 D 7 B 0 P L T D M L S D G P D N L R T A F A M A A S G A P G V F L A F D R K V M L
U N I R E F 9 0 _ R 5 E M A 2 D A S H P S S D G P K N L S D A L V L A R S P E A A G L G P V I V F A G F I Y S
U N I R E F 9 0 _ D 5 W V W 0 9 P V A E V R S D G M D N L I G A L V T A G N L D I P E V G V C V Y F A N N K L L R
U N I R E F 9 0 _ H 3 F V V 7 P L T G I S S D A T A N L T A A F R V A A H P P S T N E P A G V L V V A N D E I H S
U N I R E F 9 0 _ E 3 Q Q I 5 N P T L A G A D G P A N L L A A V R V A S H E Q F S S G V Y V A T N D E V H A
U N I R E F 9 0 _ U P I 0 0 0 3 4 B D 5 7 F R P D E T S P D G P A N L L A A V R V A S H E Q F S S G V Y V A T N D E V H A
U N I R E F 9 0 _ L 9 V U U 3 P I S A M R S D A R E N L M T A L E I A M D G K P I V P E V C I F F N H L L R
U N I R E F 9 0 _ M 7 X 0 G 3 P I S K D V T D A K N L L D S F I Y A A D D E S Q N V S I V F D G K V I C
U N I R E F 9 0 _ D 4 I Z T 8 P I S K D V T D A K N L L D S F I Y A A D D E S Q N V S I V F D G K V I C
U N I R E F 9 0 _ U P I 0 0 0 4 2 3 2 1 1 D P I D L A I T D A R A N L L T D S L R F A A N D S R A H G V N I V F G G K V I A
U N I R E F 9 0 _ C 6 L I H 9 P S T S V S A D G P M N L Y Q A I C I A A S D S K S R G R G V L S L N D Q I S A
U N I R E F 9 0 _ H 2 A S 2 5 P I G V A R T D A R E N F I T A L E I A A A Q Q P V P E V C I Y F N S M L L R
U N I R E F 9 0 _ I 2 G I W 7 P I Y E L K N D G R D N L L Q A L L I A G Q Q F V I P E V C L Y F Y N K L L Y R
U N I R E F 9 0 _ H 2 M N 7 8 H L G E A G Y D G R N L L Q N G L I A C T S L P P G G D V L V Q M A D W L F S
U N I R E F 9 0 _ Q 6 A P K 1 P I F E T R T D G K D N F T S A L I A G N Y V I P E V C V F F G H K L M R
U N I R E F 9 0 _ W 8 B Y Y 9 P I G L A R T D A R E N I T T A L E I A A A Q W P L V P E V C C I Y F Y N K L L Y R
U N I R E F 9 0 _ F 8 E B A 7 P I Y E L R N D G R A N L L G A L L I A G Q F V I P E V C C I Y F Y N K L L Y R
U N I R E F 9 0 _ K 7 G 1 W 5 P I G Y E L R N D G R A N L L G A L L I A G Q F V I P E V C C I Y F Y N K L L Y R
U N I R E F 9 0 _ R 6 J T A 0 P L E A M Y T D A K K N L S D A I R F A C E E I R G V Y V F D G I V I N

UniRef90_H5UQB1 G R D V V K R A A S T L D A F A S L H G P V G E V V A G R L H V H V T S R R A 170 180 190 200
UniRef90_Q2BQ06 G N R S S K V K S S S G F D A F D S P N F H G Y W L A N V G I N T E L L Q Q N L L L K Q
UniRef90_I4X4U5 A K Y R A V K V H S S N L Q S A F D S F G S H G Y V G L I T A M D N T V R V Y Q K P V M H
UniRef90_R6GZ65 G C R A V K V R A S S N G F S A F D S P N S Y H Y G R V T A M G L E L D E T M L P R
UniRef90_C7LP92 G C R S T K V D A S G F Q A F D S P N S Y P D L G H I G V T I R P H P E L L L L
UniRef90_UPI0002FF1A32 G T R A K K E F S S K S Y F G A F D S S P N S Y P D L A S V H D N R I I F R Y I D D K D Q
UniRef90_S6CFA8 G N R A T K V S S T S N F G A F D S Q S F N Y P P L A D M D L H I V F R E R L L A R P
UniRef90_H1HJE3 G N R S T K R N A D G F D A F D S F N Y Q H L C E A G V D F H F Q E H N I L Q P
UniRef90_S5F3L5 A K F V T K T H T T N R V A T P F Q T S P T F G P C G L V T E K E S V L F F Q K L T T Y
UniRef90_J0KFA0 A Q R V T Q K V H P Y R V D P F F S G D A G P L G W V E E G A V R L V Q G W P A V
UniRef90_C5LZU7 G C R S V K V D S G S I E A F E S P N F P P L A T L G V G I H F N Y H L L L P A
UniRef90_R4VT89 G T R V R K N H T S R R D A F E T I G A K P Y I G E V S D G R M L A L H S P Q V R
UniRef90_R6AVW6 G C R A V K K T R T T S L N A F E S I N Y P P L I E S G V H L K A Q Y S F L Y R V
UniRef90_UPI000255B1CE G N R T T I K I N A E H F E A F T S P N Y P P L I E S G V H L K A Q Y S F L Y R V
UniRef90_K1YF64 G N R T T K Y N A E D F R A F R S A N Y P P L A E I G L I K Y N T S Y I L R Y
UniRef90_F4X9G4 G T R A R K E R T K S F N A F S S V D Y P P E L A V I R D G K L R Y L A E L E Y
UniRef90_D3HW21 G N R S T K I N A D G F N A F E S S Y N Y P H L C D A G V T F N Y H P H N I L
UniRef90_U1YH16 A K Y I T K V H A S N L Q S F D V F G F G Y F G I I D N D V V K I Y Q K P V C N
UniRef90_Q6CQZ8 G Y Y V I T K T N A N S L D S G F N V R Q G Y L G N F V N N E I H Y Y Y P P V K P I
UniRef90_H1Z4H4 G T R V R K M H T S R R D A F R S I D I D L G K V E Y P S L E V S L N K H A V
UniRef90_V6SBK4 G N R T T K I S A E H F D A F S S P N Y P P E L A E S G V D L K V N T D L L K K
UniRef90_A3HYL2 G N R S K K V Q S V H F D A F E S E N F P P L A E A G L V I D Y N T A A I R
UniRef90_UPI0003767DAD G N R S T K V H A S E D V D A F A S P N Y P P L F E A D S A M L P L P E H Q Q K A
UniRef90_A4FWR5 G T K V R K L H S S R R D A F K S V N E T P I A E I F K K V T Y L R D V K S Q
UniRef90_Q1J287 A R T V T K N H T T A V D A F G G Y P G P I G R I D R T G D V A H L R Y F S F A M
UniRef90_Q18GL3 G T R V R K N H T S R R D A F K T V G A T P I G K I E Y D T E T V S F H R D H A
UniRef90_UPI0003FC406F G N R A T K A D A N G F N A F D S P N F R P P L L E A G I Q I S L K A G S V K P L
UniRef90_R41A4 G N R T T K V N T D S F D A F A S P H L P P L L E V G T H I S I N S A T G L I
UniRef90_E6N6D9 G T R V V K L H T S S R G A F Q S I N A S P I A V K T P Q G L K I L I T G F
UniRef90_UPI000419C573 G N R S K K V E S S L F N A F K S V N Y P A L A M A G V N I E Y R P M L I R S L
UniRef90_C6A532 G C R T S K V R T L G L N A F M S I N Y P D V A Y V K G E K I L Y N I P K E K F
UniRef90_I3YLJ5 A N R T T K R S A E A L S A F R S S Y N Y P P L A E V G V N I A Y N L P A I L H
UniRef90_UPI00029B04BA A N R T T K I N A E H F G A F S S S N Y P P L A E S G V Y L S V N H S A L W
UniRef90_B1KEJ9 G N R T T K A H A D G F G A F A S P N F P L L E A G V I K R V N K A G K I A T D
UniRef90_B8GH20 A T R V R K M H T S R R D A F Q S I G S S P I G T I A Y P S L E V N L T A D A V
UniRef90_Q92A68 A R Y V K K V H A S N L Q G F S A F G F G Y L G I I D N D Q V F L Y Q K P L E H
UniRef90_UPI00037F5797 G N R C K V S S D Q F K A F D S P N Y P C L A H A G D I H Y H P E V L M R N
UniRef90_R7ACG3 G A H A M K I K T R S S D A F E T V N F P V I A E I K L G R I T Y N Q H L Q Q L
UniRef90_UPI000374DC3E G T R V R K N H T S K R G A F E T P M G G D P A F I V T P T L E I Q R N M Q D D F
UniRef90_UPI000209AD8 A R F V T K N H T T N J A T F G S P I S G V M G L L T K R Q I I Y L Y N L P K R
UniRef90_V6IYM1 G T R A I K I R T K S Y D A F E S I N Y P Y I A S I G E Q D I Q I N F Q
UniRef90_H5WP43 A A D V R K A D C L V D A F D S G E A G A L A R L E G G V L R W R A W P A G
UniRef90_H8KN48 G N R A T K A F D S E K F Q A F T S T N Y H P L A E A G I R L K Y N E K Y I P Q
UniRef90_UPI0003D0D0C0 G N R V T K V D A G S F S A F C S P N L P P L A N A E V D I T I N W E T V W R A
UniRef90_R5ZAD6 G N R S I K F S A N D L N A F M S P N Y P P L A D V I G L D I N Y H T A A F M
UniRef90_C5A6T2 G T R V S K V H S L G L N A F S S I N Y P P I A Y I K G E V V I R H R P
UniRef90_W0P797 G N R T T K S H A D G F D A F S S P N L D P L L E V G V N I R Y L Y K E K L H N
UniRef90_J4UBK2 G T R A K K M M A K S F N A F H S V N F P P V A R I Q E K H I T R Y I P Y L P M
UniRef90_L8HE50 G N R S T K A D N W G V A F E S P N Y P P L G V L G V D I H I D Y Q F V A S P
UniRef90_I2GVG3 G Y Y I T K S N A N S L D S F N V R Q G Y L G N F V N N E I H Y Y Y P P V K P
UniRef90_F6FST3 A R D V T K T N S Y R M D A F Q S R E Y V V L G W V D Q N D I T L G R A T P R V
UniRef90_I7L8U7 G C R S V K V R T I N F N A F E S V N Y P V V A Q V T S D G L V F N E E A K I
UniRef90_R7J1F3 G N R S T K R S A D N F N A F K S H N Y P A L A K I G L G I H F E P K A L A R P
UniRef90_F9Z5A7 G N R T T K I N A E S F D A F Q S F N Y P P L A E I G L H L H Y N Y G A I D Y T
UniRef90_U1R265 G T R V R K N H T S R R D A F E T V G G E P L G R V D Y D G T V A L R E E A D
UniRef90_G0J7M0 G N R A K K V Q S V H F D A F E S E N Y P P L A E S G I V T D Y N Y S A I R P Y
UniRef90_R7GHJ1 G T R A V K V R T T S F H A F E S I N T P P V G I V D S H G L T L Q K N L T P R
UniRef90_UPI00031LP02 G V K V R K M H T S R R D A F Q S I N D R P L A K V I W K D K V E M L R S
UniRef90_F8AHM4 G V R V S K V R A V G L N A F Q S I N Y P D I A Y V K G N R I H W N A K P P K L
UniRef90_UPI0003B641C8 G N R T T K Q Y A D G F D A F V S P N Y P A L G E A G I E K K L N E K N E L S
UniRef90_G8BSM6 G Y Y I T K T N A N S L D S F N V R Q G Y L G N F V N N E I H Y Y Y P P V K P
UniRef90_UPI00047B08D3 S K Y V K K I H T S H I N G F G V S G F G H L G N I D Q K V V T I F S R P T I
UniRef90_K0DE41 A R F V T K T H T T N V A T F G S P I S G T M G L L T K R R I I F F Y Q L
UniRef90_E1STP2 G N R S T K V H A D G F A A F D S P N L K P L L E A G I E I R L G G V T L A E P
UniRef90_I0A2J6 G T R V R K M H T S R R D A F Q S I S L P L A K I F P A E K K I E I R K D A K
UniRef90_L0A2C0 A R T V T K A D T A L G A F G G Y P G P I G R V D G K R L R F F A R P E E R
UniRef90_UPI000362135E G N R S T K A D A D G F N A F A S P N Y P A L L E A G I Q I K F N P D A N P L
UniRef90_R7N6L2 G A H A R K V K T R S Y D A F E S V N Y P V V A H I K H S S I T H N E A V Q G
UniRef90_D9QV03 G T R A I K M R S K S M N A F E S I N R P Y V A S I K L G K I T Y N N E Y E I M
UniRef90_UPI0003703EF6 G N R S S K L K A T G F E A F E S P N Y P P E L A N V G I Y I E L N H S A L P V
UniRef90_UPI0003677639 G N R S R K L N A Y L F D A F D S P N Y P P L G R A D I H V E L N E T L L W Q P
UniRef90_UPI00035F1816 G N R T T K Q Y A D G F D A F V S P N Y P P L L E A G I E K N I A G Q T Q K S
UniRef90_A8A8Y3 A T R T K K F H S T R R D A F Q S I C A Q P L A Y V W P E T G D V E P K S R P L
UniRef90_I3D7B0 G N R S K K V D A T N Y F G F S S P N Y P P L G E I G A E I K T S W D K I L P P
UniRef90_R5EMA2 G C R A V K V R A S G F A F E S V N A R Y A A L V S N R G L V V D T D V L P R
UniRef90_D5VW09 G R E V K I L D T N A L Q A F G A P G W G V G R I D R G Q V F L V R E E R D R
UniRef90_H3FVV7 G N R T V K T D N S A L S A F D S P N M L P L A R M N I N I K V N Y D S I F R S
UniRef90_E3QQI5 P R Y V T K T H T L R L G T F N S P W L G P I G Y V D G E D V N M V S R Q A S
UniRef90_UPI00034BD57F A G R V R K T H T T S V A T F R S P N G G P L G Y V V E G T P R L N H
UniRef90_L9VUU3 A R D V T K T H T S A L E T F D S P S T G P I A A L T R S D V R V I R E P R S Y
UniRef90_M7X0G3 G N R S K K V Q S V H F D A F E S E N Y P P L A E A G I I D Y N F A A I S P L
UniRef90_D4IZT8 G T R A K K E R A K S F N A F E S I N F P P L A V I Q D G V I R Y I P E V P V
UniRef90_UPI000423211D G T R A K K E R A K S F N A F S S I N F P P L A I I Q D E R I I R Y I P D K D R
UniRef90_C6LIH9 G T R A K K E R S K S Y N A F S S I N Y P P I A V I Q E N R I I F Y L D D K D R
UniRef90_H2AS25 G Y Y I T K T N A N S L D S F N V R Q G Y L G N F V N N E I H Y Y Y P P T K P
UniRef90_I2GIW7 G N R A T K Q E S V Q F N A F H S E N Y P H L A T A G V S I D Y N Y P F I R P F
UniRef90_H2MN78 G N R V T K V D A G S F N A F S S P N L P P L A T S E V D L S T N W D T V W R A
UniRef90_Q6APK1 A Q D A I K Q D S L S V D P F V S Q S R G A V G R I A G T L I L N Q N I S K R
UniRef90_W8BYY9 G N R T V K I S A D R L E A F D T L N V P P L G I T G I N V E I D Y R L I F R P
UniRef90_F8EBA7 G N R A K K E S S Q F N A F R S E N Y P A L A E V G V T I E Y N Y P I A P Y
UniRef90_K7G1W5 G N R V T K V D A G S F N A F S S P N L P P L A N A E V D I T N W E T V W R A
UniRef90_R6JTA0 G T H A M K V K T R N A D A F K S I N Y P V I A H I K H G R I T Y N E V L E P L

UniRef90_H5UQB1
UniRef90_Q2BQ06
UniRef90_I4X4U5
UniRef90_R6GZ65
UniRef90_C7LP92
UniRef90_UPI0002FF1A32
UniRef90_S6CFA8
UniRef90_H1HJE3
UniRef90_S5F3L5
UniRef90_J0KFA0
UniRef90_C5LZU7
UniRef90_R4VT89
UniRef90_R6AVW6
UniRef90_UPI000255B1CE
UniRef90_K1YF64
UniRef90_F4X9G4
UniRef90_D3HW21
UniRef90_U1YH16
UniRef90_Q6CQZ8
UniRef90_H1Z4H4
UniRef90_V6SBK4
UniRef90_A3HYL2
UniRef90_UPI0003767DAD
UniRef90_A4FWR5
UniRef90_Q1J287
UniRef90_Q18GL3
UniRef90_UPI0003FC406F
UniRef90_R41A4
UniRef90_E6N6D9
UniRef90_UPI000419C573
UniRef90_C6A532
UniRef90_I3YLJ5
UniRef90_UPI00029B04BA
UniRef90_B1KEJ9
UniRef90_B8GH20
UniRef90_Q92A68
UniRef90_UPI00037F5797
UniRef90_R7ACG3
UniRef90_UPI000374DC3E
UniRef90_UPI00020D9AD8
UniRef90_V6IYM1
UniRef90_H5WP43
UniRef90_H8KN48
UniRef90_UPI0003D0D0C0
UniRef90_R5ZAD6
UniRef90_C5A6T2
UniRef90_W0P797
UniRef90_J4UBK2
UniRef90_L8HEU5
UniRef90_I2GVG3
UniRef90_F6FST3
UniRef90_I7L8U7
UniRef90_R7J1F3
UniRef90_F9Z5A7
UniRef90_U1R265
UniRef90_G0J7M0
UniRef90_R7GHJ1
UniRef90_A0A031LP02
UniRef90_F8AHM4
UniRef90_UPI0003B641C8
UniRef90_G8BSM6
UniRef90_UPI00047B08D3
UniRef90_K0DE41
UniRef90_E1STP2
UniRef90_I0A2J6
UniRef90_L0A2C0
UniRef90_UPI000362135E
UniRef90_R7N6L2
UniRef90_D9QV03
UniRef90_UPI0003703EF6
UniRef90_UPI0003677639
UniRef90_UPI00035F1816
UniRef90_A8A8Y3
UniRef90_I3D7B0
UniRef90_R5EMA2
UniRef90_D5VW09
UniRef90_H3FVV7
UniRef90_E3QQI5
UniRef90_UPI00034BD57F
UniRef90_L9VUU3
UniRef90_M7X0G3
UniRef90_D4IZT8
UniRef90_UPI000423211D
UniRef90_C6LIH9
UniRef90_H2AS25
UniRef90_I2GIW7
UniRef90_H2MN78
UniRef90_Q6APK1
UniRef90_W8BYY9
UniRef90_F8EBA7
UniRef90_K7G1W5
UniRef90_R6JTA0

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

UniRef90_H5UQB1
UniRef90_Q2BQ06
UniRef90_I4X4U5
UniRef90_R6GZ65
UniRef90_C7LP92
UniRef90_UPI0002FF1A32
UniRef90_S6CFA8
UniRef90_H1HJE3
UniRef90_S5F3L5
UniRef90_J0KFA0
UniRef90_C5LZU7
UniRef90_R4VT89
UniRef90_R6AVW6
UniRef90_UPI000255B1CE
UniRef90_K1YF64
UniRef90_F4X9G4
UniRef90_D3HW21
UniRef90_U1YH16
UniRef90_Q6CQZ8
UniRef90_H1Z4H4
UniRef90_V6SBK4
UniRef90_A3HYL2
UniRef90_UPI0003767DAD
UniRef90_A4FWR5
UniRef90_Q1J287
UniRef90_Q18GL3
UniRef90_UPI0003FC406F
UniRef90_R41A4
UniRef90_E6N6D9
UniRef90_UPI000419C573
UniRef90_C6A532
UniRef90_I3YLJ5
UniRef90_UPI00029B04BA
UniRef90_B1KEJ9
UniRef90_B8GH20
UniRef90_Q92A68
UniRef90_UPI00037F5797
UniRef90_R7ACG3
UniRef90_UPI000374DC3E
UniRef90_UPI00020D9AD8
UniRef90_V6IYM1
UniRef90_H5WV43
UniRef90_H8KN48
UniRef90_UPI0003D0D0C0
UniRef90_R5ZAD6
UniRef90_C5A6T2
UniRef90_W0P797
UniRef90_J4UBK2
UniRef90_L8HE50
UniRef90_I2GVG3
UniRef90_F6FST3
UniRef90_I7L8U7
UniRef90_R7J1F3
UniRef90_F9Z5A7
UniRef90_U1R265
UniRef90_G0J7M0
UniRef90_R7GHJ1
UniRef90_A0A031LP02
UniRef90_F8AHM4
UniRef90_UPI0003B641C8
UniRef90_G8BSM6
UniRef90_UPI00047B08D3
UniRef90_K0DE41
UniRef90_E1STP2
UniRef90_I0A2J6
UniRef90_L0A2C0
UniRef90_UPI000362135E
UniRef90_R7N6L2
UniRef90_D9QV03
UniRef90_UPI0003703EF6
UniRef90_UPI0003677639
UniRef90_UPI00035F1816
UniRef90_A8A8Y3
UniRef90_I3D7B0
UniRef90_R5EMA2
UniRef90_D5VW09
UniRef90_H3FVV7
UniRef90_E3QQI5
UniRef90_UPI00034BD57F
UniRef90_L9VUU3
UniRef90_M7X0G3
UniRef90_D4IZT8
UniRef90_UPI000423211D
UniRef90_C6LIH9
UniRef90_H2AS25
UniRef90_I2GIW7
UniRef90_H2MN78
UniRef90_Q6APK1
UniRef90_W8BYY9
UniRef90_F8EBA7
UniRef90_K7G1W5
UniRef90_R6JTA0

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

UniRef90_H5UQB1 V V V D D D A H D W V A G G D L P G K A R D L L A L A L 310 T R T T E T A E E I Q R 320
UniRef90_Q2BQ06 S V N Q G A Y A T G V S G G D M T L E A A F T K M H Y L I S Q S R S A E E L R T
UniRef90_I4X4U5 N T Y P A Y S Y P G I L G G S D Y D T S K K A R I K L S V L L S A N
UniRef90_R6GZ65 S S N L N V Y V G I L G G D M T T E A A M T K L M W A L S Q G F Q P E E I R A
UniRef90_C7LP92 T V D Q G G Y Q A G V S G V D M T A E A A L T K M I Y L F S L D L P P E D I R Q
UniRef90_UPI0002FF1A32 S D M E V Y Q A T G V S G Y D M T L E A A S V T K M M W V L G Q T Q D L R E C R R
UniRef90_S6CFA8 G V E E K R Y A T G V S G Y D M T C E A A L T K M H L F G Q G L T
UniRef90_H1HJE3 F V E M E R Y D T G V S G R D S T V E A A V T K L M Y L Y G R G N D T Q T I R H
UniRef90_S5F3L5 I T Q D V Y D Y V G I F T K G L S G Q K A R I K L M V L L S Q T L D
UniRef90_J0KFA0 Q L L P T P G N A L V A A P G L S P V K A R I S L V L D L
UniRef90_C5LZU7 R V E L N A Y A V G I S A G D M T V E A A V T K L S Y L L G R G L P L Q Q I R R
UniRef90_R4VT89 R V C D R V Y D T G V E G D M L P G E A A T V K L M W T L A N R S P D S V A R N
UniRef90_R6AVW6 Q S T P D L Y E V I I S A G D M T T E A A I T K L M W V L G H T S G L D G V I R N
UniRef90_UPI000255B1CE G V V M G H Y E Q L I S G K D T T E S A V T K A M Y L L G Q E V D P A L F K S R
UniRef90_K1YF64 K V D M D A Y S T G I S G F D S T T E A S L T K L F F L L G H T S D L Q E I K R R
UniRef90_F4X9G4 S D M E V Y K Y Q L M E A Y N M T L E A A T A K L M W A L G Q T R E S G Q V I R R
UniRef90_D3HW21 T V A M E R Y D A G V S G R D S T V E A A V T K L M Y L Q A R Y H D P R I I R E
UniRef90_U1YH16 H V Y T T Y D Y P G S A G K Y D N S K K A R M R L A V L L A S D L D D I K E R T
UniRef90_Q6CQZ8 M I P V Q D P S T I I A S G Y L N P V K S R I L L Q L C K Q Q Y N M E K I R T R
UniRef90_H1Z4H4 R V C D R V Y D T G I E G E D M L P E V A M V K L M W V L G M E D D K E K V R Q N
UniRef90_V6SBK4 S V N M N K Y E T G I S G H D T T E A A I T K L M Y L L G Q Q V S S S D F K N K
UniRef90_A3HYL2 R V I Q G R Y E T V I S G T D M T T E A A V T K L I F L L G Q G H Q S T E E V K K
UniRef90_UPI0003767DAD S V N M A V Y A T G K A G Y D M T L E A T I T K L H F L L S Q N M P I A E V K L
UniRef90_A4FWR5 R V N M N V Y S N G I P C E D M L P E V A F V K L M H L L G N Y G F E E S K E R
UniRef90_Q1J287 P V I P L Y G Y P G I P A S F L N A H K A R L L L V L L S L G R D L G E I R R
UniRef90_Q18GL3 R V C D R V Y D T G V E A G D T L P G T A K V K L M W A L A N H P D P
UniRef90_UPI0003FC406F K V N M G G Y A T G I S G F D M T I E A A L T K L H Y L L A Q N L S Q A E Q I E R R
UniRef90_R41A4 R I N M E G Y A T G I S G F D M T I E A A T L T K L Y Y L F S Q R L T L E A E I R C
UniRef90_E6N6D9 R V N M N V Y E N G V P L D N M L P E T A M V K L M W V L G K K A S Y E T V K N
UniRef90_UPI000419C573 R V E D Q R Y E M G V I G G D T T S E A A V T K L M Y V L G L G L P R E E T R K E
UniRef90_C6A532 G H T M R K Y E V G I P A K D M T K E A T I T K L M W A L G H T K D V E K I R E
UniRef90_I3YLJ5 K V S M E L Y E T G L C G H D M T T E A A V T K L M Y V L G L D L P D D R T R A
UniRef90_UPI00029B04BA S V A M G N Y E T V V S G K D T T E A A I A K L M Y L L G K E L S P K E V F K T
UniRef90_B1KEJ9 K V N M K Y A T G I S G S D M T T E A A L A K L H Y L L S T S L T P N E I R T R
UniRef90_B8GH20 R V C D R V Y D T G V E G G T L L P E V A L V K L M W V L G Q E K D E E K A R M
UniRef90_Q92A68 N V Y T T Y D Y E G I L G K D Y D S K K A R M K L M V L L A S Q S E E I
UniRef90_UPI00037F5797 N V K M E R Y A T G V S G H D M T V E A A L A K L M H L L G S G K S S D E V K R
UniRef90_R7ACG3 G I D L S I Y E V G I T I G A D M T T E A L T M K L M W A L A H Y D S I E A I K E S
UniRef90_UPI000374DC3E S V R M T V Y E S G R P L E N M T P E T S L V K A M W A S G N S E N A D E I K R
UniRef90_UPI00020D9AD8 V A E P V Y D Y L G I F A T S I N G Q K A R L K L I G L D N H L I D E R L R K
UniRef90_V6IYM1 Q N M D L Y A G G I T A G D M N T E A I V A K L M W V L S Q T S D P A T L K R
UniRef90_H5WP43 A V V G R G A G A L P H A G A L S P V K A R I E L M L Q L
UniRef90_H8KN48 T V E L G H Y E M G I L S G D M T Y E A A I T K L M F V M A Q N L P A E E L K L
UniRef90_UPI0003D0D0C0 T V T P V Y A V G V I P G S D M T P E A A L A K L S Y V L S K T D S W E E K R E
UniRef90_R5ZAD6 T V S L G R Y A G A V S G Y D T T E A C V A K L Y Y L F S K G Y D S N K I T K R
UniRef90_C5A6T2 G V D L R T R Y E V G I P A G D M T K E A T L V K L M Y A L G R T N G L E E V R R
UniRef90_W0P797 R V N M N G Y A T G I S G Y D L T I E A A L T K L H F L L S Q N I S K E K I R R
UniRef90_J4UBK2 G S N M E I Y V G I E A Y D M T L E A T I T K L M V L L K R Y T S Y S D L V R R
UniRef90_L8HE50 R V R R A D Y E T A I I G C D M T T E A A V T K L A Y L L K G Y P R E T V R Q
UniRef90_I2GVG3 M V P D K S Q S N T I A S G Y L S P E K S R I L L Q L C L N N K Y S M D E I R H
UniRef90_F6FST3 G S V Y G G S G N V I A G G D L T P I K A R L L L A L S L T F S D D V E Q V I A Q
UniRef90_I7L8U7 R S D L T R Y E V G I S A C D M T T E S A V T K L M W A L G Q S M D V K E I R
UniRef90_R7J1F3 G V H A T R Y V G G V S G H D L T F E A A I T K M M F L L A Q D L T T T Q L R
UniRef90_F9Z5A7 T V E M G R Y Y G V S S G Y D L T M E A A V C K M M Y L L E K Y R D A N E I K K
UniRef90_U1R265 R V C D R V Y D T G V E A G D T L P G T A K V K L M W A L A N R P E S V I K Q
UniRef90_G0J7M0 R V I Q G R Y Q T S M S G A D T T E A A I T K M M F L L A N E P D E T E I K R T
UniRef90_R7GHJ1 A A N F N I Y V G I E A Y D M T T E A A I T K L M W A L G Q T N D I K K I R T R
UniRef90_UPI00031LP02 R V N M N V Y T T G V P L E D M L P E V A L V K L M W V L A H E Q D I K E R I K T R
UniRef90_F8AHM4 G V D L T K Y K V G I P A G D M T K E A T I T K L M W I L G H T R D V G E V R R
UniRef90_UPI0003B641C8 A V N M Q G Y A T G I S G G D M T T E A A V I A K L Y Y L L S Q K V S Y V Q L V E
UniRef90_G8BSM6 M I P D G T F G N I I S S G Y L N P E K S R I L L Q L C L F G N Y T I S E I R R
UniRef90_UPI00047B08D3 R V F A A Y D D L G I L I G G D Y D S K K A R M K L A V L L S A G F L I E I K
UniRef90_K0DE41 V A E P V Y D Y L G I F V T S I N G P K A R L K L M I G L S N H L N H V A E R C
UniRef90_E1STP2 K V N M A G Y A T G I S G F D M T T E A A L A K L H Y L L S Q P L S F A E R L Q
UniRef90_I0A2J6 R V N M N V Y S T G I S G E N M L S E T A F V K L S W L L G N F K D E E E I T R
UniRef90_L0A2C0 P V L P L Y G Y A G I P A S F L N A H K A R I L L V L L S L G R S R E E Q I R E
UniRef90_UPI000362135E S V N M S G Y A T G I S G T D M T I E A C A K L H F L L S S T L S R E E I R R
UniRef90_R7N6L2 G V D L D T Y E V G I T A A D M T T E A V V M K L M W A L A H K N A V T D I K R
UniRef90_D9QV03 G V N L G V Y E V G I T A D M N T E A I V G K L M W A L G N F N N L S D V I K C
UniRef90_UPI0003703EF6 R V K S L G S Y A A G I A A A D M T V E A A Y T K L H H L C A M Q L S A E E I R R
UniRef90_UPI0003677639 T V H Q G S Y A A G V G G L D T T T E A M F C K L H H L Y S L G L S T E E I K A R
UniRef90_UPI00035F1816 S V N M E G Y A T G I S G L D M T T E T V T A K L Y Y L L S Q G L S N K V I R K
UniRef90_A8A8Y3 T N L N V Y A T G R P L G D M T T E V A T V K L M W A L A N Y P N E E V P
UniRef90_I3D7B0 S V I E H G K Y A C V V S A K D M T T E A S I T K L M Y L L G K K Y S Y E E I Q E
UniRef90_R5EMA2 S A D L Q V Y V G G I Q G R D M T S E A A M T K L M W A I G Q G M N P A Q V V S E
UniRef90_D5WW09 A V A P L I Y G D V G W F A G D I A G E K A R I L L G L M L A S G L S R E E M Y R
UniRef90_H3FVV7 Q V D M H Y D T G V I P G S D M T S E A A M A K L C Y V L G R N D D H E K K K K
UniRef90_E3QQI5 K V Q C H R K L G L I A G N D L N P Q K A R I L L S L C L S R G D D Q K T I T E R
UniRef90_UPI00034BD57F G L A A T Y G F P G I R A G F L D P Y K A R V L L W A L L A T G H D D P D I T E
UniRef90_L9VUU3 V T A P V Y G G G G I H G D D L P A H K A R V K L A V V C A V A D A F E E R R R
UniRef90_M7X0G3 R V I Q G R Y Q T V L S G G D L T T E A A I T K M M F L L G N E T K D S E V R R
UniRef90_D4IZT8 S N M T L Y E F H M I E S Y D M T L E A T M T K L M W L R G L N Y S N K R L R E
UniRef90_UPI000423211D G S N M T V Y E V G I E S Y D M T L E A T I T K L M W L R G M N Y S N A R L R E
UniRef90_C6LIH9 S D M S I Y Q V G K V M S Y D M T L E A T V A K T M W A L A R S T D A A F R N
UniRef90_H2AS25 M I P I G S H C N V I A S G Y L N P E K S R I L L Q L C L A E N Y S L N E V R R
UniRef90_I2GIW7 R V T Q G R Y Q I G V I S G D T T E A A I T K L M I L L G R E S D A R R I S T
UniRef90_H2MN78 T V S A S Y E A P L I A G G D M T P E A A L S K L S Y V L A K N L G L S D A K K K
UniRef90_Q6APK1 G V A P I Y D Y P G I S A G A L N G T K A L L L K I A I S N Q V D R S L Q E
UniRef90_W8BYY9 S V A K V Y E E I G V I S G D M T P E A A L T K L S Y V L G K G L S L E R K E
UniRef90_F8EBA7 R V T Q G R Y Q T V V S G G D T T E A A I T K M M G V L G R E T D I E R R
UniRef90_K7G1W5 S V V A V Y E V G A I P G G D M T P E A A L A K L S Y L L S K D L C W E E K K
UniRef90_R6JTA0 G I D L N V Y E V G I M S G D M T T E A L T M K L M W A L A H Y D N I D D I K K

UniRef90_H5UQB1	<input type="checkbox"/> F <input type="checkbox"/> D <input type="checkbox"/> H
UniRef90_Q2BQ06	
UniRef90_I4X4U5	
UniRef90_R6GZ65	<input type="checkbox"/> F
UniRef90_C7LP92	T M
UniRef90_UPI0002FF1A32	<input type="checkbox"/> F Y K
UniRef90_S6CFA8	
UniRef90_H1HJE3	
UniRef90_S5F3L5	
UniRef90_J0KFA0	
UniRef90_C5LZU7	A F E
UniRef90_R4VT89	T M R T
UniRef90_R6AVW6	M M Q T
UniRef90_UPI000255B1CE	<input type="checkbox"/> F E T
UniRef90_K1YF64	M <input type="checkbox"/>
UniRef90_F4X9G4	<input type="checkbox"/> F E Q
UniRef90_D3HW21	K M N Q
UniRef90_U1YH16	<input type="checkbox"/> F
UniRef90_Q6CQZ8	<input type="checkbox"/> F
UniRef90_H1Z4H4	<input type="checkbox"/> M
UniRef90_V6SBK4	A F E T
UniRef90_A3HYL2	
UniRef90_UPI0003767DAD	A M K K
UniRef90_A4FWR5	<input type="checkbox"/> M S K
UniRef90_Q1J287	<input type="checkbox"/> F E
UniRef90_Q18GL3	
UniRef90_UPI0003FC406F	
UniRef90_R41A4	Q M Q Q
UniRef90_E6N6D9	<input type="checkbox"/> M <input type="checkbox"/> K
UniRef90_UPI000419C573	L L E S
UniRef90_C6A532	I M H T
UniRef90_I3YJL5	L L R
UniRef90_UPI00029B04BA	<input type="checkbox"/> Y E T
UniRef90_B1KEJ9	A M Q Q
UniRef90_B8GH20	M M
UniRef90_Q92A68	
UniRef90_UPI00037F5797	<input type="checkbox"/> M
UniRef90_R7ACG3	Y M E
UniRef90_UPI000374DC3E	<input type="checkbox"/> M <input type="checkbox"/> E
UniRef90_UPI00020D9AD8	Y L Q T F
UniRef90_V6IYM1	M <input type="checkbox"/> Q T
UniRef90_H5WVP43	
UniRef90_H8KN48	M <input type="checkbox"/> S T
UniRef90_UPI0003D0D0C0	
UniRef90_R5ZAD6	<input type="checkbox"/> M E T
UniRef90_C5A6T2	<input type="checkbox"/> M E K
UniRef90_W0P797	
UniRef90_J4UBK2	A F Y E
UniRef90_L8HE50	<input type="checkbox"/> M
UniRef90_I2GVG3	<input type="checkbox"/> F N
UniRef90_F6FST3	W <input type="checkbox"/> E Q
UniRef90_I7L8U7	F F E T
UniRef90_R7J1F3	
UniRef90_F9Z5A7	Y <input type="checkbox"/> N S
UniRef90_U1R265	<input type="checkbox"/> M Q T
UniRef90_G0J7M0	R M
UniRef90_R7GHJ1	<input type="checkbox"/> F E T
UniRef90_A0A031LP02	K M <input type="checkbox"/> E
UniRef90_F8AHM4	<input type="checkbox"/> M <input type="checkbox"/> T
UniRef90_UPI0003B641C8	<input type="checkbox"/> F Q
UniRef90_G8BSM6	<input type="checkbox"/> F
UniRef90_UPI00047B08D3	A F N
UniRef90_K0DE41	Y <input type="checkbox"/> R
UniRef90_E1STP2	M M Q Q
UniRef90_I0A2J6	<input type="checkbox"/> F A T
UniRef90_L0A2C0	<input type="checkbox"/> F E Q
UniRef90_UPI000362135E	
UniRef90_R7N6L2	Y <input type="checkbox"/> E T
UniRef90_D9QV03	F M E T
UniRef90_UPI0003703EF6	
UniRef90_UPI0003677639	M <input type="checkbox"/>
UniRef90_UPI00035F1816	<input type="checkbox"/> L <input type="checkbox"/> V T
UniRef90_A8A8Y3	<input type="checkbox"/> M <input type="checkbox"/> V T
UniRef90_I3D7B0	N F Q K
UniRef90_R5EMA2	<input type="checkbox"/> E
UniRef90_D5VW09	I <input type="checkbox"/> V Q A Y
UniRef90_H3FVV7	L <input type="checkbox"/> Q T
UniRef90_E3QQI5	<input type="checkbox"/> F
UniRef90_UPI00034BD57F	A F
UniRef90_L9VUU3	<input type="checkbox"/> F
UniRef90_M7X0G3	
UniRef90_D4IZT8	A F Y T
UniRef90_UPI000423211D	A F Y T
UniRef90_C6LIH9	<input type="checkbox"/> F Y Q
UniRef90_H2AS25	<input type="checkbox"/> F N
UniRef90_I2GIW7	L <input type="checkbox"/> A T
UniRef90_H2MN78	L M A Q
UniRef90_Q6APK1	L F
UniRef90_W8BYY9	L M Q T
UniRef90_F8EBA7	<input type="checkbox"/> L <input type="checkbox"/> T
UniRef90_K7G1W5	M L S E
UniRef90_R6JTA0	Y <input type="checkbox"/> E

UniRef90_F4G0J6
UniRef90_W5N5J3
UniRef90_W9V1Z8
UniRef90_D7JGL7
UniRef90_R5VLN4
UniRef90_M5JCU9
UniRef90_R6T6P4
UniRef90_A2TX46
UniRef90_B4L5C6
UniRef90_UPI0002490AED
UniRef90_D4LYU2
UniRef90_H1XXT3
UniRef90_A0RZ07
UniRef90_W6WQ07
UniRef90_F0NY24
UniRef90_UPI000366C521
UniRef90_R6LRR1
UniRef90_UPI000345647F
UniRef90_A0A010Q4M8
UniRef90_C5C7R1
UniRef90_R7JSB6
UniRef90_R6RNK2
UniRef90_K6DGD6
UniRef90_UPI0003F06816
UniRef90_B8EIS5
UniRef90_E1QYM9
UniRef90_O57797
UniRef90_R7QWW6
UniRef90_R6E470
UniRef90_UPI000411FC0C
UniRef90_F5J427
UniRef90_UPI000319A70C
UniRef90_R5XR12
UniRef90_Q5WGV6
UniRef90_Q9U518
UniRef90_H1Z9Z6
UniRef90_I2EZJ5
UniRef90_E9G593
UniRef90_A0E9N5
UniRef90_L5NBB4
UniRef90_C7DG76
UniRef90_I6URL2
UniRef90_K6YWG6
UniRef90_M0LVI7
UniRef90_R1E5E5
UniRef90_Q29917
UniRef90_A0A022LKY3
UniRef90_UPI0003B4BD7A
UniRef90_N2AT50
UniRef90_D1PNE9
UniRef90_H9KBY5
UniRef90_C2FVG4
UniRef90_UPI00036BFD89
UniRef90_H0W0T5
UniRef90_U5Q3W0
UniRef90_E8R9J8
UniRef90_L2FFF4
UniRef90_UPI00036AAB02
UniRef90_UPI000304F6FB
UniRef90_R1FUUV1
UniRef90_UPI00032B1BFF
UniRef90_R6K950
UniRef90_A2SGY4
UniRef90_X8K2D1
UniRef90_B5DTT7
UniRef90_B3S6K3
UniRef90_W5J585
UniRef90_L8JKW7
UniRef90_UPI000429DB4B
UniRef90_UPI00035E4FD2
UniRef90_B2RH44
UniRef90_H1DPC6
UniRef90_F4CE49
UniRef90_V2Y1Z7
UniRef90_S5TTT7
UniRef90_W8F5N1
UniRef90_UPI0003618AA9
UniRef90_UPI0002C46CA1
UniRef90_Q2BKT4
UniRef90_R6PIS7
UniRef90_M1NX39
UniRef90_W1NB15
UniRef90_UPI00035D90BC
UniRef90_I7CK44
UniRef90_B4MT17
UniRef90_UPI00047D8E0E
UniRef90_E2C0K9
UniRef90_G2T2Q0
UniRef90_D3L118
UniRef90_S0KHX0
UniRef90_B9JJD2
UniRef90_G3W103

1 10 20 30 40
K V K I I S T G G T I V S K V E Y E T G A V R P A L T T E E I T K F
R V L V I N T G G T I G M V Y H E N V L A P D Y Y D P P E N T M V L P S P
M K R V L I I Y T G G T I G M Q P S E Q G Y V P M K G F H K L S I N K L F R A S
M K K V L L I I T G G T I S M G R K A N N S L A P L S C N Q V L F R A S
K S V L I I Y T G G T I G M I N N P E T G A L C P F N F E Q I V N E
M Q E I L L I Y T G G T I A S Q E T D N G L A P G L K P F D F S Q I L T K N
K P N I L I V Y T G G T I G M I K D Y K T N A L K A F D F S Q I T K N
H V R V I Y T G G T I G M M R N E R N V L A P G A G A S M G P L V L P Y V
M T K L L I I H T G G T I S S H T D E N G S V E K S D H N P L L T L
K R I L L I I N T G G T I S S V K S S K G L V P G M S S G D M L E E
M K K I L L I H T G G T I F G M V P V E P D Q T L A P A R V Q N H E I I N M
L P K V L L L S T G G T I A S R I D Y R T G A V T P A L G P E E I Y Q S
R K P K I A I I G T G G T I S S L A N H P L E I L N Y A S G L L D C D A V V A M
P K I L I I Y T G G T I G M A M D Y D S Q S L T P F D F D N L K K
UniRef90_UPI000366C521
M K K I L M L G T G G T I A S R Q T K D G L A P G L T P E D I L S Y
M T S I L I I Y T G G T I G M I E S E D R Q T L V P F N L K H V L E Q
M S R I V L L A T G G T I S S R E N A A G G S R A S D S A A Q L L A L H H A
M T R V H V L A T G G T I A S R S G E G S G A T A G D A A E A I L A G Y
M K K I L E I A T G G T I A S V K T E N G L T P Q I T P E E D I L S Y
K K K I L I I T T G G T L A C V Q D E K G L V P G L S S E E D I L S Y
K K K V A L I T T G G T I A S K E I S K G L L N S G A M S G E E L A E
UniRef90_UPI0003F06816
Q R P R V I I L S T G G T I A M L A R G S D A G A L R L G A K A L A A A
L K H I L I V A T G G T I A S T P Q G G G L A P G D A G A L R L G S G R Q V A D Y
R I L I L A T G G T I A S V K G E R G Y E S A L S M S K I L K
M K Q I L V I A T G G T I A C R S T E K G L M P Q L E M E D F L N Y
K K R V C I L Y T G G T I G M V P T E L G Y A P K Q K Y F S S L L D E K
N I L V I Y T G G T I G M D Y A A D G K H L T P F D F Q A L L E K
H I L L I Y T G G T I G M V E N P V T G S L E P F D F A H L N S H
M P R V L M L Y T G G T I G M Q P S P Q G Y V P C A G L A E R L A A H L A L G
K K R I L I I N T G G T L S S V T N G E N G L M P G M K S R D M L D E
M R H V M L L T T G G T I A S T T S E S G K L V A G E L S G E E L A K
H V L V L Y T G G T I G M K Y D D D Y V S T Y Y S D A E I R P Y C L P P L
K P A I L L I Y T G G T I G M V K D F K T S G A L R A F N F N Q L V I E R
V L M I Y T G G T L G M V Y D T K S K S L V P F D F Q Q L L V N
K V L V L Y T G G T I G M M R N E N G A L V P A R F G A G N T H K A P L A
K V L L L N T G G T I S M F P S S S G Y V T D Y T Y F K A T D D D L T I P
M K R I L L L S T G G T I G C I Q T E E G L I P I P Q D L V G Y
R L P K I S L I Y T G G T I G S K I D Y K T G G V Y M L L K P E E L L Y E
K I L I L A T G G T I A S V K G E N G Y E A S L S V K E V L D
K H I Y V A Y T G G T I G M K P S K N G F V P A A G Y L S K T L L N
L T I L S T G G T I A S T S G E A G A T P S K S G D D I V A A
K I S I L A T G G T I L S K I D Y R T G G V H M L T K L E E L S M V
R V H V I Y T G G T I G M M R N S S G V L A P A Q P E N S L M V L P M V
V V A T G G T L A G R A T T Q D S Y S N Y R A G T Y P M A E L I P E
R V I V L A T G G T I A S A A T D G G G A V A Q R T A A E L L K A
K N L L I A T G G T I A S N K T K K G L S P T S T G D D L I S Q
M K K I L M L A T G G T I A T L K T E E G K V P Q L T S Q E L L R T
H V L V L Y T G G T I G M I R N E N G V L T E K R F G S M G P L V L P M T
M H N L F I I Y T G G T I G M V K D E L T G S F V P F D F L I A R N
M I I A T G G T I G M R P G F A G L A P A G D F A A R A E H A L N Q
H L L I Y T G G T L G M Q S K G G V L V P G P G L V T L G L P D H A L A
I L L I Y T G G T I G M K Q D Q E T L A L T P F N F D Q I E A E
L P R V T L L G T G G T I A S K V D Y E T G G V T P V L T P G E I L E W
K R V G F I S T G G T I A S I A M D E F D F M D Y N A E R V S G Q R I L D Q
M V L G T G G T I A G T S E V I A G A N V G Y T A Q I G V A Q L A A
K K K V L L I S T G G T I A S G V N P E T G L L T S G M M T G E D L A K Q
M P L I A L A Y S L G G T I S M A P D G A D G G A V P R L G A A D L L G G
S V K N I L I I A T G G T L A S T D S G D G L V P A T D V K K L I S Y
D S L G Y T A A K L G L A Q L L A A
M K K I L L I A T G G T I A S V Q T E N G L K P A I S P E M L L S Y
K R V L V I Y T G G T I G M T P N D N G V L V P L H D P S L Q V P D G F L A
K V L I L Y T G G T I G M K K T E R G Y E P N Y D Q E L F S P P D N L E S
K M P R V L V I Y T G G T I G M M R N E K N A L E P R P L E F V R R I R Q
I L I V Y T G G T L G M V H D E K G A L T I P F D F A S I L N H
M K K V K I L T T G G T I A S R K N E E G R L E A G L Y T G E E L A S R
M G R I V V I S T G G T I A S R R Q G A G L A A D A D G G E V M A
M I E N P E T K V L E A F D F K Y L E T N

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

UniRef90_F4G0J6 V P E L Q D I T S I S A N V L F S I L 50 60 70 80
UniRef90_W5N5J3 V H Q N K R I I Y T V L E Y S P L L L D S S S N I L P N D W T R L A K D I E K Q N W D H
UniRef90_W9V1Z8 R G L Q H L D P H Y D I S S E C F Q S L L D S S S D N I L P N D W T R L A K D I E K Q N W D H
UniRef90_D7JGL7 I P E I Q L M F V N I S S V A F S P L L D S S S D V I K P Q V W A Q L C E Q L I L D N Y E
UniRef90_R5VLN4 I V P E I K E F V N I S S Y T L F P E L D S S S D V I K P Q V W A Q L C E Q L I L D N Y E
UniRef90_M5JCU9 Y F E P R P G F N L S L E T Y F M N K D S S S D V E P S L W Q D L T M A E R I Q K E H I I D
UniRef90_R6T6P4 V P E I R K F A F I D T Y S F P N K D S S S D V E P S L W Q D L T M A E R I Q K E H I I D
UniRef90_A2TX46 I P E L H Q N C N L E S I S F E P I D S S S N M N I D F Y R K I V D I K E E N Y K S
UniRef90_B4L5C6 Q G E A R R N I G V T Q V D T E Y S P L L D S S S N M T M D D W A R I A K D I H N Q A V G Q
UniRef90_UPI0002490AED I G N Q S R N G V T I D Q E E L F N E P S P H M T P A K M L Q I S N K I N A R V G Q
UniRef90_D4LYU2 I R M V S K N L E L E T E D F C S L D S S S N I G P E D W T G L A T L I N A R R H W D S
UniRef90_H1XXT3 V P E I S R L A E I D V L T P F N K D S S S N V G I E E W D L L S Q L I Y E H W D S
UniRef90_A0RZ07 V P E L A K I A E I T P R V I F S E H S E N L Q P D H W K K I A E E L H A A V G S Q
UniRef90_W6WQ07 F P V L N E L A D I L P I P F K A V P S F N I Y Y P E W R D L L R L I R D E R G K
UniRef90_F0NY24 L P E L S L D C D L N Y S F E N I D S S A D M K P E L W L R I G E L I E E E I K
UniRef90_UPI000366C521 I P V D A I S H S T R M I E L M K I L S E D I T T E H W K K I S H A V Y E E I K
UniRef90_R6LRR1 I P A V K N V C E V Q T K Q V C N L D S S T N V T P E H W K M M V K A V E D N Y A N
UniRef90_UPI000345647F V P E L K K D A K L S S F E Q L L D S S D I E S F E H W M A I A E L Y K E I L Q N
UniRef90_A0A010Q4M8 L A D L I S E I Q V I T Q D I F S V E N S F N F S D L A R I D S A V R E I L Q
UniRef90_C5C7R1 M D A T A D V E I T G E D V M T V G S S Y R L G L P E L A T I A R T A R E R A A
UniRef90_R7JSB6 I P S V I E G L C E I T A V N P F N Q L D S S N V V P E N W S T L V K V V Y K E H
UniRef90_R6RNK2 I S D I T D L Y E V D F Y E L F Q L D S S A N I Q P S N W Q A M A E T I Y E K
UniRef90_K6DGD6 L C Q L P E D I E V K I I D V M Q K P S M H I D F G Q M L K V R R A I L I T E L N S
UniRef90_UPI0003F06816 M P T L H D I Y W I Y E Y E L V D S S S N M H V L T N W L H I A Q D L K R A V A A
UniRef90_B8EIS5 V P Q L E A I A D V C D E T R D I L A K P S A S L T L A D Q A L I G E A A V A A
UniRef90_E1QYM9 V P Q A S E V A R V D V V Q P L N I D S S T N M S P A D W L L I A S T E I A G A
UniRef90_O57797 L A G I S S E A K I E A R D L M N V D S S T L I Q P S N D W E R L A K E I E K E V W
UniRef90_R7QWW6 V P K I R E M C C L H A V Q L M N L D S S T N M Q P E N W I A I E A D T I H K E Y D
UniRef90_R6E470 I S Q L K R M P N W D V V E F D P L D S S A N V A V E Q W V N I G R E I R D R
UniRef90_UPI000411FC0C L P E L M R F Q F R L T V P F E P L D S S N M G I E H W L S L G W L I E E V Y H
UniRef90_F5J427 V P E L Q R F R H V D H I V P V I D S S S E I T P E H W K K I S H A V Y E E I K
UniRef90_UPI000319A70C D P Y R L P A F E V V I E M Q P L I D S S A E L M P E A W N R L I A A L E A H W Q
UniRef90_R5XR12 L R M V S R N L E T E D F C L S V I D S S A N I F P E D W A R L A E L A K R
UniRef90_Q5WU66 L C G L P E D I H V S V R S V L Q K P S V H M T L A D W L L K H E V E R A F A
UniRef90_Q9U518 Q H S K K R V V Y W M I E Y D P L L D S S D M T F D D W I H I G K D I Q R A Y D
UniRef90_H1Z9Z6 I P E L H Q L D C A I T Y S F D P I D S S D M Q P S D L W V Q M A S I V E D N Y D
UniRef90_I2EZJ5 V P E L Q R E F E L T I L T L P P I D S S S N I K P S T W I E L A K I K D K F E S
UniRef90_E9G593 L P S L G P D A Y T I Y E Y E P L L D S S S N M T M D D W I N I A K D L R R R S
UniRef90_A0E9N5 I T A F N R R I W F K V D E L D K L D S S N M S D D W V T I A E R V I E K A
UniRef90_L5NBB4 L P L K E E D V Q I D T D T V L N I D S S T N M Q P E H W E I A K A V E A H
UniRef90_C7DG76 I P E L S K I A R L S V A K L F S M S S E D M S Y R E W Q A I A E R V A S E I N K
UniRef90_I6URL2 L A G I H R D C E D C D F L D L K N V D S S T L I Q P S E D W D L A E T I A Q N V K
UniRef90_K6YWG6 M P E F H R P A F T I H E Y D H L I D S S S D M S P S D W Q F I A D D I A K H
UniRef90_M0LVI7 V P E L T S Y A D I E V V E V V Q T P S S F D M S G S L A T I A K R I R T T V L N
UniRef90_R1E5E5 V P D L L D Y V L K I E L P F S I A S E D M L P D N W L E I G K L V K L L N
UniRef90_Q29917 E G A P C R I L Y L D V E Y C P L L D S S S C M G F D E W K Q I A K D V F N A
UniRef90_A0A022LK Y3 I P A I D Q M A N V D I V Q F G N A G S G G Y T I A Q Y R E L T L A V E R A L A
UniRef90_UPI0003B4BD7A A G P A G V D Q V A N D L M K V G S Y L M T H R D M R T I A A A V A A E V A
UniRef90_N2AT50 I A G L P E D C R L H V Q L Q L M N I D S S T N M K P D G W M A I Q K A I A E
UniRef90_D1PNE9 V P E I R E I C Q V E T R Q L F Q L D S S T N V H P E H W K K I A R A I E Q Y D
UniRef90_H9KBY5 A T D S R R I Y N V L E Y S P L I C D S S S N M T M D D W I H I A N D I K Q S Y E
UniRef90_C2FWG4 L P D L S R N Y K L T V H S F P L I I D S S S N M N P T V W I E M A N I V K Q
UniRef90_UPI00036BFD89 L P E A R R Q A R T V E Y D D P I D S S S A R P A Q W Y R I A G D I R H H L E
UniRef90_H0W0T5 L P P A S H G P R V V L E C Q P L L D S S S D M T I D D W I R I A K T I E R H Y E
UniRef90_U5Q3W0 V P E L K F G Y I D S H S F P P I D S S S E I S S S F W V E L A G I A A N Y E
UniRef90_E8R9J8 V P E L A D I A V F N A R E V M S V F S E D I E P S H W T L I S R E V Y K E I L
UniRef90_L2FFF4 I S E I F H G A K P V I Y D F P P I D S S T A I Q P Q D W F T I A Q T C A M A Q
UniRef90_UPI00036AAB02 L P G L E R A G A G A E L Q V A Q I D S S K D M T H A V W A R L A A R C A A L L A
UniRef90_UPI000304F6FB C E L P T Y I E L N V I T L F H L P S N E M T F D H L I Q L K E K I E K V F E
UniRef90_R1FUUV1 L G D L P M D V L A E T L A G I G S A S M D F A T L L R C R D W G L
UniRef90_UPI00032B1BFF L P P A S P S Q R V I Y T V L E C F D S S S D M T I T E W V I A Q T I Q R H Y E
UniRef90_R6K950 I P D I S G R C N I D G I S I M N I D S S S N M T P S L M K K V A D A V V D N
UniRef90_A2SGY4 V P A L T G Q P I E A E Q V A Q I D S S K D M G V A V W R S L T R R V A H H L A S
UniRef90_X8K2D1 I P N A C S K C D L D V K Q I F N I D S S T N I Q P E H W M L I V R E I E A
UniRef90_B5DTT7 L P L V K R V T Y Q F I E Y D P L L D S S S N M A G K D W K R I A Q D I G R Y T
UniRef90_B3S6K3 L F S I I D Y G C R V I Y E Y E P L L M D S S S D M S M D V W A K I A M D I R K Y
UniRef90_W5J585 Y P N M H D D V Y A T S E Y E P L L D S S S N M T I D D W V R I A T D I R Q S
UniRef90_L8JKW7 V P S L R Q L E N I T V I A F D N V D S S S N I N P E D W V K I G A I R D H
UniRef90_UPI000429DB4B L G L P Q D I H I S I R S V F Q K P S V H I L T T E D L H H L Y A C V K E A E N
UniRef90_UPI00035E4FD2 T A P L P E G V S V E L V D L C S V N S P R L I T T R H Q L T L R T V H E V L E
UniRef90_B2RH44 V P E L K N F G F L D S I L Q F P P L D S S A I S P D L W V R L A D T V R E
UniRef90_H1DPC6 V P E L S R N Y N L S I H S F P I I D S S S N M Q P A I W V Q M A E L I K D N
UniRef90_F4CE49 L P K L E E D I Q I N T R E L Y S I D S S T N T C P K H W L L I A K A I E D E
UniRef90_V2Y1Z7 V P G L A A T L T V D V D F R R V P G A S L S F A D L R S V A A A V E Q E H L A
UniRef90_S5TTT7 M P E L R Q N M Q V D V T N D P I D S S S N V T A Q D W L R L A A I E Q E N Y A
UniRef90_W8F5N1 L P K H K T A D V S T Y Q F G N K G S G G Y T I K E L Y D L S L A V D A L E
UniRef90_UPI0003618AA9 L P P V S P A D Q R V I Y T V L E W L D S S S D M T M A E W V Q I A Q T I E R H Y E
UniRef90_UPI0002C46CA1 L A H S H H A L P E F E M L P L I D S S A N I D P K H W N I A K T I L D N
UniRef90_Q2BKT4 I P Q V E S V C D V D T L Q V C N I D S S T N V T P M H W R L L A E T I E K N Y A
UniRef90_R6PIS7 V P G L K N I A D L Q A Q T L T Q L P S A S L S F E L L F E T L E W A A A Q I E
UniRef90_M1NX39 P P Q L H F E W R E T S R L I D S S S A R P G D W S N L A R E I A E C
UniRef90_W1NB15 I P E L K Q D C E I A S V S F E P I D S S S N M T E Y Y V Q I A E M I E H N
UniRef90_UPI00035D90BC Y S G V F D R V D V Q L E Q L T Q L P S S E L A T D D L E E I G H R I R A V A A
UniRef90_I7CK44 L P S L K D E K R I L Y E Y D P L L D S S N E M E R G D W K R I A Q D I Y D E
UniRef90_B4MT17 L K M V S G D T D I E I E D F C S L D S S A N I F P E D W C K L A E R I S E C Y D
UniRef90_UPI00047D8E0E A A D N R R V I Y K I S K F S N V C D S S S N I T M D D W I H I A K Y I K K C Y D
UniRef90_E2C0K9 I P Q V K E I D V E A V Q L L N L D S S T N M E P S H W K L M V H A I W E H
UniRef90_D3L118 L K S K D L P C E V S V V D W S H Q P S S H Y N I R M M A D L V E L L R K E A
UniRef90_S0KHX0 I P Q V K T I C K V E T L A L F M S I D S S N M Q P A N W E K L A Q T I K T H
UniRef90_B9JJD2 V P Q V S A R L R P I L A L M S K D S A S L T L A D M Q R I S D A V M Q Q L D
UniRef90_G3W103 L P L T D H N Q R I I Y E Y D P L F D S S D M T I N E W I R I A K D I E R N Y E

		90	100	110	120
UniRef90_F4G0J6	E	G S E G V V V A H	G T D T M S Y T A S A L	A F S L N L P G	P V V L V G S Q R
UniRef90_W5N5J3	Y E E Y D G F V L L H	G T D T M A Y T A S A L	S F M L N L G K	P V V L T T G S Q Q	V I L T T G S Q Q V
UniRef90_W9V1Z8	E E Y D G F V L L H	G T D T M A Y T A S M L	S F M L N L G K	P V V L T T G S Q Q	V I L T T G S Q Q V
UniRef90_D7JGL7	Y D S Y D G F V L L H	G T D T M A Y F S A S V	V V S F M L N L A K	P V V I F T T G S Q Q	V I L T T G S Q Q V
UniRef90_R5VLN4	K Y C G F V V L H H	G T D T M A Y T A S A L	S F M L N L T K	P V V V F T T G S Q Q	V I L T T G S Q Q V
UniRef90_M5JCU9	D Y D A F I I L T H	G T D T M A Y T A A A G L	A Y L L N N S K	P V I V I T T G S Q Q	V I L T T G S Q Q V
UniRef90_R6T6P4	Y E D Y D G F I I L H	G T D T M S Y T A S A L	S F M L N L D G T K	P V I V I T T G S Q Q	V I L T T G S Q Q V
UniRef90_A2TX46	K Y D G F V V L S G	S D T M S Y V S A A I S	S F M L N L Q K	P V I I F T T G S Q Q	V I L T T G S Q Q V
UniRef90_B4L5C6	Y E F F D G F V V L H	G T D T L E E Y T A S A L	S F M L N L G K	P V V L I T T G S Q Q	V I L T T G S Q Q V
UniRef90_UPI0002490AED	K Y Y D G F V V T H	G T D T L E E Y T A Y F L	D L T T D V A C	P V V A V T T G S Q Q	V I L T T G S Q Q V
UniRef90_D4LYU2	S Y D Y H G L V V I T H	G T D T L A Y T A S A M L	S F M L N L S I	P V V V V T T G S Q Q	V I L T T G S Q Q V
UniRef90_H1XXT3	R E Y D G F V I L H	G T D T M T Y T A S A L	S F S L N L N K	P V V V L T T G S Q Q	V I L T T G S Q Q V
UniRef90_A0RZ07	R E G F G G V I V A H	G T D T M Q Y T A S Y L	S F A L N L S G	P V V A L V T G S Q Q	V I L T T G S Q Q V
UniRef90_W6WQ07	N P D L D G F V I L H	G T G S L E E T A Y F L	S L T V E T A K	P V V I T T T G S Q Q	V I L T T G S Q Q V
UniRef90_F0NY24	Y D L Y D G F V I L H	G T D T M A Y T A S A L	S F M I N L D K	P V I I F T T G S Q Q	V I L T T G S Q Q V
UniRef90_UPI000366C521	K N G S K G L I I T H	G T D T M A Y T A S A L	S F L I N L P H	P V I L L V T G G A Q Q	V I L T T G S Q Q V
UniRef90_R6LRR1	Y Y D G F V I C H	G T D T L A Y T A A A L	S Y M I N S A K	P V I V V T T G G A Q Q	V I L T T G S Q Q V
UniRef90_UPI000345647F	Y E E Y D G F V I L H	G S D T L A Y T A S A L	S F M F E D G K K	P V V V F T T G G A Q Q	V I L T T G S Q Q V
UniRef90_A0A010Q4M8	R E V D G V V V T H	G T D T L E E T L A L	A L T H E G D D R	P V V V F T T G G A Q Q	V I L T T G S Q Q V
UniRef90_C5C7R1	D P G L D G V V V T H	G T D T M E E T A F L A	D L L N G T D T	P V V V F T T G G A Q Q	V I L T T G S Q Q V
UniRef90_R7JSB6	Y E D Y D G F V I A H	G T D T M A Y T A A A L	S Y M I N S E K	P V I V I T T G G A Q Q	V I L T T G S Q Q V
UniRef90_R6RNK2	Y Q S Y D G F V I F H	G T D T M A Y T A S A L	S F M L N L P I	P V V V I T T G G A Q Q	V I L T T G S Q Q V
UniRef90_K6DGD6	D P T V C G L V V T H	G T D S M E E T A Y F L	D L T I N D S R	P V I V V T T G G S Q Q	V I L T T G S Q Q V
UniRef90_UPI0003F06816	A T K Y D G F V V L H	G T D T M A Y T A S A L	S F M F N L G K	P V I V L T T G G S Q Q	V I L T T G S Q Q V
UniRef90_B8EIS5	Y Q T A D G G V V I T H	G T D T L E E T A F G L	A L L T R I L E T	P V I V L T T A A M R Q	V I L T T G S Q Q V
UniRef90_E1QYM9	Y E D Y D G F V V L H	G T D T M A Y T A A A L	S Y L I Q G P K	P V I V L T T G G S Q Q	V I L T T G S Q Q V
UniRef90_O57797	E Y D G F V I T H	G T D T M A Y T A S M L	S F M I N S P I	P V I V L T T G G S M L	V I L T T G S Q Q V
UniRef90_R7QWW6	R Y D G F V V L H	G T D T M A Y T A A A L	S Y L I N S R K	P V I V L T T G G A Q Q	V I L T T G S Q Q V
UniRef90_R6E470	Y N N Y D G F V V L H	G T D T M S Y T A S A L	S F M L D G N K	P V V F T T G G S Q Q	V I L T T G S Q Q V
UniRef90_UPI000411FC0C	Q Y D G F V V L H	G T D T M A Y T A S A L	S F L N L D K	P V I I F T T G G A Q Q	V I L T T G S Q Q V
UniRef90_F5J427	Y H K Y D G F V I L H	G T D T M A Y T A S A L	S F M I N L Q K	P V V L T T G G A Q Q	V I L T T G S Q Q V
UniRef90_UPI000319A70C	V Y D A F V I L H	G T D T M A Y T A S A L	S F M L G L N K	P V I V F T T G G S Q Q	V I L T T G S Q Q V
UniRef90_R5XR12	S R D Y Q G L A V	G T D T L A Y T A S M L	S F M L N L S I	P V V V V T T G G S Q Q	V I L T T G S Q Q V
UniRef90_Q5WGV6	D E T I N G L V V T H	G T D T L E E T A Y F L	D L T N K D E R	P V I V I T T G G S Q Q	V I L T T G S Q Q V
UniRef90_Q9U518	Q Y V G F V I L H	G T D T L A Y T A C A L	S F M L N V R K	P V I V I T T G G A Q Q	V I L T T G S Q Q V
UniRef90_H1Z9Z6	R F D G F V I L H	G S D T M S Y T A S A L	S F M L N V H K	P V I V L T T G G A Q Q	V I L T T G S Q Q V
UniRef90_I2EZJ5	E F D A F V I L H	G T D T M A Y T A S A L	S F L N L S K	P V I V L T T G G A Q Q	V I L T T G S Q Q V
UniRef90_E9G593	Y E L F D G F V I L H	G T D T L S Y T A S A L	S F M L N L G K	T V I V L T T G G S Q Q	V I L T T G S Q Q V
UniRef90_A0E9N5	Y K H Y D S F I L H	G T D T M A Y T A S A L	S F M F N L S K	P V I V L T T G G S Q Q	V I L T T G S Q Q V
UniRef90_L5NBB4	Y P D Y D G F V I T H	G T D T L S Y T A S A L	S Y M L N L Q K	P V V L T T G G S Q Q	V I L T T G S Q Q V
UniRef90_C7DG76	N G A R G V V V T I	G T D T M H Y A S A A L	S F M L D L N A	P V V V L T T G G S Q Q	V I L T T G S Q Q V
UniRef90_I6URL2	K Y D G L I V T H	G T D T L A Y T S S M I	S F M L N L P I	P V I V F T T G G S M L	V I L T T G S Q Q V
UniRef90_K6YWG6	Y A D Y D G F I I L H	G T D T M A Y T S S A L	S F M L D L R K	P V I V V T T G G S Q Q	V I L T T G S Q Q V
UniRef90_M0LVI7	G N G A E G V I V T H	G T D T M E E S A Y Y L	D L V L D L D A	P V V V L T T G G A Q Q	V I L T T G S Q Q V
UniRef90_R1E5E5	D D V N G V T I L H	G T D T M H Y T A S A L	S F L I N L N K	P V V S I V T T G G A Q Q	V I L T T G S Q Q V
UniRef90_Q299I7	Y K S Y D G F V I L H	G T D T L A Y T A S A L	A F M L N L N K	P V V V L T T G G A Q Q	V I L T T G S Q Q V
UniRef90_A0A022LK Y3	N S D A V V V T T G	T D T M E E F G Y W L	D V T V Q S K K	P V V F I T T G G A M R	V I L T T G S Q Q V
UniRef90_UPI0003B48D7A	R E D V H G V V V T H	G T D T M E E T G Y L L	D L V H E S E K	P V V V L T T G G A Q Q	V I L T T G S Q Q V
UniRef90_N2AT50	Y D T Y D G F V V L H	G T D T L D Y T A A A L	S Y L I N S P K	P V I V I T T G G S Q Q	V I L T T G S Q Q V
UniRef90_D1PNE9	A Y D G F V I T H	G T D T M A Y T A A A L	S Y M L D A R K	P V I V L T T G G A Q Q	V I L T T G S Q Q V
UniRef90_H9KBY5	Y F D G F V I L H	G T D T L S Y T A S A L	S F M L E L G K	P V I V L T T G G S Q Q	V I L T T G S Q Q V
UniRef90_C2FWG4	Y H Y D G F V I L H	G S D T M A F S A S V	S F M L E G Q K	P V I V L S G S Q Q	V I L T T G S Q Q V
UniRef90_UPI00036BFD89	Q D A N D G V V V I H	G T D T L A W C G A S L	A W Q L A L P C	P V V M T T T G G A Q Q	V I L T T G S Q Q V
UniRef90_H0W0T5	Q Y Q G F V V I H	G T D T M A S G A S M L	S F M L N L H K	P V I V L T T G G A Q Q	V I L T T G S Q Q V
UniRef90_U5Q3W0	K Y D G F V I L H	G T D T M S Y G A S A L	S F M L N L E K	P V I V I T T G G S Q Q	V I L T T G S Q Q V
UniRef90_E8R9J8	S G V D G V V I A H	G T D M M S Y S A S A L	A F S I T G P V	P V V V F V T G G S Q Q	V I L T T G S Q Q V
UniRef90_L2FFF4	K D K I E G I V V G H	G T A S L E E T A W V L	S L V L D L D I	P V V V V T T G G C M R	V I L T T G S Q Q V
UniRef90_UPI00036AAB02	D A S V A G I V V T H	G T D T L E E T A W L H	S V L P A D K	P V V V L T T G G A M R	V I L T T G S Q Q V
UniRef90_UPI000304F6FB	N Q E V A G V V V T H	G T D T L E E T T Y F L	D L T I G D E R	P V I V V T T G G A Q Q	V I L T T G S Q Q V
UniRef90_R1FUUV1	R Q D A D G L V V V Q	G T D T L E E T A Y F L	D L T T W P S E I	P V I V V T T G G A M R	V I L T T G S Q Q V
UniRef90_UPI00032B1BFF	Q Y H G F V V V H	G T D T M A F A T S V L	S F V L N L E K	P V I V I T T G G A Q Q	V I L T T G S Q Q V
UniRef90_R6K950	Y G D F D G F V V T H	G T D T L G Y S A A A V	T Y M L K G G K	P V V V F T T G G S Q Q	V I L T T G S Q Q V
UniRef90_A2SGY4	R P E V S G V V V T H	G T D T L E E T A Y L L	Q R V L A P C	P V V V L T T G G A M R	V I L T T G S Q Q V
UniRef90_X8K2D1	Y D S Y D G F L I T H	G T D T M A Y T A S A L	S Y L I Q G S K	P V I V L T T G G A Q Q	V I L T T G S Q Q V
UniRef90_B5D TT7	Y D L F D G F V V L H	G T D T L A Y T S S A L	S F F L N L D K	P V V V T T G S M I	V I L T T G S Q Q V
UniRef90_B3S6K3	Y E I F D G F V I L H	G T D T M A Y T S S A L	S F M L D L G K	S I I L T T G G A Q Q	V I L T T G S Q Q V
UniRef90_W5J585	Y E F F D G F V I L H	G T D T L S Y T A S A L	S F M F N L G K	T I I I T T G G S Q Q	V I L T T G S Q Q V
UniRef90_L8JKW7	Y N D Y D G F V V L H	G T D T M A F T A S A L	S F M L N L S K	P V I I F T T G G A Q Q	V I L T T G S Q Q V
UniRef90_UPI000429DB4B	E V D G L V I T H	G T D T L E E S A Y F M	S L I Y G G E K	P V I V F T T G G S Q Q	V I L T T G S Q Q V
UniRef90_UPI00035E4FD2	D P A V D G L V V T H	G T D T L E E S A F L V	D L H H D D P R	P V V V F T T G G A Q Q	V I L T T G S Q Q V
UniRef90_B2RH44	Y R A Y D G F V I L H	G T D T M A Y T A S A L	S F M L D L Q K	P V I V L T T G G S Q Q	V I L T T G S Q Q V
UniRef90_H1DPC6					
UniRef90_F4CE49	Y D L Y D G F V I L H	G S D T M A F S A S A L	D L T V K C D K	P V V M V T T G G A M R	V I L T T G S Q Q V
UniRef90_V2Y1Z7	Y N N Y D G F V I C H	G T D T M A Y T A S A L	S Y L I D S P K	P V I V L T T G G A Q Q	V I L T T G S Q Q V
UniRef90_S5TTT7	G G A D G F V V T Q	G T D T L E E T A Y L L	D L T H T R D E	P V I V L T T G G A M R	V I L T T G S Q Q V
UniRef90_W8F5N1	R Y D G F V V L H	G T D T M A Y S A A A L	S F L L E L F S K	T V V F T T G G A Q Q	V I L T T G S Q Q V
UniRef90_UPI0003618AA9	I Y D S A V V T T G	T D T M E E I A Y F L	D L T V R S E K	P V V V V T T G G A M R	V I L T T G S Q Q V
UniRef90_UPI0002C46CA1	Q Y H G F V V T H	G T D T M A F A S A S M L	S F V L N L Q K	P V I V L T T G G A Q Q	V I L T T G S Q Q V
UniRef90_Q2BKT4	Y E Q F Q G F V V L H	G T D T M A Y S A S M L	S F M L N L G K	P V V F T T T G G S Q Q	V I L T T G S Q Q V
UniRef90_R6PIS7	Q Y D G F V I C H	G T D T L A Y T A A A L	S Y M I N S S K	P V I V I T T G G A Q Q	V I L T T G S Q Q V
UniRef90_M1NX39	A G A S G I V I T Q	G T D T L E E T A F F L	S L Y W D K A E	P L V V V T T G G A M R	V I L T T G S Q Q V
UniRef90_W1NB15	Y R D Y A G L V L H	G T D T M A W T A A S L	A F Q L Q G D R	P L V L V T T G G S M Q	V I L T T G S Q Q V
UniRef90_UPI00035D90BC	Y E K Y D G F V V L T	G S D T M S Y I S A I	S F M L E L T K	P V I I F T T G G S Q Q	V I L T T G S Q Q V
UniRef90_I7CK44	D V D G V I V F H	G T D T L E E T A Y Y L	D L V L D V D V	P V V V L T T G G A Q Q	V I L T T G S Q Q V
UniRef90_B4MTI7	Y K N Y D G F V V L H	G T D T L E E T S S A L	S F M L N L G K	P V I V V T T G G S Q Q	V I L T T G S Q Q V
UniRef90_UPI00047D8E0E	R N S Y D G L V V I H	G T D T L A Y T S S M L	S F M L N I G I	P V V I T T T G G S Q Q	V I L T T G S Q Q V
UniRef90_E2C0K9	N Y D G F V I L H	G T D T L G Y T A S A L	S F M F D L G K	P V I V L T T G G S Q Q	V I L T T G S Q Q V
UniRef90_G2T2Q0	Y D D F D G F V I A H	G T D T M A Y T A A A L	S Y M V N T K K	P V I V I T T G G A Q Q	V I L T T G S Q Q V
UniRef90_D3L118	A Q G L S G I V V T T	G T D S M E E M A Y L V	D L L W P Y P Y	P V I F T T T G S M V	V I L T T G S Q Q V
UniRef90_S0KH X0	Y D F Y D G F V I C H	G T D T L A Y T A A A L	S Y L I H S S K	P V I V L T T G G S Q Q	V I L T T G S Q Q V
UniRef90_B9JJD2	D P A S G V V V T H	G T D A M E T A L L V	H L Q H A T S K	P V V V F T T G G A Q Q	V I L T T G S Q Q V
UniRef90_G3W103	Q Y F G F V I L H	G T D T M A F A S S M L	S F I L N L Q K	T V I V L T T G A Q Q	V I L T T G S Q Q V

UniRef90_F4G0J6 S S D R P S S D S G I N L V I S V L L 140 A N Q A P F G E V V V N M H G E S S D H R
UniRef90_W5N5J3 P I Y E A M R N S D D G R D N L L L G A V L L I A G Q F V I P E V V C L Y F F H H K L Y R R
UniRef90_W9V1Z8 P M M G E A R S D D A K E N L L I T A V I M L A A S H Y K N J I P E V V C C V I F F A N D R Q L L M R
UniRef90_D7JGL7 P I G V H R S D D G R E N L L J A A L E I A I D D K A L V P R G V C C V I L F F G A K L F R
UniRef90_R5VLN4 P I G T I R T D D G R E N L L I A A L E I A I D D K A L V P R G V C C V I L F F G A K L F R
UniRef90_M5JCU9 P L E M I R E T D A G K E N L L H D A L T V I A S A K D E Q A D L R G V V C V I L F F N D S L L M A
UniRef90_R6T6P4 P I G V P R T D D G K E N L L I T S I E I A C A N K P I I A E V V C C V I F F E Y K L Y R
UniRef90_A2TX46 P I G D L R T D D A K E N L L I T S I E I A C A N K P I I A E V V C C V I F F E Y K L Y R
UniRef90_B4L5C6 P I F E T R T D D G K D N F T S A L L I A G N Y V I P E V V C C V I F F G Q K L M R
UniRef90_UPI0002490AED S T D Q I L G A D A L E N C R C G I H M A A S G Y P L A H G Q G V M V V L D Q K I H A
UniRef90_D4LYU2 S I A N P V A D A L E N C R C G I H M A A S G Y P G V V V V A F N R K V M L
UniRef90_H1XXT3 P L S Q Y R S D A R L N L T D A A S F L S T M D L R E V V L V F N Q N D G A S
UniRef90_A0RZ07 S P D R P S S D A A Q N L L A A A S F L S T Q V D S G I Y V V M H L V F N Q N D G A S
UniRef90_W6WQ07 P P S A L S S D A G L N L A N A V R A A V D P A C R D M G V L V L M N D E L H A
UniRef90_F0NY24 P I G E L R T D A K E N L L T T V L L A A Q D N E Y P I I Q E V C L Y F F E Y T S L F R
UniRef90_UPI000366C521 S L D R P S S D A A L N L Y S A H H F A L K S E Y S G V F V M H G T S D H R
UniRef90_R6LRR1 P I N M D V T D A K T N L L D S F I Y A A D D D S Q G V N L V F D G K V I V
UniRef90_UPI000345647F P L G M I R T D A R E N L L I T A V I E F A M H D P V L Q E V A I Y F E D M L Y R
UniRef90_A0A10Q4M8 S I D H P D S D G P R N L R D A I L V A A D P A S R F H G A L L C F G G I H T
UniRef90_C5C7R1 A A D H P D T D G P R N L R Q A V L A A Q P D A R G L G V L I A F D G G A L L S
UniRef90_R7JSB6 P I N L D I T D A K T N L S D S F Y A A C D S D A S Q G V Q I V F D G R K V I A
UniRef90_R6RNK2 S I L N P L A D A V E N C R C A I H M A G S D G M P G V F L A F N R K V I L
UniRef90_K6DGD6 A P Q D I G T D V Y S N L R N S I Y V A V N E E L K N V G V V V F N R K I Y S
UniRef90_UPI0003F06816 P L F E L R N D G R D N L L G A I Y L A G H V A I P E V V A L Y F N N K I F R
UniRef90_B8EIS5 R A D Q P P G A D G P A N L L A A V R V A A S K A A R G A G V L V V I D D E I H A
UniRef90_E1QYM9 P M G S P F T D A R L N L Y Q S I L Y A A D D L S S D S I V F G G Q V I V
UniRef90_O57797 P I T E K N S D A P F N L R T A L E F V Y K L G I R G I Y I A F N G Q V I M L
UniRef90_R7QWW6 P I N E D I T D A K S N V I Q S L L E Y A T S D V S T N S F V F D G E K V I A
UniRef90_R6E470 P L C E L R S D G R D N L I N S M L I A A D G V A N E V C L Y F A G K L R
UniRef90_UPI000411FC0C P I S A N R T D A R E N L I S A L E I A S H N S A T V S E V C C I F F D N L L L R
UniRef90_F5J427 P I G K L R T D A K E N L I T A L E I A A A D K D V L G N E V C C I F F Q N D L L R
UniRef90_UPI000319A70C P L G E P R S D A L N N V V S A L Q L A A H P A T P C E V S L V F H D R L L R
UniRef90_R5XR12 S I A D P V A D A M E N C R C G I H M A P A G G C P G G V F V A F N R K V I M L
UniRef90_Q5WGV6 G P E Q T G S D A F M N L R H A I Y A A C E P D L K H T K V V V F N R K I F A
UniRef90_Q9U518 P V C E V R S D G R E N L I G A L I I A A N Y D I I P E V T V Y F N N K L F R
UniRef90_H1Z9Z6 P I G D L R T D A K E N L I T A I Q I A E A N N T P V I Q E V C L Y F F E Y S Y L L R
UniRef90_I2EZJ5 P I G I A R T D A R E N L I T A L E I A E S A Q R P V I P E V V A I Y F N S Y L L R
UniRef90_E9G593 P I F E I R S D G R D N F L G A L I V A G S Y C I I P E V V C V F F N H K L Y R
UniRef90_A0E9N5 P L S Q P R N D G F T N F L N A L T L A G H F T I I P E V L I C F G D K L L R
UniRef90_L5NBB4 P I D A Q K T D G V R N L T D A V T Y A K Q G E P G V F V V F G G R V I E
UniRef90_C7DG76 S S D R G S S D A F M N I I C A T T I A A T S D I A E V G I C M H D S C S F I R
UniRef90_I6URL2 P A T E E N S D A P L N L Q T A I K E A T S G I R G V Y V A F N G K V M L
UniRef90_K6YWG6 P L A E L R S D G Q T N L L N A L Y L A A A N Y P S G I R G V Y L F F N N K L Y R
UniRef90_M0LVI7 R P D E V S P D G P S N L L T A V R M A S H E R F Q G T G V Y L A F D E E L H A
UniRef90_R1E5E5 S S D R P S S D A F F N L L S S A V Y D N S D I A E I A V V M H G T S D I H R
UniRef90_Q29917 P I F E T R T D G R D N F L G S L L L A G Q Y N I P E V L V F F G N K L L R
UniRef90_A0A022LK Y3 P W A A F G S D G P A N L V Q S I R L A A S Q Q T Y C F G T V L M L N D E I H A
UniRef90_UPI0003B4BD7A S S D A A D T D G P R N L R E A I T V A A S P Q A R G C C C V L I S F A G K V I A
UniRef90_N2AT50 P M S H P Y T D A K I N L Y Q S I L Y A A D S G S C C D V S V F G G R V I A
UniRef90_D1PNE9 S I G E R E T D G R R N L L D A F L Y A S S D C A W G V T I V F D G Q A M L
UniRef90_H9KBY5 P I F D S R S D G L D N F L S S L I I A A S H N I P E V C V E F G T N L M R
UniRef90_C2FWG4 P I G E I R T D A R E N L M T A L E I A S A Q T S N I P E V C I L F D N K L F R
UniRef90_UPI00036BFD89 P L E A P G S D G P D N L E Q A L M A A A L P Q L Q Q G V L V A F G G E L L D
UniRef90_H0W0T5 P I R V L W N D A R E N L L G A L L V A G Q Y L I P E V C L F M N S Q L F R
UniRef90_U5Q3W0 P I G M L R T D A K E N L I S I E I A A A K D S Q G P E V C V Y F E S K L Y R
UniRef90_E8R9J8 S S D R P S S D S A F N L R A A F I T A S K A P F A E S V I V M H G E T S D H R
UniRef90_L2FFF4 P L N G K S S E A A A N L L A A F R V A K H T P A R S P G V F V V N D E I H S
UniRef90_UPI00036AAB02 P A T A L A P D G P Q N L L D A V I A L A A E E P S A R G V L V A A G V V H G
UniRef90_UPI000304F6FB S P A T I G T D A F S N L R Q A I L L A A R E E A R S L G T V V L F N E K I L P
UniRef90_R1FUUV1 N A G L E S P D G P A N L R N A L T V A A D P R S R G R G A L V T L F N Q D V H A
UniRef90_UPI00032B1BFF P I H A L Q S D G R E N L L G A L L M A S Q F V I P E V C L F F Q N D V F R
UniRef90_R6K950 P I E H S D T D A K R N L F D A V C F A C E N V S G V V V F N G I V I Y
UniRef90_A2SGY4 P A T A V Q A D G P Q N L L D A V A L A R E P G A G G V F A V F A G S V F G
UniRef90_X8K2D1 P I S D E F T D A R R N L S D S I N F I L N G G L N G V I F V F D G K A I L
UniRef90_B5D TT7 P I Y E T R T D G R N N F V S L I I S G C Y K G I P E V C V V F A N K L L R
UniRef90_B3S6K3 P I Y E Q R S D G R E N L L G A L I I A G H Y V I P E V T L Y F D H K L Y R
UniRef90_W5J585 P I F E T R T D G K D N F M S A L I L A G N Y V I P E V C I F F N S R L F R
UniRef90_L8JKW7 P L S S L R S D A R E N L I T A L E I A S T E R P V V P E V C I Y F D Y V L L R
UniRef90_UPI000429DB4B G P D A L G S D A Y I N L R H A C Y T A A A P V M T G I G T V V F N E R I F S
UniRef90_UPI00035E4FD2 P L G A V D G P G N L H D A L L T A A T T R G L G V V I V F D G K V H P
UniRef90_B2RH44 P I G T L R T D G K E N L I T A I E I A A A K Q A R V P E V C I F F D N Y L M R
UniRef90_H1DPC6 P S T S M S A D G P F N L Y N A V V T A A D K A S A N R G V V V M N D T V L D
UniRef90_F4CE49 P I G E I R T D A R E N L I T A L E I A A H G R S L I Q E V C I Y F D S K L F R
UniRef90_V2Y1Z7 P I G M E I T D A K S N L R D S I I Y A A D D S S C G V Q I V F S G K V I L
UniRef90_S5T T T7 N P T L A G A D G P A N L V A V Q T A A S R A A R G L G A V V F A D E I H A
UniRef90_W8F5N1 P V G R I R T D A R R N L V T A L E M A A A R H P R V P E V C L F F N D Q L I R
UniRef90_UPI0003618AA9 P W D V I G T D G P A N L Y Q A I K V A G S G K T K W F G T V M L N D V I F A
UniRef90_UPI0002C46CA1 P I H A L W N D G R E N L L G A L L M A G H Y L I P E V C L F F Q K G L F R
UniRef90_Q2BKT4 P L S Q L R S D A L D N L I T S L I V A G F H P L I P E V S V Y F N G R L L R
UniRef90_R6PIS7 P I N M D V T D A K T N L L D S F I Y A A D E D S Q D V T I V F D G K V I V
UniRef90_M1NX39 T P S E A G S D A G P A N L L A A T R V A A Y Q Q S R N R G V V V N D T I H S
UniRef90_W1NB15 P L E A A G D A L Y N L E T A L R Y A A M P G L Q E V A L C M N G Q L L R
UniRef90_UPI00035D90BC P I G Y L R T D A K E N L I T S I E I A S A Y K P V V S E V C L Y F E Y K L Y R
UniRef90_I7CK44 T H D E I S P D G P A N V R G A L D A A A H D H V Q D G V V V F N E Q L H A
UniRef90_B4MT17 P I Y Q T R S D G K D N F I E S L I V A G T Y D I P E V C V M F N H E L L R
UniRef90_UPI00047D8E0E S I T N P V A D A M E N C R C A I H M A A S Q I P G V F V A F N R K V M L
UniRef90_E2C0K9 P I F H P R S D G L D N F L A S L V I A A S Y N I P E V C V F F G T N L M R
UniRef90_D3L118 P L D L E I T D A K S N L I D S F L Y A A D D R S Q G V Q I V F D G K V I A
UniRef90_D3L118 P H G E L S S D G P L N L Y H S L L A A S S E S T W G L G V L I C F Q D Q L F A
UniRef90_S0KH X0 T A D M D S T D A K V N L L D S F V Y A S D D R S N D V V I V F D G K V I A
UniRef90_B9JJD2 T A D H P H A D G P A N L L A I E T A M D Q G N A G R G V L V S F D G G R I L P
UniRef90_G3W103 P I H T L W N D G R E N L L L G S L L M A G Q Y V I P E V C L F F Q N Q L Y R

UniRef90_F4G0J6 G[V]K[V]R K M H T S R R D A F Q S S[V]N D L P L A K V T W K E K L V K L L R T D
UniRef90_W5N5J3 G N R V T K V D A S G S F N A F Q S S P N D L A P L A N A E V D T K I N W D T V W R A
UniRef90_W9V1Z8 G N R S T T K V K S A G F F D A F Q S S P N F F P W L G S T G I N I E L I Q S Q L L K K N
UniRef90_D7JGL7 G N R T T K R N A E E F D A F Q S S F N F H N L A K S G V H I K F Y P E Y F W E N
UniRef90_R5VLN4 G N R T T K I T N A E E S F D A F Q S S F N F Y P P L A E T G L H L H Y N Y G A I D Y S
UniRef90_M5JCU9 G T R A V K T K S E S Y F R A F Q S S P N F P P L A S V A D G Q F K M L Y E Y
UniRef90_R6T6P4 G N R T T K V N S E S V F R A F Q S S P N F P P L A E A G I N I R Y N N E Y I R K
UniRef90_A2TX46 A N R T T K I N A E S Q F E A F T S M N Y P P L A E S G V H L N F N E Y Y I H K P
UniRef90_B4L5C6 G N R T V K S S N S L D S T F D S P E V P P L A Q I G I G S S V N V D Y R L I F R P
UniRef90_UPI0002490AED A R Y V T K S N T S L D S T F D S P E I G P L G E I I G S S A F F Y S N V T R D
UniRef90_D4LYU2 G C R A S K V R T M S F D A F E S S P N Y P P L V G E I S S L G L R V F E K N
UniRef90_H1XXT3 G N R T K K I S V K S Y H A F E S S P N F P P L G E I G V T I D I D H S R E L L Q S
UniRef90_A0RZ07 A C R V R K N H T S K R G A F Q S S P N F G S P A Y T I R D G R L E A G P G
UniRef90_W6WQ07 A R D V T K T S T L R L D D T F R S P D T G P L G F V D G D A V T I Y R K A L R G Y
UniRef90_F0NY24 A N R A T K V N A E N F D A F D S S P N F P S L G I S G V H L D V K K N L F L H Y
UniRef90_UPI000366C521 G T R V R K K M H T S R R D A F Q S S P N S R L V A K I L K G N I V Y E D T E G L L
UniRef90_R6LRR1 G T R A K K E H A K S Y N A F S S I N F P Y L A V I Q D G T L V R Y I P E T I C
UniRef90_UPI000345647F G N R T K K F S T E A F D A F L S P N S P K L A K A G V N L N F D F N E L F R C
UniRef90_A0A010Q4M8 A L P L R K A H A S A L Q P F S H P S G G M L G R L T E A Q P Q Y Y F G P R S L
UniRef90_C5C7R1 A R G T R K G H T M A S Q P F T G G T L V G T T H G D G F H L H A R P H R P
UniRef90_R7JSB6 G T R A K K V R T K S Y N A F S S I D F P Y L A V I Q D R R I L R Y L P M L P Y
UniRef90_R6RNK2 G T R A S K V R T T S Y H A F E S S I N Y P Y V G E I N S R R G L D I R R S Y I P
UniRef90_K6DGD6 A K Y V K K V H A S N V Q G F E S S F G Y G Y L G I I D N N T V S I Y Q K P I
UniRef90_UPI0003F06816 G N R C T K V A S H S F R T F D A F D S S P N L A P L I N M G V D L E V C W D S I F R S
UniRef90_B8EIS5 G P L I R K S H S F R T F D A F S S A P F G P I G Y V A E D R V R F A L V
UniRef90_E1QYM9 G T R A H K Q R T M S F N A F N S S V N F P L P A I I R A D R I V R D G G M G M S
UniRef90_O57797 G V R A S K I R S M G F D A F E S S I N Y P N V A E I K D D K L R I L H I P D F Y
UniRef90_R7QWW6 G T R G R K V R S K S F N A F S S V N F P H K A V I R D N K V F H Y I
UniRef90_R6E470 G N R S T K V S A D E L M A F A S S P N Y P A L A N V G I D I M Y N R Q A L M
UniRef90_UPI000411FC0C G N R A R K V Q S L D F T A F E S S E N Y P H L A E A G I F I N K N V Q P
UniRef90_F5J427 G N R R T K V N A D N F N A F K S Y N Y P N L G K S G I Q I R Y D K K V I H Q P
UniRef90_UPI000319A70C G N R A R K V R T Q G L D A F D S S P N F P W L A E T G I G I T F P Q P S A L
UniRef90_R5XR12 G C R A S K V R T M S F D A F E S S I N Y P Y I G E I S S L G L H I C R E N L V E
UniRef90_Q5WU6 A R Y V K K E H A S N L Q G F N A F G F G Y L G I I D N D V I F T Y Q K P V R
UniRef90_Q9U518 G N R T V K I D N R S M D A F E S S P N M L P I A Y M D V D I K V N Y D S I F R S
UniRef90_H1Z9Z6 G N R T S K V S A E L F N A F T S P N V P H L A E S G V N L R L N H S L L T Q K
UniRef90_I2EZJ5 G N R A K K E S Q F N A F R S E N Y P S L A E A G V T I D F N F P I M P F
UniRef90_E9G593 G N R T V K R S N S G S L D A F D S S P N L P S L A H F G I D V H V E Y R S V F R P
UniRef90_A0E9N5 G N R A Q K V N S S L D S F D S P K F I P L G Y F G V N L S L K W D I I M K N
UniRef90_L5NBB4 G T H A V K M R T E S Y D A F E S S I N Y P Y I A Y I E G D R I E P N M D V P D R
UniRef90_C7DG76 G T K A R K M H T S R R D A F R A I N D K P I A Y V D I N G N L Y N N D Y R R V
UniRef90_I6URL2 G V R T R S K V R T M S R D A F E S S I N Y P I A E L R G E D L V V N F I P K F N
UniRef90_K6YWG6 G N R V R K V D A D G F D A F D S S P N F P A L L E A G I N I D V N H D V V S V F
UniRef90_M0LVI7 A R D V T K R H T S K L S A F V S P E K C P V A R S T R E G I R V L R E P
UniRef90_R1E5E5 G T K V R K M H T E R R D A F Q S S I N S L P L A K I F P Y N K K I E I I D N N Y
UniRef90_Q29917 G C R T S K I N A D S F H A F D S P N Q P P L G Q S G I K F E I N N R Q I F R P
UniRef90_A0A022LK Y3 A R D V T K G N T M R T D T F E S S R R V G V L G W I D G D R I S L P R G P S R V
UniRef90_UPI0003B4BD7A A A R T R K F H T L T P E P F A T A G G G P I G R V S A E G V R I T T R P V R P
UniRef90_N2AT50 G T R S R K Q K T R S F D G F T S M N F P L A R F Q S D E E I R V F P T D K P
UniRef90_D1PNE9 G T R A K K L R T K S Y H A F S S I G Y P E V A R I R D R K V Y P V L P
UniRef90_H9KBY5 G N R T C K I L S A T S F E A F D S P N F P L L A K A N I N E V N Y R T I F R P
UniRef90_C2VF94 G N R S F K Y N S A K F E A F R S P N Y P V L V E A G I H L K Y N N E A L L D N
UniRef90_UPI00036BFD89 A R F A R K W H T A D N L A F A T P N A E P L G V W R T Q W Q L K D G G R C R Q
UniRef90_H0W0T5 G N R V T K V D S Q K F E A F C S P N L S P L A T V G A D V T J A W D L V R K V
UniRef90_U5Q3W0 G N R T T K D N A E N F R A F R S P N Y P H L A E A G I H M K Y N K N F I S Y
UniRef90_E8R9J8 G V K A R K M H T S R R D A F Q S S I N D K P L A R I N P D G E I R I G R I E
UniRef90_L2FFF4 P R T V T K T N T L R L R L D A F D S P W R G P I G Y V D G D M V N I T S Q L L S S
UniRef90_UPI00036AAB02 A R E V S K H H P L R L D A F D S G D T G P L G W V E A G R V R W A H S P A Q A
UniRef90_UPI000304F6FB A R Y V K K H H A S N V D G F N A P G F G H L G Y V D E E E V I L Y G K A V K K
UniRef90_R1FUUV1 A R W V R K A H S S R L D A F S S A P A G P L G M V V E H A V H W F H S P P R
UniRef90_UPI00032B1BFF G N R T K V D A R R F A F C S P N L P L A T V G A D V T I S W F L V R R A
UniRef90_R6K950 G T H A R K I K T T S F D A F E S S A N L E A A A K V N G V V V Y S G E F S K E
UniRef90_A2SGY4 A F D V R K R H T H R L D A F D G A G D D G A I A L I E G G G V R R L R D W
UniRef90_X8K2D1 G T R A R K V R S K S F A F D S S I G Y P I A A F I D D S R I I K Y L E A P A V
UniRef90_B5DTT7 G N R T V K V N C N S L D A F D S P N A P L L G T F E G D T I I N N F L V R P G
UniRef90_B3S6K3 G N R V I K D N N R E F N A F Q S S P N F A P L A N V G I D I E V Q W S I F R S
UniRef90_W5J585 G N R T I K V S E S L D A F N S P N A A L A K M G I N V E V D Y R G I F R P
UniRef90_L8JKW7 G N R S K K V E S L H F D A F Q S S E N Y P L L A E S G V I I N Y N I D A I R
UniRef90_UPI000429DB4B A K Y V K K E H A S N L Q G F N A F G F G Y L G I I D N D A V H L Y Q K P V I
UniRef90_UPI00035E4FD2 A R G T V K T Q T L A L D A F A D P S G A R L G S I G F G R V S V L R R Q L R P
UniRef90_B2RH44 G N R T S K V S A D Q F D A F A S S V N Y P L A Y A G I D I R Y E D A L I A
UniRef90_H1DPC6 G R D V T K T N T T D V A F F K S V N Y G P L G Y L H N G K I D Y Q R T P A R K
UniRef90_F4CE49 G N R S F K Y N S A K F E A F R S P N Y P V L V E A G V H L K Y N R P A L M N
UniRef90_V2Y1Z7 G T R A K K T R T F S F E A F S S I N Y P F L A E T Y D G K I R Y I S Q N K N
UniRef90_S5TTT7 A A R V R K T H T T S G H T F Q S S A N G P P L G Y V V E G T P R I V N E P R T R
UniRef90_W8F5N1 G N R A K K V E S Q Q Y N A F R S E N Y P S L A E A G I E L V F K D E Q I R R L
UniRef90_UPI0003618AA9 A R E V T K S N S H R M D T F D T P M F G A L G Y V D D P A V R I Y R A P A R A
UniRef90_UPI0002C46CA1 G N R A T K V D S R R F A A F C S P N L P P L A T V G A D I I I N Q E L V Q K V
UniRef90_Q2BKT4 G N R C S K V K A T G L D A F D S S P N F P W L Q Q I G L N I D I H N Q L I I N K
UniRef90_R6PIS7 G T R A K K E R A K S Y N A F S S I N F P Y P A V I Q D Q R V I R Y I P S I
UniRef90_M1NX39 P Y V V Q K S H T F N V E T F Q S S G L A G T L G T L E G K P I Y F N N R N F C
UniRef90_W1NB15 G S R A R K W H T T D R N A F S S P N L A P L G E R K G D D I V L F E S R G L E
UniRef90_UPI00035D90BC A N R T T K L S A E Q F E A F A S M N Y P P L A E S G V H L N F N K D L E L V P
UniRef90_I7CK44 A R A V T K R H S E N L D A Y D S G D Y G L V A E R T P G G F W F Y R Q P E S L
UniRef90_B4MT17 G N R T V K K V N C E A F D A F D S P N Y P P L A T M G V S I N L N E Y I N R P
UniRef90_UPI00047D8E0E G C R A S K V R S L S F D A F E S S I N Y P N I A T I S S L G M K I D Q A A V P E
UniRef90_E2C0K9 G N R T S K I S A C S F D A F Q S S P N C Y P L A T A H L K I K V E Y G S F F R P
UniRef90_D3L118 G T R A K K V R S K S Y N A F S S I N Y P S L A V I Q D M N I M R Y I P M L P Y
UniRef90_S0KHX0 A N E V C K L N S Y R R D A I A T L N K G P V A E I V A N K I C V L K K P K R G
UniRef90_B9JJD2 G T R A K K V R A K S Y N A F T S I N F P Y L A V I L D Q Q I I R Y I P N Q S F
UniRef90_G3W103 A W G V Y K R S T D K Y D A F R S A R P I G H V E S P R L
G N R V T K V D S Q R F A A F C S P N L P P L A N V G A D I T V N H D I L L K A

UniRef90_F4G0J6 Y R R K S D H I E M N A K F D E R V V F L L K F Y P G L K P D I L V E L L L S A G Y
UniRef90_W5N5J3 N T T A K F H F I Q T S M N R N V G L L R L F P G L T A E T V R A F L L Q P P M
UniRef90_W9V1Z8 R A P S K H L A P T F N P D A V A V I Q T F P G L S A E L L K A V V E R T P G V L
UniRef90_D7JGL7 R S K K A L K L A P T K N T P D A V A V I Q T F P G L S A E L L K A V V E R T P G V L
UniRef90_R5VLN4 P R N E K K V S A S T E M N T H I A I L R L F P G L R P E L L E S V I L Q P G L
UniRef90_M5JCU9 R E N D K Q L V M S E L A I L D T N V F S I L K A F P G M P V E I F D Y L G D T A
UniRef90_R6T6P4 P N D W Y Q S L T N T E L D T R V F S I L K I H P G I T P E V V R N L C K G D T
UniRef90_A2TX46 D F N K E L V V R K N L V N D I A I L K L F P G I T N N V V E S I L L A K G L
UniRef90_B4L5C6 Q T V E R F C V H S Q L D E N V G Y M F K A Y A G M D D S L A T F R A F L A P P M
UniRef90_UPI0002490AED L V I E K K G I F K P Q T A Y S D K V A L L K L Y P G I S P E I L L D M Y Y E K G Y
UniRef90_D4LYU2 E G P V F H L P G F Y P Q A V V L T L Q P S M S P G Y F Y S L F D D Q N L
UniRef90_H1XXT3 D R L A P G E Y R P R I A V D P R A S L V K Y H P G Y D P A V L D S I L F D A G A
UniRef90_A0RZ07 R A P A D R F D I S N L E E L P R V D I L Y C Y T G S D G A A A Q A F V E A G A
UniRef90_W6WQ07 P I N G P F M V N K Q L N P S V S V G V L K I F P G I T K Q E D F V K N I F Q T P V
UniRef90_F0NY24 K R D D S R E I L K L M N N F E N K V F L L K T F A S M P Q E A S D Y L V D K G Y
UniRef90_UPI000366C521 R H A V K F Y Y D M K D S R V L V L K L I P G M K P D I L S Y L F E H Y
UniRef90_R6LRR1 E R E E F S V T Q D G F D N R I A V L T L F P G I T E Q L V T A V L T N E N L
UniRef90_UPI000345647F P R L P H P T Q N F G D Q R V D M V L S Y P G A D G A L I R S A I A S G A
UniRef90_A0A010Q4M8 G T L D L P D S G L D G T R V D L V T A H P G A D P A A L T W A D R S G A
UniRef90_C5C7R1 E K P V R F Y E N L S D N V F L L K L V P G I S P V L L P A I F E H Y
UniRef90_R7JSB6 P K G S C V L E R R L E E K V F L I K L V P G F D G K I F Q F L Y E Q G Y
UniRef90_R6RNK2 P K G S C V L E R R L E E K V F L I K L V P G F D G K I F Q F L Y E Q G Y
UniRef90_K6DGD6 S A T E K F K V Q E K M N T N I G L L R L F P G I T T E T V K A F L A Q P P M
UniRef90_UPI0003F06816 P A A P P B E I S 5 P L M R F G G R P P L V P L V E A G P G I R E T V A F L A A G G F
UniRef90_B8EIS5 I T G V P T A Q A T P D G A A P A H G S L K P P T L Y D R L C E R V G L E G N F
UniRef90_E1QYM9 I T G V P T A Q A T P D G A A P A H G S L K P P T L Y D R L C E R V G L E G N F
UniRef90_O57797 G D E F F S D L K Y E N K V L V I K L V P G L S G D I V R E A L R L R L G Y
UniRef90_R7QWW6 E E Q G D E P V K F Y D R L N E N I F V L K L V P G M D A G I L D Y L K N R Y
UniRef90_R6E470 M P K Q A R E F S L T E M K Q V P I G V L K I F P G I Q F E L F E Q I V A E K L
UniRef90_UPI000411FC0C L E R T T K P F V F H S A M E N S V L N W K I F P S M K P H F F E K M L D C N I
UniRef90_F5J427 D Y D K K T I F H Y Q L D T R I A T L K L F P G I N R Q T V E T I L G K N I
UniRef90_UPI000319A70C L S G E P N F A P I E L D D E A V A V L P L H P G M A L T R A K A L A D D T L
UniRef90_R5XR12 K R G I F R P Q T A Y S D K V F L L K L Y P G T D P S I L D Y L Q E K G C
UniRef90_Q5UWV6 R Q F Y E I G N T P L K Q I G I A K V Y L G M S A D M L E Q M I A V C
UniRef90_Q9U518 P S M A P F V V H D Q L C R N V G L R I F P S M S I E N V R A S L A Q A P T
UniRef90_H1Z9Z6 S L S L P L T V H K K M S R N V M I L R L F P G I Q Q V L E A I L A T P L
UniRef90_I2EZJ5 R P D L P L V V H K K L E E H V M I L K L F P G I N R A M V H N L L T T G L
UniRef90_E9G593 V T I D R F R V H S I L N R N V C L R L R L F P S I T I Q T V R A L L H P P I
UniRef90_A0E9N5 P N E E N L Q V N K K F C T N I S L I R L N P L N H V T M L N E I F K N E K L
UniRef90_L5NBB4 V E G D F R L E T G L C T D V H L F K L Y P G V K P E M L N L I K D H F
UniRef90_C7DG76 N R N Q K K A V S A V T G Y S S K V A M V K A Y P D A D P S I L K F Y E D K D Y
UniRef90_I6URL2 N G E V T L D L R H D P K V L V I K L T P G L S G D I F R A A V E L G Y
UniRef90_K6YWG6 D S G I E D A Q N P E S S L S E I G L V S L Y P G I S A D V V K N I I Q Q P V
UniRef90_M0LVI7 G S R S I S V D A R R P T A T V P M V K T G V G V D A Q Q V T D A L R M D A
UniRef90_R1E5E5 R K R N N S P Y L D D K C K K V A L I K T Y P G S D P D I L K Y Y V R D K N Y
UniRef90_Q29917 C N I G E F S V H C C L E R N V A G I L R M Y P G I T T A V M C A F L R P M
UniRef90_A0A022LK Y 3 L D C Q S D R W L T P F D D L P K V E I F Y N Y Q E A S G D A I R G M V T G G A
UniRef90_UPI0003B4BD7A D P L P L D E R F D S L E V N I D V V P V Y P N A D A A L A E A A V A A G A
UniRef90_N2AT50 F G P V R F Y D H L E G N I L S I K L I P G M T P D F F R L L K E Q Y
UniRef90_D1PNE9 V P E G L G R P V A N L E L D P L V F V L K L I P G I Q P D V L R L L R P A Y
UniRef90_H9KBY5 C T L E K F Y V H T S L N R N V G L I R I F P S M T T D L V R T F L P P I
UniRef90_C2FWG4 R Y K Q F L L H K L D R V A V L K L F P P G M N A N T I R T I L N S D V
UniRef90_UPI00036BFD89 P H R A P L G A A S L P C S P A K V V R L L T W P G I E A W Q A R A L L Q G A
UniRef90_H0WOT5 K W K D P L V V H S N M E H D V A L L R L Y P G I P A S L V V R A F L P P L
UniRef90_U5Q3W0 P S I W G K L V L N T K L D T N V A I L K I F P G I S P V V E S F L N G L
UniRef90_E8R9J8 H R D K G R E A V L R D R F D D K V A L V K V Y P G L Q G E V L E T I L D K G F
UniRef90_L2FFF4 P R N K F S P D L L R D G L P R V E D I V Y S H T G S D G A M V R A V A A G A
UniRef90_UPI00036AAB02 P A H G A L A Q A L E A R P W P R V E I V L S H A G A D G A L V D W L V A G G A
UniRef90_UPI000304F6FB E T Y E L K S E L P Y V E I I K C S L G S D G R L I K Y A V E T G A
UniRef90_R1FUV1 P P A L T G V D F G G L V P V V E A G L D D S G A V L S S V A A Q P G V
UniRef90_UPI00032B1BFF S R Q G R L V V H S G M R D V I G L L R L Y P G I P A L V R A F L Q P P L
UniRef90_R6K950 K H R Y I E Y N K Y D T D M C E D I M V L K L F P G I K T D I F D Y I K E H Y
UniRef90_A2SGY4 P T G L P L G V E V L E R P E P R V E I V V S H A G A S G A V V D A L R A Q G V
UniRef90_X8K2D1 S E V R F A S S D S V F L L K L I P G I R P E I L A Y L G K H Y
UniRef90_B5DTT7 P G A R P L J A V T G E F Q M N V A S L R I T P D M S L D L I R S A L A E P I
UniRef90_B3S6K3 G K L Q K F H I Y T S M S N V G I L R L F P G I T A E T I R T F L P P M
UniRef90_W5J585 C T V D K F T V H L Q M D E N V G L L R L F P S I S V A T V H A F L Q A P M
UniRef90_L8JKW7 K L E D A K P L L L H S N F D T N V V I L K L Y P G I T E K A V R A I L E I P L
UniRef90_UPI000429DB4B A A L P L P A V P D A A V P R V D M I M H H C D A D A L M F D A A L A G A
UniRef90_UPI00035E4FD2 D R G A D A A L S V I Q T E M D R N V V I L K I F P G I T R E V V E S I L G I P L
UniRef90_B2RH44 H T S G T P F D V S K L N E L P K V G I V Y N Y A N A S D L P A K A L V D A G Y
UniRef90_H1DPC6 N T G K D F L H T R I D N S I S V L K L Y P G I S K E V V K A V L E S N A
UniRef90_F4CE49 D M K P V F Y H S L N E N V V V M K L I P G I S D L I P T I F E K Y
UniRef90_V2Y1Z7 V T V P A V I G K P V E V A V V P V V L G D N G T V R E A V A D R V
UniRef90_S5TTT7 P D T P L R V H D Q Q L E E N V T I L H L F P G L T E R M V R A Q L E A P Y
UniRef90_W8F5N1 F K A G T P E W A T P F D T L P Q V T I L V N Y Q E A S G G A I R G L V E D G V
UniRef90_UPI0003618AA9 R G K E P L N V H S R L E R D V G V L R L Y P G I P A S L V V R A F L Q P P L
UniRef90_UPI0002C46CA1 T A G E F S N P A F L K G A V A I L P V Y P G M T G A T E A I C Q P P V
UniRef90_Q2BKT4 P H E K D V M F Y Y D M K E S I Y V L K L I P G M K A D I L T Y I F E N Y
UniRef90_R6PIS7 P T T F S L P K N D D H V A L L Y S S L S S D T N L I K F C L E S G Y
UniRef90_M1NX39 A S Q R G A P R F E L P D Y E E R V R I T L W P G I S A H R V E Q W L S D P L
UniRef90_W1NB15 T H N K K L I V R K N L C S D I A I L K L F P G I S L G V V E S V L N I N I
UniRef90_UPI00035D90BC S A T I P A R T I T A T V S L T T S T D T D G R A I R H A V L D R S G V
UniRef90_I7CK44 P L I E P F S V Q L S I D G N V S L L R I T P G M S L A Q I R G A L D G S V
UniRef90_B4MT17 R T G I F K L S N S F S D K V C M I K M F P G I H R S F L E S L A D Q G Y
UniRef90_UPI00047D8E0E C T L Q K F D V H T S L N Q N V G L L R L F P G I T Y K V L K A F L Q P P
UniRef90_E2C0K9 E E E V R F Y E K L D E N V F L M K L I P G I R P K V L K S I F E N Y
UniRef90_D3L118 R V I E E M V Q P A K E V E I L L W A T L G G G E R L K M L A E D E N L
UniRef90_D3L118 P Q A V T F Y N G L S T Q D L L T L K L T P G L D E K L I T F A F E H F
UniRef90_S0KHX0 S M N K Q L V V H S N M E R N V G V L R L Y P G I T S A M V K A F L Q A P M
UniRef90_B9JJD2 S T P V A G V R V D I V A I Y P G C D A T H I Q A S L D A G A
UniRef90_G3W103 S M N K Q L V V H S N M E R N V G V L R L Y P G I T S A M V K A F L Q A P M

UniRef90_F4G0J6
UniRef90_W5N5J3
UniRef90_W9V1Z8
UniRef90_D7JGL7
UniRef90_R5VLN4
UniRef90_M5JCU9
UniRef90_R6T6P4
UniRef90_A2TX46
UniRef90_B4L5C6
UniRef90_UPI0002490AED
UniRef90_D4LYU2
UniRef90_H1XXT3
UniRef90_AORZ07
UniRef90_W6WQ07
UniRef90_F0NY24
UniRef90_UPI000366C521
UniRef90_R6LRR1
UniRef90_UPI000345647F
UniRef90_A0A010Q4M8
UniRef90_C5C7R1
UniRef90_R7JSB6
UniRef90_R6RNK2
UniRef90_K6DGD6
UniRef90_UPI0003F06816
UniRef90_B8EIS5
UniRef90_E1QYM9
UniRef90_O57797
UniRef90_R7QWV6
UniRef90_R6E470
UniRef90_UPI000411FC0C
UniRef90_F5J427
UniRef90_UPI000319A70C
UniRef90_R5XR12
UniRef90_Q5WGV6
UniRef90_Q9U518
UniRef90_H1Z9Z6
UniRef90_I2EZJ5
UniRef90_E9G593
UniRef90_A0E9N5
UniRef90_L5NBB4
UniRef90_C7DG76
UniRef90_I6URL2
UniRef90_K6YWG6
UniRef90_M0LVI7
UniRef90_R1E5E5
UniRef90_Q29917
UniRef90_A0A022LKY3
UniRef90_UPI0003B4BD7A
UniRef90_N2AT50
UniRef90_D1PNE9
UniRef90_H9KBY5
UniRef90_C2FWG4
UniRef90_UPI00036BFD89
UniRef90_H0W0T5
UniRef90_U5Q3W0
UniRef90_E8R9J8
UniRef90_L2FFF4
UniRef90_UPI00036AAB02
UniRef90_UPI000304F6FB
UniRef90_R1FUUV1
UniRef90_UPI00032B1BFF
UniRef90_R6K950
UniRef90_A2SGY4
UniRef90_X8K2D1
UniRef90_B5DTT7
UniRef90_B3S6K3
UniRef90_W5J585
UniRef90_L8JKW7
UniRef90_UPI000429DB4B
UniRef90_UPI00035E4FD2
UniRef90_B2RH44
UniRef90_H1DPC6
UniRef90_F4CE49
UniRef90_V2Y1Z7
UniRef90_S5TTT7
UniRef90_W8F5N1
UniRef90_UPI0003618AA9
UniRef90_UPI0002C46CA1
UniRef90_Q2BKT4
UniRef90_R6PIS7
UniRef90_M1NX39
UniRef90_W1NB15
UniRef90_UPI00035D90BC
UniRef90_I7CK44
UniRef90_B4MT17
UniRef90_UPI00047D8E0E
UniRef90_E2C0K9
UniRef90_G2T2Q0
UniRef90_D3L118
UniRef90_S0KHX0
UniRef90_B9JJD2
UniRef90_G3W103

250 260 270 280
K G I I V E G T G L G H T S S E F Q E A F R K A T K E G V F V G M T S Q C C L F R G G
E G I V L E T Y G S G N A N K P D N R A D L L E E A T D R S G V I M I N C Q Q C C L R G G
R G L V L E T Y G S G N A N K P D N R A D L L E E A T D R S G V I M I N C Q Q C C L R G G
K A G I V L E T Y G T G N A N K C K W L Y R L L A E A N K A G V T I L N I T T Q Q C C R A R A G G
K G L I L E T Y G S G N T D A F L F L N K I Q Q A C E K G I I I Y N V I T T Q Q C C Q G G G
H G V I L E E T Y G S G N G L P D F N L I P A I E K L T A R G K I P V I T T T Q Q C C I E E G G
R A I I M E E T Y G S G N T R D W F L D I V K E S S A M N K I I V N V I T T Q Q C C L A G A G G
K G V V L E T Y G S G N A R Q E W F L N L L K D A V Q K N I K I I N V I T T Q Q C C L A G G
R G V V M E T Y F G S G N V P P K D L L D E L K A A A A R G V I I N C Q C C P N G S G
H G I V I E G M F G G A G N L P P K V A E A L K Q R F I D A D I L P V I L V I S R C C Y S G
K A V Y I E G F G G L G M P N D F T G K V G E V I E K G M L V L A G S Q C C R Y E
K A L L L E G F G G L G M P N D F T G K V G E V I E K G M L V L A G S Q C C R Y E
R G I I F E G T G L G H V P R Q D W L S F I K A A M K R D I P V F I G T Q S C I Q G G
R G V V S A G F A P G Y T G D A D A A V L S K A V E N G L V V V Q A S R G G S G G
K A F I E E G T G T G N I F T W F I D L K K A T D E K V H L I I N T S Q C C A G G
R G I I F E G T G L G H V P R Q D W L S F I K A A M K R D I P V F I G T Q S C I Q G G
D C L V I E S F G G V G G I P Q T F Y Q E M E K W S G K G K F V V M T T Q Q V A N E G
R G I I I L T F G G S G N A H Q S A L V M T A I E S A T V K R G V V I V N V I T T Q C C A K G G
A G L I V L E G F G G A G N L P P G S A L V M T A I E S A T V K R G V V V G L A S R T F G G
D V V V L A G T G L G N A G P G H A E A V A E L A D R G V P V V L A T R T L A G G
D A I I V E A F G G V G G I P A S I I K E P F Y E L C Q K G P L I I M C T Q V H E G
R G L I I E E A F G G M G N L P P S M I M D D L R D V I Q K G M I V V V K S Q C C P Y E
K G I V L E E G V G R G Q V S P Y M M D A I K K A I A A K I T V M V T T S A E E G
Q G I V L S Q T Y G A G N A P K D L L A A F K R E A S D R G A L I V N C T Q C C K G G
D G V I L S L P G A G H V A A E A A P D L G R L A E R M P V V F A S R T G A G E
D A V I L E T Y G P Q G T D A S W E R A I F D W V E G G H T I A L T T T Q V S E E
K G I I E E G Y G V G G I P M K Y K E K I A E L I D A G T E V V I T T Q V P E G
D A V I L E E G F G V G G I P M K Y K E K I A E L I D A G T E V V I T T Q V P E G
D G V V L E T F G G E G N I N H T L V N S I R R A S Q N G A T V S V C S Q C C Y S G G
K G V V L E E T F G S G N I P T W L L K L L R Q K L V D R K I L I F N V I S Q C C A G G
K A I I L E E T Y G S G N A P P W F I R L V R E T V K K G V V I V N I T T Q C C A T G G
K G V V L H S Y G V G N P P S F L L D A L K A A H E R G V A L L N V I T T Q C C A Q G E
U N I R E F 9 0 _ R 5 X R 1 2
D G M V V E G V G R G Q V P P N L V A T L E R K R A V A N K K P I I V T T A S E E G
E G V V L Q T F G A G N M P P S H I I D E L K K A V D R G C I I I N C S Q C C V R G G
E G I V L E T Y G S G N T E P E W F L E L E R C A T Q K G I K V I N V I T T Q C C S S G G
R G V V L E T Y G A G N A P E W F L E L E R C A T Q K G I K V I N V I T T Q C C S S G G
E G I V M Q T Y G S G N I P S N L L D E L R R A T Q K G V L I I N T T Q C C C H H G
K G V V I E T Y G S G N M Q T K F L C N Q A A K R G L V I V N I T T Q C C H T E E
Q A V I I E T F G S G G L P F D L T K T V E E L I G E G K I V V I T T Q C C L T E E
D G I I I E E T G L G H V P M S W L P W I K S A A D K G V I V G I T S Q C C I Y G
R G I V I E E G Y G A G G N A P Y R G S D L L Q E E L S K E I P I V M T T Q A M Y D
N A L I L L S Y G V G N A P Q N L L A Q L V I Q A Q E N G V I V V N C T Q C C F R G G
D G I V V E E T G L G N T T S A L L G D A I A D A I E A D V P V V I T S R C C Q D G G
K G I V I E E T G F G G H V I P T N W I E N I K Y E I E R G V I E V M T S Q C C I F G
K G V V L E Q S F G A G N I P A N I L D V L R E A V G R G V L V V N I T T Q C C S V G
T G I V T A G T G A G G I S S A A G Q A R R D A I T Q G V W F V S T S R T G S G G
Q A V V L A G S G A G N G N H A M L L A W V K E A V R T G T V V G L S T R V P D E G
Q G I I L E A Y G L G I P D R S Y E E A I F D W I H S G K I L V I T T Q V P Y E G
H A L I V E G F G P Y A T A D F A R E V G A W I E A G K V V I M T T Q V Y E E G
E G V V L Q S Y G T G N V P S N R E D I I K E A T K R G V I V N I T T Q C C S T G G
R S I V M E T F G S G N T T W F L D L L K E A I D K G K N I L N I S Q C C K V G
D G A V L E A W G S G N L P E D L A Q A L R E A I E A G T A I V V I S Q C C P L G G
K G V V L E T F G S G N G P P T D L L Q E L R A A A Q R G L I M V N C S Q C C L P A G G
R A L I I E T Y G S G N A P T W L I S M L T D T I K K G T I V L N V I S Q C C P A G G
H G I V L E E G S G L G H M P N K L V P T I A R A V D N G I P V V M T S Q C C L F G G
R G I V S A A F G P G L G T P A E I L A F G E A I E D S N T V V Q S R L G P A G G
A G I V V A A T G N G T L H A A L E Q A L R A R A A A G V R V R V A S R C P Q G G
K G I V L E A F G R G Q V H P A V A E Q V Q Y A I E K G V V V V T T S T A E G G
R G V V A A T G V G H V S G T A D V I A R L V P S I P V V V A S R T G A G G
K G V V M E T F G S G N G P P D L L Q E L R A A T A R G L I V N C T H C L Q G G
R G V I I E S F G I G G I P C T A G D E I G E L T E A G I A V V I T T Q C C M Y E
D G I V V A G T G N G S L H H A L E A A L R S A Q A A G L V Q R C T R V A D G G
D I I V I E S Y G P F Y D K R N F L N E L R A L T E K G K I V I V I A T Q V M E G G
M G V V L E S Y G S G N I P S N W T E L L R S A V N R G V I I V N C T Q C C L S G G
E G V I L L S Y G S G N A F P N I T N E F R K A C D R G V L I V N I T T Q C C C R G G
R G V V L Q T Y G A G N A P T N L I A A L Q E A S E R Q V L I V N C T Q C C S E G G
R G V V L E T F G S G N A P T W F I D L I K K A I E R G I I I L N V I S Q C C P G G G
D G V I I E E G M R G Q V P P S W I A P I E T L V Q L G T A V V L T T S A E E G G
R G V V L V A T G A G N A T P E I A E A V A A A T S R G V L V A L T T R V Q A G G
K G V V L E T Y G S G N M E P W F L N A L E K A V Q R G I I V I V N V I T T Q C C V S G G
D G I V S A G V G N G N L Y K S V F D T L A T A A K N D G T A V V R S S R V P T G G
R S V I M E T F G S G N T T W F L D M L R A A I R D G K N I V N I S Q C C K V G
D G I I L E S F G T G V P D S I Q E T L D K Y E A K D K V L V I T T Q V Q N E G
D G L V V A A F G V G H V P E S V V D L S G L A E R M P V V L A S R T G E S G G
R G A V L L T Y G S G N A P P W F L Q A L R D A T D Q G L L L N V I S Q C C E E G
K G I V T A G T G A G G I S S G L S A A R S A A I T N N G V V F V S T T R T G S G
K G V V L E T F G S G N T E P E L L Q E L R A A S G R G V L I V N C T H C C L Q G G
R A I I L R S Y G V G N L N E G F I Y A L Q A N A S N K G I L I V N S Q C C L Q A G
D A I V I E S F G P E T I V I E T F Y K E M S S W I E R G K I V M T T Q V A N E
S G L V I A G F W G A G H C S P E K A A D L V R Q Y A S K I P I I A S R S Y N G
V G A L I E V W G G N I P F E D A E M A L A E A T G Q G K L V V A I S Q C C P Y G
K G I I L E T Y G A G N A P S N F I K L I S N A I G K G I Y I V N V I T T Q C C V I G G
D G L V V D A L G L G N V P T D V A S A I E S A I D N N I L V V V T T R C C R D G G
R G V V L Q S F G A G N I P S N R V D E L K A A I A R G A I V N C T Q C C L Q G G
K G L Y I E A Y G I G M P H D F I S T L D K L I K G M T V V G T Q C C R Y E
E G V V L Q S Y G S G N I P Q T N I I N E V L A E A A R G V I V N I T T Q C C M T G
D C I I V E S F G V G G I P Q S I L A E F Y R L C Q E D K L V V M A T Q V H E G
E G L V L A G F G A G N V N P A W V P Q I R Q I V R N D V P V V I T S R C C L Q A
R C I I L E S F G P E N L S T F Y Q L M H K Y Q N E R L V V V S S R V A N E G
N G I V L A A L G S G N A N P D I I D T V R R C Y T D S G I V V I V S S R V P D G
K G V V M E T F G T G N T N P D I L W E L K K A T E R G I V I V N C T H C C L Q G

UniRef90_F4G0J6
UniRef90_W5N5J3
UniRef90_W9V1Z8
UniRef90_D7JGL7
UniRef90_R5VLN4
UniRef90_M5JCU9
UniRef90_R6T6P4
UniRef90_A2TX46
UniRef90_B4L5C6
UniRef90_UPI0002490AED
UniRef90_D4LYU2
UniRef90_H1XXT3
UniRef90_A0RZ07
UniRef90_W6WQ07
UniRef90_F0NY24
UniRef90_UPI000366C521
UniRef90_R6LRR1
UniRef90_UPI000345647F
UniRef90_A0A010Q4M8
UniRef90_C5C7R1
UniRef90_R7JSB6
UniRef90_R6RNK2
UniRef90_K6DGD6
UniRef90_UPI0003F06816
UniRef90_B8EIS5
UniRef90_E1QYM9
UniRef90_O57797
UniRef90_R7QWW6
UniRef90_R6E470
UniRef90_UPI000411FC0C
UniRef90_F5J427
UniRef90_UPI000319A70C
UniRef90_R5XR12
UniRef90_Q5WGV6
UniRef90_Q9U518
UniRef90_H1Z9Z6
UniRef90_I2EZJ5
UniRef90_E9G593
UniRef90_A0E9N5
UniRef90_L5NBB4
UniRef90_C7DG76
UniRef90_I6URL2
UniRef90_K6YWG6
UniRef90_M0LVI7
UniRef90_R1E5E5
UniRef90_Q299I7
UniRef90_A0A022LKY3
UniRef90_UPI0003B4BD7A
UniRef90_N2AT50
UniRef90_D1PNE9
UniRef90_H9KBY5
UniRef90_C2FWG4
UniRef90_UPI00036BFD89
UniRef90_H0W0T5
UniRef90_U5Q3W0
UniRef90_E8R9J8
UniRef90_L2FFF4
UniRef90_UPI00036AAB02
UniRef90_UPI000304F6FB
UniRef90_R1FUUV1
UniRef90_UPI00032B1BFF
UniRef90_R6K950
UniRef90_A2SGY4
UniRef90_X8K2D1
UniRef90_B5DTT7
UniRef90_B3S6K3
UniRef90_W5J585
UniRef90_L8JKW7
UniRef90_UPI000429DB4B
UniRef90_UPI00035E4FD2
UniRef90_B2RH44
UniRef90_H1DPC6
UniRef90_F4CE49
UniRef90_V2Y1Z7
UniRef90_S5TTT7
UniRef90_W8F5N1
UniRef90_UPI0003618AA9
UniRef90_UPI0002C46CA1
UniRef90_Q2BKT4
UniRef90_R6PIS7
UniRef90_M1NX39
UniRef90_W1NB15
UniRef90_UPI00035D90BC
UniRef90_I7CK44
UniRef90_B4MTI7
UniRef90_UPI00047D8E0E
UniRef90_E2C0K9
UniRef90_G2T2Q0
UniRef90_D3L118
UniRef90_S0KHX0
UniRef90_B9JJD2
UniRef90_G3W103

290 300 310 320
R V N M N V Y Q T G I P L G D M L P E V A L V K L M W V L G Q T D D L E Q L T K
S V T E S Y A A G L I A G G C D M T P E A A L A K L S Y V L A Q Q H L S L D E K R K K
S V E S Q G A Y A T G V I A G G A D L M T L I E A A A F T K L H F L L L G R Y N E S D A K V I R K K
S V M E M G R Y A T V V I A G G Y D L M T V I E A A A V A K L M F L L L G R Y N E S D N E K L R K K
T V E M G R Y E T S T A G Y D I T T E A A A V C K M M Y V L G Q Q K D A N E T K K
Q D I N L Y E A G G I T T V G D M N T T E S A A L A K L M W V L A D K T R D D L D K V R V
T V N M N I Y A N G I T D G Y D M S T T E S A A L A K L F Y L M G K A S T R D D N E W V K A
S V S Q G H Y E T V I S G G K D T T E T A I A K L M Y L L H E D L S N D E F T H
S V A E I Y A D V G V I P G R Y D M T P E A A A L T K L A Y V I G K S E W S L E V K K D
Q A V P V Y A Y D V G I I S R Y L N G Q K A L I R L R V G V S A E L R G K E L A D K E
G S N L S V Y E T G L Q A Y D M T T E A A M T K L M W V L G Q T S G D L R E M K E
R V D L S L Y E S G R Q A G G D M T V I E A A Y V K L L K L K L K L T S H P D A I V R N
R V S M T V Y E S G R P L G Q D M L S E T A L V K L M W A L G I K D D I K G V R N
R T F E S A R A R F I P V D N L N P Q K A R L L L A L A L T R T S S S E E V A Q
M V E L G R Y A T V I S S Y D L T M E A A I T K V I Y L L G Q N L S Y Q D A F K
R I N M H V Y E T G I G C E D M L P E T A F V K L M W V L G N Y K D M E D A K R
G S N M T V Y E V G I E A Y D M T L I E A V I T K L M W L M G R E E Q D M Q K
N V I Q G K Y A G V S C G G D M T L E A T V T K L M F L L G Q S D D S E E W V R D
S V A A I Y A A G A V A L G D M T P G T Q A R V L L A L L L S T G A R E E T K D
P V L G V Y G D G G V P A G E L T P F Q A R I L A A T V A A S H P D P P E F R A
S D M T V Y E V G H E M S Y D M T P E A V A T K T M W L L G N R D D H H E S R E K E
C N L S L Y E T G R T A R D M S T E A V V T K V M W I L G K H W E R K K I E E
K V Y P A Y G Y V G S A G E D Y D S K K A R I K L A V L L A S
T V V C A S Y D A G L I P G S D M T V I E A A L T K L S Y V L A N K G L S V E K R K
E T L C A S Y A Y A I P A R W L D A R K S R I A L Q L A L A Q G A D L A Q E T R A
G L D L G V Y E V G R A G D D M T T E A L V A K L M W A L G Q T R D R Q E I R E Q
G V D L Q R Y K V G I P A G D M T K E A T I T K L M W I L G H T K N I E I V K K
S N L D I Q Y E V G R T F A Y D M T I E A L V T K M M W V M A E A Y T H E D I R K
S T R L G I Y A T A V G C Y D M T T E A A V A K L Y Y L F S C G Y P K E M I K E
K V L Q G H Y E T V V S G R D T P E A A I T K M M H L L A M E K D Y S L L Q A
M V D M H R Y E T G V S G F D A T F E T A I A K L M F L V G H K Y V K E D I Q
E I Q G A Y A T G I A G G D I T L I E A A V A K L I V L L G R G L S G P A L R K
G S N L S V Y E T G R Q A Y D M T A E A A M A K L M W V L G Q T D S L R E I R E
K V Y P T Y D Y K G I L G S D Y D S K K A R I K A M V M L A A N K L A A
Q V D H Y Y D M G I I L G S D M T A E A A L T K L S Y V L S K D W E L V E K K A
S V M M G K Y E T I I S G S K D I T T E A A A I T K L M F L L A Q P D I V D F K L
R V L Q G H Y Q E T I I S G S D I T T E A A A I T K L M F L L S Q E S E I P E R V K Y
A V Q A I Y E A G V I P G G A D M T P E A A L T K L S Y V L S K E W D L D T K R Q
Q V E M I Y E M G V I S G G D M T S Q A A F T K L G Y L L A Q R T S D D D K V K Q
G A D L S L Y K V G I L S N E M N T E A L L P K L M W A M G R T S N F S E L K Q
R V N R S V Y A G A V Y C E D M T A E T A Y V K L S W L I K N Y G K E K A R E
G V D L T R Y K A V G I P A G D M T K E A T V T K L M W I L G H T N N V E I K V
T V N M T G Y N G I S G G D M T P E A T L A K L H Y L L S K E L S T Q E R K G
A V A P V Y G T A G I E G G D L P A H K A R L K L L A L G T D D I D A L R K
R T N P F V Y L G V I Y A E D M H P E T A Y V K L M Y V L G H T E N Y D E V K K
I V A P L Y E S G V I P G Y D M T P E A A L T K L A Y V L G K E W D L A N K K
T V G P T R A A G M I S G N E L L P Q K A R L L I L S R A F T D D I T V A R D
P V V P I Y G N G V A A G A L N L G A A R M L A A L L S S G A E V D D V
G C D F S V Y E V G H I A G N M T L E A I S A K L M W A L G Q T K E L E K I R E
S D M S V Y Q Y G V I E A Y D M T L I E S V V T K T M H L L P R C R D L T E F R T
H V S N L Y E A G I I S G F D M T P E A A L T K L A Y V L S K E W D M Q T K R E
S V E L G R Y E T S Q G G Y D M T F E A A V T K L M Y L Q G E F E D Q K D V A Y
A T H L A N Y A T G I D G S D M T P E A A F T R L H W L L A S G Y H G D T L R Q
S V T P G Y G A N I V S G L D M T S E A A L A K L S Y V L G L E L S L E R R Q
S V N M E T Y S T G I S G F D M T T E A A L T K L F F V L G N N T E Y
R V N L H V Y S T G I P G L D I L P E T A Y V K L S W I L G S S R D P E E V R K
V V V Q H Q D L G I A G D N L N P Q K A R I L A L C L A S S W T H E Q I R K
R M L A L Q D A R W Q D A G D L S P V K A R V S L L L L A A T M
N V K V V Y D T P G I L G R D Y D S K K A R M K L A V M L A A E V G E I K E
P T L R S T Y G F Q T M A G W L D A R K A R I L L H V L L A S G A D R D R L E R
T V T S D Y A A G T A M A G D M T S E A A L A K L S Y V L G S G L D R Q R K E
G V S L D V Y E V G I V A K D M T T E A V T M K L M W A L A H Y T K M T D V K E
A V L P T G H D A L P L S E A R T P A Q A R I E L M L A L M A
S D A E K Y E Y N A L Q S F D M T V I E S A V T K L M W L C A E H E G Y E E I R D
S V A A I Y D A G A V L S D D M T S E A A Y T K L A Y V L G T D L P H H N K I E
F V D D S Y M V G I I P G A D M T P E A A L T K L M S Y L L G R D D D L A T K R R
A V C D L Y E V G V I P G Y D M T P E A A L A K L S Y V L S Q E W D D W E T K Q K
R V I Q G R Y D T V I E G A D L T L I E A A I T K L M L L L G E E Q H V G A I K K
N V S Y T T Y E P G I L G H D E D S K K A R M K L T A C L Q A G S S A S E
P V S E I Y T H G G V P T G T E R A G Q A R I A V L S A L L A T T D P R E G E R
Y V D M H R Y E T G I S G Y D S T T E C A I I K L M Y L F G R G Y T P E R V K A
A T T Q D A E Y G F V A S G T L N P Q K A R V L L Q L A L T Q T K D P Q Q I V Q R
S V E L G R Y E M G V I S G D M T P E A A V T K L M Y L Q G E F E D Q S E V A R
G S D T D I Y E V G V E A A D M T L I E A T L T K L M W V L A K N R T W A Y I E D
S V L E R T Y A F P I P A G F L D P L K A R I L L W H L L S N G H D I A D R R Q
R V L Q G R Y E T V I G G D I T V I E A A I T K L M F V L G L N E K P T R T R H
G S V Y G G S G N T V A G D N L N A S H A R M M L L L S L A F S N D V S Q I R S
T V T S D Y A A G A A L A G D M T T E A A L A K L A Y V L G R G L S L D D R K Q
D V Y Q G Q Y A C V L S A G E M T Q E A V F T K L H F L L A T E T E P E I I K K
G S N M T V Y E V G I E A Y D M T L I E A T I T K L M W L M G L K M K Y K E F K N
P T A R T Y A G A L M S G Y L S A A K S R L L W T F L A Q G L S R A Q I N T
T I K I G H Y A A G V S G D M T P E A A W T K L H L V A Q P L S E E T D R Q R
S V L P G H Y E T V I D A K D M T T E S A L A K L M Y L L G I G I E K E E F S L
V V S P V Y G S D G V F G S D L P A H K A R L K L V A L S A H D S D D V R A
S V A D V Y D A S V I F L G D I T M E A A Y T K L S Y V L S K G W S L Q D K K D
G S K M D V Y E T G R E A H D M T S E A A L T K L M W I L G M T S D I S E I R D
S V S D V Y E A G G V T S G D M T P E A A L T K L A Y V L S K S W D T E T K R L
S D M T V Y Y C R F L E S Y D M T L E S V I A K V M W M L G N Y D S C D I E E
R V L T C Y G Y E G S A G N L T P L Q A R L K L A V G I G K G F T G K D L Q S
S D M T I Y E V G K K V A Y D M T F E S V V T K L M W L M A R F E T I E Q M R Q
L L V A S Y G A G A V H S Y T L R P S Q A R I L L A A L I A A R S P A G Q I S R
S V T S N Y A A G M A L S G D M T S E A A L A K L S Y V L G R D D

UniRef90_F4G0J6	LMK
UniRef90_W5N5J3	MLSE
UniRef90_W9V1Z8	
UniRef90_D7JGL7	ELNT
UniRef90_R5VLN4	
UniRef90_M5JCU9	LMQT
UniRef90_R6T6P4	MM
UniRef90_A2TX46	YFEK
UniRef90_B4L5C6	QM
UniRef90_UPI0002490AED	YLR
UniRef90_D4LYU2	YF
UniRef90_H1XXT3	MFNE
UniRef90_A0RZ07	IM
UniRef90_W6WQ07	LFRFY
UniRef90_F0NY24	EYEK
UniRef90_UPI000366C521	MF LT
UniRef90_R6LRR1	AFYT
UniRef90_UPI000345647F	RTAT
UniRef90_A0A010Q4M8	RLERW
UniRef90_C5C7R1	QFE
UniRef90_R7JSB6	AFYK
UniRef90_R6Rnk2	MFYK
UniRef90_K6DGD6	
UniRef90_UPI0003F06816	LMAT
UniRef90_B8EIS5	IFD
UniRef90_E1QYM9	LFY
UniRef90_O57797	LM
UniRef90_R7QWW6	LFYK
UniRef90_R6E470	LM
UniRef90_UPI000411FC0C	RLAT
UniRef90_F5J427	
UniRef90_UPI000319A70C	AL
UniRef90_R5XR12	YF
UniRef90_Q5WGV6	
UniRef90_Q9U518	MM
UniRef90_H1Z9Z6	AFE T
UniRef90_I2EZJ5	RME
UniRef90_E9G593	MMMT
UniRef90_A0E9N5	E F Q
UniRef90_L5NBB4	LVE
UniRef90_C7DG76	ML
UniRef90_I6URL2	LMRK
UniRef90_K6YWG6	LM
UniRef90_M0LVI7	A F E
UniRef90_R1E5E5	MF LT
UniRef90_Q299I7	V M H
UniRef90_A0A022LKY3	W F A T
UniRef90_UPI0003B4BD7A	
UniRef90_N2AT50	LFY
UniRef90_D1PNE9	R F LT
UniRef90_H9KBY5	MMQT
UniRef90_C2FWG4	WTE K
UniRef90_UPI00036BFD89	N F H
UniRef90_HOWOT5	LLAK
UniRef90_U5Q3W0	
UniRef90_E8R9J8	V F LT
UniRef90_L2FFF4	T F E
UniRef90_UPI00036AAB02	
UniRef90_UPI000304F6FB	R F
UniRef90_R1FUUV1	E F R
UniRef90_UPI00032B1BFF	LM T T
UniRef90_R6K950	F M E
UniRef90_A2SGY4	
UniRef90_X8K2D1	G F Y K
UniRef90_B5DTT7	LM
UniRef90_B3S6K3	MLKE
UniRef90_W5J585	MM
UniRef90_L8JKW7	
UniRef90_UPI000429DB4B	
UniRef90_UPI00035E4FD2	LLR
UniRef90_B2RH44	EM
UniRef90_H1DPC6	IFNQY
UniRef90_F4CE49	WVE
UniRef90_V2Y1Z7	N F K K
UniRef90_S5TTT7	T F
UniRef90_W8F5N1	LL
UniRef90_UPI0003618AA9	WF Q S F
UniRef90_UPI0002C46CA1	LLAQ
UniRef90_Q2BKT4	R F
UniRef90_R6PIS7	R F Y T
UniRef90_M1NX39	H W N D W
UniRef90_W1NB15	LF H T
UniRef90_UPI00035D90BC	Y Y E Q
UniRef90_I7CK44	LF
UniRef90_B4MTI7	MM K T
UniRef90_UPI00047D8E0E	Y Y
UniRef90_E2C0K9	M M E T
UniRef90_G2T2Q0	V F Y
UniRef90_D3L118	YL
UniRef90_S0KHX0	S F Y
UniRef90_B9JJD2	A F
UniRef90_G3WI03	

UniRef90_UPI000371BD6A
UniRef90_Q091E1
UniRef90_W0HHA5
UniRef90_UPI00035E8F34
UniRef90_E8U3Y0
UniRef90_I3RBY6
UniRef90_Q17H26
UniRef90_UPI000465F178
UniRef90_Q6LP01
UniRef90_UPI000478DB32
UniRef90_UPI0004718B75
UniRef90_M2Q4N9
UniRef90_UPI0004679F3D
UniRef90_UPI0002898D15
UniRef90_B0UEM2
UniRef90_F3BD12
UniRef90_M7NGF2
UniRef90_H5X126
UniRef90_G4VJ31
UniRef90_G3JCW4
UniRef90_V8R0V4
UniRef90_UPI00037E3716
UniRef90_UPI000371DBFD
UniRef90_S0AY56
UniRef90_UPI00036CA43D
UniRef90_W7T0A2
UniRef90_S8C8A9
UniRef90_A3YI56
UniRef90_F2JY71
UniRef90_E6YG42
UniRef90_UPI0003B309A9
UniRef90_UPI000343F754
UniRef90_A9W149
UniRef90_V5SJ31
UniRef90_G0RV10
UniRef90_C1CYE1
UniRef90_B9CY17
UniRef90_UPI00034FEEB2
UniRef90_B0S0X5
UniRef90_UPI000392D0ED
UniRef90_A0A017SPP6
UniRef90_V5IM34
UniRef90_C5LBH1
UniRef90_Q86U10
UniRef90_H0IYP7
UniRef90_D5TZY9
UniRef90_UPI000370CB3A
UniRef90_T0VJ08
UniRef90_UPI00037AF22A
UniRef90_V4YI21
UniRef90_K1Y3X4
UniRef90_U7PVV1
UniRef90_B3M1D2
UniRef90_D2B0W2
UniRef90_UPI000370548C
UniRef90_UPI00031B5F16
UniRef90_J9SLK9
UniRef90_B8M9H2
UniRef90_J2PDD0
UniRef90_F7MGD2
UniRef90_K6ZNB0
UniRef90_UPI0003742271
UniRef90_W4FLD4
UniRef90_D2QEK2
UniRef90_A0A023B1C2
UniRef90_UPI0004766C52
UniRef90_R9IW95
UniRef90_A1C543
UniRef90_UPI00047A7EC6
UniRef90_M1VXD4
UniRef90_U4LQM6
UniRef90_S7QDDQ3
UniRef90_A0A024M6B2
UniRef90_B4MTW8
UniRef90_D8KNL2
UniRef90_L0K5E1
UniRef90_D5NVZ9
UniRef90_E1VC62
UniRef90_A3XHT0
UniRef90_L11830
UniRef90_W9CE44
UniRef90_UPI0003703048
UniRef90_U5BMK2
UniRef90_U3GYR2
UniRef90_E8UG43
UniRef90_M5DQ19
UniRef90_Q9VH61
UniRef90_W1RQT3
UniRef90_B6V679
UniRef90_G9WHV5
UniRef90_V5GK86
UniRef90_UPI00034DB8BE

1 10 20 30 40

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

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

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

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

UniRef90_UPI000371BD6A V D T G G H T V I T S Q D V L L T T G 60 Y L L T H H H L R I I A E A V K A T L Q Q
UniRef90_Q091E1 A P E L F Q L A D I E L E L F S N L D S S E M Q P E L W S R M A A H L H Q R M
UniRef90_W0HH45 V P G L V V P Q W R V F R E M S P L L D S S A N M T P D Y W L R L R A E A V T E A V D
UniRef90_UPI00035E8F34 L T L P K D G V N V Q V H S I L L Q K P S S N A I T L A D L L K I H H L C K E L A N
UniRef90_E8U3Y0 L P D V D V I T F Q P F T L P S S P H V T P Q H M H A L R A L I E R E
UniRef90_I3RBY6 L S G L R D S H E L F L D L M N V L D S S T L I Q P S D W S L L A E N D I Y Q D K I S
UniRef90_Q17H26 Y P N M H D D A Y A I C E Y E P L L L D S S S N M G V A D W V R I A A N D I K Y A F L S
UniRef90_UPI000465F178 D L T S G L D V E V H D V L S V D S S S Q L T P A D W D S I A A A V R R A A A D
UniRef90_Q6LP01 I D E H E Y E P L I D S S S D M S P E D W Q R I A A D D I K A N Y D
UniRef90_UPI000478DB32 I P D F G T T I M V D E H I A F S L P S S P H I T P S H M L S L A K T I D N F L H
UniRef90_UPI0004718B75 I P D V K D V C E V Y T H Q V C N V D S S T N V T P A H W K M M S R A V E D H
UniRef90_M2Q4N9 L H M V A G D M E L S L M D F R M V D S S A N I F P E D W T D L A G V I A E K
UniRef90_UPI0004679F3D V P S L S Q L G E I S D V H D L L F K D S S S N M S P L D W K R I A M F L I A Q E K
UniRef90_UPI0002898D15 I P Q L K S Q A Q I D T V S V P P K D S S A D M N P S D W Q F L G N L I Y S K F
UniRef90_B0UEM2 I V P E A R A V A E V I P V R F R A V I T D S S P G I G F A E W R D L V R L C E E D Q V A
UniRef90_F3BD12 I P Q V E Q V C E V R T M Q V C N I D S S T N V T P E H W T L L S K T I I E E Q Y D N
UniRef90_M7NGF2 I P S L S R F N Q L T V L S F E E L D S S N A T P E T W Q A I G A A I R D L L
UniRef90_H5X126 L D E L T T L A D V Y P S E F R G A S P P G L R L A D Y R E L T L R V D A L L
UniRef90_G4VJ31 S D H L Q T Y A Y T V V E Y W P L L D S S S D L S M N E W K R I A Q D I Y A F
UniRef90_G3JCW4 P T A Y G R H I R Y I V E F D P L L D S S S I S S N D W D A M A E C V A E N
UniRef90_V8R0V4 V P E L N M L A R A T V E T F G L L P S S A S L D F E Y L L N V L D W A N A Q I F S
UniRef90_UPI00037E3716 V P E V L E F A D R T E Q F L N L G S T D V T P E H W L G L A N R I N Q I E D
UniRef90_UPI000371DBFD A P G L E K L A R I T V T E F S N I P S A E M G P D L W P S L T R T V E G L L A
UniRef90_S0AY56 M S E L L Q S E S R V D V E M D P L L D S S S I S P K D W V K I G D I I N K Y Y K
UniRef90_UPI00036CA43D L P E L N D F A I S L L T L N E L I D S S S N M K P A V W V E L A Q I I Q D H
UniRef90_W770A2 V P G L D E D I K L R T I A F R A L P G A S V G F D D L T A L A E L I T A E I D
UniRef90_S8C8A9 L T S Y H K R L R Y C V M E F P L L D S S S I N A P A K G W K I A W T I Y N N
UniRef90_A3Y156 S T E H E F V H C Y P E L I D S S S N A A P S D W V A I A N D L Q S K W Q
UniRef90_F2JY71 L A E L P L F D V I E L T P L I P S S A N I A P D H W A R I Y D T L Q D K W N
UniRef90_E6YG42 V P G L K N I A D I H S Q T T Q L P S S G S L S F T L L E T I E W A T Q Q I
UniRef90_UPI0003B309A9 V P G L E H A A Q V T A S H T P L T M P G A S L T F A E L N E A L E L A R K S V D
UniRef90_UPI000343F754 P P A S P D Q R V I Y T E C Q P L F D S S S D M T I S E W V Q I A Q T I E R H
UniRef90_A9W149 V P G L A A V I A S L E T L S P L R R P S A G L T L D D L I G V A R T L N E R L A S
UniRef90_V5SJ31 A G E S R R I Y T I I E Y D P L L D S S S N M S I K E W I Q I A E D I K E N
UniRef90_G0RV10 I P P T A Y K R H V R Y E F T P L L D S S S I S A A D W A N M A T A I K D N
UniRef90_C1CYE1 V P G L G M V Q V T D H Q P F T L P S P H V T P T H M L T L A K I E T L
UniRef90_B9CY17 V P A L K D M A E L K A Q T I L A L P S S G S L K I D D L V S V Y K W A K E Q I
UniRef90_UPI00034FEEB2 F P Q L H D P A L W E Q E Y E N L L D S S S N M S E E D W I F L A E D I K K Y Y E
UniRef90_B0S0X5 V K F K K F D F E L D T I S L F S I D S S T D I R T P K H W L H I K Q T I K E N Y D
UniRef90_UPI000392D0ED K R I F Y T L L E L S P L L D S S S N M T P E D W A K I A R K L E H Y E
UniRef90_A0A017SPP6 I E V I N D N A E R T Y E F P E L L D S S S I D A K G W T E I A E T I E R N
UniRef90_V5IM34 V S A Y S R H I R Y I L E F T P L L D S S S I S S M G W T E L A K T I K E N N
UniRef90_C5LBH1 L P E L Q A T G M P S V S V I E W I D S S S D M S P E G W A A M A K A V E D N
UniRef90_Q86U10 L P P A S R N Q R I V L E C Q P L F D S S S D M T I A E W V C L A Q T I K R H Y E
UniRef90_H0IYP7 L P L A Q R Q A Y D V I S Y A S L T D S S A A T P L N W Q Q L A R D I A D N V I N
UniRef90_D5TZ9 A P E L G D V G F L N V R E V M K K F S E D I T P S D W E K L S L E V Y R E I
UniRef90_UPI000370CB3A S R G E L P P T V F E E L D P P I D S S A N A T P D D W C A I A R V L H E Q R S
UniRef90_T0VJ08 P H I D D D V E L I V E D I F N L P S P H I A P E Q M L Q I K E R I Q L A H
UniRef90_UPI00037AF22A C G T T D E V R V Y D A T S L D S S S M T L A D V D H L I S L V H S A L A
UniRef90_V4Y121 V P E L A G R A N Y R G R V V A N I L S E N M E P A I W R D L A G A V R D E I Q
UniRef90_K1Y3X4 I Q P V L E N R R V S V G K T I M N I D S S S N M T P S R W R A I A E C I V A E Y D
UniRef90_U7PVV1 V S A Y S R H I R Y S I L E F P L L D S S S I S S A G W A E I A Q A V R D N
UniRef90_B3M1D2 L P P A Y R V L Y D V L E F N P L L D S S C M G I G D W Q K I A K E V A K N M
UniRef90_D2B0W2 L P P A A L A D V V E D Y R M A E P G W D T S P S T M L G L A R R A R S A I L
UniRef90_UPI000370548C S G V K G M P Q W D L H E Y E R L I D S S A M A Q P H D W H T I A K D I A S H
UniRef90_UPI00031B5F16 L A A L G L A A E L H P Q E I A R I G S Q D I G F A E W Q A L H A A C M G A M D
UniRef90_J9SLK9 T G T P A T G P A I R T V D L M S V D S S A M T V A D Q F A V V R A I A D A L A
UniRef90_B8M9H2 A G E K R K Y A S L R T E F E L L D S S S I D S K G W A E I A Q T I Y N N
UniRef90_J2PDD0 R I G G A I D V E V I E V F A K P S P N M S L A D M A L L A Q T A L A K
UniRef90_F7MGD2 Y S V L E K F P T D Y Y F H D K L I D S S D V T V E F W L K L V E V I E K N Y D
UniRef90_K6ZNB0 M P E F H R P D F T I H E Y H N L I D S S S D M S P S D W Q K I A N D I A E Q N
UniRef90_UPI0003742271 P P D R Q A S P D F E V E Y T Q P I D S S A A T P A D W Q R L A R D I A E R Y S
UniRef90_W4FLD4 M D E F K G M P K V T I I E W E P I D S S S D M S P A D W G R I A Q T I E E H Y T
UniRef90_D2QEK2 V P E L D R D F D I T L T L H E P I D S S S N M K P A I W V E L A K I Q D T
UniRef90_A0A023B1C2 L P E L Q G A S L P S F D V V E W L D S S D V A L E H W C R L V G T I S A N Y D
UniRef90_UPI0004766C52 V A Q R F D N A Q L E V R E L N R L D S S A A M T L A D T D A I V A A I H D A L D
UniRef90_R9IW95 I P D V Y Q I C N P A V R L C N I D S S T N M E P K H W K M I V Q A I H E N Y E
UniRef90_A1C543 V P T F R R V R Y T V F E F E L L D S S S I D A K G W T E I A R T I E R N
UniRef90_UPI00047A7EC6 L T S R F D N T S I E V R E T L R L D S S S M T F A D D D E I V L A V H D A L E N
UniRef90_M1VXD4 T P P T A H K R H I R Y E F T P L L D S S S I S A S D W D N M A S C V H N
UniRef90_U4LQM6 V P V A V E E G K V E L E F D P L L D S S S I N A K G W A K I A K A I E R N
UniRef90_S7QDQ3 L P C L K R I R Y A L L E W N P L L D S S S N I E I S D W R I A T E L E L N
UniRef90_A0A024M6B2 D L A A G L D V Q V D V M K K D S S S L M T P A D W D A I G A A K K A V A
UniRef90_B4MTW8 T N E P R R I I Y K I K E H D K L I D S S S N M G K S D W N L I A D R I H Y H
UniRef90_D8KNL2 A P R F S G K V D I E V R E L H R L D S S S M T F T D D V I V S E A H K A L A
UniRef90_L0K5E1 V P V L D E F A E I T F D P V Q K P S P L N A E D F V E I T K A I M D A A
UniRef90_D5NVZ9 I D S G S H E V V G K D V L T T G S Y L L N H Q D L R V I A E A V A E A V R
UniRef90_E1VC62 A R R A A L P D F H F L A T A R P I D S S A A T P S D W R D L A G L V A E H
UniRef90_A3XHT0 I P E L R L D C E I E T G F E Q I D S S S N M N P K L W V A L C D I E E N Y E
UniRef90_L11830 L H R M G T R V D V K E F R P L V D G P D I T D R H W T T I A C M I G E H
UniRef90_W9CE44 L P S L R H V R Y T L Y E F P L V D S S S I S S N G W T Q I A T T I E R N
UniRef90_UPI0003703048 V P E L A D F D L T V R S L R S L P S A S L G F A D L A E L H T V I V E A E L
UniRef90_U5BMK2 I P T L S M N I A I T V I S F P P I D S S S N V N M Q H W V D M A Y I Y E N
UniRef90_U3GYR2 F G E D F S F D V R E L N R L D S S A A M T F A D V D E I V G E L H R V F E
UniRef90_E8UG43 V P G L Q D M S E I W Q K T I A N V A S G S L D F D T V F A S L A W A K Q Q V E
UniRef90_M5DQ19 T L P V Y D L V Q L D T L I D S S A D L C P N D W S R I A L S L T Q Q W H
UniRef90_Q9VH61 V S G A P Y R V L Y D L I E F C P L I M S S C M G F C D W K R I A N E V G K T
UniRef90_W1RQT3 D E L P H D V F D I V S Y P T L I D S S S N A T T Q D W Q T I A N D I E K K W H
UniRef90_B6V679 V P Q L R D L A D I S W E Q I A N L D S S S N M C D E I W L R L A K K I A K L F A
UniRef90_G9WHV5 G P L D F I P L M D K D S S S N M Q P E D W I K M S Q T I R S H
UniRef90_V5GK86 E Y D P L L D S S S M D I P D W I R L A S D I S L N
UniRef90_UPI00034DB8BE V P G L S D V A M I T T A S L R Q L P S A S L R Y D D L M E A L A W A E Q Q V

	90	100	110	120
UniRef90_UPI000371BD6A	R R D V D G V V L T H G T D T M E E T A Y L L H L V H D S H K P V V V L T G A Q Q R			
UniRef90_Q091E1	P A F D G V V V T H G T D T L A Y T A A S A L S F M L D L P C P V V V L T G S Q Q R			
UniRef90_W0HH45	V D G C D S V L V L T H G T D T L A Y S A A T F S F Q L L G L N A P C P V V V L T G S M Q R			
UniRef90_UPI00035E8F34	R A D V D G V I V I T H G T D T L E Y T A A Y F L S F Q L L P L E C A P V V V L T G S S Q R			
UniRef90_E8U3Y0	R A Q H F D G V V V T H G T D T L E E T A F F L H L T L G T H T P P V V V L T G S S M R			
UniRef90_I3RBY6	G E F F D G V V I T H G T D T L A Y T A S M L S F M L N L P P T P V V L T T G S S M Q			
UniRef90_Q17H26	Y E F F D G F V V L T H G T D T L C Y T A S A L S F M F N L G K T P V V L T T G S S Q L			
UniRef90_UPI000465F178	D D T T D G I V V L T H G T D T M E E T A L W L E L I Y D G A P P V V V L T T G S S Q R			
UniRef90_Q6LP01	K Y D Y D G F V I T H G T D T M A Y T A S A L S F M F N L D K P V V V L T T G S V L T			
UniRef90_UPI000478DB32	V E Y D G I V V T H G T D T L E Y T A A Y F L D L V L D T E K P V V V L T T G A M R			
UniRef90_UPI0004718B75	Y K D Y D G F V I C H G T D T L A Y T A A A L S Y M I N S E K P V V V L T T G A Q K			
UniRef90_M2Q4N9	K D D Y D G I V V T H G T D T C A Y T S S M L T F M L N L D I P V V V L T T G S M Q			
UniRef90_UPI0004679F3D	R Y D A D G I V I T H G T D T M A Y T A S A L S F M L N F T K P V V V L T T G S M Q			
UniRef90_UPI0002898D15	M Q Y D G F V V L H G T D T M S Y T A S A L S F M F N L R K P P I I F T T G S S Q L			
UniRef90_B0UEM2	A H P D A G I V I G H G T A T L E Y T A A Y A L S L T L T V D V P V V V L T T G S Q R			
UniRef90_F3BD12	K Y D G F V I C H G T D T L A Y T A S A L S Y M I Q H S K P P I V V L T T G A S Q K			
UniRef90_M7NGF2	Y E L Y D G F V V T H G T D T M A Y S A S A L S F M L N L Q K P V V I F T T G A Q L			
UniRef90_H5X126	T D V D A V V T T G T Q F L E E L A Y W L D L T V R S P K P V V V V T T G A S M R			
UniRef90_G4VJ31	Y N E F D G F V V L H G T D T L A Y T A S A L S F M L N L G R P V V V L T T G A Q L			
UniRef90_G3JCW4	Y N L F D G F V I L H G T D S L S Y T A S A L S F M L N L G K P V V L T T G S Q A			
UniRef90_V8R0V4	Q D G V A A V I L Q G T D T L E E T A Y F F D Y L W A H D E P V V L T T G A M R			
UniRef90_UPI00037E3716	P D A A G V A V T H G T A T L E E T A Y F L N L T I K S S K P V V V V T T G A M R			
UniRef90_UPI000371DBFD	D P E I A G V V L H G T D T L D T T A Y F L D L T L R S S D K P V V V V T T G A Q R			
UniRef90_S0AY56	Q S Y D G F V V L H G T D T M Q Y T A S A L S F M F N L K K P V V V L T T G A S Q L			
UniRef90_UPI00036CA43D	Y S Y S D S F V I L H G T D T M S F T A S A L S F M L E G S K P V I V L T T G A Q L			
UniRef90_W770A2	A G A R G V V V T Q G T D T I E E T A Y F L D T S V L D G A P V V V V T T G A M R			
UniRef90_S8C8A9	Y K E F D A F L V L H G T D S L A Y T S S A L S F M H N L S K P V V V L T T G S Q T			
UniRef90_A3YI56	E Y D G F M V L H G T D T M A Y T S S A L A F M L N S S K P V V V V T T G S Q T			
UniRef90_F2JY71	E Y D G F V V L H G T D T L S Y S A S M L S Y M F G C N K N I V I V T T G S Q I			
UniRef90_E6YG42	K A G A D G I V T Q G T D T L E E T A F F L S L Y W N K A E P L V V V T T G A M R			
UniRef90_UPI0003B309A9	D G H S G V V V V Q G T D T I E E T A Y L F D L Y W D R E A P L I V V T T G A M R			
UniRef90_UPI000343F754	Y G Q Y D G F L V I H G T D T M A F A A S V L S F V L N L Q K T V I V L T T G A Q V			
UniRef90_A9W149	G D L D G A V I L Q G T D T I E E T A F V L D S L V A G D K P V V V L T T G A M R			
UniRef90_V5SJ31	Y E F Y D G F L I L H G T D T L S Y T A S A L S F M L N L G K T V I V L T T G S Q I			
UniRef90_G0RV10	Y H L F D G F V I L H G T D S L A Y T A S A L S F M L N L G K P V V L T T G S Q A			
UniRef90_C1CYE1	A P T H D A V V T T G T D T L E E T A F A L H L L L R T S T P V V L T T G S M R			
UniRef90_B9CY17	K N G S R G V V I T Q G T D T L E E S A F F L N L I W D E A V P L V I V T T G A M R			
UniRef90_UPI00034FEEB2	Q Y D G F V V L H G T D T L S Y T A S A L S F M F N L G K G I V I V T T G S Q I			
UniRef90_B0S0X5	K Y D G F V I T H G T D T L A Y T A S A L G Y L I K S P K P I V I V T T G S Q K			
UniRef90_UPI000392D0ED	K Y D G F V I L H G T D T M A Y T A S A L S F M C N L G K T I V I V T T G S Q V			
UniRef90_A0A017SPP6	Y T H F D G F V V L H G T D S L A Y T C S A L S F M L N L G K P V V L T T G S Q S			
UniRef90_V5IM34	Y H M F D G F V V L H G T D S L A Y T A S A L S F M M D L G K P V V L T T G S Q A			
UniRef90_C5LBH1	Y D D Y D G F V I L H G T D T M S Y T S S A L S F M N L A K S V I I V T T G S L L			
UniRef90_Q86U10	Q Y H Y G F V V I L H G T D T M A F A A S M L S F M L N L Q K T V I V L T T G A Q V			
UniRef90_H0IYP7	A Y R G F V I L H G T D T L S Y T A S A L A Y Q L Q G D R P V V V L T T G A M Q R			
UniRef90_D5TZY9	T S G A E G V V V A H G T D M M S Y A A A L F S I I G K P V P I V F V T T G S Q R			
UniRef90_UPI000370CB3A	R H R G F V V L H G T D T M A Y T A S A L S F L L P S G K P V I V V T T G S Q I			
UniRef90_T0VJ08	L S G I D G V V V T H G T D T L E E T A F F L D T T I L G N Q L P V I V I T T G A M R			
UniRef90_UPI00037AF22A	D V S V S G I V V T H G T D S M A D T A L A L D L V H S D P R P V V L T T G A Q V			
UniRef90_V4YI21	A G A D G V V M H G T D T M Q F T A A A L A F M L D T P V P I V F T T G S Q R			
UniRef90_K1Y3X4	R Y D D G F V T H G T D T M A Y T G A A L T Y L L Q G N K P V I V L T T G S Q Y			
UniRef90_U7PVV1	Y H L F D G F V V L H G T D S L A Y T A S A L S F M M D L G K P V I L T T G S Q A			
UniRef90_B3M1D2	C S Y D G F V I L H G T D T L A Y T A S A L A F M L N L N K P V V V T T G A Q I			
UniRef90_D2B0W2	D R G F D G V V I T H G T D T L E D C A F L S F L L A G R A A I V L T T G A M R			
UniRef90_UPI000370548C	Y G D Y D G F V V I H G T D T L A F T A S A L S F A L R G R K P V I I T T G S Q L			
UniRef90_UPI00031B5F16	D P S V D A V I V T H G T D T A E E T G F L L D L T L P T A K P V I V L T T G A M R			
UniRef90_J9SLK9	D P A V R G V V T H G T D T M E E T A F L A D L Y A A D E R K P V V F T T G A M L			
UniRef90_B8M9H2	Y T L F D A F V V L H G T D S L A Y T C S A L S F M L N L G K P V I L T T G S Q A			
UniRef90_J2PDD0	S R D V D G V I I A H G T D T L E E T A C C L D L L L R T D T P I V L T T G A M R			
UniRef90_F7MGD2	K Y L G F V I L H G T D T M A Y T G S M L S F L L N L A K P V I V L T T G S Q A			
UniRef90_K6ZNB0	Y Q Q Y D G F I L H G T D T M A Y T A S A L S F M L D L G K P V I V V T T G A Q I			
UniRef90_UPI0003742271	D P T Y A G F V V L H G T D T L A W T A A S L A Y Q L Q G D R P V I V T T G A Q L			
UniRef90_W4FLD4	D Y D G F V V L Q G T D T M A Y T A S A L S F M L E L G K P V V I S G A M I			
UniRef90_D2QEK2	Y D E Y D S F V I L H G T D T M S Y T A S A L S F M L G L N K P V I L T T G A Q L			
UniRef90_A0A023B1C2	K Y D G F V V L H G T D T L S F T A C A L S F M L N L S K T V V V T T G A M L			
UniRef90_UPI0004766C52	D P E V T G V V T H G T D S M E E T A I A V D T F H D D P R P V I F T T G A Q R			
UniRef90_R9IW95	K Y D G F V I A H G T D T M A Y T A A A L S Y M V N S K K P I V I V T T G A Q K			
UniRef90_A1C543	Y T L F D A F V V L H G T D S L A Y T C S A L S F M L N L G K T V V V L T T G A Q A			
UniRef90_UPI00047A7EC6	D P D V T G V V T H G T D S M Q E T A L A V D T F H S D H R P V V F T T G S Q K			
UniRef90_M1VXD4	Y H L F D G F V I L H G T D S L A Y T A S A L S F M T N L G K P V I L T T G S Q A			
UniRef90_U4LQM6	Y Q L F D S F V I L H G T D S L A Y T S S A L S F M I N L G K P V I L T T G S Q A			
UniRef90_S7QDQ3	Y N T F D A F V V L H G T D T M S Y T S S A L S F L L D L G K T V I L T T G A Q I			
UniRef90_A0A024M6B2	D G A S G V V I T H G T D T M E D T A M W L D V T Y N G P A P I V L T T G A Q R			
UniRef90_B4MTW8	R S D Y H G F V I L Q G T D T L A Y T A S A L S F M F N L N K P V I I T T G S Q K			
UniRef90_D8KNL2	E P N V I G V V T H G T D S M E E T A I A L D T F H T S P S P V V L T T G A Q L			
UniRef90_L0K5E1	R E G V D G I L V T H G T D A I E E N A F F Q D L V L D L D I P V V F V T T G A M R			
UniRef90_D5NVZ9	D D S T D G V V L T H G T D T L E E T A Y L L D L V H A S E K P V I V V T T G A Q R			
UniRef90_E1VC62	Y P A H D G V V I L H G T D T L A W T A S S L A Y Q L Q G D R P V I L T T G A M E			
UniRef90_A3XHT0	R C D G F V I L H G S D T M S Y T A S A L S F M L N L S K P V I F T T G S Q L			
UniRef90_L11830	Y L T Y D G F V V M G T D T L A Y T G S A L S F M L N L G K T V I L T T G A Q I			
UniRef90_W9CE44	Y H L F D G F V V L H G T D S L A Y T S S A L S F M L H L G K P V I L T T G S Q A			
UniRef90_UPI0003703048	A A G A E G V V T Q G T D T L E Y T A F F L D L T V R A D A P V V V T T G A M R			
UniRef90_U5BMK2	Y D S Y D G Y V V L H G T D T M A Y S A S M M S F M L G L S K P V I F T T G A Q L			
UniRef90_U3GYR2	D P S V T G I V V T H G T D S M E E T A V A V D C F H N D S R P V I F T T G A Q K			
UniRef90_E8UG43	H G A Q G V V L V Q G T D T L E E T S Y L L D L Y W P Y A A P V L T T G A M R			
UniRef90_M5DQ19	N Y N G F I V L H G T D T M A Y T A S A L S F L L Q I D K P V I L T T G S Q I			
UniRef90_Q9VH61	Y K S Y D G F V I L H G T D T L A Y T A S A L A F M L E L N K P V V F T T G A Q I			
UniRef90_W1RQT3	D F D A F I V L H G T D T M A Y T A C A L T Y M F N S D K P I I V T T G S Q V			
UniRef90_B6V679	E G L D G V V I T H G T D T M E E T A Y F L N L T I K S D K P V V L V T T G A M R			
UniRef90_G9WHV5	P D F D A Y L I T H G T D T M A Y T A A A L S Y L L D F E K P V I I T T G S Q I			
UniRef90_V5GK86	Y Q A F D A F I V L H G T D T M A Y T A S A L S M L L N L G K S V I V T T G A Q V			
UniRef90_UPI00034DB8BE	A A G A V G V V L T Q G T D T L E E T A F L L D L F W T L P A P L V L T T G A M R			

UniRef90_UPI000371BD6A
UniRef90_Q091E1
UniRef90_W0HH45
UniRef90_UPI00035E8F34
UniRef90_E8U3Y0
UniRef90_I3RBY6
UniRef90_Q17H26
UniRef90_UPI000465F178
UniRef90_Q6LP01
UniRef90_UPI000478DB32
UniRef90_UPI0004718B75
UniRef90_M2Q4N9
UniRef90_UPI0004679F3D
UniRef90_UPI0002898D15
UniRef90_B0UEM2
UniRef90_F3BD12
UniRef90_M7NGF2
UniRef90_H5X126
UniRef90_G4VJ31
UniRef90_G3JCW4
UniRef90_V8R0V4
UniRef90_UPI00037E3716
UniRef90_UPI000371DBFD
UniRef90_S0AY56
UniRef90_UPI00036CA43D
UniRef90_W770A2
UniRef90_S8C8A9
UniRef90_A3YI56
UniRef90_F2JY71
UniRef90_E6YG42
UniRef90_UPI0003B309A9
UniRef90_UPI000343F754
UniRef90_A9W149
UniRef90_V5SJ31
UniRef90_G0RV10
UniRef90_C1CYE1
UniRef90_B9CY17
UniRef90_UPI00034FEEB2
UniRef90_B0S0X5
UniRef90_UPI000392D0ED
UniRef90_A0A017SPP6
UniRef90_V5IM34
UniRef90_C5LBH1
UniRef90_Q86U10
UniRef90_H0IYP7
UniRef90_D5TZY9
UniRef90_UPI000370CB3A
UniRef90_T0VJ08
UniRef90_UPI00037AF22A
UniRef90_V4YI21
UniRef90_K1Y3X4
UniRef90_U7PVV1
UniRef90_B3M1D2
UniRef90_D2B0W2
UniRef90_UPI000370548C
UniRef90_UPI00031B5F16
UniRef90_J9SLK9
UniRef90_B8M9H2
UniRef90_J2PDD0
UniRef90_F7MGD2
UniRef90_K6ZNB0
UniRef90_UPI0003742271
UniRef90_W4FLD4
UniRef90_D2QEK2
UniRef90_A0A023B1C2
UniRef90_UPI0004766C52
UniRef90_R9IW95
UniRef90_A1C543
UniRef90_UPI00047A7EC6
UniRef90_M1VXD4
UniRef90_U4LQM6
UniRef90_S7QDQ3
UniRef90_A0A024M6B2
UniRef90_B4MTW8
UniRef90_D8KNL2
UniRef90_L0K5E1
UniRef90_D5NVZ9
UniRef90_E1VC62
UniRef90_A3XHT0
UniRef90_L11830
UniRef90_W9CE44
UniRef90_UPI0003703048
UniRef90_U5BMK2
UniRef90_U3GYR2
UniRef90_E8UG43
UniRef90_M5DQ19
UniRef90_Q9VH61
UniRef90_W1RQT3
UniRef90_B6V679
UniRef90_G9WHV5
UniRef90_V5GK86
UniRef90_UPI00034DB8BE

130 140 150 160
T P D S L G A D G E F N L R D A I Q V A G S P Q S A E L G V V I C F A G E I H P
P L G E I R T D A W E N L L D S V L S A L H G P Q S A E L G V V I C F A G E I H P
P A G V E E G D S T D A W E N L L D S V L S A L H G P Q S A E L G V V I C F A G E I H P
A P H V E E G D S T D A W E N L L D S V L S A L H G P Q S A E L G V V I C F A G E I H P
H A E E L S W D G P G N L L D A A Q V A L H P A T Q G R G P L A V F F G G D V L F D
P M T E E N S D A P L N L F T A L L K F I E T G I R G E V I V A F F N S G R K R L M L
P I F E T R T D G K D N F T S A L I M A G N Y V I P E V V C V V F F N S G R K R L M L
S A D A V D A D G P A N L R D A L A V A R D Y P R W R D R G E V L V S F A N S G S V L F E R
P L A E L R S D A Q S N L L N S L H I A A N S P D I N K E V T L V F F N D E Q I I R S
S S N E I G S D A L Y N L L I S S I R V A L S P D A Y S K E G V L V V M N D E I H S
P T D E E N T D A R N N L L D S F I Y A A D E G S R D V N I V F D G K V I V
S I A D P V A D A L E N I R S Y S F L Y M A A S G Y P G I F V A F F N G R K Q I M L
P I T Q P N T D A I D N I R S S F L Y M A A S G Y P G I F V A F F N G R K Q I M L
P V G D I R T D A L E N V L T A I Q I A L L Q E P S V S E G V V Y F D S G Q L F R A
P I N S G L S S D A P L N L V N A I R T A A S P Q S R G R G V L V V L N D G K V I V
P I N S M D V T D A K T N L L D S F I Y A A D D E S Q D V N I V F D G K V I V
P L G A V R T D A R E N L L A A L E I A S A K N T H R G P E V C I Y F N Y R I L R
P W N V L G S D A P A N L L Y G A V S L A A S A R T T G F G T V V L F F N D E I V A
P V I F E F R S D G W N N F L N G A L M I A G S A R T T G F G T V V L F F N D E I V A
P I F A L Q S D A V G N L L G S A L M I A G T F V I P E V C V L F F H N R L Y R R
S A M Q A G A D G P A N L L D A G R V A L A T C S H G R G G A Q V V I N G E I H R
P T G L G T S D V N L I D C I R V A A A P Q S A G R G V L T L L N N Q I Q A
N A S D R D S D G A R N L L N A V R Q I L T P A T A S L G V T V T L N H A I N A
P I G E P Y T D A K N N L L D A L K I A A H V I N I P E V V M V F F N G S L L M R
P I G V A R S D A K R E N F I T A L E I A A A T E A D V P E V C V V F F N G S L L M R
N P S L A G A D G P A N L L A A V Q V A A S E Q A D G L G C V V V F A D Q V L H A
P M T E L Q N D A T D N L L G S L L I A G L H F G M I P E V V C L F F N G H E L Y R
P M F K S R N D A L D N V Y G A L D A L L E G P N G V F L F F G G K L I E
P L G M K R S D G L A N L E A A M S V A E T P S S L G R V T V L F H H Y L M E S
I P C E A S A D G P A N L L A A T R V A A D P Q S R N R R G V L V V M N D E I H A
A A Q V A G A D G P A N L L A A S V H T A A S P A S R G R G V L V V M N D E I H A
P I H A L W N D G R E N L L G A L L M A G A Q Y V I P E V C L F F Q N Q I F R
G P E S A G A D G P G N L L A A T I V A G S A P A R G M G V L A V L N D E I H A
P I F E T R T D G K D N F T S A L I M A G N Y V I P E V C V L F F N G K L M R
P I F A L Q S D A V D N L L G S L I L A G T F V I P E V C V L F F R D T L Y R
H A E A A S W D G P G N L L D A A Q V A L H P A T A G R G P L V V F G G D V I F D
N A D D I S A D G A G N I Y A A T I V A L E P E S R N R G V L V V L N D T I H S
P I F E P R S D G V D N F V S S L I V A G G L N I P E V T V F F G S K L Y R
S I S N D T D A K N N L L D A L L F A S K E K S H G V N I V F F N G K V I C
P I Y E L R N D G R A N L L I G S L L I F A G K F V I P E V C L Y F F N K L Y R
P M L E L Q N D A T E N L L G S L L V V A G H F M I P E V C L Y F F N N R L Y R
S I F A L Q S D A V D N L L G S L I I A G T F V I P E V C L Y F F F G T L Y R
P F D E P H S D A R R N I I V S L L A G L Y N V I P E V S I F F G T H L L R
P I H A L W S D G R E N L L G A L L M A G Q Y V I P E V C L F F Q N Q I F R
P L E A P N S D A L D N L L Y G A F R F A V Q Q P A L Q E V A L V F A N R L L R
S S D R P S S D F F N L Y S A V L T A F K A S F A E S V I V M H G D S D S R
P V A R T R S D G R Q N L I G A L Q V A A R S D V P E S T L L F G E V L L R
S S N E V G S D G L Y N F E S A I R V A K C D D A Q K K G V L V V M N D E I H S
P S D H P R A D G P A N L L H A I T L A A D P P L S R G Q G V M V S F G G D T L A
S A D R P S S D N V M N A V C A V E A A K A D A A E V L V C M H A G P N D D H R
S M A D S K T D A I Q N D S L L L A G E E I A G V F I V F D G K V I N
S I F A L Q S D A V D N L L G S L I I A G T F V V P E V C L F F H H T L F R
Y L D D L S S D A V P R N L A S S I T A A A D H A L R G A G A V V C L N D E I H A
P L G E A D S D A Y P N L F G A L M I A A E Q A A I H E V C V Y F N G A L L R
P A D A V G A D G M R N F A N A V K V A S D P A A A G R G V M L V M G D A V L A
P S D S P A A D G P S N L T A A L A A D D P A A R G R G V L V A M G G R L L P
P M L E L Q N D A S D N L L G S L V V A G H F M I P E V C L Y F N Y K L F R
T F G A E G A D G A N L R A A C R V A A S P S A R G L G V L A V L A D E I H A
P M V N P R S D G L Q N L L N S I Y I A G H D I P L I P E V C L F F R D S L L R
P L A Q L R S D G Q V N L L N A I Y I A A N Y P I A E V T L F F N N Q L F R
P L E A E G S D A L N N V E T A L R F A A L P S L A Q E V A V C F A G K L M R
P I H F P H S D A R R N I T M S V L C A A S L E D I P E V C L Y S N D S L L R
P I G V A R S D A R E N F I T A L E I A A A V D P L V P E V C L Y F N S L L R
P V S H I N T D A K R N V A V S L L V A G Y S G A C E E V L V C F G T R I L R
S F D H P E S D G L S N L F E S I V Y A A M D A S A R G G V L V V F G H A V I P
S I D L E I T D A K T N L L D S F V Y A A D G S S Q G V O I V F G G K V I A
P M L E L Q N D A T D N L L G S L V V A G H F M I P E V C L Y F N N K L F R
P F D H P E S D G L T N L F E S I I I A S D N S A K N L G V L I V F C H H A V I P
P I F S L Q S D A V D N L L G S L I I A G T F V I P E V C L F F H H K L Y R
P M T E L H S D A E G N L L G S L I I A G H Y M I P E V C L F F N H K L F R
P L S Q L R N D A V D N L L G A L V I A G N Y I P E V C C L Y F N H T L F R
S S D A P D A D G P T N L R N A L T V A S S P A A R D Q G V L I A F A G D V L F Q
P I F E T R S D G K E N F I S S L I I A A L Y S P T E V C V V F G D K L L R
P F D H P E S D G Q N N L F E A I M V A C F D T S A R D P S G V L V V F G H A V I P
P A D A I S A D G P A N L L S A V R L C F H L T D E P S G V Y M V M N D T I H A
T P D S V G Q D G A L N L Q D A I A I A G S T E S Q G R G V L I S F A G E I H P
P L E R T G S D A L G N I E A A M R F A T D A R L Q E V A L C F A G R L Y R
P I G D L R T D A K E N L I T A I Q I A K N K R S Y I Q N E V G L Y F A Y K L Y R
P L N Q P F S D A K R N L I T S I Q I A A S L E V P E V C L F F D N K L F R
S I F A L Q S D A V D N L L G S L I I A G T F M I P E V C L F F H H N L F R
P A S P G A D G P A N L L G A V R L A A S P S A R G L G T L V L F S D E V H A
P I S A M R S D A R E N L M T A L E I A T A K K P I V P E V C I F F N H K L L R
S F D H P E A D G P G N L F E A I C V A A D D S A R G L G T L V V F G H A V I P
H P E L A G A D G A N L L A A I K V A V D I K S A R G H G V F V M N D A V H Q
P L N T V R T D A L N N L L N S L F L A V N S A L K E V C I C F D G R L L R
P I F E A R S D G R E N F L G A L L I A G N Y S I P E V L V F F A G N K L L R
P I Y K T R T D A M N N L L G A I S A C E E G V N G V L F F A G R L I E
P S T A I S A D G S K N L Y N A V A L V A N K E A K N K G V M V A I N D K I L S
P L T F E H T D A K N N I N D A L L A A R T I D F P E V V V F D G R V I A
P L S E L R N D A E N V L G A L L M A G S Y I I P E V G L Y F A S T L Y R
A P Q A A G A D G P A N L L A A V R V A V H P E S V I E R G V L V V M N D T A H Y

UniRef90_UPI000371BD6A A A R T K K L H T I A P S P F G G 170 180 190 200
UniRef90_Q091E1 G N R T R K V K V S E Y D A F E S P N F P V L G T L G V E T T F E P G L R A R G
UniRef90_W0HHA5 P T R C A K V I R S T Y F Q V H Q P F A D S P L Q G R S R G G
UniRef90_UPI00035E8F34 A R T H V R K K I S T Y Q R V G P F D A S G Y P G P L I G Y V D G S R V H L A Q A V R R
UniRef90_E8U3Y0 A R T V T K V H T T A V D A F D G S Y P G P L I G R I D H G P H G A E L R Y F A R
UniRef90_I3RBY6 G V R T S K V R S T M S F D A F E S P N Y A P T I A K L S S G K L E V L H V
UniRef90_Q17H26 G N R T I K V R S S G S L D A F E S P N A A P L A K M G I N V E V D Y R L I F R P
UniRef90_UPI000465F178 P L G V H K V A T T D L Q A F A G H S A D P G
UniRef90_Q6LP01 G N R S T K A T A D G F G A F I S P N M G P L L E A G I N I K L N N I E L D K K
UniRef90_UPI000478DB32 A I N V T K T S T S N I A T F Q S P N Q Y G P L I G I I T K E S I I F H H Q L V T R
UniRef90_UPI0004718B75 G T R A K K E R A K S Y N A F S S I N F P Y P A V I R E Q E V I R Y I P P L E Y
UniRef90_M2Q4N9 G C R V S K V R S L S F D A F E S I N Y P D V A S I S A L G L K I N E S A L I P
UniRef90_UPI0004679F3D G P R S Q K I L S H D Y T A F T S I N Y P H L G H I E K G E A I L T H R P S L
UniRef90_UPI0002898D15 G N R S T K V S S D R F K A F M S P N F P A L G V T S G V S L K I N E P M L L
UniRef90_B0UEM2 A R E V T K T S V A R A L Q N A F R T A D F G L G Q V D G P S V T Y Y R R A E R R
UniRef90_F3BD12 G T R A K K V R A R S Y N A F E S I N F P Y V A V I G D G N I I R Y I P T I P H
UniRef90_M7NGF2 G N R A K K V Q S I L F D A F E S N N Y P L L A E A G V I E I Q Y K Q E A I L T P
UniRef90_H5X126 A R E V T K T S T L R L H A F Q A R D H G R L G T V D G E H I R L P R A P A R R
UniRef90_G4VJ31 G S R V V K C S S N N F D A F E S P N Y P A I A E L G T E I T I N Y D L I F R T
UniRef90_G3JCW4 G N R T T K V S A S F Q A F D S P N F E P L A Q V N G L G V S V N W N L A Q R
UniRef90_V8R0V4 A S S V R K V D S M A M Q A F A S P L T G P A G L L V E G A P R Y F Q P P V A R
UniRef90_UPI00037E3716 A R D V T K T N S Y M L E T F Q A A D F G F L G Y A D S D E V V F Y R H P D R T
UniRef90_UPI000371DBFD A R D V R K T H T H N V E T F H S G E T G Y L G S I D E D R V V I R R A P L R R
UniRef90_S0AY56 G N R V T K T S A S L R G F S S V N Y P L L A K L D L R F E L N H P L V L E Q
UniRef90_UPI00036CA43D G N R S T K R E S V Q F N A F T S E N Y P H L A N A G V S I D Y N R P F I R
UniRef90_W7T0A2 A R Y V S K A H S A S I A A F V I S P N T G P I G Y V V E G K F R L L N R P
UniRef90_S8C8A9 G N R A T K V N A T A F A F A F Q S P N C P P L A T V G I N T T A R W D L I T R P
UniRef90_A3YI56 G A R A H K A N T S A L Q A F S S P N A L L R G E L G I E W N W R K M
UniRef90_F2JY71 G T R T T K F S S H K F D A F K S F N T T P L A E L S I T Q A L P K R A L S A L
UniRef90_E6YG42 P Y W V Q K S H T V K V E T L Q S G L A G L G T I L E G K L F Y F G D R N F V
UniRef90_UPI0003B309A9 A S R V R K V R S S G T N L A T P S F G L G Y I E S I P V F G G E I D R A
UniRef90_UPI000343F754 G N R V T K V D S R R F A A F C S P H L P P L A V M G T D V T I N R E L V R K A
UniRef90_A9W149 A R L V Q K A H T A L P S A F R T P L A G P V G L V I E G E T R I F L R A R R S
UniRef90_V5SJ31 G N R T T K V S A E K L D A F D T P N Y Q L A K I G I T M Q I D Y R L I F R P
UniRef90_G0RV10 G N R T T K V S A S F D A F A S P N C E P L A K V N G L G I N V N W H L V L R
UniRef90_C1CYE1 A R T V T K V S N T A V D A F G G Y P G P L I G R I D R V G E T P Q V R F F
UniRef90_B9CY17 A K W A H K S N T F S L Q T F V I N A G V Q G L V E G R A K Y L S
UniRef90_UPI00034FEEB2 G N R T R K V S A T H L H A F D S P N C V P I V E V G L E M E V N K A A I F K P
UniRef90_B0S0X5 G N R A R K V R T K S F D A F D S I N Y P L I A L I H D G K V L R Y I D D K S D
UniRef90_UPI000392D0ED G N R V T K V D A G S F N A F S S P N L P P L A N A E V D I T I N W E T V W R R
UniRef90_A0A017SPP6 G N R C I K V A A S D F A A F E S P N Y A P L A V T N S T R T N V N W E I V R R
UniRef90_V5IM34 G N R T T K V S A S S F E A F D S P N C D P L A K V T S L G V D V N W A L I R R
UniRef90_C5LBH1 G S R S V K V D S G A I E A F D S P K F P L A T M N V G V N F L D T S L V A P
UniRef90_Q86U10 G N R A T K V D A R R F A A F C S P N L L P L A T V G A D I T I N R E L V R K V
UniRef90_H0IYP7 G V R S I K K H S N R A V D A F S S P N Y P L I G E R V G D D F L H Y P S C Q Q R
UniRef90_D5TZY9 G V K A R K M H T S R R D A F P P I N D K P I A L V Y P Y S R E I R I V G R V F
UniRef90_UPI000370CB3A G N R A T K V D A S G L D A F D S P R F P A L A A I G I D I D V R T S L V R P A
UniRef90_T0VJ08 A R Y V T K T H T T N V A T F R T P T L G P I G L V T K N R I L F M
UniRef90_UPI00037AF22A A R G A F K D D T S A S R A F S L S A P M
UniRef90_V4YI21 G T R V R K N H T S R R D A F E T V G A T P L G H I E Y E A A S A A G A D G S V
UniRef90_K1Y3X4 G T R A I T K I K T R S Y D A F E S V N Y P L V A E I K H N R I E Y S R A I K P R
UniRef90_U7PVV1 G N R T T K V S A S F E A F A S P N A A P L A R V T S L G V D V A W S L V R R
UniRef90_B3M1D2 G C R T T K V N S D S F H A L D S P N L P P L G K M N V K V E I N S R Q I F R P
UniRef90_D2B0W2 A R W V T M T D A T S V A A F S S A P F P V L G R V V G G R V E T L A E P
UniRef90_UPI000370548C G N R C S K L S N Q A L A A F D T P N Y P T L G Q S I E P Q R Y I N F Q L N R R
UniRef90_UPI00031B5F16 V R D A R K S A T S A I D A F R T F P R G P L A R V T P S S L D W F G P A H R V
UniRef90_J9SLK9 A C G L F K V S T T D L A A F D T V W G V D R A D G P P V P R R V L T G
UniRef90_B8M9H2 G N R T T K V A S D F A A F D S P N A P P L A V T T S M R T Q V N W D L V H R
UniRef90_J2PDD0 A M L V R K A H T S S L N A F T S Q P F G P L G S V E D R V H L L R P A R
UniRef90_F7MGD2 A N R S K T D S N N Y G F S S P N Y N P L A E I A T E I K V I K D R I L N K
UniRef90_K6ZNB0 G N R S R K L D A D G F N A F D S P N F P L L K A G I N I E V N K K L L G I D
UniRef90_UPI0003742271 G V C T R K W D T H R F D G F A S P N Y P L L G E M V D C A P V L Y E V I Q Q R G
UniRef90_W4FLD4 G N R T T K T F N M A V D A F H S P N H P V L A L T G V I E T I L H G L I L P Y
UniRef90_D2QEK2 G N R S T K Q E S V Q F N A F I S E N Y P H L A T A G V S I D Y N R L I F I R
UniRef90_A0A023B1C2 G N R V V K M N C N I M D A F D T P N C S H L G Q I G I D I T L D H N Y L R P Q
UniRef90_UPI0004766C52 A R G A T K W H T S D N L A F A T N G P E
UniRef90_R9IW95 G T R A K K I R S K S Y N A F D S I D F P F L A M I Q D T R I M R Y I P A V P Y
UniRef90_A1C543 G N R S T K V A A S D F A A F D S P N C A P L A V T T S M R T S V N W E L V N R
UniRef90_UPI00047A7EC6 V R G C V K W H T T D E L A F A T N G P E
UniRef90_M1VXD4 G N R T T K V S A A F E A F A S P N L A P L A I V N G L G I T V N W N L V L R
UniRef90_U4LQM6 G N R A T K V N A H D F A A F A S P N H P P L A K V G I T S T A V N W S M V H R P
UniRef90_S7QDQ3 G N R V S K V S S Y D F N A F H S P N F P A L V N V G L D T V V N W N D V I R Q
UniRef90_A0A024M6B2 A L G T H K V N T Q D L K A F G G T E P I G S V A E D T F T L D H
UniRef90_B4MTW8 G N R T V K V N C D S F A S F D S P N F P P L G S I G V I Q I K V D P T R A I
UniRef90_D8KNL2 A R G C M K W H T S D P L A F A T N G P E
UniRef90_L0K5E1 A R D V R K S H T S V V D T F E S G P A G P I G I L T D S E I V L Y R E P G S Y
UniRef90_D5NVZ9 A R G T T K Q H T T N P S P F A G A G P I G Y V S I S S T K H V H F H A F P
UniRef90_E1VC62 G V R S R K W Q A R H A D A F T S P N H P P L G E F V D D D A V L F R G L E R H
UniRef90_A3XHT0 G N R S S K I S A E H F E A F K S P N Y P L A T S G V H L T I E D D K L F P T
UniRef90_L11830 A N R C R K G D S G S L R A F V I S P N F P P L A T L G I S L H L K H N L V L P I
UniRef90_W9CE44 G N R T T K V S A T S F D A F A S P N C E A L A K V T A L G A T V N W N L V R R
UniRef90_UPI0003703048 A R L V R K T H T A S T G A F E S P G F G P L G L L V E Q E P R L L T T
UniRef90_U5BMK2 G N R S K K V Q S I H F D A F E S E N Y P P L A E A G I I I D Y N Y A A I R P Y
UniRef90_U3GYR2 A R G C V K W H T S D E L A F A T N G P E
UniRef90_E8UG43 A R Y V A K T H A N A V D A F E S P Q T G P V G V V T E N S L H I R R S P N E R
UniRef90_M5DQ19 G N R S T K V N S A S L D A F D S P N L L W L G E A G V N T Q L N N R I L L P A
UniRef90_Q9VH61 G C R S T K L N S D S F H A L D S P N F A P L G R A S V N L E L N S R Q I F R P
UniRef90_W1RQT3 G D R A H K A H T S D W Q A F N S P N H P E Y G L G I D W R W R E S A Q P K L
UniRef90_B6V679 A R G V V K T H S L N V D A F
UniRef90_G9WHV5 G T R A V K V K S K S F D A F D S I N F P P L I A Q V I E N Q Q F K I L Y R P S F N
UniRef90_V5GK86 G N R T S K V S N N A V A F D S P N M A P L A R V G I N I E V A W N L V E R S
UniRef90_UPI00034DB8BE A R W V I S K G D S L A V Q A F V I S R D G G V A A R L V E G G P A F F H A

UniRef90_UPI000371BD6A P A L P L P G V K F D D T R I D V V 210 220 230 240
UniRef90_Q091E1 A P R L L F D R L D P R V V F L L K V F P G L D P A L P L A L L P H I
UniRef90_W0HHA5 S S L P E A L D Y R Q P K E T L A N Q V A A I L P L F P G L D A A Q I D D G L I D S G L
UniRef90_UPI00035E8F34 P E T R P V F G P D T I T A R V E I L Y A Y A G W Q G E G F A E A A A R A
UniRef90_E8U3Y0 P E V S K G E V R L D T R Y E P K V L V L K L F P S L S M T T V K A F I E Q P P M
UniRef90_I3RBY6 C T V E K F G N V H V H M D E N V G L L R V F P S I S M T T V K A F I E Q P P M
UniRef90_Q17H26 K A R P Q L G M I S A A E A P R V D I V A A Y P G A D T A A L D A C V A A G A
UniRef90_UPI000465F178 P E G D F K V N A L T P Q P G V I T M Y P G I S P E V I R N T L R Q P V
UniRef90_Q6LP01 T T Y P V E N I S K R V I F L L K A Y A G M D S K L F E L I H V G N P
UniRef90_UPI000478DB32 H G G V K F Y H E M E D S I Y V L K L I P G I D P E I L D C L F G R Y
UniRef90_UPI000479F3D K R K G I F Q L K T D Y S N Q V A I I K M F P G I Q E K E L E M F Y H E G Y
UniRef90_UPI0002898D15 T P L F H K E Y E T F E L E T S N Q V A I I K M F P G I Q E K E L E M F Y H E G Y
UniRef90_B0UEM2 K P N L N R V T K F S E A L N D K V L L V K I H P G I T T K M F E Q C A S V D F
UniRef90_UPI000371DBFD H A P G T Q F D I R A L P A L P R V I D A Y A Y A D A D G T A V S A F V A A G A
UniRef90_UPI00036CA43D K S R V R F Y H E M K N S I Y V L K L I P G M K A D L L S R A Y L V G N P
UniRef90_W7T0A2 D Y A K P L S Y S C C F D N R V A L L K L F P G M E P R Y V E H L L E L P L
UniRef90_S8C8A9 W R T P F D V R E L A G D R L P V V E I V L S Y V E A G A T V D G P L D A G A
UniRef90_A3YI56 P G L P K P F C I H T N L C Q D V A L L N I F P L I S K E H I I S M L A P G P I
UniRef90_F2JY71 A T S I A P F S I S K R L D T T H V A C L R V F P G I K P E M V D A V L H L P I
UniRef90_E6YG42 H V L P M P Q D H V L P K I A L L E A S L G A D S M L L D K M V E S G Y
UniRef90_UPI0003B309A9 H T V D S E F D V E G L D R L P R V I A P A Y A G A D G L V I K A L A Q A G V
UniRef90_UPI000343F754 Q T L P L P D R L A R I A I V A M Y A G A D G S Q V H H A V E S G A
UniRef90_A9W149 P K G E M K Y H R N M S K N V A V V T L Y P G I T G N I K A I A N S G V
UniRef90_V5SJ31 P Y Q P N Q S L K I H K T L D P S N V T I L K L F P G I T G N I K A I A N S G V
UniRef90_G0RV10 A D V L K V Y V P Q G A P E P T I G L V T V T L G D D G T V L R A I G E A V
UniRef90_C1CYE1 N A L E R F S V E E N L D A H V A C L R I F P G I L P E M V E G V L N G K N L
UniRef90_B9CY17 H T K K G E L I Q I P K M Q N D A V T L V L P P G L Q A Q L E S L L E G V V
UniRef90_UPI00034FEEB2 V P P K I R D I E F K T E A V G I L T L H P G L P S Y S Q G F L D D Q C
UniRef90_B0S0X5 P T I F T V P Q K I D H Q V A L L Y S Y L S S D T N L M R F C L E S G Y
UniRef90_UPI000392D0ED G A L A A P V P E S P A R V A L L E T Y L G D S G E L D L V V E G G Y
UniRef90_A0A017SPP6 R G K A R L V V H S S M E R D V G L L R L Y P G I P A A L L V R A F L Q P P L
UniRef90_C5LBH1 L T L T G F L T D E P A N V G L L K M G I G D D G R L L A A L P D L G F
UniRef90_Q86U10 C S V A K F S V Y G K L N E N V A G L L R L F P S I A T T I R A F L Q P P M
UniRef90_H0IYP7 P T T I A G F H V F K H L D T T H V A C L R V F P G I K P E M V D A V L H L P L
UniRef90_UPI000370CB3A A S P E P R Q S F T P V Q L G A R V D I L Y A Y A G W T G E G Y A E A A R A
UniRef90_T0VJ08 C A V S R K I Y P L P A K A F P K V A V V Q S Y L D N D G Q I I A L V G K S E F
UniRef90_UPI00037AF22A N T I E K F H V H A R M S K N V G L L R I F P S I S I A V V K A F C Q P P I
UniRef90_V4YI21 N E V E F Y D H L D D S V Y L L K L F P S M R S D I L L E D I F E K Y
UniRef90_K1Y3X4 N T R K K F Q V H T N M N R N V G L L R I F P G I T T A E V K A F L Q P P T
UniRef90_U7PVV1 P R G I G A F G I R T D L D T R H V A C L R I F P G I Q P E M V D A V L R E G L
UniRef90_B3M1D2 P T Q I A E F Q V E T K Y L D T A H V A C L R I F P G I K P E M I E S V L K V P L
UniRef90_D2B0W2 T G P L E V Q K M E G S V L L V L R M S P G F A S L E S L D L N D V
UniRef90_UPI000370548C D G K A G L V V H S S M E Q D V G L L R L Y P G I P A A L V R A F L Q P P L
UniRef90_UPI00031B5F16 G A P R F E L A D Y L A V A Q D D K V A R V V L W P G I S A W Q L E S I L D S R K L
UniRef90_J9SLK9 E K R D P R E A S L R N A F Q D G E V A I V K A Y P G L Q E E I I A N V C R P P L
UniRef90_B8M9H2 D G E P E L R A G R L G E V A A V R L F P G F S A S I L A N V C R P P L
UniRef90_J2PDD0 Q E L L E S R Q L D V D R V D G L I P I V R A Y A G M G S E L F E A L A E S N I
UniRef90_F7MGD2 T L P R P R P V S P A P L A D V C V P I V R A W P G A G S E L I D A V A S L G P
UniRef90_K6ZNB0 A T D A I A F S R E A T A L E T E V E R I T F T P G M D P A A W D Y L E G K
UniRef90_UPI0003742271 A G G G S E R P V P V P A L L E R L V L K L F P G L H P K I F E S Y I R D N F
UniRef90_W4FLD4 P T R I A E F R I K T Y L D T A H V A C F R I F P G I V P E M L D S V L R V N L
UniRef90_D2QEK2 C T V N R F S L F S D F E P N V A M I R I Y P G I T A S N L K E S L K E P I
UniRef90_UPI0004766C52 P S R P P A A A G E P E T D V A L I K T Y P G M D P V L L T A V V D A G A
UniRef90_R9IW95 P K S A Q E L F E I V T P S S K E V I L R L H P G F S V A Q L K R F V A P V
UniRef90_A1C543 G E A A R Y P F P A E L P R V A I L T A G A G M D A K P V E A L L G I G A
UniRef90_UPI00047A7EC6 P V P P G R A A R V D A F T L Y P G V S P G L I A A S V A Q N A
UniRef90_M1VXD4 P T S I E N F S I R T N L D T T N V A C L R I F P G I K P E M V D A V L Q K G L
UniRef90_U4LQM6 R S P E L R W G G A G S H V P I V H V Y S G F E A G A L A R Y A S D E V
UniRef90_S7QDQ3 P T E K F Y V E K N I D A N V L L L E P F P G L S N S K Y I S D F I E K N I
UniRef90_A0A024M6B2 T S K H L H V S Q I E S Q I L G V V T L Y P G I S N D V I K N T L Q K P V
UniRef90_B4MTW8 L P R F E L P D Y A A L G T S P I V R I A L W P G M S P R L L A N W L L D E N V
UniRef90_D8KNL2 P R R R F S A F T K L H T N I C V F H L V P G F D D D C E K H K R D Q P G A S A
UniRef90_L0K5E1 P Y Q P G Q L S L R T L D P C N I T L K L F P G I T Q P V V E S I V N I P L
UniRef90_U3GYR2 P K Q Y M T P F T N M L I N N V V V L R L T P Q F D P M I I R Q L A V T E C D P
UniRef90_UPI00047A7EC6 E E T R A E P L A M T A L A D V T V D I I A A Y P G A P R T L V D A A L E H G A
UniRef90_U33GR2 E E P V A F Y E E M N D N I F L L K L I P G I S P K G L R A L F E Q Y
UniRef90_UPI0003703048 P R S L K H F S I Q T N L D T A C V A C L R I F P G I K P E M V D A V L R E G L
UniRef90_U5BMK2 E A T R A E P L L P R P L K D T R I D I S A Y P G A P R D L I D A A I T A G T
UniRef90_U33GR2 P A T L D E F R I Q P L D T T H V A C L R V F P G I K P E M V D A V L R L P L
UniRef90_U8UG43 S K I S P F S I Q T S L E T S H V A C L R I F P G L M P E M V R G I L R L P G L
UniRef90_M5DQ19 T S L R R F K A H K A H R F H P P L P T L R L F P G I T A S T I R A F L A P P V
UniRef90_Q9VH61 P A Q R P F V A D I P A A S A P R V S V V A A Y P G D G P I D A A V A A G A
UniRef90_W1RQT3 P A D P S D C L F T K M N T N Q T I C L L R I V P E M P E K Q I L A A L E Q P V
UniRef90_B6V679 E P L R A D P V S P A K L S D V R I D I L P A F P G A P S T L V D A A L N A G S
UniRef90_G9WHV5 T A N L T C E N L D K I D K T V P I A D T G A G Y E P F I F E Q A T A G E Y
UniRef90_V5GK86 Q R S K P L S L P D E R F D T V R V D V V A S Y P G S D A T A A Q A C V D A G A
UniRef90_UPI00034DB8BE Q R G A P R F E L P D V V S G L A E V P R L V L W P G I L A A W Q L E A W L D D R V
UniRef90_UPI00034DB8BE N R K K L L V H R N L K T D L L V I H L Y P G I D E K L L T S F E N T S V G
UniRef90_UPI00034DB8BE P K G R F R V H E N M S T R M V V I K M V P T F D I D S I L R L A S A G T E T C
UniRef90_UPI00034DB8BE P R S I A K F G V Q L D L D T S H V A C L R I F P G I K P E M I D A V L R L P L
UniRef90_UPI00034DB8BE P G P R A R F P I G S R L E D V R V C V V P M A L G E D G E L Y G V D S R F
UniRef90_UPI00034DB8BE E E G R E L K Y F N G L D N R V M V I K L F P G I T S K I I D S C L N I G I
UniRef90_UPI00034DB8BE E P T R P D P A P V A L D G T R V D I V P A F A G A D R T L I D A A V A A G A
UniRef90_UPI00034DB8BE M L F P V P E D Y D A R V L L L E S T L D E S G E I Y D W I P K S S Y
UniRef90_UPI00034DB8BE G L P N F R A L T F D S Q A V A M L T L F P G I Q A N M V E Q I F N M G L
UniRef90_UPI00034DB8BE C N I K P F S L H S E L E K N V A L L R I Y P G I S A S V V Q A I L K E P T
UniRef90_UPI00034DB8BE P M T I Q I P D M D E S A V T L L P V F P G V T A T H W Q G L L N D D V
UniRef90_UPI00034DB8BE P G P L T S R T G L M T N I Y V I R A F P G L S V K F F D S F I E Q E K
UniRef90_UPI00034DB8BE R S V K S F R A H D R M S N N V A V L R L F P G L P T S T V K S F L E P P L
UniRef90_UPI00034DB8BE R Q A R P H A L T R P M R A W P K V A V A V L G D D G E L A E L A V K G G Y

UniRef90_UPI000371BD6A H G V I T L G T G A G N G N H A L T E W V A E A S A A G V V V G V S T R A F G G 250 260 270 280
UniRef90_Q091E1 R G L V L E A Y G A G N T F N P S L R P L F T E Q A R E Q Q G I P V V V V S T Q Q A Y R N G
UniRef90_W0HHA5 K G L V L E E C Y G S G T G P N P A F L A S A I T E R A A Q Q Q G I C V V V A I T S C C H Y Q G
UniRef90_UPI00035E8F34 E G L V L E E Y L G R G H V P P S W L D A I G R A A Q V G I P V V L V V V S S C C Y H Q G
UniRef90_E8U3Y0 Q G L V I E A A L G T G N L P P E L L P L I Q E T S E R E V P I V V V I A T T R T H A G D
UniRef90_I3RBY6 K G I I L E Q Y G A G N L P P Y R N S D L L S T S E R E V I P I V V M T T Q Q A V T Y D
UniRef90_Q17H26 R G V V L E Q T Y G A G N L P P Y D L E A L R D A A N R D V L I V N I T Q Q A T E G
UniRef90_UPI000465F178 R G L V L Q A L G S G N A N G A D L I D G V R G H C R D G V T V A V S T R V P E G G
UniRef90_Q6LP01 N A M I L E T F G V G N A N P D L L A Q L K E A S E R D N I P I V M N L V T Q C L S G G
UniRef90_UPI000478DB32 D G L I I E G L G Q G N L P K E T I P A I K L L K D N I P I V L V L V S R S F R G
UniRef90_UPI0004718B75 R C I V I E S F G P E Y L V D K F Y K V M R D C G K Q G K L A I V A T Q V V I E G
UniRef90_M2Q4N9 K A L Y I E E Y G L G G V P F L N H D F V K K L I D K G M T I L L G T Q C C R Y E
UniRef90_UPI0004679F3D K A I V I E A L G L G G V P H S L L P L P L K L S Q D L G I P V V I T T Q C C V Y E
UniRef90_UPI0002898D15 E V L I M E T Y G S G T I F N A N W L A L K E L Q K K G K N I I N C S Q C C V S G G
UniRef90_B0UEM2 S G L V S A G L A P G M T P F A E A D A L A A A A R A K G V L V V Q S T R A G S G
UniRef90_F3BD12 D C I V I E S F G V G G M P H E F Y E Q M S A A W K E K L V V M T T Q V A N E
UniRef90_M7NGF2 R G L I L E T Y G S G N T F P W F I R A V E G A L A A G K I I L N V S Q C L G G G
UniRef90_H5X126 D G I V M A G E P S A A Q L A S I R R A V S H R G V L V V A A S R N G S G G
UniRef90_G4VJ31 K G V V L R T Y G A G N I P Q D L D A L K E A S D R G I L M V N V T Q C C W R G
UniRef90_G3JCW4 R G L I L E T F G M G N V P G S L T Q V I K S A V Q R G V I V V N V S Q C C V N G
UniRef90_V8R0V4 D G L V L A G F G A G H V S A H W A E V I E G I A R H I P V I I A T R T G C
UniRef90_UPI00037E3716 D G L V A A G L G S
UniRef90_UPI000371DBFD E G I V V A A L G M G N V N A A L L A A I R Y C A I A Q G V V I I I A T K L E N G
UniRef90_S0AY56 K G I V V Q A F G G E N A P K D F V E G L K Y A D N K G I V V M V D T T Q C C G N G
UniRef90_UPI00036CA43D R G L V L E T F G A G N T D A W F L D V L K G T V D R G V L I F N V S Q C C E G G
UniRef90_W7T0A2 D G M V V A A F G A G H V P V A M V E P L T E L A Q R M P V I L A S R T G A G
UniRef90_S8C8A9 K G L V L E T F G A G N L P E R L I S V L G E A C R S G I I V I V N V S Q C C L T G
UniRef90_A3Y156 K G A V L L T Y G A G N A N P E F L A L L K K A S D S G C V I V N V S Q C C G A G
UniRef90_F2JY71 K G L I L Q T Y G A G N I A D H L L T F L K Q M K E Q R K T V V N V T Q C C H H G
UniRef90_E6YG42 A G L I V A F G G A G H C S F A Q E A D L V R Q Y A K K I P I I A S R S H H G
UniRef90_UPI0003B309A9 D G A V I S A F G V G H V S A A L A E T I S R A L E R I P V V F A T R T G S G
UniRef90_UPI000343F754 K G V V M E T F G S G N T K P D L L R E L Q A A A Q R G L T I L N C S H C L Q G G
UniRef90_A9W149 A G V V I E G M F G A G H V P E A L A E L V S T L A T A R G L P V V L A S R T E T G
UniRef90_V5SJ31 E G V V L Q T F G A G N I P K D L I D E L K N A T E R G V L I V N C S Q C C T G
UniRef90_G0RV10 R G L I L E T F G M G N V P G R L T E V I R S A V E R G I I V V N V S Q C C V N G
UniRef90_C1CYE1 D G L V I A A L G T G N L P S F G E L L P L I E T T I P V V I A T R T H A G
UniRef90_B9CY17 D G V V I D G F G A H V S F G M M D E I K K L K I P V V V S R T G S G
UniRef90_UPI00034FEEB2 E G M V L E C Y G A G N I P D D V L N V L A E A V K R G V T L I V I T Q C C N T G
UniRef90_B0S0X5 D C I V E S Y G V G G M P A G I S E E F L R L M D R N K I I V M T T Q V P Q E
UniRef90_UPI000392D0ED E G I V L E T Y G S G N A P E D L L E E L R K A A A R N V I V L N C T Q C C L R G
UniRef90_A0A017SPP6 R G L V L E T F G A G N A P H G M T K V L A D A I G R G I V I V N V T Q C C L T G
UniRef90_V5IM34 R G L I L E T F G M G N V D G S L T K V I K E A I D R G T V I V N V S Q C C T N G
UniRef90_C5LBH1 K G V V L L L Y G T G N A P P H F T N W L K L K E Q G I P V I A V S Q V V R G
UniRef90_Q86U10 K G V V M E T F G S G N T K P D L L Q E L R V A T E R G L V I V N C T H C L Q G G
UniRef90_H0IYP7 K G A L L Q L W G A G N I P N S D L L A L I A K A S G E K L I A A I S Q C C P Q F G
UniRef90_D5TZY9 S G I V I E G S G A G H V P N S L L D S L K R A V E N E I P V V I T S Q C C L F G
UniRef90_UPI000370CB3A Q G L V I E A Y G A G N G P S N F M A V V E A A T A A D I V V V V T Q C C V R G
UniRef90_T0VJ08 D G L V I E A A L G A G N L P S Q T L P L P L K K L L A K G I P V V L V S T S C F N G
UniRef90_UPI00037AF22A A G I V V E A L G A G N V P S G M G A A L R R V L G G T P V V I S T S V P H G
UniRef90_V4YI21 A G V V V A G T G L G H V Q T S L T P R I T Q L T E S G T T V A M T S Q C C L A G
UniRef90_K1Y3X4 K G V I I E S Y G T G G V D A T E L L D K V G E L A E A G V V V A I T T Q C C L K E
UniRef90_U7PVV1 R G L I L E T F G M G N V D G S L L T R V I R D A V A R G V I V N V S Q C C T N G
UniRef90_B3M1D2 K G A V L Q T Y G A G N F P R C L L D E L R E A I L R E V I V I V N I T Q C C S A G
UniRef90_D2B0W2 R G V V L E G T F G M A N V P T S L F T T I S E L T E W G I P V V V A S R C R T R
UniRef90_UPI000370548C A G V I L Q T F G S G N A P V T Q L E E T L H E A H Q R G V I V N I S Q C C I H
UniRef90_UPI00031B5F16 R G I V L A G M G Q G N A P R V V L E A L A A C A A S G V P V V R A S R V D E G
UniRef90_J9SLK9 A G L V L A A T G S G N T H P D L T A E V A S A I Q R G I V I V N I T Q C C L T G
UniRef90_B8M9H2 R G L I L E T F G A G N A P A M T N V L A S A I Q R G I V I V N I T Q C C L T G
UniRef90_J2PDD0 D A L V L S L P G G G H V P A D L V E A L E A V A T S K P V V F A A R T Q G G
UniRef90_F7MGD2 K A L I L K T Y G S G N T P T D F I E T L K S I S K K G I P I L D I T Q C C T S G
UniRef90_K6ZNB0 K A L I L S F G V G N A N T S L I N Q L S I A D Q Q G I I V L N C T Q C C V R G
UniRef90_UPI0003742271 H G A L L E V W G S G N I P D D L A G V F A Q A V G E G K L L A A I T S Q C C P Q G
UniRef90_W4FLD4 K A M V E A L Y G T G N A P D G F L Q V T I H A L D A N I A V C V T T Q C C L H G
UniRef90_D2QEK2 R A V V L E T F G A G N A P D T W F L D V T I K R A I D R N G V V F F N V S Q C C E G
UniRef90_A0A023B1C2 F G I I L E L F G T G T A N E R F I K A I L F A I T S G V T V V A L T Q C P S G
UniRef90_UPI0004766C52 D G L V I E A M G A G N V P G R E L A I A V G E A L D T G T P V V I T T R V P R G
UniRef90_R9IW95 D A I I V E S F G V G I P A S I S D I F Y E L H D T Y P I V V L A T Q V H E
UniRef90_A1C543 R G L V L E T F G A G N A P H G M T N V L A D A I K R G I V I V N V T Q C C L T G
UniRef90_UPI00047A7EC6 Q G L V I E G M G G N V P G K E V A L A L E E A L S G K G I P V V I T T R V P R G
UniRef90_M1VXD4 R G L I L E T F G M G N V P G L T Q A L R S A V S R G V I V V N V T Q C C V S G
UniRef90_U4LQM6 R G L I L E T F G A G N A P T E L I E V L R E G I T R G I V I V N V T Q C C Q V G
UniRef90_S7QDQ3 Q G V I L E T F G A G N A P Q R L M S E L K A A C D R G V I I V I A I T Q C C V K G
UniRef90_A0A024M6B2 R G I I L E G L G S G N A G E G V V D A V R R H A P A G V A F G I S S R V P T G
UniRef90_B4MTW8 V G V V L Q S F G A G N I P N C L L N H L T S A I D R G V V I V N C T Q C C L K G
UniRef90_D8KNL2 Q G L V V E A M G A G N V G T E M G V A L G A A L D A G I P V V M T T R V P R G
UniRef90_L0K5E1 D V I V L H T T G N G V P P I T E A R D K A L D A G I P V T A S T R V V S G
UniRef90_D5NVZ9 R A I I L L G T G A G N G N H A W L T W T Q Q A V E S G T T V A L S T R V P A G
UniRef90_E1VC62 R G A L L E V W G S G N L P A I M G V L A R A S G E K L L A A I T S Q C C P H G
UniRef90_A3XHT0 V I L L T F G S G N S T T V P W F T R L L K K I I Q R N I P V V N I T Q C T W G
UniRef90_L11830 R A I V L E L F G G G N V D P N L F R A L S L A K E K G C I V V V T S Q C A S G
UniRef90_W9CE44 R G L I L E T F G A G N A P S S M I K I M K E A C E R G V I V N V S Q C C H S G
UniRef90_UPI0003703048 A G L V L A G V G A G H V P G Q V V P V L A E L A G T M P V V L A S R A G A G
UniRef90_U5BMK2 R G V V L E T Y G S G N S P P W F I Q C M E R A V K K G I I I L N V S Q C N G G
UniRef90_U3GYR2 E G I V V E A M G A G N V G R G S L A L G I V D A L D A G I P V V V T T R V P R G
UniRef90_E8UG43 K G L V I A G F G A G H V P G S I A S K I E K I I N D M P V V L V C S R T G R G
UniRef90_M5DQ19 K G I I L R N Y G V G N V P S H L M Q V I E E A V K R G I V V V N V S Q C C L A G
UniRef90_Q9VH61 K G V V L Q T F G A G N F P E D L L D E L R E A V H R G V I I V N I T Q C C S A G
UniRef90_W1RQT3 K G A V L M S Y G A G N A N T A L L A L L K G A A D R G V V I V N V S Q C C G A G
UniRef90_B6V679
UniRef90_G9WHV5 A A L I I E S L G N G G N V G R N L L V A G V E K L S Q A G L P V I I T T Q I M N E
UniRef90_V5GK86 Q G V I L E S Y G A G N A P S R N L L D V F K E A S D R G L V I V N I T Q C V V O G
UniRef90_UPI00034DB8BE E A V V I A G Q G A G H V S F G F A Q R I G A L A E Q V P V V V A S R A A S G

UniRef90_UPI000371BD6A P V L P L Y G N G G V S L G D L P W S Q V R I L L A Y L L S A G V D P E A L A D 290 300 310 320
UniRef90_Q091E1 G V D L T L Y E S G I S G G D M T P S A A V V K L M Q T I V Y H R T P E S I A R D
UniRef90_W0HHA5 P V H E L D V Y E F A G L S G G D M T R E A A L G K L H A L L G A G L K I E E V R R
UniRef90_UPI00035E8F34 P V L P S Y E F P G I A A T D L S A R K A R L L A L A V M L S L G A G R D E I A R D
UniRef90_E8U3Y0 P V L P V Y G Y A G V P A S F L N A H K A R L L L M I L L S L G A G R D E I A R D
UniRef90_I3RBY6 G V D L T R Y K V G I P A G F D M T K E A T V T K L M W I L G H T R K V E D V R D
UniRef90_Q17H26 A V S D L Y E I G V I P A G F D M T P E A A L V K L S Y V I S K A D W N Y E T V R K
UniRef90_UPI000465F178 L V S P G Y G A G A I V A A R L R P P Q A R V L L M A A L A A E H P V E T I R D
UniRef90_Q6LP01 K V N M G G Y A T G C A G Y D M T L E A A L A K L H Y L L S T D F P V E T I R D
UniRef90_UPI000478DB32 T V G P T Y A Y E G I F T N G L T G P K A R L K L L I A L E N N A D Y M I L R D
UniRef90_UPI0004718B75 S D M M V Y E V G K K V I T Y D M T L E A T I T K A M W L M A Q D M S Y E D M K S
UniRef90_M2Q4N9 G S N M S I Y E T G I Q A Y D M S V E A A I T K L M W V L G Q T D D P K R I R E K
UniRef90_UPI0004679F3D G V D L N V Y E V G I S G K D M T R E A A I T K L M L L S Y V E P Y N V E K
UniRef90_UPI0002898D15 V V K Q G I Y L G I S A K D M T T E A A I T K A M Y L L G Q N K Q R N D F K I
UniRef90_B0UEM2 V V P R L R E R G L S A D N L T P Q K A R I L L A L A L T L T R D P G A V A E
UniRef90_UPI000473BD12 G S N M T V Y E V G I E S G Y D M T L E S I T K L M W I M T L G L H F D E A I K K
UniRef90_M7NGF2 K V M Q G R Y E T S R S G Y D L T S E A A L A K M M L I L A A E P Q I E A A K K
UniRef90_H5X126 A V Y R S G M P E I P A A E D L T P Q K A R M L V L A L G V G G D R A R A H T
UniRef90_G4VJ31 G V K A V Y E Y G V T P A G Y D M T T E A A L T K L A Y I L S K T E N K D
UniRef90_G3JCW4 F V S P V Y A A G V I F G L D L T A E A A L A K L S Y L L S L G I T N E E I S A
UniRef90_V8R0V4 A T A Q A T Y G F A V M A G F L C P R K A R I L L W L L V A
UniRef90_UPI00037E3716 R A L P V Y G F P G V F A D D L S P D K A R V L L A L L T L P I T Q D R D A L Q A
UniRef90_S0AY56 N V N M D S Y A A G I N G S G D M T V S A A F T K L A N L E G R K M K D L A L R K
UniRef90_UPI00036CA43D R V T Q G Q Y Q I G V V S G R D I T T E A A I T K L M V L L G R G Y G P E A V L R
UniRef90_W7T0A2 P V L A E T Y G F P I G A G F L S P V K A R I L L R Q L L A A R A G I D D V R K
UniRef90_S8C8A9 T V S P L Y A A A G V F G H D L T S E A A L T K L I W L L A G K N L T D T Q I R
UniRef90_A3YI56 A V S A G T Y A A G V L S G L D M T S E A A F A K L H F L I A T N V S P E V I R E
UniRef90_F2JY71 G T S I G S Y A A G S A G K D L T L E A A F T K L H W L L S N N L S Y D D I K K
UniRef90_E6YG42 P T T R T Y G Y K V I M S G Y L S A V K A R L L W A F L A K G L S Q K Q I A
UniRef90_UPI0003B309A9 T T Y T Q A Y G F G I G A G W L D P R K A R I L L S C V L S E S N D R A R L S A
UniRef90_UPI000343F754 A V T S D Y A A G M V S G F D M T S E A A L A K L S Y V L G H G L T L D D R K E
UniRef90_A9W149 P V S R T Y G Y P G L S A G I D M S G V K A R L M L Q L L R A G A W D R A Y G A
UniRef90_V5SJ31 S V A E I Y Y D M G V I S G D M T P E A V L S K L S Y V L G K E W L E T K K Q
UniRef90_G0RV10 F V S P V Y A M G V I F G L D L T A E A A L A K L S H L L A L G L S Q K D I A D
UniRef90_C1CYE1 P V I P V Y G Y A G I P A S F L N A H K A R I L L V L L S L G L N R D A I R R N
UniRef90_B9CY17 M A T K T Y G Y K G V M S G W L S A I K A R L L L M I L L I A D E I P P Q E I R N
UniRef90_UPI00034FEEB2 S V A A L Y E Y G V V S G F D M T P E A A L T K L S Y V L T K T L S Y K E K T E
UniRef90_B0S0X5 G S D L G V Y Q V G M E S G K D M T L E S V V C K M M Y V M G K N R D I Q K I Q D
UniRef90_UPI000392D0ED S V K M V Y I V G V I P G G D M T P E A A L T K L S Y T L G K S L S W V E K R Q
UniRef90_A0A017SPP6 S V S P V Y A R A G V V A G D M T T E A A L T K L A Y L L A
UniRef90_V5IM34 F V S P L Y A A G V V F G H D L T T E A A L T K L S Y L L A L N L T Y S E I A
UniRef90_C5LBH1 T V A L A D Y A A G I S A G D M T A E A A T T K L S Y L L A G K G Y T Q E E I A K
UniRef90_Q86U10 A V T T D Y A A G M I S G F D M T S E A A L A K L S Y V L G Q G L S L D V R K E
UniRef90_H0IYP7 S I H L G A Y A A G L S G D D M T P E A A Y T K L V H L L A Q P L S F E D Q R R E
UniRef90_D5TZY9 R V N L N V Y S T G I P A S D M L P E T A Y V K L S W I L G S T K N L S E V R E
UniRef90_UPI000370CB3A S V Q P G A Y A T G V P G Y D M T C E A A L T K L A V L L G Q G L D T A V V A E
UniRef90_T0VJ08 I A E P V Y G Y S G I F C N S I N S Q K A R I K L L I A K N R R L P L V E L H D
UniRef90_UPI00037AF22A E V A F D Y K L G A I P A G W L R A G Q A R I A L A T A L A T G S D P R A L
UniRef90_V4YI21 R V C D R V Y D T G V E A G D T L P G T A T V K L M W A A A N R E D P
UniRef90_K1Y3X4 G V D L R L Y E V G I Y T R D M N T E A L V P K L M W A M A E S A E F T E I K R
UniRef90_U7PVV1 F V S P L Y A A G V V F G H D L T T E A A L T K L S Y L L A L G L S Y A D I Q E
UniRef90_B3M1D2 M V S S A Y E I G V I S G Y D M T Q E A A F T K L A Y V L A K
UniRef90_D2B0W2 E V P L E D K V G A I G A R G L A P S K A R A A L M V A L G T G G P R A V I R D
UniRef90_UPI000370548C S V E P G R Y A A G I S G L D M T V E A A T K L Y H L F A L N L P I P Q V I R A
UniRef90_UPI00031B5F16 L V V E D D A L G L V A A R A L G P A K A R V L L M V L V A N G T D A K A V Q A
UniRef90_J9SLK9 E V S A T Y G A G A I V S P W L R A P Q A R M A L T A L T S G H D H G A L T D
UniRef90_B8M9H2 H V S P V Y A A G V V A G Q D M T T E A A L T K L A Y L L A L P D S T P E
UniRef90_J2PDD0 E T N R T Y G Y V G I P A G T L D A L K A R I A I A L L V S S G A D R R A V A A
UniRef90_F7MGD2 S V K M P L Y E S I N G S D L T S E A G L T K M M Y L L G K N L S L Q E I K N
UniRef90_K6ZNB0 K V N M N G Y A N G I S G Q D M T P E A A L A K L H Y L L S K G M P S H I K R
UniRef90_UPI0003742271 P V S I G T Y A A G M A G D A M T P E A A M T K L I H L S A Q P L S S E E K R K
UniRef90_W4FLD4 R T Q L D T Y A T G I T S Y D M T L E S C V T K L A Y L M G K Y R G P D L K L
UniRef90_D2QEK2 R V T Q G Q Y Q I G V V S G R D I T T E A A V T K L M V L L G Q E H D P A K L R
UniRef90_A0A023B1C2 T C S L Q T Y A N G I E G K D I T T E A A F T K L A Y L F G K G F K D E E L R A
UniRef90_UPI0004766C52 D V H G S Y G G A G I G S H Y F R A P Q A R M L A V A I A T G A H P A T L
UniRef90_R9IW95 S D M T V Y E V K F L E S Y D M T L E A V I A K I M W M L G Q G C R K D I L E Q
UniRef90_A1C543 S V S P V Y A A G V I A G L D M T T E A A L T K L A Y L L G
UniRef90_UPI00047A7EC6 D V H G T A A K G A I G S T Y F R S G Q A R V L L A I A V A T G T H P A T L
UniRef90_M1VXD4 F V S P V Y A A G V I F G L D L T P E A A L T K L S H L L A L D L T P A E I T S
UniRef90_U4LQM6 T V S P L Y K A G V V F G L D M T T E A A L T K L S C L L A E K L T P V E I S R D
UniRef90_S7QDQ3 S V G D A Y E S G V V P G G D M T P E C A L A K L S Y L L S K E L S V S E V R D
UniRef90_A0A024M6B2 E V I A E Y G A G A V M V P H L R P S Q A R V L M M A A L A T A K P A D S V I R R
UniRef90_B4MTW8 S V T D D Y D A S V I F L G D I T M E A A Y T K L C Y V M S K D I N L K E K K K
UniRef90_D8KNL2 E V A T L A A K G A I S T Y F R A G Q A R V L L A I A V A T G V H P A T L
UniRef90_L0K5E1 P T P D D E E G S L V T M E D I P A W N A R L L M V A L T A A E D I E A V R K
UniRef90_D5NVZ9 S V L P L Y G N G G A S L G D L P W S Q A R I L L A L L L S T Q H S I
UniRef90_E1VC62 S I S L G A Y A A G I S G D D M T P E A A V T K L V H L L A Q P L D D A E R R R
UniRef90_A3XHT0 S V Q M G N Y E T V I S G K D L T T E A A I T K M M Y L N S Q N L S P K V F K T
UniRef90_L11830 S V A V G S Y A V N V P A L D M T T E A T C A K L A Y L F G K G L S P E Q V S R
UniRef90_W9CE44 S V S P L Y A A G V V F G H D L T T E A A L T K L S F L L A L D L D S Y E D I
UniRef90_UPI0003703048 M L T R T Y G Y P G I P S G F L T P Y K A R I L L R L L A D G A D R E R I G A
UniRef90_U5BMK2 R V I Q G R Y E T I L S G G D I T T E A A I T K M M F L L A N E T E E H I I R R
UniRef90_U3GYR2 D V A T K A A K G A I G S T Y F R A A Q A R V L L A V A I A S G V H P A T L
UniRef90_E8UG43 T T T Y K T A Y A L M G F L S P R K A R L L S A M I W S K M D R S K I C E
UniRef90_M5DQ19 G V F Q D T Y A S G S V I G S D M T E A A F T K L H Y L F A C D E Q V D V I R
UniRef90_Q9VH61 M V A N I Y E V G V I P G Y D M T Q E A A F T K L A Y V L S K
UniRef90_W1RQT3 R I A A G V Q A G V I S G D D M T Y E A A F V K L H F L T G L G L T A K E I K T
UniRef90_B6V679
UniRef90_G9WHV5 G Q D L D L Y A G G I T A G D M N T E A I V A K L M W T M R Q T K N L S Q I K R
UniRef90_V5GK86 E V S A I Y A V G V V A A G D M T P E C A L A K L S Y L L A K G L E P E E I N E
UniRef90_UPI00034DB8BE P T A C T Y G Y V G A M A G W L S A L K A R L L V A L I A S G V A P G A V G E

UniRef90_UPI000371BD6A	F I
UniRef90_Q091E1	T I Q T
UniRef90_W0HHA5	L V E
UniRef90_UPI00035E8F34	
UniRef90_E8U3Y0	V F R
UniRef90_I3RBY6	L M R K
UniRef90_Q17H26	L M L K
UniRef90_UPI000465F178	A F E R W
UniRef90_Q6LP01	M M Q Q
UniRef90_UPI000478DB32	I F E K
UniRef90_UPI0004718B75	E F Y
UniRef90_M2Q4N9	Y F
UniRef90_UPI0004679F3D	W L H T
UniRef90_UPI0002898D15	E F E
UniRef90_B0UEM2	I F A T Y
UniRef90_F3BD12	T F Y Q
UniRef90_M7NGF2	
UniRef90_H5X126	L F E T Y
UniRef90_G4VJ31	
UniRef90_G3JCW4	L F
UniRef90_V8R0V4	
UniRef90_UPI00037E3716	
UniRef90_UPI000371DBFD	Y F D
UniRef90_S0AY56	M M E K
UniRef90_UPI00036CA43D	L
UniRef90_W7T0A2	A F
UniRef90_S8C8A9	
UniRef90_A3YI56	T F
UniRef90_F2JY71	
UniRef90_E6YG42	C W N N W
UniRef90_UPI0003B309A9	E F E
UniRef90_UPI000343F754	L L
UniRef90_A9W149	Y F
UniRef90_V5SJ31	M M E S
UniRef90_G0RV10	R F
UniRef90_C1CYE1	V F
UniRef90_B9CYI7	E F E N F
UniRef90_UPI00034FEEB2	M M
UniRef90_B0S0X5	E F Y S
UniRef90_UPI000392D0ED	M L S E
UniRef90_A0A017SPP6	
UniRef90_V5IM34	R M S Q
UniRef90_C5LBH1	A F
UniRef90_Q86U10	L L
UniRef90_H0IYP7	R F L T
UniRef90_D5TZY9	L M L T
UniRef90_UPI000370CB3A	M M Q
UniRef90_T0VJ08	F M E
UniRef90_UPI00037AF22A	
UniRef90_V4YI21	
UniRef90_K1Y3X4	L V E T
UniRef90_U7PVV1	R M
UniRef90_B3M1D2	
UniRef90_D2B0W2	W F
UniRef90_UPI000370548C	L M P T
UniRef90_UPI00031B5F16	A F D
UniRef90_J9SLK9	Y F
UniRef90_B8M9H2	
UniRef90_J2PDD0	F F D H F
UniRef90_F7MGD2	A F
UniRef90_K6ZNB0	
UniRef90_UPI0003742271	R F L T
UniRef90_W4FLD4	N M E T
UniRef90_D2QEK2	
UniRef90_A0A023B1C2	M M E Q
UniRef90_UPI0004766C52	
UniRef90_R9IW95	V F Y K
UniRef90_A1C543	
UniRef90_UPI00047A7EC6	
UniRef90_M1VXD4	Q F S Q
UniRef90_U4LQM6	Q M S K
UniRef90_S7QDQ3	L
UniRef90_A0A024M6B2	W
UniRef90_B4MTW8	M M T T
UniRef90_D8KNL2	
UniRef90_L0K5E1	A V Y E
UniRef90_D5NVZ9	
UniRef90_E1VC62	R F L T
UniRef90_A3XHT0	I F E T
UniRef90_L1I830	A M L Q
UniRef90_W9CE44	
UniRef90_UPI0003703048	A F
UniRef90_U5BMK2	
UniRef90_U3GYR2	
UniRef90_E8UG43	H L R N Y
UniRef90_M5DQ19	
UniRef90_Q9VH61	
UniRef90_W1RQT3	M L
UniRef90_B6V679	
UniRef90_G9WHV5	I M Q T
UniRef90_V5GK86	L M
UniRef90_UPI00034DB8BE	A L A N W

UniRef90_Q8ZY04
 UniRef90_H2S088
 UniRef90_UPI000368D3A4
 UniRef90_MOQIT1
 UniRef90_J3P341
 UniRef90_W7U8P8
 UniRef90_J9J0K1
 UniRef90_UPI00036A5F9E
 UniRef90_J2ZJC0
 UniRef90_W3X550
 UniRef90_UPI00047E9B39
 UniRef90_Q8FNV4
 UniRef90_C6WZB9
 UniRef90_S8BH64
 UniRef90_I2G6G4
 UniRef90_UPI00046F6A87
 UniRef90_F2R5J9
 UniRef90_F6CXA5
 UniRef90_UPI000344F131
 UniRef90_V6UZM9
 UniRef90_F2UXU4
 UniRef90_W5IMX7
 UniRef90_F8JJC7
 UniRef90_G5GZl8
 UniRef90_UPI00034531AB
 UniRef90_B4NKK4
 UniRef90_N2JIN7
 UniRef90_B0WNG8
 UniRef90_R7Q8Z1
 UniRef90_R7WNI1
 UniRef90_A0ZZF7
 UniRef90_D6WSZ8
 UniRef90_G2G412
 UniRef90_UPI0002655B65
 UniRef90_UPI0002F7589F
 UniRef90_W9WY11
 UniRef90_C1FD11
 UniRef90_C5FHQ2
 UniRef90_K0VDC7
 UniRef90_U6IPJ3
 UniRef90_E5S4E4
 UniRef90_A1B9W4
 UniRef90_F0LCU4
 UniRef90_D8PU75
 UniRef90_F9ECC9
 UniRef90_I3X5T7
 UniRef90_I6WVF5
 UniRef90_A3U0T5
 UniRef90_S2ZIU1
 UniRef90_C4V4V7
 UniRef90_X5K5L2
 UniRef90_F9X5S2
 UniRef90_Q0FNT9
 UniRef90_C1B6A9
 UniRef90_UPI000455F381
 UniRef90_C5P4J6
 UniRef90_UPI0003735925
 UniRef90_E7NG28
 UniRef90_UPI0003601849
 UniRef90_F1L451
 UniRef90_MOEHR3
 UniRef90_B1J1H8
 UniRef90_UPI000345B12C
 UniRef90_D6ZZH0
 UniRef90_V6LVX1
 UniRef90_D3UJL7
 UniRef90_Q9V2K1
 UniRef90_V4IXC4
 UniRef90_UPI0003755C0A
 UniRef90_UPI0003732EA7
 UniRef90_I0S8S5
 UniRef90_D0GKH2
 UniRef90_UPI000468063F
 UniRef90_UPI000476602C
 UniRef90_G7YK21
 UniRef90_V8CVZ2
 UniRef90_G9ZBB3
 UniRef90_C1D9J0
 UniRef90_UPI000440791D
 UniRef90_Q0TYG0
 UniRef90_UPI000365888B
 UniRef90_M0DDM5
 UniRef90_UPI00026C6E9C
 UniRef90_H9JTY3
 UniRef90_A0A059LPQ9
 UniRef90_Q979L8
 UniRef90_UPI000359B199
 UniRef90_H2G5G3
 UniRef90_L9X535
 UniRef90_D4YL18
 UniRef90_D8TR59
 UniRef90_A0A010QZW8

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

UniRef90_Q8ZY04 L G G L E A P I E A E E V T A K F 50 60 70 80
UniRef90_H2S088 K R I I Y T V M E Y S P L L L D S S S N M T T D D W S Q I G K D V I E K E F K N
UniRef90_UPI000368D3A4 A Q L E G V E T A D L L R L L D S S S R L S L R D L D G L I S D A V V R A K E L L
UniRef90_MOQIT1 V D I V E T V D L M T V L D G S S Y R L T L G H L R L E I S D A V V A K E A R D N
UniRef90_J3P341 L P S L R H I L R Y C A L E F N P L L D S S S S L S S A G W A E I A Q T D V I K E K A
UniRef90_W7U8P8 E W R H R N L P E I D V L E W T L L D S S S Y C M G P E H W I K I A T D I L E K A
UniRef90_J9J0K1 T P E T P Y K K R I R F T M L E F I L D S S S N M M I D D W V K I S Q T L I E K H
UniRef90_UPI00036A5F9E V P G L A E I A D V E P L S P F K L P S A S L T L E Q L G E V A R M A R R A V D
UniRef90_J2ZJC0 V P Q L T T L A R V T V E T L G L L P S S S I S S D G C L L S V L S W A K Y Q V
UniRef90_W3X550 R P S F N D K S E R V L E F N P L L D S S S I S S D G W T Q I A N T V Q E N
UniRef90_UPI00047E9B39 V P Q I A D I A E I D A R D L A K P S A S L L L A D T A A I A R A A M E A
UniRef90_Q8FNV4 I A A R F D Q F T F E T H E L N R L D S S S M T F A D L D E L N T R I H Q V L E
UniRef90_C6WZB9 M P E M N I E C E I T V H E F K P L D S S S D M G P K E W K I A N Y I I G K N
UniRef90_S8BH64 H P S L R T P V I T Y G R Q V R Y L D S S S S I N A K G W T E I A S Q T I F Q N
UniRef90_I2G6G4 L P T L K R V R A V L E Y D P L L D S S S E M D I P D W I R L A S D I S L N A
UniRef90_UPI00046F6A87 V P D I T K L A N I K G E Q I S N V L D G S S Q D M S F E I M L K L A K R I G E L N A
UniRef90_F2R5J9 P L P E G V T V E V V D I L S N V N S S R M T A A H Q L A L L R T V H E T F A
UniRef90_F6CXA5 L N S L P S F E V L E I S P L I N S A N I T P A H W T K L V S L N V H W Q
UniRef90_UPI000344F131 L S V P H G L R V Q V R L D L F T V N S S A L T T A Q Q L T L G A V H E A L A
UniRef90_V6UZM9 L P Q L Q T L A Q I S T A T L C L V P S A S L A F T D M L D A L A W A N A Q V
UniRef90_F2UXU4 T P L A R S V S V T S L T P L I D S S N A T P L S W Q A I V D D L R A H A A
UniRef90_W5IMX7 S G R Q P T F A W A F R E M Q P L L D S A N M Q Q A N W L A M R D A I V D A V E
UniRef90_F8JJC7 V P G L A A G V P L D V R D A Q A V P S A D L T F A A M L D V V A A A E A A V
UniRef90_G5GZi8 I G A E D A A V E V I D L L R L L D S T N I A P S H W Q M I A R K I A E C
UniRef90_UPI00034531AB V P G L A D T I D I E V N D F R R L P G A S L L G F A D L T A L A V D I D K R L A
UniRef90_B4NKK4 Q D H P H R V I Y D I V E Y A P L L D S S C I G V D E W R R I A N D I G K S Y S
UniRef90_N2JIN7 A P E R A L P E W Q F R E V L P L M D S A N M T P T Y W T L S A A I V D E A A
UniRef90_B0WNG8 F P Q L H D I R Y R L E Y D P L L D S S N M G V P E W V R I A Q A D I H D A
UniRef90_R7Q8Z1 F P E L R S L A T F Q V N V P L N L D S S R L G P P H W I K L A K L L D R N
UniRef90_R7WNI1 A P H L D D G V D V R A R N V L T T G S Y R L D L A D L R A L A D A V A E A A
UniRef90_A0ZZF7 P S L F S F T E L D P L I D S S N A T P D N W Q T M A D D L R A H
UniRef90_D6WSZ8 L P E I G N E V V L Y E E Y N P L L D S S N M C S K D W I R I A N D I G K N Y D
UniRef90_G2G412 V P L E L A D A A T L E L Q D F R Q L I P G A W L E I D D L V A I A E L L N Q R A
UniRef90_UPI0002655B65 L P P A S P N Q R I V L E C Q P L F D S S D M T I A E W V R I A Q T I R G S T E
UniRef90_UPI0002F7589F M C D L P Q G Y Q I K I I D L L Q L P S S M H I D F E A M V K I K Q E I E K E F K
UniRef90_W9WY11 E F E P L L D S S S I D S K G W A E I A Q T I E K E F R N
UniRef90_C1FD11 V P E L K T F A N L Q L K V L M N K D S C Q I G P K E W I Q V A H E L H K R
UniRef90_C5FHQ2 Y N A R V R Y A V Y E F E L L D S S S I D A K G W A Q I A R A I S W N
UniRef90_K0VDC7 G L S V D A D I E V V D A L A T D S A L L T P A D W D A I H A A V S A A
UniRef90_U6IPJ3 W P L I C M P T V E A V Y K D L L D S S N C T I E N W I L V S K H I K Y F Y D
UniRef90_E5S4E4 L P E N K R I V Y W I T E Y Q P L L D S S D M S F E E W I K I A N T I S E N
UniRef90_A1B9W4 L P S M A V D L R P Q E V L A K D S A S L T L A D M Q R I S D A V A T E L L A
UniRef90_F0LCU4 V P Q I N A R L K P V D L M A K D S S S L T L A D M Q R I S D A V A T E L L N
UniRef90_D8PU75 G A V R K A M R Y A I M E W H P L L D S S N I E M K D W I R I A T E I E L N
UniRef90_F9ECC9 D L G G Q V T L T G L D P L I D S S N A A P A G S W Q Q I K G L R T H H A
UniRef90_I3X5T7 A S A A P L P D C D V V E L E R L I D S A N L Q P A Q W P I A G E L V R R W E
UniRef90_I6WVF5 T A E V R T T D V L T T G S Y L L T F T D L R I L V K A V Q D A L A
UniRef90_A3U0T5 M D L G L D G I A L E L V P F E R M L P S T G I T V E D W I D L A A R V K E L D R E
UniRef90_S2ZIU1 I P Q L E G S I T V P N H L D Q L L D S S S L T M Q D L D R I V E R V E L V F E
UniRef90_C4V4V7 M G V K D A A V E T L D L L S L D S S T N I T P T H W E R I A Q C V A G R N
UniRef90_X5K5L2 I P E L N L D C D V T L S Q F S P L L D S S D V G P E H W T A I A K I I K E N
UniRef90_F9X5S2 L P R D R N G A N V R C T V L E F N P L L D S S T A H W N Q A R C V R S N
UniRef90_Q0FNT9 S G Q L R G R F D V T N V P V D P A P S F D M G A E R W A I C A A C A A L K E
UniRef90_C1B6A9 D A G V E V S E R R F G Q V A S A A V D E F G T R E V L T H A E Q E A E
UniRef90_UPI000455F381 L D S S S N I E I S D W I R I A T E V E L N
UniRef90_C5P4J6 S G E R K S Y P T L R T E F E E L L D S S S I D A K G W A Q I A R T I Y W N
UniRef90_UPI0003735925 I A Q R C P G A E L L E Y A P L L D S S S M T P R H W A Q I A R D I Q A R V A
UniRef90_E7NG28 I P D I S K V C D I E Y E Q L C N V D S K D I N E D I L Y K I Y K G V S E S L Q
UniRef90_UPI0003601849 V G L D I S K N I E L T V I D L L N I P S P H M T P Y H M L A L Y H K I R E S A D
UniRef90_F1L451 N P A V R N I A F S V T K E C E P L L D S S S M G L D D W I R I G G E I G A A Y D
UniRef90_M0EHR3 V P A N S D Y A R V T T R E V C S Q P G F D V R W R D V L A T A A A R D A V H
UniRef90_B1J1H8 L P H L R E M A H L E V A T L C L V P S A L S F V M L L D V L A W A R A E I E
UniRef90_UPI000345B12C A E R V W G S V R V Q A R D V H R M V S F A E S I G D V L A V A R A V R T A
UniRef90_D6ZZH0 V P G L D E V A Q I E A R S P F R L A S S S L T L E N L V A V A G D I R A A F A
UniRef90_V6LVX1 F I H K D M P S Y M L Y S L P P P I D S S I M T P E D W R K I A L S V L I E I
UniRef90_D3UJL7 I P Q I S K I A Q V S A H T L F A I A S G H I T F E N L L E L Y H W A R T E V A
UniRef90_Q9V2K1 I P Q I S K I A Q V S A H T L F A I A S G H I T F E N L L E L Y H W A R T E V A
UniRef90_V4IXC4 V P E L A G H A D V S A E S V A S R P G F D M D V A T V A R L A N A A G R A V D
UniRef90_UPI0003755C0A I P E L S K L A N V R G E Q V M Q I A S E S I T N E N L L Q L G R R V A E L A D
UniRef90_UPI0003732EA7 V P G L Q S A A E V R V E D F R Q M P G A S L A T G D I V G L V E R L G R A E
UniRef90_I0S8S5 Y Q F L E S L N I D Y A Q T S K I I D S S D M D Y K I W L E I G K I I E E N
UniRef90_D0GKH2 Q Q A L E T P S W V F R E L L P I L D S A N M S Q S N W L A M A A I R A G V E N
UniRef90_UPI000468063F G L D I A T D I D I D I D L L A M D S A N M M T P A D W D R I R A A A E S A
UniRef90_UPI000476602C L P L T K D H R R I F Y E Y S P L L D S S D M T Q D D W R I A R D I G A Y Y D
UniRef90_G7YK21 S A E A G V E L R S R E V L H L D S S S L P E D L D V R S A V V A E L E
UniRef90_V8CVZ2 L P E A D F D V F V C E P A I D S S S A T P A A W Q R L A D A V A A H
UniRef90_G9ZBB3 D I D W T L A E Y D P L I D S S N A T P A D W L R L A R D I D A R R D
UniRef90_C1D9J0 L L E W D P L L D S S N V G T E D W V R I A T E I E L N
UniRef90_UPI000440791D L D S S S I D A A G W D Q I A K T V Q R N
UniRef90_Q0TYG0 L P R L H D R V R L R V R E L G R L D S S S L R P R D V D E I V A A A H R E L E
UniRef90_UPI000365888B V P S V S E H A D L R V T D V G S R P G F G M D F A V A A A D A V A C D A V
UniRef90_M0DDM5 L A D V D G D V E L R P R A L A N I S S S D V R P H H L R A V L I E S A R A V D
UniRef90_UPI00026C6E9C I P Q L H D D A Y W I Y E Y D E L K D S S D F T D D W I K M A R D I K R F
UniRef90_H9JTY3 V P E L K S L A H L D I K V A F N K D S S G V G P R E W I H L A K M L D S Q
UniRef90_A0A059LPQ9 G T E L E S K F N I R V V N V M N Q L S E N M K P A D W I H L A R K V M D E T K
UniRef90_Q979L8 A R F V K T F D M V V E F D P L L D S S N M S I T D W V K V A S C I K E N
UniRef90_UPI000359B199 I R Q R F A G A D I E V R L E H R L D S S S M T L R D I D I V I T A T H N A L E
UniRef90_H2G5G3 V P E L I E H F V D I E I A E A A Q K G S P S L L V E D Y V S V A K A K Q A E E
UniRef90_L9X535 I D T L P F P A N D V T Y E Q V A Q V G S S I T L D H V S Q V V E S A K K A R E
UniRef90_D4YL18 V P E L E K F A N V D L Q V L A Q V G S S R V G P S D W I T I A K A L D N N H
UniRef90_D8TR59 T G I D E V A R E L D V I E D F E S I D S T A V T S K V W N D I G Q R C E S L S R
UniRef90_A0A010QZW8

	90										100										110										120											
UniRef90_Q8ZY04	K	G	A	R	G	V	V	V	L	H	G	T	D	T	M	Q	Y	T	A	A	A	L	A	F	A	F	K	S	P	G	P	I	A	L	V	G	A	Q	R			
UniRef90_H2S088	Y	Q	N	F	D	G	F	V	L	H	G	T	D	T	M	A	Y	T	A	S	A	L	S	F	M	C	H	L	G	K	P	I	A	L	V	G	A	Q	R			
UniRef90_UPI000368D3A4	D	D	T	V	T	G	L	V	L	T	H	G	T	D	S	L	E	E	T	A	A	M	A	L	A	M	I	H	E	S	D	K	P	V	V	L	T	G	A	Q	R	
UniRef90_MOQ11	T	D	R	V	D	G	L	V	L	T	H	G	T	D	S	L	E	E	T	A	A	L	L	L	V	H	Q	D	D	P	R	V	V	L	T	G	A	Q	R			
UniRef90_J3P341	Y	R	L	F	D	G	F	V	V	L	H	G	T	D	S	L	A	Y	S	A	S	A	L	S	F	M	M	D	L	G	K	P	V	V	L	T	G	S	Q	A		
UniRef90_W7U8P8	Y	F	E	Y	D	G	F	V	V	L	H	G	T	D	T	M	A	Y	T	A	S	A	L	A	F	F	M	L	D	L	G	K	S	V	V	L	T	G	S	Q	L	
UniRef90_J9JOK1	Y	K	E	Y	D	G	F	V	V	L	H	G	T	D	T	M	A	Y	T	A	S	A	L	S	F	F	M	L	N	L	N	K	S	V	V	L	T	G	S	Q	L	
UniRef90_UPI00036A5F9E	G	G	A	S	G	V	V	V	V	Q	G	T	D	T	I	E	E	T	A	F	A	L	D	C	M	W	A	E	D	A	P	I	V	V	T	G	A	M	R			
UniRef90_J2ZJC0	E	Q	G	A	V	G	V	V	L	T	H	G	T	D	S	L	E	E	T	A	A	V	F	F	D	Y	L	W	D	C	D	E	P	I	V	L	T	G	A	M	R	
UniRef90_W3X550	Y	H	L	F	D	G	F	V	V	L	H	G	T	D	S	L	E	E	T	A	S	A	L	F	F	M	M	E	D	L	G	K	P	V	V	L	T	G	S	Q	A	
UniRef90_UPI00047E9B39	A	A	T	V	D	G	V	V	L	T	H	G	T	D	T	L	E	E	T	G	F	A	L	S	L	L	A	Q	V	E	T	P	I	V	L	T	A	A	M	R		
UniRef90_Q8FNV4	D	P	E	V	D	G	V	V	L	T	H	G	T	D	S	M	E	E	T	A	A	V	A	V	D	T	F	H	T	D	H	R	K	P	V	V	L	T	G	A	Q	K
UniRef90_C6WZB9	Y	E	D	Y	D	G	F	V	V	L	H	G	T	D	S	M	E	E	T	A	S	A	L	S	F	F	M	L	N	L	R	K	P	V	V	L	T	G	S	Q	L	
UniRef90_S8BH64	Y	T	F	F	D	G	F	V	V	L	H	G	T	D	S	L	A	Y	S	C	S	A	L	S	F	F	M	L	N	L	R	K	P	V	V	L	T	G	S	Q	A	
UniRef90_I2G6G4	Y	Q	A	F	D	A	F	V	V	L	H	G	T	D	T	M	A	Y	T	A	S	A	L	S	M	L	L	N	L	L	G	K	S	V	V	L	T	G	A	Q	V	
UniRef90_UPI00046F6A87	S	A	D	C	H	G	F	V	V	L	H	G	T	D	T	M	E	E	T	A	Y	F	L	N	L	T	T	H	T	E	K	P	V	V	L	T	G	S	M	R		
UniRef90_F2R5J9	D	P	G	V	D	G	L	V	L	T	H	G	T	D	T	L	E	E	T	A	F	F	L	D	L	H	H	T	D	N	R	P	V	V	L	T	G	A	Q	R		
UniRef90_F6CXA5	D	Y	D	D	G	F	V	V	L	H	G	T	D	T	M	A	Y	T	A	S	A	L	S	F	F	M	L	G	S	P	K	N	I	V	L	T	G	A	Q	L		
UniRef90_UPI000344F131	D	D	R	I	D	G	V	V	V	L	T	H	G	T	D	T	L	E	E	T	A	Y	F	L	D	L	H	H	H	D	R	R	P	V	V	L	T	G	A	Q	R	
UniRef90_V6UZM9	Q	A	G	A	Q	A	V	V	L	T	H	G	T	D	T	L	E	E	T	A	Y	F	L	D	L	L	W	P	H	D	T	P	L	I	M	T	G	A	M	R		
UniRef90_F2UXU4	A	D	S	Q	T	A	F	V	V	L	H	G	T	D	T	M	A	Y	T	S	A	A	L	S	Y	A	L	D	L	S	V	P	V	V	L	T	G	A	Q	L		
UniRef90_W5IMX7	Q	G	G	H	D	G	F	V	V	L	H	G	T	D	T	M	A	Y	T	A	A	A	L	S	F	V	L	L	G	L	D	V	P	V	V	L	T	G	S	M	L	
UniRef90_F8JJC7	R	D	G	A	R	G	V	V	V	T	H	G	T	D	T	L	E	E	T	A	Y	L	V	D	L	V	W	P	R	P	E	P	F	V	L	T	G	A	M	R		
UniRef90_G5GZl8	R	T	S	Y	D	G	F	V	V	L	H	G	T	D	T	M	A	Y	T	S	A	A	L	Y	Y	M	L	E	H	D	R	P	V	V	L	T	G	A	Q	R		
UniRef90_UPI00034531AB	S	G	D	V	D	G	F	V	V	L	T	H	G	T	D	T	M	E	E	T	S	Y	L	D	L	F	H	T	A	P	Q	P	V	V	L	T	G	A	M	R		
UniRef90_B4NKK4	R	Y	D	G	F	V	L	L	H	G	T	D	T	L	A	Y	T	A	S	A	L	A	F	M	L	N	L	S	K	P	V	V	L	T	G	A	Q	I				
UniRef90_N2JIN7	E	Q	G	Y	T	G	V	L	V	L	H	G	T	D	T	L	A	Y	T	A	A	M	F	H	L	L	G	L	D	I	K	P	V	V	L	T	G	S	M	L		
UniRef90_B0WNG8	R	H	F	Q	G	F	V	V	L	H	G	T	D	T	L	A	Y	T	A	S	A	L	S	F	F	M	L	E	G	L	K	P	V	V	L	T	G	S	Q	I		
UniRef90_R7Q8Z1	R	D	N	F	D	G	F	V	L	H	G	T	D	T	M	S	Y	T	A	S	A	L	S	L	M	L	A	G	R	K	P	V	V	L	T	G	S	Q	R			
UniRef90_R7WNI1	D	P	D	V	V	G	L	V	V	L	H	G	T	D	T	M	E	E	T	A	F	L	L	D	L	V	H	E	S	P	I	K	P	V	V	L	T	G	A	Q	R	
UniRef90_A0ZZF7	R	D	D	A	D	A	F	V	V	L	H	G	T	D	T	M	S	Y	S	A	A	L	S	S	Y	A	L	T	G	G	K	P	V	V	L	T	G	S	Q	H		
UniRef90_D6WSZ8	K	F	D	G	F	V	L	L	H	G	T	D	T	L	A	Y	T	S	S	A	L	S	S	F	M	L	E	G	Q	K	P	V	V	L	T	G	S	Q	I			
UniRef90_G2G412	Q	S	G	T	A	G	F	V	L	T	H	G	T	D	T	L	E	E	T	A	F	L	L	D	L	L	Y	T	G	E	A	P	V	V	L	T	G	A	M	R		
UniRef90_UPI0002655B65	Q	Y	H	G	F	V	L	L	H	G	T	D	T	M	A	F	A	S	V	L	S	F	M	L	N	L	Q	K	T	I	V	L	T	G	A	Q	V					
UniRef90_UPI0002F7589F	D	N	N	V	D	G	L	V	V	L	T	H	G	T	D	S	L	E	E	T	A	Y	F	L	D	I	T	I	N	D	H	R	P	V	V	L	T	G	S	Q	R	
UniRef90_W9WY11	Y	K	L	F	D	G	F	V	V	L	H	G	T	D	S	L	E	E	T	A	C	S	A	L	S	F	M	L	N	L	G	K	P	V	V	L	T	G	S	Q	V	
UniRef90_C1FD11	R	D	E	F	D	A	F	V	V	L	H	G	T	D	T	M	A	Y	T	A	S	A	L	S	L	M	L	N	S	G	A	K	P	V	V	L	T	G	S	Q	L	
UniRef90_C5FHQ2	Y	T	I	F	D	A	F	V	V	L	H	G	T	D	S	L	A	Y	T	C	S	A	L	S	F	M	L	N	L	G	K	P	V	V	L	T	G	S	Q	T		
UniRef90_K0VDC7	A	R	A	R	D	G	L	V	V	L	H	G	T	D	S	M	E	E	T	A	L	W	L	E	L	T	Y	N	G	A	A	P	V	V	L	T	G	A	Q	R		
UniRef90_U6lPj3	K	F	D	G	F	V	L	L	H	G	T	D	T	L	A	Y	G	A	S	F	L	S	F	I	L	E	G	C	K	P	V	V	L	T	G	S	Q	R				
UniRef90_E5S4E4	Y	E	N	Y	D	G	F	V	L	L	H	G	T	D	T	L	C	F	T	A	S	A	L	S	S	F	M	F	N	L	G	K	S	I	V	L	T	G	S	Q	I	
UniRef90_A1B9W4	D	P	R	I	A	G	L	V	A	L	H	G	T	D	A	M	E	E	T	A	L	L	V	Q	L	Q	H	A	P	R	K	P	V	V	L	T	G	A	Q	F		
UniRef90_F0LCU4	D	P	A	V	T	G	V	V	V	L	H	G	T	D	A	M	E	E	S	S	L	L	V	H	L	Q	H	A	I	T	K	P	V	V	L	T	G	A	Q	F		
UniRef90_D8PU75	Y	N	L	Y	D	A	F	V	L	L	H	G	T	D	T	M	S	Y	T	S	S	A	L	S	F	L	L	D	L	G	K	T	V	I	L	T	G	A	Q	I		
UniRef90_F9ECC9	D	R	P	A	Q	G	Y	V	V	L	H	G	T	D	T	M	A	Y	T	S	A	A	L	S	S	Y	A	L	D	F	D	R	K	P	V	V	L	T	G	A	Q	L
UniRef90_I3X5T7	A	Y	D	G	F	V	V	L	H	G	T	D	T	M	A	W	T	A	S	A	L	S	S	F	M	L	R	G	D	K	P	V	V	L	T	G	A	Q	R			
UniRef90_I6WVF5	D	D	D	C	V	G	V	V	V	T	H	G	T	D	T	M	E	E	T	A	F	L	L	D	L	V	H	T	S	A	K	P	V	V	L	T	G	A	Q	R		
UniRef90_A3U0T5	D	N	S	I	A	G	L	V	V	L	H	G	T	A	T	L	E	E	T	A	F	F	L	E	A	T	C	A	A	T	K	P	V	V	L	T	G	A	Q	L		
UniRef90_S2ZIU1	D	D	N	I	D	G	L	V	V	L	H	G	T	D	S	M	E	E	S	A	L	A	V	D	T	L	V	R	D	P	R	P	V	V	L	T	G	A	Q	H		
UniRef90_C4V4V7	R	Q	A	H	D	G	L	I	I	T	H	G	T	D	T	M	A	Y	T	A	A	A	L	Y	Y	M	L	E	H	A	C	P	V	V	L	T	G	A	Q	R		
UniRef90_X5K5L2	Y	E	D	Y	S	D	G	F	L	L	H	G	T	D	T	M	A	Y	T	A	S	A	L	S	F	M	L	K	G	R	K	P	V	V	L	T	G	A	Q	L		
UniRef90_F9X5S2	E	A	N	Y	D	A	F	V	L	C	H	G	T	D	T	L	A	Y	T	A	A	A	L	S	F	M	L	N	L	D	K	T	V	V	L	T	G	A	Q	R		
UniRef90_Q0FNT9	A	P	S	I	S	G	F	V	L	T	H	G	T	G	A	L	A	E	A	F	F	L	S	L	C	W	D	L	D	V	P	L	V	V	T	G	A	Q	R			
UniRef90_C1B6A9	R	S	G	A	A	L	V	V	T	C	H	G	T	D	M	L	E	E	F	A	F	A	L	D	V	Q	W	S	R	P	I	V	L	A	T	G	A	M	R			
UniRef90_UPI000455F381	Y	S	V	F	D	A	F	V	L	L	H	G	T	D	T	M	A	Y	T	A	S	A	L	S	S	F	L	L	D	L	G	K	T	V	I	L	T	G	A	Q	I	
UniRef90_C5P4J6	Y	T	L	F	D	G	F																																			

UniRef90_Q8ZY04 S S D R P S T D A V L N L K A A I A V A R A P F A E S V V V M H K T S G D T H R
UniRef90_H2S088 P I Y Q V R T D G I D N L L G A L L I A A G T Q F V I P E V V L Y F H N K I L Y R
UniRef90_UPI000368D3A4 A G D A V P D S D G P G R N L R D A D A V E A A A R T S A E A R D L G V L V A F F G G R I L P
UniRef90_MOQIT1 S T F A L V D S T D A T D N L L G S L L I A A G R T F I I P E V V C L F F H H T L Y R
UniRef90_J3P341 P L A E V Y T D A R N D N L L V T G S L L F A A C R F Q D F I H E V M I F F F A N K L L R
UniRef90_W7U8P8 P L S E L L K N D A V D N L L G S L L V A G H R F Q I S E V M I F F F A N K L L R
UniRef90_J9J0K1 G P E A A G A D G P A N I L L A S V I A A S S D Q Q A R S R G A L V V M N D G C I H T
UniRef90_UPI00036A5F9E S A K Q A G A D G P A N I L L D A S C R V A L A E F N S R R R R G V Q V V M N G Q I H F R
UniRef90_J2ZJC0 S I F A L Q S D A V D N L L G S L L I A A G T F V I P E V V C L F F H H T L Y R
UniRef90_UPI00047E9B39 R A D Q P G A D G S A N L L L A A C R V A V S P E S R G K G V L V V D D E I H A
UniRef90_Q8FNV4 P A D H P E A D G P G N L L F E A C L I A S D A S A R G I G V L V V F F G H A V L P
UniRef90_C6WZB9 P I G D L R T D A K E N L L L T S L Y Y A E N D E A V I Q E V T V V Y F F G A K L L R
UniRef90_S8BH64 P M L Q L Q N D A T D N L L G S L L V V A G H F M I I P E V V C L Y F F N N K L L R
UniRef90_I2G6G4 P L S E L R N D A T D N L L G S L L M L A A G S Y I I P E V V G L Y F F A S T L Y R
UniRef90_UPI00046F6A87 P S T A V S D A D G P L N L Y N G V A V A A S D P N A R N R G V L L V M N D W I H S
UniRef90_F2R5J9 P F G T G D G D G P G N L Y D A L Q V A S S V S D L G V L V V F D G R L V H A
UniRef90_F6CXA5 P L G M N R S D A T A N L Q A A L S L A V L Q P I P D D L G V S L V V F N G K L M R
UniRef90_UPI000344F131 P P D H D R S D A P A N L R D A L A V A A C G H I D L G V L V V F D G L V H A
UniRef90_V6UZM9 S A C Q P G A D G P A N L L A A V Q V A I A D G S R G R G V L V V I N D Q I H L
UniRef90_F2UXU4 P L G E L G T D A A A N V T G A L K A A T S G R L S G V A L Y F F G H R L L A
UniRef90_W5IMX7 P A G A P G S D A W A N L G G A L D V L E G G Q A N G V Q L Y F F G G A L L H
UniRef90_F8JJC7 N P T L A G A D G P A N V L A A V R V A A D P A A R G L G A L V V F N D Q L H A
UniRef90_G5GZl8 P L G T P D S D A E K N L R L A C R T A C S S F A G R L S G V I A F A G D E I H A
UniRef90_UPI00034531AB N P T L A G A D G P A N L L A A V Q T A A H P G S R D H G V L V V L A G D E I H A
UniRef90_B4NKK4 P I F E T R S D G R D N F V G S L L L A G N Y N I P E V V V V F F G N R I L R
UniRef90_N2JIN7 P A G V P D S D A W E N L D G A L Q T L A G G A P E I P E V V H V Y F F H G A L L H
UniRef90_BOWNG8 P I F E T R T D G R D N L V S A L L L V G N Y D I P E V C V Y F F N A Q L L R
UniRef90_R7Q8Z1 P M A M P R S D A R Q N L V D A V T V A C A D Q L Q E F A L C F F G G T L L R
UniRef90_R7WNI1 P A D A A D S D G P R N V R D A V A V A A T P Q L R G L G G A I V F F D G V V R S
UniRef90_A0ZZF7 P L G K I E S D A T A N V T G A L N A A M S G R F H G V G L V F F G H V L F A
UniRef90_D6WSZ8 P I F E T R S D A K D N I L S S L L L A G C Y K I P E V C I F F A N K L L R
UniRef90_G2G412 T A E M A G A D G P A N L V A A V H T A A S P S A R G L G V L V A F A Q N L H A
UniRef90_UPI0002655B65 P I H A L W S D G R E N L L G A L L M A G Q Y V I P E V C L F F A D N Q L F R
UniRef90_UPI0002F7589F S P A E V G T D V F S N L K N S I Y A A S S E L L H D A G A V V V F N E R I Y S
UniRef90_W9WY11 P F S E R K N D A L E N L L D S L D I A G H F M I P E V C L C F F N S T L F R
UniRef90_C1FD11 P L C M P R S D A R Q N L L I D A V T C A T A G F S P P H E V A L C F F G G V L L R
UniRef90_C5FHQ2 P M L Q L Q N D A V D N L L G S L L V I A G H F M I P E V C L Y F D G K L F R
UniRef90_K0VDC7 S A D A P Y A D G P D N L R H A V T V A A D P Q A R G L G V L V V F A G N T V W Q
UniRef90_U6lPJ3 P I G E L R S D G R E N F L G S L L I A A G D Q I V C E V T I Y F F N S K L L R
UniRef90_E5S4E4 P A S D H P R S D G G A R N L L T D A A V R E T A L Q P P R P G G V T L A F F G G R V L P
UniRef90_A1B9W4 T A D H P R N D A T D N L L A M A A I L T A G H Y T Q T N A E R G V L L A S F G G R V C L P
UniRef90_F0LCU4 P L S Q L R N D A T D N L L M A G A L L T A G H Y T S R R A V I P E C C L Y F F N H T L Y R
UniRef90_D8PU75 P L G V V G S D A A K N V T G A L R A A T S R R A V I G V S I C F F G H K L L A
UniRef90_F9ECC9 P L A A P R S D A L K N L E M A L L L A A A Q H P I R E C G V L V C F F G R K L L R
UniRef90_I3X5T7 A A D S S H P D G P D N L A D A V A A A A S P A L R E C G V L V C F A G Q V L R S
UniRef90_I6WVF5 P N T A A S D A M V N L R A A I S A A T Q A P A G V Y A C M N G Q L F A
UniRef90_A3U0T5 P F D D P D G D G P Q N L L E A V L T A G E P S A R D I G T L I V F G H A V L P
UniRef90_S2ZIU1 P L G M E G S D A E A N L R L A A R A A L S G H S G V M I A F F G G R I I H
UniRef90_C4V4V7 P I G D L R T D A K E N L L T S L Y Y A S F Y E A V I Q E V A L Y F F G K L L R
UniRef90_X5K5L2 S M F A D S D G S D N L L G S L Y V M A S H L R I P E V C V Y F F G H K L L R
UniRef90_F9X5S2 P A S A Q G A D G P M N L F H A L T A A A D Q R L G G S V A V A F D G V L H D
UniRef90_Q0FNT9 H P G L P S A D G P A N L T A A L R I A S E F P S L T E L G C C L Y F M N D R I H S
UniRef90_C1B6A9 P L S Q L R N D A V D N L L G A L L T I A G S F I I P E C S L Y F N H T L F R
UniRef90_UPI000455F381 P M L E L Q N D A T D N L L G S L L I A G H F M I I P E V C L Y F N H N L F R
UniRef90_C5P4J6 P W S A P D S D A P G N V E A A W A L L H Q P A F R E V G V F A N R Y R S
UniRef90_UPI0003735925 P S T S V S D A D G P M N L Y Q A I C I A S N P K S R G R G V L V S L N D Q I S S
UniRef90_E7NG28 S A N E L G S D G I Y N Y L S A I R V A S H D K A A D K G V L V V M N D E I H A
UniRef90_UPI0003601849 P M R E I R S D A P N N F F G A L R C A A F I P I A V I T V F F D G S L Y K
UniRef90_F1L451 R L D E P A S D V P A N L A L A V R A A A D D R F A P G V H V A F D D E L H T
UniRef90_M0EHR3 P P S Q P G S D G P A N L L A A T Q V A L A H A S R G R G A L V V I N D Q I H C
UniRef90_B1J1H8 P F D D P A P D G P R N L A S A L R W V V G D P A R A T G T G V V V F D G K V V P
UniRef90_UPI000345B12C G P Q Q A G A D G P A N L L A A A I A A A S E A A R G L G T L V V L N D E I V A
UniRef90_D6ZZH0 P L S S P Y S D G Y F N L A G S I I C A S Q L Q I P E V T V F I N N K L M R
UniRef90_V6LVX1 G P E E L G A D P L A N L Y H S V L L A T H P K A Q G V M I V M N K I M H
UniRef90_D3UJL7 P A S E K N S D A P L N L Y T A L K F A E T G I R G I Y I A F N G K V L L
UniRef90_Q9V2K1 R F D E P G S D A P A N L L T A V R A A E D D R F A P G V A V A F D D E L H P
UniRef90_V4IXC4 P G T A M S A D G M L N L Y A V A V A S S K E A Y G K G V L V T M N D E I Q S
UniRef90_UPI0003755C0A N A A S A G A D G P A N L L A A V Q T A G S A E A Q G A G V L V V M G D E I H A
UniRef90_UPI0003732EA7 S S N E L G S D G V Y N Y L S A L R V A S D E K A R G K G V L V V M N D E I H S
UniRef90_I0S8S5 P I R E M R S D G L Q N L L T S L E I L T E C L P V V P E V C I F F R D H L F R
UniRef90_D0GKH2 P A G A P G S D A W T N L F G A M Q A L Q Q G V A A G V Q L Y F S G R L M H
UniRef90_UPI000468063F S S D A P D A D G P A N L R D A L A V A A S P K T R D L G V L V T F A G T V W Q
UniRef90_UPI000476602C P I F E F R S D G W G N F L G A L L I A A G G S Q P I P E V T V F F H D N L F R
UniRef90_G7YK21 P A D S L H A D G P A N L S A I A A A V D P L S R R R G V L I A M G S L V P
UniRef90_V8CVZ2 P L G M P E S D A L R N I R G A L A F A A L P E L Q Q V A V F F Y D R L L R
UniRef90_G9ZBB3 P L F E A G S D A P A N I R L A V S A A R Q A G L C E V V V P F A G R L W R
UniRef90_C1D9J0 P L S Q L R N D A V D N L L G A L S I A G Q Y I I P E C C I F F N G C L Y R
UniRef90_UPI000440791D P M M E L Q T D A Q D N L L N S L I A G H F M I I P E V C L F F D S K L F R
UniRef90_Q0TYG0 P S D A A A P D G P D N L F D A C T I A L D P A A R G M G V L V V L G H K V L P
UniRef90_UPI000365888B R F D E P G S D A P A N L L T A V R A A V D D R F A P G A H V A F D D E L H A
UniRef90_M0DDM5 P A S A P G A D G P A N L R D A V R A A T A P S A R G V I G V L V V F D A H A H L
UniRef90_UPI00026C6E9C P I F Q P R S D G N N L L C A V L I A A T Q R I P E V T V F F G A K L F R
UniRef90_H9JTY3 P L A M A R S D A R Q N L I D S L T C A T A Y H I Y F Q E V A V C F F G R L M R
UniRef90_A0A059LPQ9 S S D R P S S D T K E N M E G A I N F A A T D L G E V G I A M H K G I S D G H R
UniRef90_Q979L8 P I Y E T R S D G R D N F L A S L I T A G N Y I I P E V L T C F F N G K V I R
UniRef90_UPI000359B199 P F N H P E S D G P G N L F E A V M I A S D T S A R D I G A L I V F G H A V I P
UniRef90_H2G5G3 P A D A I V A D G P S N L L L A A R L V I F H L S D E P S G V Y A L L N E T V H A
UniRef90_L9X535 N P T L P G T D G P A N V R S A I T T A A D P R I Q M L P A V L V F A D E H D
UniRef90_D4YL18 P L R A P R T D A R Q N L L D S I Q V A T S A F I P H E V A V C F F G K L M R
UniRef90_D8TR59 P L N G T S S D A S A N L I A A F R A A Y M C K H K Y E G I L V V L N N E I H L
UniRef90_A0A010QZW8

UniRef90_Q8ZY04 G T R V R K M H T S R R D T F Q S S I N T T P L A E Y Y P E K E L L Q V L T D V Y
UniRef90_H2S088 G N R V T K V D N R S F N A F S S P N L A P L A N A A I D I T I N W D T V L R A
UniRef90_UPI000368D3A4 A H G V R K K V H T A N L D A F D N Q A W
UniRef90_MOQIT1 A R G T R K V H T T A L S A F D S V I G G S V G D V S A G T V S I T S T P R R P
UniRef90_J3P341 G N R T T K V S A S A F A F A F D S P N F P P L A K V T S L G V D V N W S L V R R
UniRef90_W7U8P8 G C R A T K I L E S F D L Q A F A S P N F P P L A T V G V N L E I S S H F S L
UniRef90_J9J0K1 G N R T T Q K E S T S D M S A F T S P N F P P L A L G T F G V D F D M N W D Q T
UniRef90_UPI00036A5F9E A R A V T K S H T G L C S A F T S G A V G P A G E I M E G R P F F F A P P S P
UniRef90_J2ZJC0 A R C V R K T D S L A L Q A F S S P I F G P A G L L V E N H V G Y L C
UniRef90_W3X550 G N R T T K V S A S Q F A F D S P N C E P L A K V T S I G I E V N W S L I H R
UniRef90_UPI00047E9B39 A P L T R K A H S F R P H A F S S L P F G P L A G Y V A E D R V R F A L A P A R R
UniRef90_Q8FNV4 A R G C T K W H T T D E L A F A T N G P E
UniRef90_C6WZB9 G N R T L K Y S A E Y F D A Y Q S P N Y P T L G Q S G V H L N I E K D F L Y R P
UniRef90_S8BH64 G N R T T K V A A S D F N A F D S P N C P P L A V T T S M R T N V K W D M V H R
UniRef90_I2G6G4 G N R T S K V S N N A L A A F D S P N M A P L A R V G I N I E V A W N L V E R S
UniRef90_UPI00046F6A87 A Q T L T K V S T A V Q T F M S P I R G L I G T S A Y G K N E Y A
UniRef90_F2R5J9 A R G T V K T Q T L A A D A F S D P S A E R L G R V G F S R V D I E R Q P E R P
UniRef90_F6CXA5 G N R T Q K V S S G R F E A F H T P N N D L L G E L A I H V Q L Y P E R M S E W
UniRef90_UPI000344F131 A R G T A K Q H T L A V D G F G D P S G P R I G D V S Q G R V L V R R R P P R R
UniRef90_V6UZM9 A A R V R K T A S L A M A A F E S P G A G A I G E V E E G C P L Y R Q A A A P R
UniRef90_F2UXU4 G N R V T K S S W A F T G F E S P N A A P L A T T G A P W Q W A P S
UniRef90_W5IMX7 G A R A T K L H S E A F D A F T T L P R H R D G Q R A
UniRef90_F8JJC7 A R W V R K T H S T S T A T F A S P D L G P I G Q V V E D T V R V L A R P P R Q
UniRef90_G5GZl8 G N A A K K I Y S L A D D A F R S I G R P D I H L E A
UniRef90_UPI00034531AB A R H V R K T H A T S G H T F Q S P N T G P L G H L V E G N P H F D I H L E A
UniRef90_B4NKK4 G C R T S K V S S D S F N A F D S T N Q M S L G R T G I N F E I N N R Q I F R P
UniRef90_N2JIN7 A A R C S K I R S F G R H P F K T L A R Q R L A Q P R
UniRef90_B0VNG8 G N R T I K V N C D S F E A F G S P N L A P L A T M G V N V E I N E G L V R R A
UniRef90_R7Q8Z1 A N R A L K T K S A Y R A F S S P T Y P P L A T L G V D I E W D F S A L W K D
UniRef90_R7WNI1 A R G V R K A H T L A S D P F D G G T V V A H L E G E A V R V A A L P V R R
UniRef90_A0Z2F7 G N R V S K S S W A F E G F S A P S T G P L A R T G T P W H Y A G D S A G S
UniRef90_D6WSZ8 G N R T A K I S S I H L N A F D S P N Y Q P L A E V G I D I K V N K H F I L Q P
UniRef90_G2G412 A R H V I Q K V H S T S T A F V S P G A G P V G H V V E G Q P R F H F A V P R Q
UniRef90_UPI0002655B65 G N W T T K V D S T R F A F C S P N L P P L A T V G A D V T I N R E L V R R V
UniRef90_UPI0002F7589F A K Y V K K V H A S N L Q G F E S F G Y G Y L G I I D N D V S V Y Q K P I R
UniRef90_W9WY11 G N R T T K V S A S A F D A F A S P N F P P L A K I T A V G T H V E W N S V K R
UniRef90_C1FD11 G N R A R K K S A T I Y S A F D S P T Y P P L A R L G V G L E W K R D A L Q F
UniRef90_C5FHQ2 G N R T T K V A A S D F A A F A S P N A P P L A T T S S M K T D V A W D L V K K
UniRef90_K0VDC7 P L G L H K R H T A E L D A F T S G R A L G R V V D G R Y E A V A
UniRef90_U6IPJ3 G N R S V K C S A T D F D A F T S P N Y P P L A R I G I D I K F H L S N I R R C
UniRef90_E5S4E4 G N R T T K Y D N N S L D A F C S P N V P P L A T M D I R V N V H W E A V F R
UniRef90_A1B9W4 V W G L Y K E T S D A P D A F R R V A D
UniRef90_F0LCU4 A W G L Y K L S A D A D A F R S A P
UniRef90_D8PU75 G N R V T K V S S D E L A A F D S P N F A P L V K V G I D I V V N W N D V I R Q
UniRef90_F9ECC9 G N R A T K T S S W A F D G F T S P N A V P L A V T G A P W Q W T R P
UniRef90_I3X5T7 G N R S R K I A T D R F D A F D S P N Y P P L A E S G I K I V L H R E L L A
UniRef90_I6WVF5 A R G V R K T Q T W E L T A F D G G T L V A E M R D G E A H V L A R P R H H P P
UniRef90_A3U0T5 A S D V S K T S N F A L D A F E A P E F G P L G R I E A D G T L F M A R P
UniRef90_S2ZIU1 A R G A L K F H T S D E L A F G T N A P E
UniRef90_C4V4V7 G N A A K K I H S R A D D A F R S I G R A E I D L N E A
UniRef90_X5K5L2 G N R C I K A S A E N F D A F K T P N Y P P L L G Q S G V N L E A D R N I L Y R A
UniRef90_F9X5S2 G T R I T K I S A S S Y S G F E S P N A G P L A T V I S E T G I V V H W D N L Q H
UniRef90_Q0FNT9 P R D V T K I L D N S A L D T F R S P R F G P L G R F A G S E L D L F A R S
UniRef90_C1B6A9 P W L Q K R H T S N A D A F T S V H S G P V G E V C E N L V H I Y S P P A R R
UniRef90_UPI000455F381 G N R V S K G S S N D L N A F H S P N F P P L V N V G I D I E V N W D V I R R Q
UniRef90_C5P4J6 G T R A T K V A A S D F A A F A S P N F P P L A V T T S M R T H V K W E Q V H K
UniRef90_UPI0003735925 A T R V I R K L D C S A D E A F D S P N A P T L G E Y V G R Q W R L D A L R L T
UniRef90_E7NG28 G Y Y I T K T N A S L D S F N V R Q G Y L G N F V N N E I H Y Y Y P P V K P
UniRef90_UPI0003601849 A K Y V T K T H T T N V A T F N T P T H G P L G I I M K H E I L F F
UniRef90_F1L451 G N R V T K T S S T A M H A F E S P N H P R L V R F D A F H Y D S C L N A K T
UniRef90_MOEHR3 A R D V A K G H S N A L S T M T S P G A G P V A T F T R A S R L V R T P E R G
UniRef90_B1J1H8 A T R V R K T A S L S M A A F E S P G S G S V G E L V E G L A V Y R Q P C P R
UniRef90_UPI000345B12C A V G A R K K H T L G L D A F R A P G R A S V A S V D A D G V R V H A T A P E V
UniRef90_D6ZZH0 A R F V R K A H T A L T S A F V S E N A G P L G L V A E G R A R L F T R V A P L
UniRef90_V6LVX1 G N R S Q K F S S W S L D A F D S T Q M Q P L A E F G I T L N Y R R D L V R N F
UniRef90_D3UJL7 P L F V Q K R H S L T L D T F D S L H Q E W G V T L E N H I E F Y
UniRef90_Q9V2K1 G V R A S K V R S M N F D A F E S I N Y P L I A K L E D D I K I L H I
UniRef90_V4XC4 A R D A V K R H T N A L I S T F G S P G K G P A A T F T R A G V D I H R P L R P P
UniRef90_UPI0003755C0A G R D V S K M I N I K T E A F K S A W G P L G M V V E G K S Y F R L P A K R
UniRef90_UPI0003732EA7 A R H V K K L H T T S P G A F G S P N T G P L G D V A E G S A R F H R L S K P I
UniRef90_I0S8S5 A K Y V T K T H T T N V N T F Q T P T H G P L G L I M K K E I L Y F
UniRef90_D0GKH2 G N R S R K L D S T N Y F G F S P N Y L P L G Q A G S K I K V Y E R L L P Q
UniRef90_UPI000468063F G A R V S K L G S E T F D A F S E P N Y R Q R L G V R A
UniRef90_UPI000476602C P L G L R K D S T V N L A G F A G T A V G A V T A G M F E P G V
UniRef90_G7YK21 G S R L V K C S S D Q F H A F A S P N Y P A L A I C G T E I T F F P E L V F R P
UniRef90_V8CVZ2 A R G T A K G E A A D A P F A T V R A D L P R A L L P P T S I
UniRef90_G9ZBB3 G E A T R K V D A Q S Y A G F D S P N A D W L G V F D G N T V Q L S T P V F R E
UniRef90_C1D9J0 G C R V R K A H S L A D A A F V A P N D L P L F D A G G W H P E R F
UniRef90_UPI000440791D G N R V S K V S S Y D L D A F N S P N F P P L V N V G I D I V V N W N V I R R Q
UniRef90_Q0TYG0 G N R A T K I S A E D F N A F G S P N L P P L A T V I S S T K T N V L W H R V H R
UniRef90_UPI000365888B A R G T V K E H T S D L A A F A Y R G P P
UniRef90_M0DDM5 A R D A V K T H T N A L D T F Q S P G K G P V A T F T R A T T R L H R D P A R A
UniRef90_UPI00026C6E9C A D R V V K A S S R G V S A F A S E P S G P L A I V G G E D L R L L H L P
UniRef90_H9JTY3 G T R V K K V S N T R L Y A F D T P N F P P L L E A K T T L E V D P K M L I H P
UniRef90_A0A059LPQ9 A R F C R K V S S A Y A F D S P S Y P Y L A S M G V D V E W Q P R N L L H C
UniRef90_Q979L8 A V R S R K M H T S R R D A F E S I D T V H L A E Y T S S V R F F S D
UniRef90_UPI000359B199 G N R C I K S D S G F S A F S S P N M P P L V T L E I E I K V D W T A V F R
UniRef90_H2G5G3 A R G C I K W H T S D D L A F A T N G P E
UniRef90_L9X535 A R D I M K S D A W S L E T F S S G S P G P I A R F T D D E I L I Y R E P G S Y
UniRef90_D4YL18 P S L V R K T H T T S V S T F S S G P G P L G W V S E D R L V F L H M P A T L
UniRef90_D8TR59 G N R T Q K V N S A Y Q A F D S L T Y P Y L A T L G I D V D W N T R V L L R V
UniRef90_A0A010QZW8 P R F V T K T H T Q N H D A F K S P N F K S I G R I I K G E V K F D E L M Q P K

UniRef90_Q8ZY04 K E R G G L D 210 Y T A K F E E A V A L V K F Y P G M H P R L L E A F L L E V G M
UniRef90_H2S088 N T T A K F Q V S T E L N S N V G L L K L F P G I T T A T V R A F L Q P P M
UniRef90_UPI000368D3A4 N D R R R V T V P A A P L G P L D R V P L V L A A Y P G A D G A W V V R A A V A E R G V
UniRef90_MOQIT1 K L P R R R T V D F D R I G L D V D L V E T Y P G A D A A L I R A A A V A E A G A
UniRef90_J3P341 P T R L A G F Q V K T Y L D T Q H V A C I R I F P G I K P E M L D S V L H E G L
UniRef90_W7U8P8 P P R K T M R V H K K M D S N L N I V I R L V P G F E D D S L I A M V I H S T
UniRef90_J9J0K1 H R F M F E G K M Q A F T N M S N N I S L S I S P L F N C R V I E S I L D K S
UniRef90_UPI00036A5F9E R R R L P A I A P P S E P V P P V A L L K L G L G E D A R L V E A L P G L G Y
UniRef90_J2ZJC0 P S V P R S V M P L P Q H T T T H K V A L L E A S L S A D T P L L E N V L K L L G Y
UniRef90_U3X550 P T A I A Q F K I T P Y L D T T H V A C Y R I F P G I K P E M V D F V L R V P L
UniRef90_UPI00047E9B39 P P P L A Y G E G A P V V P T L E A G P G L E P Q T I E M L A P G A I
UniRef90_Q8FNV4 E P E R P D P L Q L H A P L A D V T V E L I P A Y P G A S G A S V Q A A L D A G A
UniRef90_C6WZB9 K Q D E E F S V D D H I S R D V L F W R I F P G M H L D H F E I P K M
UniRef90_S8BH64 P T T L E H F R I Q T N L D T A H V A C L R I F P G M K P E M V D A V L K E G L
UniRef90_I2G6G4 R S V K S F R A H D R M S P N V A V L R L F P G L P T S T V K S F L S P P L
UniRef90_UPI00046F6A87
UniRef90_F2R5J9 H T A V P G A T G P D A V P L P R V D I I T H H S D G D P F L L N A A V A A G S
UniRef90_F6CXA5 P R V T N L D D K L V T F Q S G A V A V V T L H P T S Q P I S L Y Q S L L D A D K A
UniRef90_UPI000344F131 P A L A L P S D V P V P R V D I V T H H T G A D P L L L R A A V A G A G A
UniRef90_V6UZM9 W V L P L P T Q V D H Y A R Q V V V L L E A C L D A D T R L L R A F G A M G Y
UniRef90_F2UXU4 T R G G A G W K D A A P Y A R H D V V V V D L V P G I T A A R L E A L L T P L P
UniRef90_W5IMX7 G Q V P P V L D Y R Q P R Y Q P V R L A V Q P L F P G L T A E Q L E A V L N S G V
UniRef90_F8JJC7 P P L T R A G I A E H L D A T R V A L Y T A T L D D D G A L L D V V A E G H
UniRef90_G5GZl8 P S A P A T G F R L R D A L D T R V A V I R L Y P G M K P V T I D A H I A S G Y
UniRef90_UPI00034531AB P A A R A T G L D L T A L H T D R V A L V T V V F G D D G A L V H D L A A W A
UniRef90_B4NKK4 C N I E K F T V H A V T M E K N V A L L R L Y P G I S Q N V V R A L L S D P T
UniRef90_N2JIN7 Q A V P A E L K A G Q A R Q V A Q V A V L P L F P G I S A Q H V S A L V G T G V
UniRef90_B0WNG8 A S G E P F G V Q S K M D E R V G L R L F P T I S A G D L V R A T L E K L
UniRef90_R7Q8Z1 P G V Y R P R I K L E R N V V R I P V V P G L R P Q T I G Y G D L V A R G V
UniRef90_R7WNI1 P P L P G P G P R F D G T R V D I V T A Y P G A R P D L L H A A V E A G A
UniRef90_A0ZZF7 G C G W A S P L P Y S R H D V A V I D M A P G I S A R L A A M L D P R P
UniRef90_D6WSZ8 T S P F Q V H T K L N S N V G L L S F F P T I T P C M F R A I L L Q C P V
UniRef90_G2G412 A P V A L P Q V V P A S V E V I Q A T L G A S V A L L D A A A G L A D G L
UniRef90_UPI0002655B65 S R K A E L V V H G S M E Q D V G L R L X P G I P T A L V R V F L Q P P M
UniRef90_UPI0002F7589F K D N F N I S S D L P R V D I I K H T G S D S I F I E A S V Q A G T
UniRef90_W9WY11 S T S L E A F S I T Q S D L E I H H V A C L R I F P G I K P K M V E A V L R T G L
UniRef90_C1FD11 R A H R R V A Y T P R K L E P S V I R L P I V P G C D P K K A Y G D L A R G V
UniRef90_C5FHQ2 P T S I Q H F R I R T N L D T T H V A C L R I F P G I Q P E M V D S V L R P G L
UniRef90_K0VDC7 T K R R P F L G E F S A A T A P R V D L V A A Y P G A D P V A L D A C V A A G A
UniRef90_U6IPJ3 P G E G R S L H V I E S L S R N V A M L R M F P S I S A K T V E N F K V P I
UniRef90_E5S4E4 S T E M K K M T V Q V E M N P N I A L R I F P S I S C D C I R A F F A P P M
UniRef90_A1B9W4 E G A T V T R P L P A P V D G L R V D I V A T H P G S D G L H L E A S L Q A G A
UniRef90_F0LCU4 A A H T A A L E L A V P L A D L R V D I V A I Y P G C D A A H I E A S L Q A G A
UniRef90_D8PU75 T S L R R F K A H K D L S S K V V T I R L F P G I T A A M I S V F C A P P V
UniRef90_F9ECC9 S E A G T G W P H P K P Y E R H D V V V I D L A P G I T A A R L R A L L S P L P
UniRef90_I3X5T7 A E A K A F F L P K H F E P E A V A L T I H P G L S S P V V E V A L L S P H L
UniRef90_I6WVF5 L P L P T E S F D N V R V E I V P C F L G A T P R V L A H V I D D G A
UniRef90_A3U0T5 P V P A R R I L A L P E G A V P R V D I A L S Y S G S D G A A I R A L T A A G A
UniRef90_S2ZIU1 E P E R A D P V E P V K L G D V R V D V L Y A Y P G A P R D L I D S V L A C G C
UniRef90_C4V4V7 P I P S A P F H L N E T L E R R V A V L R L Y P G M S P D A V T S C I R N G C
UniRef90_X5K5L2 P K D E T F D L D L H I S K K V E L L W I F P G M N L N E V E N F I A S E I
UniRef90_F9X5S2 P T P A S K D V V E I V D S S R V V L K I Y P G L T A D L V D L I F S P N I
UniRef90_Q0FNT9 A A P G P F L P W H R L G A L P R V D I L H C H S D G D A A A T E A F T A A G A
UniRef90_C1B6A9 P S I T V P F D A E F P P V A V L K T A L A D D G R I L E P L V A L L G Y
UniRef90_UPI000455F381 T S L R R F K A H K N L S P H V A A L R L F P G I T A A T V R A F L M P P L
UniRef90_C5P4J6 P T T I K H F S I Q M N L D T T H V A C L R I F P G I K P E M V D A V L R P G L
UniRef90_UPI0003735925 Q V P A V V D R L Q P L N P D W Q V L S V R L A P G F N A R W F G E Q L Q A P P
UniRef90_E7NG28 Q G C H K F R V D G K H F K L P E V C I L Y A H Q A F P P
UniRef90_UPI0003601849
UniRef90_F1L451 H T N A P F R V I C H D L C R D V S V L R I Y P S I K P E T V A R H L Q L P M
UniRef90_M0EHR3 V P V D P L A D I E S P A D V P E V V I H S G T G V G S G A L E R A L L D A G V
UniRef90_B1J1H8 M V L P L P E R V G H R V V A L L E A C L D A D T T L L Q A V A A F G F
UniRef90_UPI000345B12C P V L L S P D V E P P R V D V V P Q Y L G A D A T G V R T S V A A G A
UniRef90_D6ZZH0 A L P S L P E G E L P P V A L L K M T M G D D G R L R A V P G L G C
UniRef90_V6LVX1 Q E P D G A G D F K V A D I C D S I G V I H L V P G L E P Q V L E N Y Q S C
UniRef90_D3UJL7 K P F I P L P T Y P A P R N I N K K V L C Y A H S L D D G K E L E W A G S H Y
UniRef90_Q9V2K1 P R I Y G D E F S D F R Y N H K V L V L K L I P G L S G D V F F E A L K I G Y
UniRef90_V4IXC4 D V S L P L S A D A D D V S V P L V S S G T G V G A D G V E R A L L A G A
UniRef90_UPI0003755C0A H T M D S E F D I K N I K S L P D V E I A Y S Y G N V S D T A Y K A L A Q S G A
UniRef90_UPI0003732EA7 G S V P L P A G A L P Q V E I V T A S L G S S G T L K G L E N E A
UniRef90_I0S8S5 K T A E P R V H F H L N K I T G L I P I I P T Y A G M T T E L L D M L D L K R I
UniRef90_D0GKH2 S D R Q F Y V D Y Q I S T D V L M M D V E P G F N P Q I L K K I F E D N S N I
UniRef90_UPI000468063F G V T P A N L D Y R Q P R Q P V S L A V L P F Y P G I Q A A Q V E A L L A S G V
UniRef90_UPI000476602C A K V R P Q L G G L V A A T A P R V D I V A A Y P G S D A A M D A C V A A G A
UniRef90_G7YK21 P A I L D R P F S V H T G L C G D V A I L N M F P S I S T E H V I A F L A P P T
UniRef90_V8CVZ2 A G T R V D I V M L Y P G V D P S I I G W C A G A G A
UniRef90_G9ZBB3 E S A Y L R G A W R G F Q E A A V A T L L I T P G M P S S A F A P L L A D D K L
UniRef90_C1D9J0 A A P S G V R I R V P E S L P A V A L V W L A P G A T L D A A V A T L A L P H L
UniRef90_UPI000440791D T S L R R F K A H K D M S S R V A T L R L F P G I S A E T I R A F L K P P I
UniRef90_Q0TYG0 S T D L S P F T I Q T S L D T G H V A C L R V F P G I T P A M L D A V L R D G L
UniRef90_UPI000365888B E P T R P A A L P V A P L D G H R V D V I A A Y P G A P R D A I D A A L D A G A
UniRef90_M0DDM5 T S E T S L P D G R D A A D Y A D V P V V H S G T G V D G S F I E R V L D G A
UniRef90_UPI00026C6E9C L P R P A R S G G L P P D R F P A V P L L S A G L D E D L A L L D H L P A E A L
UniRef90_H9JTY3 P G S V P N E C R L H D Q L S R K V Y L K V A P T I T P E L L R G V C E G M
UniRef90_A0A059LPQ9 E G V Y R T R F K L N P H V L R V P I L V P G C D P R E A Y G D L A R G V
UniRef90_Q979L8 Y R K A E E E N L L D H L D E K V S T I Y F H P G L V A S D V E N M I E G K
UniRef90_UPI000359B199 P T E K E R F V I H T N M C P N V G L L R L F P G I T S Q T V R A F L Q P P V
UniRef90_H2G5G3 E P R R A D P I A P I A L G D V V V D I I P A Y P G A P R R L V D A A L A G A
UniRef90_L9X535 S S N L S D C D L E A T P E M T V P I V A T G A G A E A P L M E Q A V N G K Y
UniRef90_D4YL18 E G T L T R E A S A Q K A Q V A L V E V T L D D S L A Y V D F L K Q A G Y
UniRef90_D8TR59 P G A Y K P R F E L D P R V L R I P V V P G S D P R I A Y G D L G R G V
UniRef90_A0A010QZW8 L P A N L A F T V Q M L A N S P R V D I V C S Y V G A D S V G I N A Y V K A G A

UniRef90_Q8ZY04 K G V V V I E G T G F G H V G E G V L P A V K K L T D A G V I V A M T S Q T L Y R G G
UniRef90_H2S088 Q G V V V L E T Y G S G N A S P P D L L E E L K K A T D A G V I I T N C Q Q C L R G G
UniRef90_UPI000368D3A4 D G L V I E A A G T G S G N A M S T P G F G E A A R A L H A S G V P V L V A T R V P F P E G
UniRef90_MOQIT1 T G V V I A G T G S G N A M S P S V V I E A A T E L L A S G T V L L V L S T R V P F E G
UniRef90_J3P341 K G L I L E T F G M G N I D G S F T K V I R S A V E R G I V I I N V I Q C C F T N G G
UniRef90_W7U8P8 H G I I L L L Y G T G N G D T S L L E A V K K A T S K D V I L V V L T Q C C F Q Q G
UniRef90_J9J0K1 Q A V I I Q A Y G M G N I P K E L L D L I K K A I E K D V I V V I L T Q C C H K G
UniRef90_UPI00036A5F9E K G A V I E A M G A G H V A E R L S E P L G A L A A T M P V A L A S R T G N G G
UniRef90_J2ZJC0 D G L V I A G F G A G H V S E S W A A M I E V I A G K I P V I L A T R T G N G G
UniRef90_W3X550 K G L I L E T F G M G N V D G S L T K A I R S A V E R G I T V I N V I S Q C T N G G
UniRef90_UPI00047E9B39 D G L V L S L P G A G H V A E A A P A L E K L S A R M P V V V F A S R T G A G G
UniRef90_Q8FNV4 Q G L V V E A M G S G N V G T A M G A A L G R A L D D G I P V V M T T R V P R G G
UniRef90_C6WZB9 K V L I L E Q V F G S G T I F N H T Q Q T L Q L R R E R G T E I V V V S Q C V S G G
UniRef90_S8BH64 R G L V L E T F G A G N A P S G M I N V L A A I R R G I V I V N V T Q C C L T G G
UniRef90_I2G6G4 E G V I L E S Y G A G N A P A D L L E V F K E A S D R G L V L V N I T Q C C V Q G
UniRef90_UPI00046F6A87
UniRef90_F2R5J9 R G I V L V A T G A G N A T P E I A A A V A D A V A Q G V L V A V T T R V P A G G
UniRef90_F6CXA5 H G I I L M T Y G A G N A T N P A F L A A F L T E A M L R K K I V V N I T Q C C L H G
UniRef90_UPI000344F131 Q G V V L A G T G A G N A T P A F V L G A V A E A V S A G V L V A L T S R V P A G G
UniRef90_V6UZM9 S G L V V A G F G A G H V S E A W A E A L K D V A D S M P V I I A T R T G S G G
UniRef90_F2UXU4 E A V I L R A F G G V G N V P P G L T D V V E R V I D A G T A V I V T S Q C C H E G G
UniRef90_W5IMX7 Q G L L L E C Y G S G T G N E A L L A A L G A A R K R G V L L A A I S Q C C P A G G
UniRef90_F8JJC7 Q G L V V A G F G V G H V P S A L A P R L G A L A G R M P V V L A S R T G G G G
UniRef90_G5GZl8 R G I I L E E G Y G L G S V P E S F L P T L D R A K T R A C T I V L T T R A G S G G
UniRef90_UPI00034531AB D G L V V A A F G G H V P Q Q G L V P V L S E L A E H I P V V L A S R A G S G G
UniRef90_B4NKK4 K G V V I Q T F G S G N V P E D I L D E L R E A V D R G V I V V N I T Q C C A S G G
UniRef90_N2JIN7 Q G L V L E C Y G S G T G P E D F N A F L T E A S A K G V V L L A V T Q C C H E G G
UniRef90_BOWNG8 N G V L M E T Y G A G N I P E D F I G A L R E A S E R G G V L I L N V I Q C C S G G
UniRef90_R7Q8Z1 R G A V I E A F G V G N L P D Q W M D W F K D Q R E K G L E L Y L A S Q C C L T G G
UniRef90_R7WNI1 E A V V L A G T G T G N A G P G F V I E A V A D L T A R G T P V V L S T R V S S G G
UniRef90_A0ZXF7 E A V L L R A Y G V G N V P P G L T D V I A D V L H D G Z V P V I A S Q C C Q Q A
UniRef90_D6WSZ8 E G L V L Q S Y G V G N I P T E L L Q V I E E A V R R E T V I V N I T Q C C P Q G G
UniRef90_G2G412 V I L A A F G G H A P K T W A E P L G A L A T G M P V I L A S R T G A G G
UniRef90_UPI0002655B65 K G V V M E T F G S G N R P D L L Q E L R V A T G H G L V I V N C H C L Q G G
UniRef90_UPI0002F7589F K G I V L E G V G R G Q V T P T M M E A I K K Y A N E I T F V V T S A E E G G
UniRef90_W9WY11 R G L V L E T F F G A G N H D N K L T Q V I S D A V I Q R G I V I V N V T Q C C L T G G
UniRef90_C1FD11 R G I V L E A F G V G N M P T G W I P W L R S Q R K Q G M V I Y L T S Q C C E S G G
UniRef90_C5FHQ2 R G L V L E T F G A G N A P S R M T K V L A D A I K R G I V I V N V T Q C C L S G G
UniRef90_K0VDC7 R A V V L A A M G S G N A G T A M L I E G V R H C R D D G T V I A V S S R V P D G G
UniRef90_U6IPJ3 E G V I L Q T Y G G A G N V P S T R R D I E K A T S E G I V I L N I T Q C C W H G
UniRef90_E5S4E4 E G I V L Q T Y G G G N M P A R R S D A I K D G I K N G Q I V V N C Q C C L R G G
UniRef90_A1B9W4 Q G I V V S A A L G S G N A T P E I L V A A I S R A R A Q G V M V V S S R V P E G G
UniRef90_F0LCU4 D G I V L A A L G S G N A N P G I A V A V K R C A R E G V V V V S S R V P E G G
UniRef90_D8PU75 Q G V V L A A F G A G N A P Q D L L Q A I R D A C D R G V V I V A I S Q C C T K G
UniRef90_F9ECC9 E A V V L R A F G G N V P P G L A D V I A E V I G A G V A V I V A S Q C C Y E A
UniRef90_I3X5T7 R G V V L R S Y G V G N V P A R L L A A L G G A V A R G V T V I N T Q C C V F G
UniRef90_I6WVF5 D G I V L A G T G L G N A G V G F V D E V A R A V A A G I P V V L A S R V A W G
UniRef90_A3U0T5 A G L V V A A G M P G R A A P G D R A A M L E A V A A G V V V V Q S R A L P R G
UniRef90_S2ZIU1 Q G I V V E A M G N G N V P T E F A E G L G D A L E K G I P V V I S T R V P R G
UniRef90_C4V4V7 R G I I I E G Y G L G S V P T S F L P A L Q L A Y E A G C T V V L T T Q C I D G G
UniRef90_X5K5L2 K V L I L R V F G S G T F P K N I E N L N I R A N G T E I V I T S Q C C I S G G
UniRef90_F9X5S2 K G A V L E T F F G A G N M P L S I I P S L S K A V Q R G V A I V N V T Q C C L H G
UniRef90_Q0FNT9 R G I V I A G F A P G Y A T S R Q A K A L E T W V H E G G G I V I A S Q A F G
UniRef90_C1B6A9 R G L V V E A A G G S G V P A W A T P L G K L A R E I P V L Y A T R T G A G
UniRef90_UPI000455F381 H G V V L E T F G A G N A P T D L M E A L K E A C A R G V I V A I S Q C C A K G
UniRef90_C5P4J6 R G L V L E T F G A G N A P N A M T K V L A D A I H R G I V I V N V T Q C C L S G G
UniRef90_UPI0003735925 Q A L L V E A Y G S G N L P E E L L D T L G A L A T R I P V A V C T Q C C L R G
UniRef90_E7NG28
UniRef90_UPI0003601849
UniRef90_F1L451 R G C V I Q S Y G M G N M P K D L H S V L L D A T Q R G C L V V S C S Q C K S G
UniRef90_M0EHR3 G G V V V E G T G L G A G N V T P K G A L G D A L G E A V E S V P V V V A G R P P A G G
UniRef90_B1J1H8 E G L V I S G F G A G H V S S A W S D V L G E L A P N L P V V I V A T R T G S G G
UniRef90_UPI000345B12C R G L V I S G F G A G N T T P D A T T R A C Y E L L G S G V I P V G L A S R V G A G G
UniRef90_D6ZZH0 A G L V I E G M G A G H V P A A V A E I V G E V A A A I P V V L A S R T L A G
UniRef90_V6LVX1 K G L I L Q V F G E G N G S D Q F C E K L G E L H K A G C V I G L V I S Q A H T S
UniRef90_D3UJL7 D G M I L A G Y G A G H T H L Q A R D T L I A I A K K L P V I L C A R T Y A G
UniRef90_Q9V2K1 R G I V I E G Y G V G G I P T N L F E V I S K I S R E I P I V L T T Q A L Y D
UniRef90_V4IXC4 D G L V V E G T G L G N V T P G E L G D A L V R A V D S V P V V V G T R C H A G
UniRef90_UPI0003755C0A K A I I H A G T
UniRef90_UPI0003732EA7 S G L V V A A F G V G H V P E S W C S R L E A L A A A M P V V L A S R I G A G
UniRef90_I0S8S5 D G L V I E A F G A G N L P Q E V A Q K L S R M T A S G L P I A L V I S R C F N G G
UniRef90_D0GKH2 K G L V L R T Y G S G N T P Q N F L E T I R Y I N S G V I L N I T Q C C T V G G
UniRef90_UPI000468063F R G L L L E C Y G S G T E D A A L L A A I K T A H A R S G V V L A A V I S R C P H G
UniRef90_UPI000476602C R G I V L E A M G S G N A G E P I I D G V R R H I A A G V T V A V S T R V P D G G
UniRef90_G7YK21 K G L V L R T Y G A G N V P A A R K D L R S A S E R G V L I L N V I T Q C C Y R G G
UniRef90_V8CVZ2 T G I V L V A T G S G N T H T R V V D A V A D A I G R G V V V V C S R V P R G
UniRef90_G9ZBB3 R G L V L L S Y G V G N L P E R L H A A L R A A I A R G V C V V N V S Q C L R G G
UniRef90_C1D9J0 A G A V L A G Y G A G N V P D A L A P H L L A A A G R G V V L A T V T Q A W Q G
UniRef90_UPI000440791D Q G V V L E T F G A G N A P Q D L M E A L R E A S E R C V V V A I T Q C C S K G
UniRef90_Q0TYG0 K G L I L E T F G A G N T P S A M T R I L A D A V K R G I V I V N V T Q C C L S G G
UniRef90_UPI000365888B Q G I V V E A L G A G N T G T D L A R G V E E A L R R G I P V V V T T R A A H G
UniRef90_M0DDM5 D G V V V E G A T G L G N T P G L G E A V A D A V E A V P V V V S R C H A G
UniRef90_UPI00026C6E9C A G L V I D G V G M G H V S P A A M P R L R R L L G E G V P V V V A A R P F G G
UniRef90_H9JTY3 E G V V L E T Y G G N G N I P K E I Y K E I E R A V K N N V L V V N V T Q C C I N G G
UniRef90_A0A059LPQ9 R G L V L E S F G V G N M P A G W L P W L H D Q R K K G V I M S M I S Q C S L G
UniRef90_Q979L8 H A V V I M G T G L G H I A K D L I P V F K N F T K D G N F A I M T S Q C C I Y G
UniRef90_UPI000359B199 Q G V V L Q T Y G A G N A P N R T D L L K E A C W G V L I V N I T S Q C S R G G
UniRef90_H2G5G3 Q G L V I E A M G S G N V G T D I G V A L G E A L D A G I P V V I S T R V P R G
UniRef90_L9X535 D G F A V Q H S G R G G T S P A I S D A V E A T L D A G I P V V S S T R N F D G G
UniRef90_D4YL18 S A A V L A G V G G H V P V N V L E R V T A L A S Q M P V V Y C A R T G A G G
UniRef90_D8TR59 R G V V L E A F G V G N L P D Q W L P W L K D Q T A K G N Q V C L T S Q C S G G
UniRef90_A0A010QZW8 R G I I S M G F A P G L G T P A E K D G L D I A I K G G C V V V Q S V R V L S G

UniRef90_Q8ZY04 R V N L Y V Y R R G I P L E D M L P E T A Y A K M S W A L A N F K R E E V P R 290 300 310 320
UniRef90_H2S088 T V S M S Y D A G V I T G G D M T S E A A L S K L C Y V L A K E L S L D T K K K
UniRef90_UPI000368D3A4 E V A T L G E L G A L P A A S G E L P A T Q A R I A L A S A L A A G V D S P A E V
UniRef90_MOQIT1 P V A G V Y G N G G P A A S G L P A T Q L R I L L A L W I A S H R R E S E Q A R S
UniRef90_J3P341 F V S P L Y A A G V V F G Q D L T T E G A L T K L S Y L L A E G L S Y T E T V G
UniRef90_W7U8P8 G V L L E K Y S V G V A G H D M T V E A C T T K L S Y L L S R G G D L A K I K S
UniRef90_J9J0K1 G V N D L Y E A G A V L G Q D M T L E S C Y A K L S Y L L G K D Y T L D K I K K
UniRef90_UPI00036A5F9E P V F K T Y G Y K G I N A G R L S G L K A R L L L Q L L L A S G G D R E D
UniRef90_J2ZJC0 S T A Q H S Y G F A L M A G F L C P T K A R I L L W L L L G Q R Q D E L A R A
UniRef90_U3X550 F V S P L Y K A G V V F G H D L T T E A A L T K L G Y L L A R G L E P A D V A A
UniRef90_UPI00047E9B39 E T L R A S Y A Y P I P A N G L D A R K A R I A L Q L A L S N R A G R D E I S A
UniRef90_Q8FNV4 E V S T L A A R G A I G S R Y F R A G Q A R V L L A A A I A T G Q H P A T L
UniRef90_C6WZB9 G V S F G K Y S N A V S G H D M T E A S A I T K A M H L L
UniRef90_S8BH64 S V S P V Y A R A G V V A G D M T T E A A L T K L A Y L L A L P D S P E T V A K
UniRef90_I2G6G4 E V S A I Y A V G V V A G D M T A E G A L A K L S Y L L A A K Q L K P T E I R E
UniRef90_UPI00046F6A87
UniRef90_F2R5J9 P L A E I Y T G G G A V T G T L R A A Q A R I A L A T L L A D G
UniRef90_F6CXA5 G V S Q G T Y A T G S M G Q D M T L E A A F C K L H W L I A N G E N Y H S L
UniRef90_UPI000344F131 P V T G M Y T G G G V P S G D T L R A P Q T R M A V L S A L L H H T D P A E L
UniRef90_V6UZM9 P T A R G T Y G F V H M A G W L C P R K C R L L L W L L A G S G R Q A E L A Q
UniRef90_F2UXU4 E V L L G H Y E A G V G S G R D M T L E A A Y A K V Q F L L S A G G L T G D D L A S
UniRef90_W5IMX7 S V V F D T Y A A G V S G G G M T R E A A L G K L F A L L S A G G L D V E E A E R
UniRef90_F8JJC7 P V L R H T Y G A V G S A G L L G P Y K A R V L L R T L L A A G A G R E E T A D
UniRef90_G5GZl8 G A D L T H Y E V G V S A G L L P L E A L Y A R L M I L L A E T P E D K M I K A
UniRef90_UPI00034531AB P L S S T Y G F P G I R A G F L D P L K S R L L W S L L A T G H D G G S I A E
UniRef90_B4NKK4 I V L P H W E I G V V P G Y D M T Q E A A F T K L C Y V L G K
UniRef90_N2JIN7 G V E L D V Y E A G V S G G G M T R E A A V A K L Q V L I G S G L A P E Q V N H
UniRef90_B0WNG8 S V S Q M Y E I G V I S G H D M T A E A A L G K L S Y V L G S E D W D L E M K R
UniRef90_R7Q8Z1 P L N P A L Y R S G S T A R R M T A E T A V V K M M L C L A Y T D
UniRef90_R7WNI1 P V V P T Y G N G G I A S G D L G A F Q S R I L A A L V L S T T P G H A A L R D
UniRef90_A0ZZF7 E V L L G H Y E T G I S G D M T L E A A Y A K I M F L L S Q G V D A A D F G T
UniRef90_D6WSZ8 T V S A T Y E I G V I S G H D M T A E A A L T K L C Y V L G
UniRef90_G2G412 S V L S N T Y D F G I S G G G L E P R K A R L L L L A L L R S G A E L P E I R D
UniRef90_UPI0002655B65 T V T L D Y G A G V V S A F N M T S E A A L A K L L Y V L G Q P D D R E E V R A
UniRef90_UPI0002F7589F K V Y P S Y G Y K G I L G E D Y D S K K A R I K L A V I L A S K S T V N Q
UniRef90_W9WY11 S V N P L Y A A G V V A G G D M T S E A A L T K L S Y L L A L G A S P E S V A K
UniRef90_C1FD11 S G L H P E L Y R T G S S G P M M T P E C A V V K L M L C L A H P D L P
UniRef90_C5FHQ2 S V S P V Y A A G V V A G G D M T T E A A L T K L A Y L L A H D A T P E S V A R
UniRef90_K0VDC7 P V A A R Y E A G A I V V P N V M P A Q A R V L L M A A L A T G R S A A A V
UniRef90_U6lPj3 S V E A K Y S V G V I P G Y D M T P E A A L A K L S Y V L G V S N D I K V R R R
UniRef90_E5S4E4 Q V S P L Y Y E C G V I S G D M T T E A A L T K L A Y V L A K D L T L E D K K A
UniRef90_A1B9W4 L L S P I Y G A G A I H A R L L R P G Q A R I L L A A M L A N G C S E A E T A R
UniRef90_F0LCU4 L L V A S Y A A G A I H S S T L R P G Q A R I L L A A L I A A N S P A E K I V S
UniRef90_D8PU75 S V S A A Y E A G V V P G Y D M S P E C A L T K L S Y L L S K E L S P A A V R E
UniRef90_F9ECC9 E V L L G H Y E A G V G S G R D M T L E A T Y A K V Q F L L S Q G L R G D E L S Q
UniRef90_I3X5T7 A V A Q D T Y A T G V S G G D M T L E A A F A
UniRef90_I6WVf5 P V K P I Y G N G G I P S G D L N A P Q S R M L M A L L L G R G
UniRef90_A3U0T5 G V P V Q P Y A D G L L G G G L G V Q K A R I L L M L A L A S K S S A A D L E D
UniRef90_S2ZIU1 E I S G T Y G G V G G S L P I E A L Y A L L M Q R L A E Q P E G R P L R S
UniRef90_C4V4V7 G A D T R R Y E V G V S G S L P I E A L Y A L L M Q R L A E Q P E G R P L R S
UniRef90_X5K5L2 E I S L G K Y D N A I S G G D L T A E S A L T K A M H L I E N P Y Y K E S F S T
UniRef90_F9X5S2 S V S D A Y E A G I M L G Y D M T M E A A Y T K M V Y L L S C G L S P V E V
UniRef90_Q0FNT9 R V P R N R G H G F L P A A G F S P A K A R I L L Q Y A L A S Q R S P A Q I A E
UniRef90_C1B6A9 P A L R S T Y G G T I P A G T L D G L K A R V L L T V L L A A G A D E K E I R H
UniRef90_UPI000455F381 S V S D A Y E V G V I P A G D M T P E C A L T K L S Y L L C K E L T V E D V R T
UniRef90_C5P4J6 S V S P V Y A R A G V V A G D M T T E A A L T K L A F L L G
UniRef90_UPI0003735925 T V Q L G Q Y A A G S P A A D M T P E A S L A K L Y W V M S Q T P D L A V R R A
UniRef90_E7NG28
UniRef90_UPI0003601849
UniRef90_F1L451 K V E S V Y E S S V I S G Y D M T T E A A F A K L V Y V L G K S D N D E E K R K
UniRef90_MOEHR3 P T E P V Y G T P G T F A G D L P A P K A R V A L S L G L A A G L D R E G I E A
UniRef90_B1J1H8 T T A R A T Y G F V H M A G Q L C P R K C R I L L W L L L G T G
UniRef90_UPI000345B12C P V S G L Y A D G G V V M G D L S P W Q
UniRef90_D6ZZH0 P A E R T Y G Y P G L P A G L L G G P K A R L L L T F A L A A G W E R
UniRef90_V6LVX1 E I K L G S Y A G A K S S Q G M T S E A A Y A K L S Y L L G K N L T Q R D V E D
UniRef90_D3UJL7 S A M K T Y G Y K G I M G G Y L Q P K K A R I
UniRef90_Q9V2K1 G V D L E R Y K V G I P A G D M T K E A T V T K L M W I L G H T R K I E E V R E
UniRef90_V4IXC4 P T E P V Y G T R G
UniRef90_UPI0003755C0A
UniRef90_UPI0003732EA7 P V L T S T Y G F A G S E S D L
UniRef90_I0S8S5 I A E P V Y A Y E G M F V K E L N A P K A R I K L L I A L N A G L Q G Q T L K N
UniRef90_D0GKH2 S V E M G L Y E S N A V S G Y D M T P E A A I T K F M
UniRef90_UPI000468063F H V E F G V Y A A G V S A G G M T R E A A L G K L F A L L G A G L N Q A E V E H
UniRef90_UPI000476602C P I R P D Y G A G A V L V P S L R P G Q A R V L L M A A I A S G Q P V S G I
UniRef90_G7YK21 G V K A V Y E C G V I P G Y D I T T E A A L T K L T Y V L G K
UniRef90_V8CVZ2 E I V A T Y G G G V I S P W L R G P Q A R I A L Q A L L A G G A G H A D V A E
UniRef90_G9ZBB3 E V A G H S Y A V G A A G S R L T P E A V Y T R L H C L L A E S N T R P L A E R
UniRef90_C1D9J0 A V A M G A Y A A S V A A G D M T P E A A L A R L T V L L A T E T D P Q H V R Q
UniRef90_UPI000440791D T V S D A Y E I G I I P A G D M T P E C A L T K L G Y L L S K Q L T E K V R D
UniRef90_Q0TYG0 S V S A L Y A A G V V F G Q D L T S E A A L T K L A Y L L A L N A S P E E V A K
UniRef90_UPI000365888B E V R F D Y
UniRef90_M0DDM5 P T E A V Y G T A G A Y A G D L S T A K A R V K L V L G L T A G L S R E T V E A
UniRef90_UPI00026C6E9C G T T H H Y G Y P G V M A G L L P A P K A R L L L Q V L L A S G A S A D G I R A
UniRef90_H9JTY3 T V L G K A I Y E V V P A F D M T A E A A W A K L C Y V L T K T
UniRef90_A0A059LPQ9 P L Q P E L Y R S G S V A P Q M T P E S A V T K M M L C L
UniRef90_Q979L8 S V D M N V Y S T G I S A G D M V P E V I A V K A M F T L G N Y G R E E F I N
UniRef90_UPI000359B199 N V G T A Y A T G V E S N K V K E A I Y P C L M C A A A Q G A N D V P A L E K
UniRef90_H2G5G3 E V F G A Y G G A G V S T Y F R S G Q A R V L L A I A I A S G V H P A T L
UniRef90_L9X535 P A S P S D E E G T D V I S E D L P V W K A R I H L I V A L T I T S D L E E I R E
UniRef90_D4YL18 R T E A T Y G Y P G I P A G W L D A R K A R I L T L A L A E S G T K I E D V F S
UniRef90_D8TR59 P L H P A L Y R A G Q A G H M T P E C A V K L M F C L
UniRef90_A0A010QZW8 K V I T D S E D H N I I A G N N L S P W I A R I V V Q L A I S K S D E T K E

UniRef90_Q8ZY04	V L T T
UniRef90_H2S088	L M A Q
UniRef90_UPI000368D3A4	
UniRef90_M0QIT1	L I D I Y
UniRef90_J3P341	M M A Q
UniRef90_W7U8P8	L L
UniRef90_J9J0K1	M L S K
UniRef90_UPI00036A5F9E	
UniRef90_J2ZJC0	Y L N
UniRef90_W3X550	R M
UniRef90_UPI00047E9B39	L F T R F
UniRef90_Q8FNV4	
UniRef90_C6WZB9	
UniRef90_S8BH64	K M
UniRef90_I2G6G4	L M
UniRef90_UPI00046F6A87	
UniRef90_F2R5J9	
UniRef90_F6CXA5	
UniRef90_UPI000344F131	
UniRef90_V6UZM9	W L Q Q
UniRef90_F2UXU4	W M
UniRef90_W5IMX7	W F
UniRef90_F8JJC7	A F A R H
UniRef90_G5GZ18	L
UniRef90_UPI00034531AB	V F R
UniRef90_B4NKK4	
UniRef90_N2JIN7	W L Q Q
UniRef90_B0WNG8	R M L Q
UniRef90_R7Q8Z1	
UniRef90_R7WNI1	A F
UniRef90_A0ZZF7	W M R
UniRef90_D6WSZ8	
UniRef90_G2G412	A F E
UniRef90_UPI0002655B65	
UniRef90_UPI0002F7589F	
UniRef90_W9WY11	D M A T
UniRef90_C1FD11	
UniRef90_C5FHQ2	D M
UniRef90_K0VDC7	
UniRef90_U61PJ3	M L R
UniRef90_E5S4E4	L M
UniRef90_A1B9W4	A F E T
UniRef90_F0LCU4	A F
UniRef90_D8PU75	L I R T
UniRef90_F9ECC9	W M
UniRef90_I3X5T7	
UniRef90_I6WVF5	
UniRef90_A3U0T5	L L Q T W
UniRef90_S2ZIU1	
UniRef90_C4V4V7	L
UniRef90_X5K5L2	L F S K
UniRef90_F9X5S2	
UniRef90_Q0FNT9	L F D
UniRef90_C1B6A9	A L E G Y
UniRef90_UPI000455F381	F I A Q
UniRef90_C5P4J6	
UniRef90_UPI0003735925	L F E T
UniRef90_E7NG28	
UniRef90_UPI0003601849	
UniRef90_F1L451	L M S Q
UniRef90_M0EHR3	L F D
UniRef90_B1J1H8	
UniRef90_UPI000345B12C	
UniRef90_D6ZZH0	
UniRef90_V6LVX1	A F
UniRef90_D3UJL7	
UniRef90_Q9V2K1	L M
UniRef90_V4IXC4	
UniRef90_UPI0003755C0A	
UniRef90_UPI0003732EA7	
UniRef90_I0S8S5	Y I E
UniRef90_D0GKH2	
UniRef90_UPI000468063F	W F
UniRef90_UPI000476602C	
UniRef90_G7YK21	
UniRef90_V8CVZ2	F F
UniRef90_G9ZBB3	W
UniRef90_C1D9J0	
UniRef90_UPI000440791D	L
UniRef90_Q0TYG0	R M S Q
UniRef90_UPI000365888B	
UniRef90_M0DDM5	T F E
UniRef90_UPI00026C6E9C	A F E A Y
UniRef90_H9JTY3	
UniRef90_A0A059LPQ9	
UniRef90_Q979L8	V F N
UniRef90_UPI000359B199	L
UniRef90_H2G5G3	
UniRef90_L9X535	
UniRef90_D4YL18	Y F R Q
UniRef90_D8TR59	
UniRef90_A0A010QZW8	

1 10 20 30 40
UniRef90_Q00WU7 P R V L M F H C G G T L G M G A E S F A E R G G G K Y R A L G S N D V L D V
UniRef90_E3B794 K R L A M Y F L G G T L S M S S G D G A G V R P T L G A D D L I A A
UniRef90_R9A9G0 Q V I Y S G G T I G M V D S P H G L V P G A D L A G W L E R V L A
UniRef90_U1R3Q4
UniRef90_G7E764 R V L V I M T G G T I C M Q P T P D G L Q P A A L A P R P S F N D M S N R
UniRef90_C9S818 N V Y V L G G T I T M A P G A K G I T P Q L T G D D L A A G
UniRef90_UPI00030908F6
UniRef90_K1PZ42 R L H V T Y A G G T I G M I D S P E G L R P G A D L Q Q W F S S Q
UniRef90_E6KRG7 R I L I A S L G G T I A M T K A A A P G L V P T L A P D D L L L R
UniRef90_UPI00045EC04E I G L I A T G G T I S V A P P S A E E Q Q H R G V E A L T L A
UniRef90_UPI00037E7840 L P P A
UniRef90_UPI00042CB597 I Y T G G T I G S K V D Y L T G G V S A I M D I E L L A
UniRef90_P61401 L P K L A I G T L G G T L S M L Q S A V G E G V T P G L D S T Q M L A E
UniRef90_UPI00029A837D I L V I Y A G G T L G M K P G P A G L V S D P Q F V A R L Q A A
UniRef90_C8ND90 K R L L W I Q T G G T F S C E G T I R G L A P Q S S E E Q A G K I L L A
UniRef90_D4JWG3 D Y K T G G V S P S V E S D Y Y F K I
UniRef90_D6GV18 S L K V I W I V E L G G T I S S V S E H P T S E F Y K G P S N S V S S F I D E
UniRef90_G9ELH2 K K V G F L A T G G T I A S R V D Y V T G A V K P V L D P E F L E D S
UniRef90_T0N9J2 V A I G T L G G T I T M T S N Q G A A G V S S T L G A E D L A Q S
UniRef90_V8FVM7 M P R I A I I A T G G T I A R Q A T D P R D T V D Y A E T S L G G D D L L N A
UniRef90_UPI0004711DD5 I A L I A T G G T I A C T T Q E D G S L V P T V S G Q L A D S L
UniRef90_C2CNJ8 K I S L I Y T G G T I G M E K N Y T T G S L H P F N F N H I F D K
UniRef90_E4T9D5 M A H I K V L G T G G T I A S S S N G A A G A V A K A G A A E L
UniRef90_UPI0003B3D562
UniRef90_R8BQ27 R I H V T Y S G G T I G M I D S P H G L Q P G A D L Q Q W L N H V L G G
UniRef90_F4S6D8 GT G G K Y H Q P G K S E A L K P G K M L G S L L N M
UniRef90_U1SM12 P K I K I I S L G G T I S M R S D G A G L N P A L G A E A L T A D
UniRef90_E1Z8H3 S L P K V V A R G T I A S N Y S R L D N V N Y G S G V G P T P E Q L I G N
UniRef90_R0ESM0 L P R I G I A A C G G T I A A T A D G G G T A T P R L G A A D L L D A
UniRef90_C7Z6A6
UniRef90_F4CIX1
UniRef90_U5HG71
UniRef90_N6U7Z3
UniRef90_B7G1S2 M A P D P N Q G G A L A P V E G A L S Q Y M R E
UniRef90_R0EKY3 K P R V A V I G T G G T F A M H A R H A F D W V E Y S E S G V P I D D L V E Q
UniRef90_UPI00037FBFA3 P T V L V F A T G G T I G M R E T D S G L A P D P D F P E I L E Q I V A G
UniRef90_X5L986
UniRef90_UPI0003347626
UniRef90_W0AFX9 M S S L L L I D A G G T I A S L P D A A G V L I G R A G S A G L I D A L M P A
UniRef90_UPI000380C087 I A I I C T G G T I A C T A N H T G A L V P T V S G R Q L V D A
UniRef90_UPI000464A6BE M P K I A L V V A G G Q M S L K G E E E T S R Q S S K S G E T M L S W L P K D
UniRef90_UPI00047AED55 P H V L L A T G G T I V S R N T P E S G A T L A A D G S D L L A S
UniRef90_G2L2L9 K N L F V L Y T G G T I G M L Q T P Q G L A P A G G F E A R M R D H L Q S
UniRef90_C6RCH0 H V V V L S T G G T I A S T H D K T G A V V P T V T G S K L V I E P L S G T
UniRef90_M7SQZ9 R V L I I T G G T I C M Q P S A N G L V P N A M A T R P S F N D M S K R
UniRef90_G4QSV3 H L V V L S T G G T I A S T N V D G A L V P T V S G E D L V A P
UniRef90_F8E024 R I H V L S T G G T I S C L H D E N G D L I P T V S C A D L I N R
UniRef90_A0PNX9
UniRef90_UPI00046AAA38 L V F A T G G T I G M R E T D H G L A P D P D F P E V L E Q L V A G
UniRef90_A6GP12 L P R V A L V A T G G T I A G T L I E G S E T W A Y E S A Q R S G E S L V M N
UniRef90_H5U053
UniRef90_G0QKV9
UniRef90_Q0V782 S L P K I L V L Y T G G T I A S S I Y G A L D D T Q Y G Q L Q I T G E E I I A R
UniRef90_K9AYY8 H L L V A A L G G T I A S T A D G S G G V A P A L S G A E I A A A
UniRef90_U2TG02 M K N I C M L A T G G T I A C R K G A D G M R P S I A G Q A L A A H
UniRef90_UPI0003FF1491 S A P G V H I T Y T G G T I G M I D S P H G L V P S A E L G E R L F A H F K G T
UniRef90_M4YMW2 L K T Y L V I T G G T I A S V Y D Y R T G A V H P A L S T A D M I N A
UniRef90_A4BBZ2 M S T Y L I I N T G G T I G M V T G P K G L T P H P D A I S Q A F T H S S
UniRef90_UPI00035C9900 K M K I A V L Y T G G T I G M Y A G E N G L R P S Q E T V L I Q A
UniRef90_A0A024JYG9 M G R L T V I A T G G T I S T S T G A D G V R R P S R S G S D L T A G
UniRef90_K5ZID4 K P L V A V I A T G G T I A S Q R G A S G A S A P T L T G E S L L A L
UniRef90_G7Z7V6 M A R V Y V L Y T G G T I G C V T N S D G A L A P V P G P E F E R L V L S
UniRef90_G1S2L3 R L L A V Y T G G T I G M R S E L G V L V P G T G L A A I G L S E D T L V
UniRef90_UPI0003F95L1 S L P K V V I L H L G G T I S G V A E S P T N T H Y V A G A I P G E K L V K P
UniRef90_K1T747 L I I I Y T G G T I G M K T D A A T G A L V P F D F S G I Y D E
UniRef90_S8EZZ8 G G E L S S M R P T R L A Q R
UniRef90_T0MXP6 K P I S L I T T G G T I V S R V D Y K T G A V F P S L D I G E L T S K
UniRef90_A0A022LW36 L P R I V Y L A L G G T I A S V T S S G D P R G S G A V P R I A A R D L L A G
UniRef90_UPI00047621D1 K P R V A L V A T G G T I A S R R E A D G A S R P S L G G D S L L D A
UniRef90_M4BL96
UniRef90_S9WUR2 R V L V L Y V G G T I G M K K N A K G S L E P C P N Y L T Q E M N N
UniRef90_S4XDG8 P P V T L L A T G G T I A C T S S A T G T L V P T R T A G E L V R D
UniRef90_E4YGP0
UniRef90_UPI0003B7844A P R I A V I A T G G T I A C T A D A T A G G A L V P T L S A A D L V E R
UniRef90_H0JAV2 P Y L H I L Y T G G T I G M Q A T A A G L A P A A G F E A R I Q A L L A S
UniRef90_D5USG1 M V E V V L A A G G T I A S R D D G S G T A V A A D S G A D L V A S
UniRef90_UPI0003B3CB76 M R Y L Q L I N A G G T I T S K S N D Q G V L E G A G H S L L A G
UniRef90_U5VKF5 K N L L V L Y T G G T I G M L E T P E G L A P A G G F E A R M R E H F A Q N
UniRef90_H6BUM9 T F P E L V A Q N
UniRef90_V7IGJ1 M Q K I F V L Y T G G T I G M K P S P D G L V P D A E L A E Q A M Q P Y A E Q
UniRef90_L9JA82 R L L A V Y T G G T I G M R S E R G V L V P G T D L T A V D T L V L P L A
UniRef90_C4FCZ0 M I D S P N G L I P G A D M R G W L R L R
UniRef90_UPI0002D269E7 K K N I L T I H T G G T I S M F E D K E T G A V K P S E K N P I S I A
UniRef90_L8DDH5 H V S L L T T G G T I A S S R D E H G V S R P V A G F G A D V D G
UniRef90_A0A011MJ3
UniRef90_R7IB23
UniRef90_T0M9R7 I C I L L T T G G T I G S S V D Y K T G A V K P V K D I S Y L Y N Y
UniRef90_G3U9Z9 R L L A I Y T G G T I G M R S E R G V L V P G O G L A A V L R R L P M F H
UniRef90_F2RGX2 M A R V T V F T L G G T I S A R G G D A A R M S G Q E V
UniRef90_R0IBP8 I L Y T G G T I G S S Y G A L D D T Q Y G Q L S Q T G E Q I I A R
UniRef90_I7L855 P H V A L I T T G G T I A C T A T D S G A L E P T R S A E L L A S
UniRef90_HOULH1 K L V A F A T G G T I A S T R G D H G L A A A L P G S G L T A G

UniRef90_Q00WU7 V P E L T S L A D I 50 I E V V V L M N K D S S E M D A R D W K A L G L A L H E K R E S 80
UniRef90_E3B794 V P G L D A D V D L T G E T I A R E Q S S G S L T P A H L L E V L Q R A
UniRef90_R9A9G0 Y V I L L E Y A P L L I D S S N A T P A E Q W A K I A S D I E R L N
UniRef90_U1R3Q4 G T A L A G Q V R L H E J A P L L I D S S N A T P A D W Q A I I D C V R T P
UniRef90_G7E764 Y E Y E K L I D S S A E I E S S A D W I R I A Q D V E R N
UniRef90_C9S818 T P P S A Y S R H I R Y E F S P L L D S S A S I S S A G W T E V A Q Q T I R E N A
UniRef90_UPI00030908F6 L P A L K D S A Q L K V H T P F L K P G A S L T M D E I A Q Q V A R D M A A
UniRef90_K1PZ42 E Y K P L L D S S N M M T D W G N I A T D L V I E H Y D
UniRef90_E6KRG7 L D G I E V A S N I S M S V L P L I D S S S E A T P E D W Q T I L D D I T A H
UniRef90_UPI00045EC04E T P V L A S L A E I E T W P L A A L P S S A S L G L A Q I I A L A R G L R Q R F A
UniRef90_UPI00037E7840 R S D R P A G I E V F P R D A L G L S S R R M T P G D L W T L A A A V G S D E M S
UniRef90_UPI00042CB597 S P E Q R V V Y T V L I E C Q P L F D S S D M T I T E W V Q I A Q T I E S H Y A
UniRef90_P61401 L A D L P Y D I K I L I D S P F V K F S E D L N P K D W V E I A Q S I E R T Y K
UniRef90_UPI00029A837D A P Q L A S L A H I S T K T L Q M L P S A S L S F I Q L I D V L Y W A K A Q V
UniRef90_C8ND90 L P D V A F A V F T C E P A I D S S S A T P A A W Q R I L A D A V A T R
UniRef90_D4JWG3 M P Q V C E K Y D I V P M T L M N I D S S D M T I A W Q K R I A D T L G D N I G
UniRef90_D6GV18 S P D L N K Q G K I E I F N L M S K L S E N M L P S D W L E I A K A A Y S S I N
UniRef90_G9ELH2 F V L N D R I K I E I V M D K F S N K I S H E I L S I E D L I T L A N K I Q R L L D
UniRef90_T0N9J2 V S N I R E F S L D M D L M D P V L S E N L T P S D W V E I A H R S L K L L E
UniRef90_V8FVM7 I P G L A N N I K L T L K T L A N L A S S G S I R F E T L F N A L R W A K Q Q V
UniRef90_UPI0004711DD5 L P D A R A R F A V R G I T F S G C D S S V E M T L P R W F A L A D L V R A T V A
UniRef90_C2CNJ8 D A D I E V I E F R Q L F D S S S I T L E D L D L A T Y H E L L H
UniRef90_E4T9D5 I P E I N L I E C E V H V T S F E P V D S S S D M G I K E W K T I A K Y I E E Q
UniRef90_UPI0003B3D562 I S G L V I E H A V S H R D I F T L G S Y Q L T L K H L R L I A R G V A A A N
UniRef90_R8BQ27 I L E F S P L L D S S E I E I S D Y L Q I C H S I Q S N
UniRef90_F4S6D8 I L L E Y E R L I D S S E I E I S D Y L Q I C H S I Q S N
UniRef90_U1SM12 T Q L G E G N V I S I T S L D P L I D S S N A T P D N W Q A I I D D L W K H H D
UniRef90_E1Z8H3 V P E L K A F A S L D L R V A F N M D S S N V G P K Q W V Q L A R I L D A N
UniRef90_R0ESM0 L A R R T P R A Q L I R Q D L G R A A S A N L D F P L V E R L A G L I A E F A A
UniRef90_C7Z6A6 V S E V L D V A Q L A V A V N F V S G S S G L N S S L Y L N I S Q E H A N R Q L C
UniRef90_F4CIX1 A P W L R D I A D P Q A R T V N T K A S P D I T V D D T V R L S H D E L V A F V R
UniRef90_U5HG71 I Y E Y K K L I D S S E V E L S D Y I R M A G D I E A N
UniRef90_N6U7Z3 I Y E Y N P L L D S S C N M S T A E W T M I A K H I E Q K Y E N
UniRef90_B7G1S2 M P E L H M P E V V L H E Y F P F Y D S S D L G P A D W A R L A H D I R A N
UniRef90_R0EKY3 L D Q V D L D I E L P Q S F R M I G S S T G I L P Q D W M E L A Q L I R R V Q D
UniRef90_UPI00037BFA3 I C E P L G V E A R V N H L L P A L D S S N A E A D T A P R I A R A I R A R V R
UniRef90_X5L986 G I P I E A Q V D I V D V M A T D S A L L T P A D W R I A A A V G S A
UniRef90_UPI0003347626 Q R I V I Y T V L E C Q P L F D S S D M T I A E W V Q I A Q T I Q S H Y D
UniRef90_W0AFX9 A R D G V R E V Q L Y A G L S S D M G F A D A M R I V R T I A A A A
UniRef90_UPI000380C087 A R N L A D D L S F R I H D T L Q L D S S I G L P E D T L L T T I A K H A V
UniRef90_UPI000464A6BE L P F E I L V D W S H Q P S S H Y T M R M T T D L V Q L N K L V V
UniRef90_UPI00047AED55 A G L D P E L A V R V V D V M R T G S S Y A L S F A D M L E L C S S I R E A L A
UniRef90_G2L2L9 L G D A P D L R W R F A E L Q P P L D S S A N M T Q G N W L A M R D A I V A A L D
UniRef90_C6RCH0 F D K D K L T L E V K D I A K L D S S A M T L D D T D T I E A V D K E L Q
UniRef90_M7SQZ9 A P E F H K T G D M D G E F S P L L D S S S I S S P G W A Q I A N A V R D N
UniRef90_G4QSV3 V K F S K D K L T I E V R Q V S Q L D S S A M T L K D T D N I R E V L K T V K
UniRef90_F8E024 A G F A S G H P T I T G E D I M T V D S S D I T L E D I D F I I D R I R A T D S
UniRef90_A0PNX9 D V E I V D L M A L D S S Q L V P A D W D R I R A A L H A A D R
UniRef90_UPI00046AAA38 I C G P L G I T A R I N H L L P P I D S S A N A D A E T A P K I A R A I R A R V R
UniRef90_A6GP12 I P G L L R R A Q W H F E Q P Y S I G S Q N L E L T H M L Q L R A A L I R L L R
UniRef90_H5U053 I E S V D L M S V I D S S A I L T V T Q Q A Q V V R A V K T A L D
UniRef90_G0QKV9 Y E L E N P I D S T N M N V F Y Y D L A Q I I E E N Y E
UniRef90_Q0V782 N P Y L L N H T Q L A V I S N W T S E E G S T G T N D A L V M N M T R F A H C S E
UniRef90_K9AYY8 A G L D R L W P D L D F T Q V A Q V S S A N V T L D M L H D V V D L A R
UniRef90_U2TG02 L P A M H E A F D A V E L F A L D S S N L A P H H W Q E M A R A V A A R
UniRef90_UPI0003FF1491 D L D G R I S L T V L D P L I D S S A N A T P D S W Q A I V D D L R E H R A
UniRef90_M4YMW2 V P E L M D I A N L Q A K V L F S I F S E N M T V P H W Q K L A E A I A E E L N
UniRef90_A4BZ2 L Q D W Q H R L I W K H W S P L I D S S L T Q P E H W F E L K Q T V E N
UniRef90_UPI00035C9900 L K V Y Q T Q A D F D V V C H P L I D S S Q V T Q V H W C E W Q Q W L Q Q Q T H
UniRef90_A0A024JYG9 V L D V D V V D L M A V D S S E L T T D W D R I G A A V R A A Q L D
UniRef90_K5ZID4 V P H D G C R L R V L D L M A K D S A S L T L D D L Q R I S D A V Q A A V H
UniRef90_G7Z7V6 M P G L S G H G V Q D Y K D L T W L D S S N M T P A D W I A I A R R L S V Y D
UniRef90_G1S2L3 L P P A S H N Q R I V L E C Q P L F D S S D M T I A E W R V A Q S T I E R H Y E
UniRef90_F9F5L1 I R K F S K Y A K V V S H Q M M S I D L S P S D H F M V S Q R V T Q E L Y E
UniRef90_K1T747 F P S L K R L N V D I E V L T M I D S S N V A P S N W V T L A G L I R D N Y D
UniRef90_S8EZS8 L Q D L P E M R D P N L P Y F D V L D S S E I G L P Q W R L A Q R L H N F
UniRef90_T0MXP6 F R Y M E N K Y R L K R V D F S N I L S E N M E P D Q W I S L A K R A S S E L N
UniRef90_A0A022LW36 V P A T A Q V A R V E A R Q L G M V P S P S L D F D D V Q R A L D A A R D A V A
UniRef90_UPI00047621D1 L G D I G L A I E P V L D M A K D S S S L T A A D M Q A V S T E V G A L L A
UniRef90_M4BL96 E W A D P I D S S D M S P S D W S K I A L E I E A N Y W
UniRef90_S9WUR2 M Q E L K P S A S S A V A Q F E V L D S S D M N H R D H L R I A N D V A K H
UniRef90_S4XDG8 A G L S P G Q V T A H D A L H L D S S E M T L A D L D Q L L R E I R G A T G
UniRef90_E4YGP0
UniRef90_UPI0003B7844A A R D A A G K I D C S P V D T S R L D S S S L T F A D L D G L V A T I A R E L A
UniRef90_H0JAV2 R P E L G N P A W R L Q E L L P L I D S S A N M T P A A W E R M A Q A I A A A T
UniRef90_D5USG1 V P G G V G D V A V T R K R D V A T V D S S A M T L E Q L D A I R E A V A H A L E
UniRef90_UPI0003B3CB76 V N L D S L P L A V R E K T V Y R G L S S E D L S L N Q A S A I A G A A L D A V H
UniRef90_U5VKF5 A D A P Q V Q W L S M E M N P L L D S S A N M Q Q A N W L A M R D A I V E A V E
UniRef90_H6BUM9 V S E V L Q V A Q L S Y I M S S P S G S S N I N S S T F L N V S Q I A N R L C
UniRef90_V7IGJ1 A V I H W H I C Q P L T I D S S N I T P Q H W A Q W L A L I Q A A L
UniRef90_L9JA82 S P D Q R L F Y T V L I E C Q P L L D S S D M T I T E W V Q I A Q T I E R H
UniRef90_C4FCZ0 L E D A H M D S D L F I E L D P L I D S S N A T P S N W Q T M I D D L K A H
UniRef90_UPI0002D269E7 P V E L I Q E T V I S I T I E E P F S L P S P H I T P N E M L I I R D I L K K M E
UniRef90_L8DDH5 V R V R E V M S K D S S A L D L S D L D T I R Q A V S D A L A
UniRef90_A0A011MJ3 P A N L I E V A R L I A E G F A
UniRef90_R7IB23
UniRef90_T0M9R7 V P N L S Q F K L Y H E N I D N L L S S E N V N A E K W I K F A R K A R D A M K
UniRef90_G3U9Z9 D E D Y A C A C Q V T G L H M C T P L G F S L G R L L V T D W P E C S C A P Q R H
UniRef90_F2RGX2 L A E L G G D H D I V L N D F R R V P S S T L T H A D L A A L A E I R A T V A
UniRef90_R0IBP8 N P Y L L N H T Q L A V I S N W T R S D G S T G T N D A L A M N M T R F A H D A
UniRef90_I7L855 A P R L P E L A I R P R E A G L L D S S A M G F A E I D A L G D A V D E A L A
UniRef90_HOULH1 C G F D E V R E A F C L P S P E L S P A D W L S L A R E M E G

UniRef90_Q00WU7 S Y G G F I I A H G T D T M A Y T A S A L S L M L E G G K P L V L T G S Q L R
UniRef90_E3B794 A S D A D G F V L V Q G T D T L E E S A Y L L D L L W D D G R A S F A V T T G S A Q R
UniRef90_R9A9G0 Y S N F A T G F V V L H H G T D T M S Y T A S A L S F M L E G A K S V V L V T T G A S Q L
UniRef90_U1R3Q4 A D D A T D G F V I L H H G T D T M T Y T S S A L S Y A L D L Q V P V V L V T T G A Q Q L
UniRef90_G7E764 Y A A W D G F I V V L H H G T D T M S Y T A S A L S F L L H L G K P V I V T T G A S Q L
UniRef90_C9S818 Y R Q Y D G F V V L H H G T D S L S Y T A S A L S F M M D L G K P V I L T T G A S Q A
UniRef90_UPI00030908F6 D A S A A G C V V V L Q G T D T L D E T S F L L Q L L Y S G N A P V V V V T T G A M R
UniRef90_K1PZ42 Q F D G F V V L H H G T D T M A Y T A S A L S F M C N L G K T I I L T T G S Q L
UniRef90_E6KRG7 A T Q A D A F L V L H H G T D T M A Y T A A A L S Y A L D L G K P V V I T T G S Q Y
UniRef90_UPI00045EC04E E G C D A D G A V V V Q G T D T L E E T A F L L D C L M S G D Q P V V V T T G A M R
UniRef90_UPI00037E7840 A D R D G V V L T H H G T D T L E E T V Y A L G L L V E T T A P V V V T T G A M R
UniRef90_UPI00042CB597 R K Y D G F V V L H H G T D T M A F A S A S V L S F M L N L Q K T V I L T T G A Q V
UniRef90_P61401 K G A E G I V V A H H G T D T M H F S S A Y A Y A L E N P I A F T T G A Q R
UniRef90_UPI00029A837D E E G A Q G V V L T Q G T D T L E E V A Y F L E L L W P F D A P L I L T T G A M R
UniRef90_C8ND90 R E D Y R G F V I L H H G T D T L A Y S A A A L S E M L R G G R A V V L T T G S Q L
UniRef90_D4JWG3 K Y D G I V I T H H G T D T M A Y T A A A L S V M E N P P V V V L T T G S Q R
UniRef90_D6GV18 K G S R G I V V T S G T D T M H F A A S A I S F L L N P S I P V V F T T G S Q R
UniRef90_G9ELH2 S D E C D G L I V L T H H G T D T M L E D V A Y F I G L A V Q S M K P I L F T T G S H Y
UniRef90_T0N9J2 R N G R T I V L H H G T D T M S Y T A S A L S F M F Q E Q T P I V F V T G S Q R
UniRef90_V8FVM7 E D G A D G V V L V Q G T D T L E E S A F L M H L Y W P Y P Q P L V L T T G A M R
UniRef90_UPI0004711DD5 A Q P E A G I V I T H H G T S S L E E A A C F L D L V L D V P C P V V I V T G A Q R
UniRef90_C2CNJ8 R A E V E G L I T H H G T D S M E E T A M A L S I F D P G T K P V V V T T G A Q R
UniRef90_E4T9D5 Y S E F D G F L I L H H G T D T M S Y T A S A L S F M L N L D K P V I L T T G S Q L
UniRef90_UPI0003B3D562 D P D V D G I V V T H H G T D T L E Y T A F L L D L V H N S P K P V I L T T G A Q R
UniRef90_R8BQ27 Y H L Y D G F V V L H H G T D S L S Y T A S A L S F M M D L G K P V I L T T G S Q A
UniRef90_F4S6D8 Y H A F D A F V I L H H G T D T M S Y T A S A I S F L L N L G K S V I L T T G A Q T
UniRef90_U1SM12 D D S D A F V V L H H G T D T M S Y T A S A L S Y A L D F G K P V I L T T G S Q L
UniRef90_E1Z8H3 R D D Y D A F L I A H H G T D T M S Y T A S A L S L M L A G K K P I V V T T G S Q L
UniRef90_R0ESM0 E G G H G V I V T Q G T D T L E E T A F L T E L L G T P S L P V A F T T G A M R
UniRef90_C7Z6A6 D P D S D G A I M F S H G T N T L E E T A F G V D L T F N C S K P E I A T T G A M R
UniRef90_F4CIX1 D E R L D G V V V T S G T D T L E E V A F T V D L L W D S D V P L V V T T G A I R
UniRef90_U5HG71 Y K T F D A F V I L H H G T D T M S Y S A S A L S F L L D L G K T V I L T T G A Q T
UniRef90_N6U7Z3 R F D G F V V L H H G T D T L A F T S A L S F M L N L Q K P V I L T T G S Q I
UniRef90_B7G1S2 Y L H F D G F V I V L H H G T D T M A Y S A T A L S F M L N L G K P V I F T T G S Q L
UniRef90_R0EKY3 D P G L T G I V V T H H G T A T M E E T A W F L Q L A T D I R Q P I V L T T G A Q R
UniRef90_UPI00037BFBA3 T A R P R G V V I A H H G T D T L A Y T A A R L F E L A D L G C P V M V T T G S Q F
UniRef90_X5L986 A R A D G V V V T H H G T D S M E T A L W L D L T Y G G A V P V V L T T G S Q R
UniRef90_UPI0003347626 Q Y H G F V V T H H G T D T M A F A A S V L S F V L N L R K T V V L T T G A Q V
UniRef90_W0AFX9 Q E G M H G F V V A H H G T D T M E D V A F L N E L F H G G T A P V L F T T G A Q R
UniRef90_UPI000380C087 D P E V D A V V V T H H G T D S M E E S A F A T A L L V H G A P V V F T T G A Q R
UniRef90_UPI000464A6BE D G I D G I V V S S G T D T L E E M S Y L A D L M W T Y P Q P V I F T T A A T R
UniRef90_UPI00047AED55 D E N A V G A V V T H H G T D T M E E S A Y L A D L L H N D E R P V V E T T G A Q R
UniRef90_G2L2L9 A G H D G V L L L H H G T D T L A Y S A A A L S F L L D L P I P V V L T T G S M L
UniRef90_C6RCH0 R D D V D G V V V T H H G T D S M E E T A I A V D T F Q D S D K P V A L T T G A M R
UniRef90_M7SQZ9 Y H L F D G F V V L H H G T D S M E S A S A L S F M L D L G K P V I L T T G S Q A
UniRef90_G4QSV3 E D K V T G V I V T H H G T D S M E E S A I A V D T F L S G D K P V V F T T G S M L
UniRef90_F8E024 Q I H A D A V V V L H H G T D T M E E T A F A V A R L C D L S C P V V F T T G A Q R
UniRef90_A0PNX9 T N G P D G V V I T H H G T D T L E E T A L W L D L T Y S G S T P V V L T T G A M R
UniRef90_UPI00046AAA38 T H R P R G V V I T H H G T D T L A F T A A R L A F E L D L G V P V V V T T G S Q L
UniRef90_A6GP12 S P N V D A I L V T H H G T D T M E D M L Y F L Y L T L P A P K P L V F T T G A M L
UniRef90_H5U053 D R D V T G V V V T H H G T D T M E E T A F L A D L V S D D P R P V V E T T G A Q Y
UniRef90_G0QKV9 K Y D G F L I L H H G T D T M A Y T A S A L S F M L N L S K T V I L T T G S Q L
UniRef90_Q0V782 D S D I D G A V Y T H H G T N S L E E T A F L L D S L V N C A K P I V G T T G A M R
UniRef90_K9AYY8 R T D A D G I V L T Q G T D T L E E S A F A L S L L N D S G T P I A V T T G A M R
UniRef90_U2TG02 R E A Y D G F I V T H H G T D T M A Y T A A A L S I M L A H D V P V V V T T G S Q L
UniRef90_UPI0003FF1491 A A P A E G Y V V L H H G T D T M A Y T A A A L S Y A L D F D R P V V V T T G S Q L
UniRef90_M4YMW2 N G A D G V I V P H H G T D T M G Y T A A A V S F M L G D S K P V V F V T G A Q R
UniRef90_A4BBZ2 Q P D V D G V L I I H H G T D T L A Y T A T A L S F L L T L S I P V V I T T G S M H
UniRef90_UPI00035C9900 T D A I L I L H H G T D T M A Y T A N V L A A M G S L R V P V V L T T G S Q Y
UniRef90_A0A024JYG9 G G A A G V V A H H G T D T M E E S A L W F D L T Y A G D P P V V L T T G A M R
UniRef90_K5Z1D4 D P D V A G V V V L H H G T D A M E E T A L L V H V Q R H L T K P V I F T T G A Q F
UniRef90_G7Z7V6 R Y D G F V V L H H G T D S M A Y S A S A L S F L L P G T K P V V C S G S Q V
UniRef90_G1S2L3 Q Y H G F V V I H H G T D T M A F A S A S M L S F M L N L Q K T V I L T T G A Q V
UniRef90_F9F5L1 D P N V V G L M V S H G S G L A S L L L Q G L T V K S D K P V V N I J A S K
UniRef90_K1T747 R Y D G F V V L H H G T D T M S Y T A S A L S F M L N L S K P V V F T T G S Q I
UniRef90_S8EZS8 Y G D Y D G F V V L H H G T D T M A Y T A A A L S F M L N L G K P V V M T T G A M L
UniRef90_T0MXP6 N S E G V V I S H H G T D T M S Y T A S A L A F M F E E Q T P I V L V T G S Q R
UniRef90_A0A022LW36 G S G A S G V V L S Q G T D T I E E T A Y L L D L A W D R P E P L V V T T G A M R
UniRef90_UPI00047621D1 D P D L A G V V V L H H G T D A M E E T A L L V Q L Q N Q P A R P V V E T T G A Q F
UniRef90_M4BL96 D Y D G F V V L Q G T D T M A Y T A S A L S F M L E L G K P V V I S G A M I
UniRef90_S9WUR2 Y E A Y D G F L I A H H G T D T M H Y T A T A L S F L L N L A K P V I V T T G A M V
UniRef90_S4XDG8 P H F D G F V I V H H G T D S M E E T A M A V D R L L E G G P V I L T T G A Q R
UniRef90_E4YGP0 Y E H F D G F V I V H H G T D T M S Y T A S S L F M M E E L G K P V V L T T G A Q K
UniRef90_UPI0003B7844A K P E T T G V V V T H H G T D S M E D T A L A L D L F F G D S P V V L T T G A Q R
UniRef90_H0JAV2 D P A C R G V V L H H G T D T L A Y S A A A L F R L L G L G I P V V L T T G A M L
UniRef90_D5USG1 S P D V A G V V V T H H G T D T M E E T S L L V D L S H S D P R P V V F T T G A Q H
UniRef90_UPI0003B3CB76 Q D D V A G V V V T H H G T D T L E E T A F L C D L S H D G G K P V V F T T G A Q R
UniRef90_U5VKF5 V G G H D G V V L H H G T D T L A Y S A A A L S F L L L G L G L V P F I V L T T G S M
UniRef90_H6BUM9 A E G S D G A V M I H H G T N T L V E T A F G V D L T L Q C D K P F I V T T A M R
UniRef90_V7IGJ1 P E H D G I L V L H H G T D T L A Y T A N F L A L A L D G G K P I V L T T G A Q K
UniRef90_L9JA82 Y T Q Y H G F V V I H H G T D T M A F A S A S V L S F V L N L Q K P V I L T T G A
UniRef90_C4FCZ0 R D E A D A F V V L H H G T D T M S Y S A A L S Y A L D F G K P I I F T T G S Q H
UniRef90_UPI0002D269E7 E T T I D G V V I S H H G T D T L E E T A Y F L D L I D T T I P I V L T T G A M R
UniRef90_L8DDH5 E D G C V G V V V L H H G T D T M E E S A L Y V D L F H E D D R P V V F T T G A Q R
UniRef90_A0A011MJ3 S G F D G A V V V Q G T D T I E E S A F L L D L L V D S D K P V V V T T G A M R
UniRef90_R7IB23
UniRef90_T0M9R7 N E N S V I I F H G T D T M Q Y S A S A L S F M F E Q T R P I I E T T G S Q R
UniRef90_G3U9Z9 Y E Q Y H G F V V I H H G T D T M A F A S T L S F V L N L Q K P V I L T T G A Q V
UniRef90_F2RGX2 A G S G V V V V Q G T D T L E E T A F L L D L L C T T E Q P I A V T T G A M R
UniRef90_R018P8 L C S P D G A V Y T H H G T N S L E E T A F L M D S L V N C G K P V V G T T G S M R
UniRef90_I7L855 D D A C V G V V T H H G T D T M E E T A L A L E L R R N D D R P V V L T T G A M R
UniRef90_HOULH1 C P D A D G F V V T H H G T D T M T S A A T L A F L A G G A R P V V L T T G A M K

UniRef90_Q00WU7
UniRef90_E3B794
UniRef90_R9A9G0
UniRef90_U1R3Q4
UniRef90_G7E764
UniRef90_C9S818
UniRef90_UPI00030908F6
UniRef90_K1PZ42
UniRef90_E6KRG7
UniRef90_UPI00045EC04E
UniRef90_UPI00037E7840
UniRef90_UPI00042CB597
UniRef90_P61401
UniRef90_UPI00029A837D
UniRef90_C8ND90
UniRef90_D4JWG3
UniRef90_D6GV18
UniRef90_G9ELH2
UniRef90_T0N9J2
UniRef90_V8FVM7
UniRef90_UPI0004711DD5
UniRef90_C2CNJ8
UniRef90_E4T9D5
UniRef90_UPI0003B3D562
UniRef90_R8BQ27
UniRef90_F4S6D8
UniRef90_U1SM12
UniRef90_E1Z8H3
UniRef90_R0ESM0
UniRef90_C7Z6A6
UniRef90_F4CIX1
UniRef90_U5HG71
UniRef90_N6U7Z3
UniRef90_B7G1S2
UniRef90_R0EKY3
UniRef90_UPI00037BFBA3
UniRef90_X5L986
UniRef90_UPI0003347626
UniRef90_W0AFX9
UniRef90_UPI000380C087
UniRef90_UPI000464A6BE
UniRef90_UPI00047AED55
UniRef90_G2L2L9
UniRef90_C6RCH0
UniRef90_M7SQZ9
UniRef90_G4QSV3
UniRef90_F8E024
UniRef90_A0PNX9
UniRef90_UPI00046AAA38
UniRef90_A6GP12
UniRef90_H5U053
UniRef90_G0QKV9
UniRef90_Q0V782
UniRef90_K9AYY8
UniRef90_U2TG02
UniRef90_UPI0003FF1491
UniRef90_M4YMW2
UniRef90_UPI00044BBZ2
UniRef90_UPI00035C9900
UniRef90_A0A024JYG9
UniRef90_K5ZID4
UniRef90_G7Z7V6
UniRef90_G1S2L3
UniRef90_F9F5L1
UniRef90_K1T747
UniRef90_S8EZS8
UniRef90_T0MXP6
UniRef90_A0A022LW36
UniRef90_UPI00047621D1
UniRef90_M4BL96
UniRef90_S9WUR2
UniRef90_S4XDG8
UniRef90_E4YGP0
UniRef90_UPI0003B7844A
UniRef90_H0JAV2
UniRef90_D5USG1
UniRef90_UPI0003B3CB76
UniRef90_U5VKF5
UniRef90_H6BUM9
UniRef90_V7IGJ1
UniRef90_L9JA82
UniRef90_C4FCZ0
UniRef90_UPI0002D269E7
UniRef90_L8DDH5
UniRef90_A0A011MJB3
UniRef90_R7IB23
UniRef90_T0M9R7
UniRef90_G3U9Z9
UniRef90_F2RGX2
UniRef90_R0I8P8
UniRef90_I7L855
UniRef90_HOULH1

130 140 150 160

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

UniRef90_Q00WU7 G N R A Q K T S A T 170 V Y A A F S S P S Y P A L A R L G V G V D W N H A R L L L 200
UniRef90_E3B794 A R S V T K G D T S S E L T T F V S P D C G P I G R V L E A H T H L F H R P A R L
UniRef90_R9A9G0 G N R S T K V S S E F D A F R S P Y N Y P P L A K V I G T R L D V N W P S V Q R Q
UniRef90_U1R3Q4 G N R A T K A S S S W F E G F A S P S A A P L A R I G A P W H W D D A L A A H
UniRef90_G7E764 G N R T T K A S S S F D F A F A S S P N L A P L A E V G I N F D V A W D L V T K
UniRef90_C9S818 G C R A T K N S A G V L F D A F A S P N G C E P L G A K M N G L G I D V N W P L V L R
UniRef90_UPI00030908F6 A A G V E K M H K G L A S A F Q S P N G G P L G Y Y M E G G L R I L R D M
UniRef90_K1PZ42 G N R T I K M N D A G S F S A F I S P N L P P I A T L E I R I H V D W S A V F R
UniRef90_E6KRG7 G N R A T K T S S W A F R G F E S P V G S P V A R T G A P W R W Y G T P H A
UniRef90_UPI00045EC04E A R F V R K A H T S L A A F G S P V G R A L G S V A E D E V R V S G C V G R V
UniRef90_UPI00037E7840 A K L V T K M H S T R V A A F G S P A A G P V G F V A E D R L E L L G V P P G
UniRef90_UPI00042CB597 G N R V T K V D A R R F A A F C S P N L P P L A T V G A D V T I N Q E L V R R V
UniRef90_P61401 G I S A R K M H S T R R D A F K S I N E E P L A R I Y Y P S G K L E I I N K K Y
UniRef90_UPI00029A837D A A H V R K T E S L A M A A F S S A H F G C E G L V V E G H A C Y L K P V R P R
UniRef90_C8ND90 G D A V R K L D A Q S F A A F D S P N A D W L G M F D G E M A T L S A P L F E E
UniRef90_D4JWG3 G R D C T K I D T V S L A N A F T C V K G D I G T V K S G R V K I T C K E P
UniRef90_D6GV18 G N K A R K M H T E R R D A F R P I N I A P L A K V Y S N G K F S D I L S E
UniRef90_G9ELH2 A R D A V K N N P G L I N N F A T E G R G I G Y V I G N Q F V L Q S K P I Y K
UniRef90_T0N9J2 A V R V R K M H T S R R D A F R T L G G R P M A V Y S S G T A R F N E T P R A
UniRef90_V8FVM7 A R Y V K K L H T T S V G A F A S L I T G P V A Y L Q E N Q L T V Y R L P
UniRef90_UPI0004711DD5 A Q E V T K A A T Y Q L E T F R S P D F G P L G M V E A N R V F F G R T T G Y R
UniRef90_C2CNJ8 A R G A R K N H T F H L N G F E S M P V G
UniRef90_E4T9D5 G N R T L K Y S A E Y F D A Y H S P N Y P I L G Q S G V H L N V D K E V L L R P
UniRef90_UPI00033B3D562 A R G A R K S H T V A A S P F G G G T E V A H F A G M R L V Q T A S T I H R V
UniRef90_R8BQ27 G N R T K V S A S S F A F D S P N C D P L A K V T S L G V D V N W S L V R R
UniRef90_F4S6D8 G N R T V K F S S V E F D A F K S F N L E P L V K V G C N V E V R W D L V N K P
UniRef90_U1SM12 G N R V T K T S S W A F E G F S S P A T G P L A R T G A P W R W Y P V D R S
UniRef90_E1Z8H3 G N R S Q K T N S S A Y Q A F D S P N Y P Y L A Q M G V D V S W N S R A L L N V
UniRef90_R0ESM0 A R H V Q K T D T T A L D A F S S R D H A P R G R L H E G R F I A L R P A F P P
UniRef90_C7Z6A6 I F Y S T K L N A N T P D T F K S L E Q G N L G A F L G G Q P F Y Y F G P S Y
UniRef90_F4C1X1 A R Y A R K G N S G N V A A F V S P T V G P L G Y L A E G V P V I P L R V S R T
UniRef90_U5HG71 G N R S V K A S S E E F A A F E S A N L A P L A S V G T G I D V V W N E V L R
UniRef90_N6U7Z3 G N R S T K V S S N L N A F D S P N Y P H L A L V G V E L S V Y N S Y I R K T
UniRef90_B7G1S2 A C R A T K V N T H R L L A F D S P N Q D P L A T I G I T D E N E H L V L P P
UniRef90_R0EKY3 A R D V S K A A S F E L H A F E A T P Y G P L G R V D A D G S V V L R R R V T S
UniRef90_UPI00037FBFA3 A V R A E K H D T A G L E A F R A E R K L A P G
UniRef90_X5L986 P L G L R K R H T H E L T A F T G T T L G T V G D G G C A L T
UniRef90_UPI0003347626 G T R V T K V D S R R F A A F C S P N L P P L A V M G A D V T I N Q E L V R R P
UniRef90_W0AFX9 A R S A R K L D D S G P E A F G P H T A A I G R V D D H G V R L T A M P R R V
UniRef90_UPI000380C087 A T A V H K Q H T S E L A F T A H G P S V S V D A V S V G S L D A S A L
UniRef90_UPI000464A6BE A S E I T E S A N H R R N A F L A P D R G P V G E V M G K N I D I L R L H K R G
UniRef90_UPI00047AED55 A A G V R K I H T S D L Q A F G D P D A G P A G R V S P A G E V E L G T A T R R
UniRef90_G2L2L9 G A R V S K L I R S D A F D A F A E L P R P
UniRef90_C6RCH0 A R G A F K S D T T K A D G F A N N N G K K
UniRef90_M7SQZ9 G N R T K V S A S S F E A F A S P N S G P L A K V T G L G V E V N W Q L V R R
UniRef90_G4QSV3 A R G A Y K S H T S E N D G F R T N A S E D L
UniRef90_F8E024 A V G T T K W H T T D D E A F H H A E N V D D F A V V A S S Q D G T I
UniRef90_A0PNX9 P L G L R K A A T D D L S G F A G E L L G T V T D E V T L R R
UniRef90_UPI00046AAA38 A V R T T K H S R A D L A A F A R A E A P L A P A
UniRef90_A6GP12 A Q C V E K Q S T A G L D A F D G P Y S M L S D S N W F S S L N T L S P P A D L
UniRef90_H5U053 V R G A F K V S T I A T E A F D T V H D A L T V T D E V T L R R
UniRef90_G0QKV9 G N R C T K M D S N S M D S F D S P N Y E P L A V F G I N T I N W E K I L K K
UniRef90_Q0V782 G Y W V T K L H S T N P N A F G P T A G G D L G I F I N S L P V F F N T P S Q P
UniRef90_K9AYY8 P H H V R K A H V S T A A F S S G P V G A I G W I S E D V V R L P H A P H P R
UniRef90_U2TG02 G A R A R K L C T E Q F A A F A S I G A P A A L F H G G R L H W Q K E
UniRef90_UPI0003FF1491 G N R I T K T S S W A F D G F S S P G A E P L A A G A P W R W A P S R A S G A
UniRef90_M4YMW2 G T R V R K M H S S R R D A F Q S I N V P P V A H L D R D G K I T F N T P G R
UniRef90_A4BBZ2 G S R V T K A S T L E N N A F A A P G W D L N L W P T
UniRef90_UPI00035C9900 A I G S R K I S T Q S L D G F A N K H H P P L N E F Q N A L W L K S L C E T N
UniRef90_A0A024JYG9 P L G M H K V A T Q D L S G F A G E L V G T V A A G N V A L T G
UniRef90_K5Z1D4 V W G V Y K Y S T E M D A F
UniRef90_G7Z7V6 G N R S S K V D A N R F A G F D S P N F P P L A T V G S V V A R N Y W L P M P D
UniRef90_G1S2L3 G N R T K V D A R R F A A F C S P N L P P L A T V G A D L T I N R E L V R K V
UniRef90_F9F5L1 P W G L R K E N D R F T A G P C S L V G K V E R E Q V I F Y D R P K C C
UniRef90_K1T747 A N R T T K R S A E A L S A F R S Y N Y P P L A E V G V N T A Y N Y P A I L R
UniRef90_S8EZS8 G T R V S K V D C S R L D A F E S P N F P A L G C V G V G D V V L H D E L L L K P
UniRef90_T0MXP6 G T R S R K M H S T R R D A F K A I G E Q P I G S F Q E G L V N L N G S Y R R K
UniRef90_A0A022LW36 A R A V R K T H T S S T G A F T S P G S G P L G R V T E G S P V F H A P A A R V
UniRef90_UPI00047621D1 A W S L Y K R S A D A P D A F R Q S L P
UniRef90_M4BL96 G N R T T K V A N M S V D A F H S P N F P S L A V T G V E A I V D Q P L I L P Y
UniRef90_S9WUR2 G N R C N K V R H N Y A A F E S T N Y P A L G V M E G S Q F V L R E R I L L P
UniRef90_S4XDG8 A Y G V R K V H T T A D G A F G N P G P R P G T L C G G T P
UniRef90_E4YGP0 G N R V M K T D A Q D F H A F S S Y N M V P L I K M G T E I N C N W D L I W R S
UniRef90_UPI0003B7844A A V G A M K R D T A D L T A F A N S Y L T A A E
UniRef90_H0JAV2 A A R C T K Q A S S G W K A F V A S A R P R S G D A L V A P A A L R
UniRef90_D5USG1 V R G L A K V S T V A P Q P F E G G L S V A E L A G
UniRef90_UPI0003B3CB76 A R Y A I K A N S A A L T A F T A R P K G R L G R I T D R G I A L G R P L P R H
UniRef90_U5VKF5 G C R A S K L R S E A F D A F A V L P R H R E G E R V
UniRef90_H6BUM9 I F Y S T K L D A N T P D T F K A L E Q G N V G V F L A G Q P Y Y Y F D A A L
UniRef90_V7IGJ1 A I G S S K C S T E L D Q G F D N A H F G T W Q P G T
UniRef90_L9JA82 G D R A T K V D A R R F A A F C S P N L P P L A T V G A D V T I N Q E L V R K V
UniRef90_C4FCZ0 G N R V S K S S W A F E G F S A P S T G P L A R T G T P W H W Y A G G T L A G
UniRef90_UPI0002D269E7 A I N V T K T H
UniRef90_L8DDH5 A R G A I K K H T S E L D A F R S A A L
UniRef90_A0A011MJ3 A R F V Q K S H T A L P S A F L S P L V G P I G T L I E R Q P R F H A Q V K R N
UniRef90_R7IB23 A R D T K T D T A N V A T F M S P E L G A F G F I A S G H N Y F V R Q T T K R
UniRef90_T0M9R7 A T R T R K M H T S R R D A F L S I D E S T M A L Y T H G S V L N K K A K
UniRef90_G3U9Z9 G N R A T K V D S R R F A F C S P N L P P L A T V G T D I I N R E L V Q K I
UniRef90_F2RGX2 A R L A R K S H T T S V A T F T S P G A G P L G T V V E G E P R I L F R P A V P
UniRef90_R0IBP8 G Y V V T K L H S T N P D A F G A T A G G D L G I F I N S L P V F F N T P S Q P
UniRef90_I7L855 A F G T V K H D A A V D A F R H R G G
UniRef90_HOULH1 G A G L V K R H W T R P D G F L T P A C P A L G R I E G G S A R L N T E E L A S

UniRef90_Q00WU7 P R Q E Q Y T P R F D V N P N V T R V P V I P G L D A A A Y G D V Y E R G V
UniRef90_E3B794 P A L P R P D A V D A E V P V L T V A L G Q S P R A L D A V S A G A
UniRef90_R9A9G0 S G D A L R Q V H A K S L S P E I C V L R F F P G L K V H L V E A I L E A D L K T R A R
UniRef90_U1R3Q4 A F R G P K T A T P K P Y E T R Q D V L M V A S L V P G I T A E R L E A M L T P A P
UniRef90_G7E764 P A A D S K P F N A H T L F S S D V A T L R I F P G I K P Q I V K A F L L A P P V
UniRef90_C9S818 P T K L A E L Q V T Q H L D T A H V C I H I F P G I K P E M L D A S V L R G P P
UniRef90_UPI00030908F6 P T R K M P R F A P M R F G K V A L I K T S L P D L L D D Q P D L L A L P G L G Y
UniRef90_K1PZ42 A T G T E K F R V H T N M C Q N V G L R M F P G I T T Q T V R A F L Q P P M
UniRef90_E6KRG7 G T G W A S P L P Y A R Q D I A V V P G M S A A R L R A M T T A H P
UniRef90_UPI00045EC04E A P L H S I D P A R E V P V A L F R F A M G A D D R L L K C L P D L G Y
UniRef90_UPI00037E7840 T D L L P R S G P P S A R V G L V H A A T G V D G S T V D S I A S D V
UniRef90_UPI00042CB597 R G Q G R L V Y H S S M E Q N V G L L R L Y P G I P A S L V R A F L Q P P M
UniRef90_P61401 R K R S D K E M V A K P Y L D T K G A L I W V Y P G F D P S I L E Y Y R N Y
UniRef90_UPI00029A837D Q P L P E P W R L D Q R V A L L E A S L A A D T L L L E Q M T G L G Y
UniRef90_C8ND90 E E S A F L C G D W R G K Q E G A V A S L L V T P G M F N E S A F A P L L D T R L
UniRef90_D4JWG3 C G G K Y R D C S L C F A D G K V A V L D M H P S F M P D M I K M L Y E G G I
UniRef90_D6GV18 R L K R A E E T K L T D K I D Q K V K L I Y G Y P S M G G D I I E Y Y T E K N I
UniRef90_G9ELH2 H T Y Q T E F S I L G I S N L P K I S I Y A H L G M D D F L I D A L I T T S G V
UniRef90_T0N9J2 S E G N V L M D K L E R K V S M V Y F H P S L E P D D L G Q I L N G R
UniRef90_V8FVM7 S P N R F V F D I P D Q F T A Q T L L I E T T L D E S V A L Y Q A I P D L G Y
UniRef90_UPI0004711DD5 R H V G A L E Y H A G A D I P R V D I C Y S H A G A D G V A A R A F V A
UniRef90_C2CNJ8 E G S I F P L P L A A L A Q H P V A I L A A Y P G A E A V L V D A A S S H F
UniRef90_E4T9D5 K S E T F S V D Y H L S E E V F F L R I F P G M N W N Y L P N L D N V
UniRef90_UPI0003B3D562 P L D L P S E A F D E T V D I V S T Y P G A E P V L L T A A L E R S A
UniRef90_R8BQ27 P T R L A E F Q V T K Y L D T A H V A C L R I F P G I K P E M V D S V L R V P L
UniRef90_F4S6D8 I D R Q A F K V H N A M C G N V A V L R I F P S I S P A S V R A F L Q P P L
UniRef90_U1SM12 G C G W S N P P Y K R H D V V V D M V P G I T A E R L E H L I T P R P
UniRef90_E1Z8H3 D T V Y R P Q N L D P R V I R V P I I P G S D P R V M Y G D V A R G V
UniRef90_R0ESM0 L P S V A P A R G R A S P R V W I A T I G L D M D E T L F T L G E D A G I
UniRef90_C7Z6A6 P T G R P Y F D V T N T T E L P S A A I E F G H Q G F D A S L M H A A V A N G A
UniRef90_U4CX1 P R V D P P V L T P V S A A V A L L T T F M G D D G A L L P A V A S G G F
UniRef90_U5HG71 P G L R P F R A H K S L S A D V A T L R I F P G I T G K A I R A F L G P E I
UniRef90_N6U7Z3 T K G G E L M V H T N L N S H V G T I A F F P T I S S Q L E S F L K P P T
UniRef90_B7G1S2 A K G A L R V H L S R M D T R L T I R L V P G F D D A M R E M I N H N L
UniRef90_R0EKY3 H S M L P A L D M S S S R T L P R V D M V V S Y A G A D G A A I D G V L A A G A
UniRef90_UPI00037BFA3 P R G V P A G D G E M R P R S A R V L T F R F V P G V T A E D V D R C A T L G S P
UniRef90_X5L986 T K S R A F L G E L S A A K A P R V D I V V A Y P G A D A A A L D G C V A A G A
UniRef90_UPI0003347626 R G P A Q L V V H S G M E Q D V G L L R L Y P G I P A S L V D R A F L Q P P L
UniRef90_W0AFX9 P G F A I E D P E P A V E I A A L G L G S G P A L V D A L V D R G V
UniRef90_UPI000380C087 S S P S T S P A I P V L S G Y F V P V I A G Y P G A T P E L L E H A V D A G A
UniRef90_UPI000464A6BE K V L A G S F A P A R N V E L V T S S L G G G E L V L K E T S E K D L
UniRef90_UPI00047AED55 L A P L P W A G P A A P A P R V D V I A C H P G A D G S L R A A A L E A G S
UniRef90_G2L2L9 A P V P A A L G Y R Q P R R E V N L A V L P L Y P G L R A A H L R A G L L D S G V
UniRef90_C6RCH0 Q P Q R P K A L K H Q P L G N T R V D I A A Y P G A P A D L I Q R S L D S G A
UniRef90_M7SQZ9 P T R L A R F V R T Q H L D T A H V A C I V R V F P G I K P E M I G Y V L R V P L
UniRef90_G4QSV3 V R P K A L D F K P L E S H R V D I A A Y P G A P R E L I D A A I S T G A
UniRef90_F8E024 P R L A G L N V P I I D A Y A G A D G T F I E Q L A A T G I
UniRef90_A0PNX9 A K S R P Y L G A D E L A A D A P R V D I V A V Y P G S D A V A L D A C V A A G A
UniRef90_UPI00046AAA38 A H G L P R L A G V E H A G L A R V D L T L R F V P G M T V S D V R A A V G G R P
UniRef90_A6GP12 G V P G Q F S N L F G T D T L A H V P I V F C V P G N G P R Q L N D L L N R K P
UniRef90_H5U053 P R P L V G D P L P E R L A R V A D T Y A L Y P G V A S E T I A A V A Q R A
UniRef90_G0QKV9 N P N Q K L I V H K N L C D K I A I K F H P F I S S E T L N A V I L N D H Y
UniRef90_Q0V782 L H K Y N F D N Y K S F P A L P K V D I L Y A A R E F D G K L A L D A Q A N G A
UniRef90_K9AYY8 T A A S P F A G L P R P D A F A A V A L A E V G L G E P A E T F D R L G E A G F
UniRef90_U2TG02 W A V P K E P H L R D A L D T R V A V L K L V P G A S A E L R A L V N T G Y
UniRef90_UPI0003FF1491 G W S R P L P Y A R H D V V V I D L V P G I T A A R L R A L V T P L P
UniRef90_M4YMW2 V P K T H P V A F N P T W R T Q D V R V Y T L Y P G F S L P T R Q Q L Q T D R P
UniRef90_A4BBZ2 V A L M P K T A M T P L N P N T R I A S H Y C V P A S E Q W A L R A I L H S G A
UniRef90_UPI00035C9900 A K T R P S V G E L R A A D A P R V D I V A A Y P G S D S V A L D A C V A A G A
UniRef90_A0A024JYG9 M A S P E S L A L D G R D V G T V R V D I V A V Y P G C D Q T H L Q A S L A A G A
UniRef90_K5Z1D4 V A V S L D E P E N R A R R L A A L E A Q A A A L A A F S V V I L W L Y P G I R
UniRef90_G7Z7V6 D G K A G L V V H S S M E Q D V G L L R L Y P G I P A A L I P A G W E P P L
UniRef90_G1S2L3 Y T P E K L D I Y S P E D Q L P Y I D L K T V H S G F D G V L I N Q T F H A G V
UniRef90_F9F5L1 P V R G F R I F T Q F C L N L V A V P I T P F L P V D R L K R V F E D P K R P L
UniRef90_K1T747 K N E N K L K I N L E K R V S I L Y M Y P G L T D E E L A K S M D G K
UniRef90_S8EZZS P A L T T R V A P L P P V A L Q R V T L A D D G R V L S T L M D G L G Y
UniRef90_T0MXP6 Q D N P R E A P L P G D I G A L R V D I V S I H P G C D G A L V E A S L A A G A
UniRef90_UPI00047621D1 P R S R F R V F T L V T N I C V F H L V P A Y I D R H N A R K C E K E T A V K P
UniRef90_M4BL96 Q P T G A M Q V C S R L D G K V A C L H V V P D N E L P T L L P A I L K E G T L
UniRef90_S9WUR2 P P L A G L R V D I I M A Y Q G A D A S L V D A A V A A G A
UniRef90_S4XDG8 Q K P T K F S I S H G W N P N V A L L R I F P S I T A T T V R S F L Q P P I
UniRef90_E4YGP0 P V P R L P R L P R R A L A G V A V V I A A Y P G A G P E L V D A A L D H G A
UniRef90_UPI0003B7844A F D Q P R Q P V R V A V L P L F P G V D G A V L R G L A G S G V
UniRef90_H0JAV2 T A P N R L L T K P M P V A G V R V D I V A S Y P G A D G A L I D A A V A A G A
UniRef90_D5USG1 T P W Q R Q L P A P D V L I L P I Y L G A T A E L L K L A M T M R P
UniRef90_UPI0003B3CB76 G S V P A A L D Y R Q P R K L V N L A V M P V F P G L Q A S H L R A L L D S G V
UniRef90_U5VKF5 P T G R P Y F D I T N T T L P S V I T L Y G H Q G F D A S L M Y A A V A N G A
UniRef90_UPI0003H6BUM9 P L R R L N G L P T R F N P D A R V C S H L L T P G S S H E Q T A H S L R H P Q
UniRef90_V7IGJ1 S G K G R L L V H G S M E R D V G L L R L Y P G I P A S L V R A F L Q H P L
UniRef90_L9JA82 E G W K D P K P Y T R H D V A V I D M A P G I T A A R L E A M L T P R P
UniRef90_C4FCZ0 P R P N P L Q W P P I A G V R V D I V A L Y P G A D G A Q I E A C R G A G A
UniRef90_UPI0002D269E7 P T L S T A E G S P A P V A L V K V A M G D D G R L E A S L P G L G Y
UniRef90_L8DDH5 H T S G S E F D V S K L D S L P R V D I V Y S H S N A D R V P I D A F V K A G A
UniRef90_UPI00011JB3 M K E S D N I V L K D R L D T N I G L I Y F Y P G M R E E D F Y N L S Y N K
UniRef90_R7IB23 R R K E P L V V H S H V E R D V G V L R L Y P G I P A S L V G P A P
UniRef90_T0M9R7 A A A C P L K L D P E V R V A L V T L S L G D R G E L L D A V D D R F
UniRef90_G3U9Z9 L W K H Y F D M Y K T F P A L P H V D I L Y A A R E F S G K L V L D A H A N G A
UniRef90_F2RGX2 E L P R R L P G V R L A G V D V R V A A Y P G T P S A V V D A A A R G A
UniRef90_R018P8 H S P R L D V R L P H A L P S V F G I K I H P G L T S E A L L A W L P L A
UniRef90_U7L855 H S P R L D V R L P H A L P S V F G I K I H P G L T S E A L L A W L P L A
UniRef90_HOULH1

UniRef90_Q00WU7 R G I V L E A F G V G N F P S S L I P W L T E Q T A K G L R V H L S T Q T C Q S 250 260 270 280
UniRef90_E3B794 D A L V I A G S L G A G H V P G W W A E S V G H I A A R G I P V I M T S R T F S G G
UniRef90_R9A9G0 R S A V L R A S F G G N I N D A L L J A S F K K A A E D S G V V I V V N T S Q Q C H S G G
UniRef90_U1R3Q4 K A V I L R A F G V G N G P P G F T E L I A R V V V K S G T V V V V S S Q C C H Q A
UniRef90_G7E764 R G I V L E T F Y G A G N A P D S A L L D V I F R A A A D R G V V I V V N V T Q C C S R G G
UniRef90_C9S818 R G L V L R T F G G M G N V D P E G S L T K V I K A A A V D R G I V V V L A S R V M S G G
UniRef90_UPI00030908F6 E G V V V E A M G A G H T P D K S W A P A L E A A A A K M P V V V L A S R V M S G G
UniRef90_K1PZ42 Q G V V L Q T Y G A G N A P P D L L N V L K E A S N I G V V I I N I T Q C C T K G G
UniRef90_E6KRG7 D A L I L R A F G V G N I P P G F V V G V L A E L T E A R K V P I I V A S Q C C Y P E G
UniRef90_UPI00045EC04E G G L V I E G A G G H V S A G L V P A V R E L A T K M P V V V L A S R C C P E G G
UniRef90_UPI00037E7840 D A V V V A A L G A G H V S P A L G T A L V R L A D S G K P V V V T S R C C P D G G
UniRef90_UPI00042CB597 K G V V M E T F G S G N T K P D L L Q E L R A A A E R G L V I V N C T H C C L Q G G
UniRef90_P61401 R G I I I A G T G M G H T S K E L L I P M L K E L S K D L F I G I T T Q C C L Y G G
UniRef90_UPI00029A837D E G L V V A G F G A G H V S E G W A K S V G Y I L T R M P V I I A S R T G S G G
UniRef90_C8ND90 R G L V L L S Y G V G N V R A D L H Q A L Q A A M A R G V C V I V N V S Q C C W R G G
UniRef90_D4JWG3 R G F V I R C Y G A G G I P E A K V R A A L G R A I A G G A K A I A V I T Q C C L Y G G
UniRef90_D6GV18 H G L V I S G T G F G N L P K T V V S A L K K A E N N G I P I T I T S Q A I Y G G
UniRef90_G9ELH2 S G L I S A G F G K G Y Q S N R I S L A L E K A V Q L G I P V V R C S R S G C G
UniRef90_T0N9J2 R A A V I M G T G L G H V S R F Y G I I K D A V N S G V K V I M T S Q C C I N G G
UniRef90_V8FVM7 Q G L V I A G Y G S G H V S E K V R D V L T P I V A K M P V I M A S R T G A G G

UniRef90_UPI0004711DD5 A G L V I E G L G S G N M G A G M G E G V A R A L D A G L S V V V S T R V P Y G
UniRef90_C2CNJ8 K V L I L Q V F G S G T I F K Q T I E T L K R I R N N N T E I V I T S Q C I S G G
UniRef90_E4T9D5 A V V I S G T F G V G N A G P S G F A E V V Q A S P Q P I V L S T R V P W G G
UniRef90_UPI0003B3D562 R G L I L E T F G M G N V D G S L T K V I R E A V E R G L V I V N V S Q C T N G G
UniRef90_R8BQ27 Q G I V L E T F G A G N A P K K L E Q A F K E A S D R G V V I V N V T Q C C T K G G
UniRef90_F4S6D8 E A V L L R A Y G V G N V P P G L V D V I Q C T I A D G V P V I V A S Q C A Q A G
UniRef90_U1SM12 K G M V L E A F G V G N M P D R W L P W L R E Q R K K G M L V Y L G S Q C A V G
UniRef90_E1Z8H3 D G W V I A A L G A G H V P E K L A P V L G R L A S R A P V V L C S R T G G I
UniRef90_R0ESM0 K G L V V M G F P G A A S L S P G A R E A A A E L E E K G I P T V L A V A R P T T G
UniRef90_C7Z6A6 A G L V V A G F G G G H V P A A F H P A A Q L L D S V P V V L A S R A N A G
UniRef90_F4C1X1 K G V V L E S Y G A G N A P E D L L S A F R E A A D R G V V I V N V S Q C A I G
UniRef90_U5HG71 Q G L V L Q S Y G A G N I P K T E S L S V L K Q A V E R G V L I V N I T Q C S Y G G
UniRef90_N6U7Z3 R A L V L Q L Y G T G N V P T E S F I L Q L L A D A S D K G I V L V A S T Q C C T G
UniRef90_B7G1S2 R G I I S I G L A P G R P A N G E R A A L Q R A V A Q G V V V V Q A A R A A R G
UniRef90_R0EKY3 D A L V I E C Y G S G N A P M A R P G M L G T L R E I G M P V V A I T Q C T S G G
UniRef90_UPI00037FBFA3 R A V V I E A M G S G N A G A A L I D G V R R H C R D G V V V V S S R V P D G
UniRef90_X5L986 R G V V L E T F G S G N T K P E L L R E L R E A A A R G L L V L N C T H C C L Q G G
UniRef90_UPI0003347626 R G L V I N E G F G R G N M P A Q L V P A L A R A R A D A G V L V G I A T G C I P G G
UniRef90_UPI000380C087 D G L V I E A L G S G N M S A Q L G H A A R R A D Q Q G I P V V V A T R V P Q G G
UniRef90_UPI000464A6BE R G V V L Q A T G N G N A N R G F V A V V G Q A V A G V P V I V S T R V Q A G G
UniRef90_UPI00047AED55 E A L L L E C Y G S G T G P E E L V A L L R E A H A R G V L L A A V I T Q C A Y G
UniRef90_G2L2L9 E G I V I E E M G A G N I G D E L A Q A A K A A A K K V P V V L T T R V D H G G
UniRef90_C6RCH0 R G L I I E T F G M G N A P S S V S T S I R S A V E K G I T V V M T S Q C A H G
UniRef90_M7SQZ9 E A L V I E E M G A G N V G G D I A E S I V J A A A E K N I P V V M T T R V D A G G
UniRef90_G4QSV3 D G L V I S A L G S G N V P A T M A T A L R A L D V P V L V S T R V P E G G
UniRef90_F8E024 R A I V L E A L G S G N A G A A V T D G V R R H C G N G V V I A V I S T R V A G A
UniRef90_A0PNX9 D A V V L E C Y G S G N A R P G M T A A L R E V C A E I P I V A I S Q C A T G
UniRef90_UPI00046AAA38 A S V V V A A P G H G N I P E F C V P V L R L L L N G V S V V R A S R V A A G G
UniRef90_A6GP12 S G I V L A A T G S G N I H P D I I T A E V V A A R R A G V A V V T T R V P Y G
UniRef90_H5U053 R A V I I E T Y G A G N I P P E L L E M L N Q A H Q Q G K I L V N L S Q C Y R S
UniRef90_G0QKV9 Q G I V I A G T G N G G V P S E G G D E I P E A M E K G L Q V V V
UniRef90_Q0V782 A G L V L A G F V G A G H V P T E D L V P A V L R L G E Q M P V I L A S R P G S G
UniRef90_K9AYY8 R A V I L E G F G A G G V P T D F I A A L D Y A R S Q G V A V I A T T Q C V Y D
UniRef90_U2TG02 E A I L L R A F G V G N V P P G L T D V V V D A I D A G A A V V V A S Q C H E A
UniRef90_UPI0003FF1491

UniRef90_M4YMW2 D A I L I N A Y G N G N A A D T A R A S L Q A M Q D L D I P I F V R S Q C H E G
UniRef90_A4BBZ2 D A V I L Q S F G H G N F S Q A D V Q V M Q A Y Q A Q G G M I I N V S Q V F D G G
UniRef90_UPI00035C9900 R A V V L E A L G S G N A G A A V V D G V R R H C A D G I V V A V S T R V P G G
UniRef90_A0A024JYG9 D G I V L A A L G S G N A G P A Q L V E A V R Q C T A R A V P V V S S R V P N G
UniRef90_K5Z1D4 A S T V S A M L G N G P T D P E F L D A L S A A V K A G V V L M D N T Q V Q R A
UniRef90_G7Z7V6 L A T L W E N V G G A A P S S P T V L G A E Q A P A A P Q V R A F L Q P P L K G
UniRef90_G1S2L3 R A F V L S V Y D N G Y V P T K A A R L I E T L I E H D I L V V A V G Y N P S T
UniRef90_UPI00037F5L1
UniRef90_K1T747

UniRef90_S8EZZS A V V L Q L Y G S G T A P K E L L D E S I K A A I E N G I N I V A T T Q C R R G
UniRef90_UPI00035C9900 K G I L L M G T G L G G H I A T K F L E S I S E R V K D G M K A V I T T Q C I F G
UniRef90_A0A022LW36 R G A V I E G F G G H V A E R T V D A V R A L A Q M P V V L A S R Q C V P E G
UniRef90_UPI00047621D1 D G I V L A A L G S G N A T Q A V V E A V G R A H A R G V P V V V S S R V P E G
UniRef90_M4BL96 K A L V F A A L G T G N C Q D G F L R L V R L A I A S D I P V T V T S Q C V P E R G
UniRef90_S9WUR2 E G L V L V V P G V G K L H G A L A E T L R P A S Q Q K V V V A L V V Q D L R G G
UniRef90_S4XDG8 H G L V I A G F S G S G N A G G L T P G V R R A I D A G V P V V L C T R V P G G
UniRef90_E4YGP0 R G V V F G S Y G A G N G P S N R E D I I R R A I A R G V F I V I S R V Q T G
UniRef90_UPI0003B7844A C G L V V E A L G A G N M G D G M G K A V S A A L D R G V P V A I T S R V P D G
UniRef90_H0JAV2 Q G L V L E C Y G S G T G P A D F L A A L A E L R D A G V P V V A L S Q G A R G
UniRef90_D5USG1 D G I V L I G T G S G N T V A L A D A V R R A I A G V T V V V S T R V C S
UniRef90_UPI0003B3CB76 S G L V L Q T L G S G N V P A S I A E L I E A H G E S D V V F A S A S H C A G G
UniRef90_U5VKF5 Q G L L L E C Y G S G T G P H A L L E V L Q A A R Q R G V M I V V A S Q C P E G
UniRef90_H6BUM9 K G L V I L E G A G A S L S T T A T T A A A D A L Y A Q G I P V V A A P P I T G
UniRef90_V7IGJ1 E A A I L L S Y G Q G H A P A E L L A A V Q H F T Q N G G L L L N I S Q A H H G
UniRef90_L9JA82 K G V V L E T F G S G N T K P D L L Q E L R A A A E R G L T I L N C T H C L Q G
UniRef90_C4FCZ0 E A A I L L R A Y G V G D I P P G L T D V I A D A L H D G V P V I I A S Q C Q Q A
UniRef90_UPI0002D269E7

UniRef90_L8DDH5 S G I V L E A L G S G N T N A R V V R A V R E A V A A G V H V V V T T R V P F G
UniRef90_UPI00035C9900 P G V V L E G M G A G N T P A E V A P L V G D L A V K I P V V V L A S R A M T G
UniRef90_R7IB23 K G I I M A G T G D G S V P H E W E E P G I V D A T K K G V I V I R S S R V P N G
UniRef90_T0M9R7 K G V I L I G T G L G H T S A E I I D V I R K L S K E T A F F M T S Q C I F G
UniRef90_G3U9Z9 S A G S L R P R G T W G P S H R A F C A L S E A F P K Y L L I A H C V R G G I G
UniRef90_F2RGX2 Q G L V V A F G A G H A P G W L V I E P L A E I A R R I P V V L A S R T G G G
UniRef90_R0I8P8 H G L V I A G T G N G N V P N G Q D E V A E A L E Q G L Q I V V
UniRef90_I7L855 D G L V V E A L G A G N V P P R A E G L K R A L R S G A P V V I S T R A A A G
UniRef90_HOULH1 S G F V I E S Y G C G S G P C S I M P F L L Q A A R A G K P V V N V T D A E D G

UniRef90_Q00WU7 E L R P E L Y A A G R S G P V M T I E C S V V K M M L C L A N 310 320
UniRef90_E3B794 P A V E T Y G A V G V M G G Y L R A T Q V R L L V M T M L A T G A S R E S I A A
UniRef90_R9A9G0 S V N A A Y E A G V V P G N D L T S E A A L T K L S Y L L S T S L P V E R L A R E
UniRef90_U1R3Q4 T V L L G A Y E T G V G T G D M T L E A A Y A K L V Y G L S Q G L T G A R L A Q
UniRef90_G7E764 M V S P V Y A A G V T S G Y D M T T E C A L A K L G Y L L S K E L T T A Q V R K
UniRef90_C9S818 F V S P V Y G A G V I F G Q D L T T E A A L T K L S F L L A L N L T T A E V S A
UniRef90_UPI00030908F6 P V F R N T Y G F A V I P A G W L S P H K A R L L L S V A V G C G L D G Q A L S A
UniRef90_K1PZ42 C V M T S Y D A G V I C G G D M T P E A A L T K L S Y V L S K T W T L D K K R K
UniRef90_E6KRG7 E V M L G H Y E A G I G A H D M T L E A L Y A K T V F L L S Q G V D R N Q D L A R
UniRef90_UPI00045EC04E P V L R A T Y A Y V L H A G D L C G L K A R L L L S L L L M S Q D D G E D V A A
UniRef90_UPI00037E7840 S E T D L R R A G L Y F A G L L S A P K A R L R L L F G L S A G I P A R E L A
UniRef90_UPI00042CB597 A V T S D Y G A G M A L S G D M T S E A A L A K L S Y V L G L G L S L D G R K E
UniRef90_P61401 I T H P Y V Y S R G R F A T Y L T P E K N Y V K L L Y V L G K E S D L D G I K K
UniRef90_UPI00029A837D P T A R Y T Y G F A Q M A G F L C P R K C R V L L W V L I G C G M D D E L L E H
UniRef90_C8ND90 E V A G H S Y A V G A G A G R M T P E A V Y A R L H C L L A E S D A P
UniRef90_D4JWG3 G V D L R A T Y A V G T D A G Y M T T E Y A V A W M M
UniRef90_D6GV18 A T N K F V Y E N T I Y V G D M T T E T A F V K M M F A L G K S K K I E E I K N
UniRef90_G9ELH2 Y T N Y D N K Y G F I V A K G L S P H K S S L L L S L A L T R T R D I D K L Q Q
UniRef90_T0N9J2 M V D M N V Y S T G L P A G S M L P E V A M V K S M H L L G N
UniRef90_V8FVM7 S T T K V Y G Y K G M M A G G L C P R K T R L L L N A L L W S G A T R L E I Q Q
UniRef90_UPI0004711DD5
UniRef90_C2CNJ8 K T S L A Y G G A G V N A G E F R P G Q A R I
UniRef90_E4T9D5 E I S F G K Y E N A I S G K D M T A E A A I T K A M H I V G N
UniRef90_UPI0003B3D562 P V V P M Y G N G G I L A G D L N P T Y Q S R I L T A L L V S Q G Y T G A D F A E
UniRef90_R8BQ27 F V S P L Y A A G V V F G H D L T T E A A L T K L S Y L L A V N L T Y A N V Q A
UniRef90_F4S6D8 T V S S D I Y E T G V S G R D M T T E C A L A K L G Y L L S K G L S I E V I R E
UniRef90_U1SM12 E V L L G H Y E T G V G T G D M T L E A T Y A K I V F L L S Q G L R G S E L A S
UniRef90_E1Z8H3 P L H P E L Y K S G S A A Q M T P E C A V V K L M L C L A
UniRef90_R0ESM0 L C E R T Y G Y A G A E I D S L S P A K A R V A L L A L L
UniRef90_C7Z6A6 G V P S I N P G P V I F S S Y V D A E Q A R V M L Q L A I G T G L S L D E I R D
UniRef90_F4CIX1 E P L R A T Y S G F I S A G C L G A P K A R V L L T L L A A A G E P P E R V R A
UniRef90_U5HG71 S V S E I Y E A V G I A G D M T V I E C A L A K L A Y L L S K D L T P A Q V R K
UniRef90_N6U7Z3 A V S N A Y E T G M I S G Y D M T T E A A L T K L M W V V G L S L D Y
UniRef90_B7G1S2 S V M M G H Y A G V I S A D M T Q E A I A C K V G Y L Y G R G D S H A E A S N
UniRef90_R0EKY3 V V P Q A F L Q V L A G D L A A K L R I L L M L I L A Q S P L P D
UniRef90_UPI00037FBFA3 G V D L S R Y A V G I D G S D L T P E A A L A K L G F L L D R G V S G A D M R V
UniRef90_X5L986 V A A Q Y G A G A I M V P T L R P A Q A R V L L M A L A A G R P V A E V
UniRef90_UPI0003347626 A V T S D Y A S G T A M A G D M T S E A A L A K L S Y V L G Q G L S P E G R K Q
UniRef90_W0AFX9 G T A P A Y D S G A I G A H D L T S A R K L R L L F A V A L A G G R D A E
UniRef90_UPI000380C087 A V K L A Y E Y G A V S A R T V H P G Q A R L A L I A L A T G I N P E E L F R
UniRef90_UPI000464A6BE R T R P S Y T F E G Y D G S L K P V Q A R L K L A V A L A G A G L K G N D L Q K
UniRef90_UPI00047AED55 P V M A V Y G G G G
UniRef90_G2L2L9 Q V E F G V Y A A G L S A G G M T R E A A L G K L F G L L G A G L G R D E A Q R
UniRef90_C6RCH0 P V E G I Y G A G I S S G T L R A P Q A R I L L A A A I T T D T D P A E L
UniRef90_M7SQZ9 L V S P L Y E A G V V F G H D L T S E A A L T K L S Y L L A A Q S N P K V V A D
UniRef90_G4QSV3 L V E
UniRef90_F8E024 G V H F V Y G S T G R S A G N L R P S Q A R M W L L T
UniRef90_A0PNX9 R V G A G Y G A G A V M V P R L P P S Q A R V L L M A A L T A E L P I V E V
UniRef90_UPI00046AAA38 G V D F S R Y A V G I D G T D L T L E A A I A K L G Y L L D G G V R G A E L R V
UniRef90_A6GP12 G V E Q G G E F N
UniRef90_H5U053 P V V A T Y G G G G V V S R W L R A P Q A R M A L I A L L S T G H D A D D V A D
UniRef90_G0QKV9 N V M S I Y E V G V V C G W D C T F E A M S S K L A F L L S K N Y S T E T I K I
UniRef90_Q0V782
UniRef90_K9AYY8 A S L T R T Y G Y L I P A G I L D A R K A R I A L T L A L S Y G L D P A E V F A
UniRef90_U2TG02 G V H L S R Y E N G V L A
UniRef90_UPI0003FF1491 E V L P G R Y A G A V G S R D M T L E A T Y A K V Q F L L A Q G L R G A E L A E
UniRef90_M4YMW2
UniRef90_A4BBZ2 E V S F G Q Y A G A V S C G R M S F E A A L T K I L L L C N E S K D A Q W I Q Q
UniRef90_UPI00035C9900 H V A A Q Y E A K V F M A G A W T V I E T A Y A K V W V G L S Q G L R G H A L Q H
UniRef90_A0A024JYG9 G V S A G Y G
UniRef90_K5ZID4 L L T S S Y A A G A I Q A S I L R P G Q A R I L L A A L I A A G R D K Q Q M R A
UniRef90_G7Z7V6 Y A T G L G A I G A V G A Y D M T P E A S Y A K L V C L L A A G L D A D T V K A
UniRef90_G1S2L3 M V M A G A G V I G F D M T S E A A L A K L S Y V L G Q G L S L D D R K Q
UniRef90_F9F5L1 P V I H E R V K G V I P G L H L D P R Q C H E L L T L F I W K G F S K V E I R R
UniRef90_K1T747
UniRef90_S8EZZ8 S A N L L A Y E S G V W G K D L T L E A C V A K L A Y L M G K G Y T G A P L K D
UniRef90_T0MXP6 T T N L D I Y S T G I S V G N I L P E T A Y V K M M H V L G N Y E E E E F E T
UniRef90_A0A022LW36
UniRef90_UPI00047621D1 R L V A S Y G A G A I H S A E L R P G Q A R I L L L A H L A A G T P R D A L R A
UniRef90_M4BL96 R T Q L S D T Y A T G I T S L D M T I E A C V A K L G Y L M G K G V Q G K E L K M
UniRef90_S9WUR2 T L Q P S E E A R V V Y V G D M T P T S A E V K L S Y L I G K A L S Y E K I R S
UniRef90_S4XDG8 P V D A I Y G G D G R S G G L L S P P Q A R M E L L C Q L A
UniRef90_E4YGP0 I V S S A Y A A G C V L G A D M T P T A L A K L S Y V L G E G L T A T Q R K E
UniRef90_UPI0003B7844A E I A L S Y G A G G P T G R L R A G Q A R M L L A A A V A T G T E P A T L F A
UniRef90_H0JAV2 T V E L G T Y A A G I S G R G M T R E A A L G K L H A L L G C G L E R A A V A E
UniRef90_D5USG1 E
UniRef90_UPI0003B3CB76 V S P T Y A E A G V I G G G D L D A R K L R L L L A C A L A E Q R D P E Q L K S
UniRef90_U5VKF5 S V V F D T S A A G V S G G G M T R E A A L G K L F A L L G A G L D A D A E R
UniRef90_H6BUM9 G V P G I S P G T V I K S G Y V G D Q A R I M L Q L A I N A G Y S L D Q I R D
UniRef90_V7IGJ1 R T G T A Y A A G A V G G G K C N I E T A T A L M T L A A G N R W T A E Q L Q Q
UniRef90_L9JA82 A V T T D Y A A G M V S G F D M T S E A A L A K L S F V L G Q G L S L D D R K K
UniRef90_C4FCZ0 E V L L G H Y A G A I G S G D M T L E A A Y A K V M F L L S Q G V D A A D F G T
UniRef90_UPI0002D269E7
UniRef90_L8DDH5 E T S S T Y D A G A V F S R E L R A G Q A R I Q L A A L I A S E A S V M V V H N
UniRef90_A0A011JB3 H V I T Q T Y G Y P G V P S G Y L S G L K A R L L L G L V L R S A R G A S I P E
UniRef90_R7IB23 P V T Q R Y A D E G M L S G T L N P Q K S R V L L Q L A L T K T N D P K K I Q E
UniRef90_T0M9R7 N V N M N V Y S T G I P L G N M L A E T A M V K A M Y L S A N Y P D N F V E
UniRef90_G3U9Z9 G V A E G A D A G L V S G F D M T S E A A L A K L A Y V L G R G L S L D D R K Q
UniRef90_F2RGX2 A T L T D T Y R S P I P A G P L D P A K A R I L L H T L L S A G Y D R P R I T A
UniRef90_R0I8P8
UniRef90_I7L855 P V
UniRef90_HOULH1 V D L T R Y R N G Q I A A E R M T F Q A A C A R L S C L L A R Q A D

UniRef90_Q00WU7
UniRef90_E3B794
UniRef90_R9A9G0
UniRef90_U1R3Q4
UniRef90_G7E764
UniRef90_C9S818
UniRef90_UPI00030908F6
UniRef90_K1PZ42
UniRef90_E6KRG7
UniRef90_UPI00045EC04E
UniRef90_UPI00037E7840
UniRef90_UPI00042CB597
UniRef90_P61401
UniRef90_UPI00029A837D
UniRef90_C8ND90
UniRef90_D4JWG3
UniRef90_D6GVI8
UniRef90_G9ELH2
UniRef90_T0N9J2
UniRef90_V8FVM7
UniRef90_UPI0004711DD5
UniRef90_C2CNJ8
UniRef90_E4T9D5
UniRef90_UPI0003B3D562
UniRef90_R8BQ27
UniRef90_F4S6D8
UniRef90_U1SM12
UniRef90_E1Z8H3
UniRef90_R0ESM0
UniRef90_C7Z6A6
UniRef90_F4CIX1
UniRef90_U5HG71
UniRef90_N6U7Z3
UniRef90_B7G1S2
UniRef90_R0EKY3
UniRef90_UPI00037FBFA3
UniRef90_X5L986
UniRef90_UPI0003347626
UniRef90_W0AFX9
UniRef90_UPI000380C087
UniRef90_UPI000464A6BE
UniRef90_UPI00047AED55
UniRef90_G2L2L9
UniRef90_C6RCH0
UniRef90_M7SQZ9
UniRef90_G4QSV3
UniRef90_F8E024
UniRef90_A0PNX9
UniRef90_UPI00046AAA38
UniRef90_A6GP12
UniRef90_H5U053
UniRef90_G0QKV9
UniRef90_Q0V782
UniRef90_K9AYY8
UniRef90_U2TG02
UniRef90_UPI0003FF1491
UniRef90_M4YMW2
UniRef90_A4BBZ2
UniRef90_UPI00035C9900
UniRef90_A0A024JYG9
UniRef90_K5ZID4
UniRef90_G7Z7V6
UniRef90_G1S2L3
UniRef90_F9F5L1
UniRef90_K1T747
UniRef90_S8EZS8
UniRef90_T0MXP6
UniRef90_A0A022LW36
UniRef90_UPI00047621D1
UniRef90_M4BL96
UniRef90_S9WUR2
UniRef90_S4XDG8
UniRef90_E4YGP0
UniRef90_UPI0003B7844A
UniRef90_H0JAV2
UniRef90_D5USG1
UniRef90_UPI0003B3CB76
UniRef90_U5VKF5
UniRef90_H6BUM9
UniRef90_V7IGJ1
UniRef90_L9JA82
UniRef90_C4FCZ0
UniRef90_UPI0002D269E7
UniRef90_L8DDH5
UniRef90_A0A011MJB3
UniRef90_R7IB23
UniRef90_T0M9R7
UniRef90_G3U9Z9
UniRef90_F2RGX2
UniRef90_R0I8P8
UniRef90_I7L855
UniRef90_HOULH1

F F
 E
R M
A F E A F
F M
W M G T
R F

E M
W A E Y
 M
 F E E Y
R K Q F

H F A R H
E M

W M S K
 F E T
A F R R F
 M
 M
 M E

C F D
Y
W F
 M
 M E
F F R
 Q Q
R F R
W M
Q F A T
Y Q Q
T F
E M

 M E S
M M R K
A F
K M E T
T M
 E T
R F
W
R E A Y
W F
 F E
A E Q
 A K
W M
C F
A F A P Y
Y F E E Y
 M Q K
 A Q
A F

UniRef90_H8GTW1
UniRef90_W4LJD4
UniRef90_UPI00024846FF
UniRef90_U5KMA5
UniRef90_X1PJK0
UniRef90_T1BG82
UniRef90_G3H390
UniRef90_S9VVSZ9
UniRef90_L8GJ11
UniRef90_C9T3Q6
UniRef90_A0A058Z8W7
UniRef90_J3PME4
UniRef90_S9VF15
UniRef90_E9DS71
UniRef90_G0QH18
UniRef90_A0A031FLL4
UniRef90_K2DV82
UniRef90_I6ZAY6
UniRef90_UPI0003C84CBC
UniRef90_UPI00028A08E6
UniRef90_S6AED3
UniRef90_UPI0003B46155
UniRef90_G3IX98
UniRef90_D3A387
UniRef90_C4GLD4
UniRef90_Q0UHQ9
UniRef90_U3B2E4
UniRef90_UPI00037B5741
UniRef90_W5M392
UniRef90_UPI000375BF12
UniRef90_Q4JW83
UniRef90_UPI0003F10B60
UniRef90_K2BSP7
UniRef90_UPI000476231A
UniRef90_UPI00037B596B
UniRef90_J2SQ15
UniRef90_B9Z8W1
UniRef90_I4ZVL3
UniRef90_G4SZ29
UniRef90_B2ASF5
UniRef90_D0WJZ2
UniRef90_HOUL15
UniRef90_E9QCJ1
UniRef90_K5YLR4
UniRef90_V7M047
UniRef90_UPI0003315710
UniRef90_UPI000477EAFE
UniRef90_B5DZV2
UniRef90_X0C4K3
UniRef90_A0A010ZNF1
UniRef90_X6M1J9
UniRef90_UPI0002487E04
UniRef90_UPI00037414AF
UniRef90_D1B5M2
UniRef90_A0A031LYE9
UniRef90_D2Z582
UniRef90_W4U8U1
UniRef90_U6L5J4
UniRef90_F5ST67
UniRef90_Q19Q38
UniRef90_Q5UCB3
UniRef90_UPI0003814601
UniRef90_N8SAK9
UniRef90_F9GAP6
UniRef90_N9M5C2
UniRef90_N9B302
UniRef90_G7G9R0
UniRef90_L2F4V1
UniRef90_S3MRG7
UniRef90_K0KG84
UniRef90_UPI000289B963
UniRef90_N8YEP8
UniRef90_UPI00047594C3
UniRef90_A5WGS9
UniRef90_W6TQW4
UniRef90_K4E7R8
UniRef90_R7U5Y2
UniRef90_UPI000343FFDA
UniRef90_S3YMK4
UniRef90_E3F0L1
UniRef90_R6M575
UniRef90_UPI0003B67BE7
UniRef90_B2WHU5
UniRef90_F3KG30
UniRef90_B2I368
UniRef90_N9DU60
UniRef90_B1K1X7
UniRef90_R6UEQ9
UniRef90_H6LBX2
UniRef90_R6ISK1
UniRef90_R7G308
UniRef90_LOWIM0

1 10 20 30 40 S

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

UniRef90_H8GTW1 UniRef90_W4LJD4 UniRef90_UPI00024846FF UniRef90_U5KMA5 UniRef90_X1PJKO UniRef90_T1BG82 UniRef90_G3H390 UniRef90_S9V5Z9 UniRef90_L8GJ11 UniRef90_C9T3Q6 UniRef90_A0A058Z8W7 UniRef90_J3PME4 UniRef90_S9VF15 UniRef90_E9DS71 UniRef90_G0QH18 UniRef90_A0A031FLL4 UniRef90_K2DV82 UniRef90_I6ZAY6 UniRef90_UPI0003C84CBC UniRef90_UPI00028A08E6 UniRef90_S6AED3 UniRef90_UPI0003B46155 UniRef90_G3IX98 UniRef90_D3A387 UniRef90_C4GLD4 UniRef90_Q0UHQ9 UniRef90_U3B2E4 UniRef90_UPI00037B5741 UniRef90_W5M392 UniRef90_UPI000375BF12 UniRef90_Q4JW83 UniRef90_UPI0003F10B60 UniRef90_K2BSP7 UniRef90_UPI000476231A UniRef90_UPI00037B596B UniRef90_J2SQ15 UniRef90_B9Z8W1 UniRef90_I4ZVL3 UniRef90_G4SZ29 UniRef90_B2ASF5 UniRef90_D0WJZ2 UniRef90_HOUL15 UniRef90_E9QCJ1 UniRef90_K5YLR4 UniRef90_V7M047 UniRef90_UPI0003315710 UniRef90_UPI000477EAFE UniRef90_B5DZV2 UniRef90_X0CAK3 UniRef90_A0A010ZNF1 UniRef90_X6M1J9 UniRef90_UPI0002487E04 UniRef90_UPI00037414AF UniRef90_D1B5M2 UniRef90_A0A031LYE9 UniRef90_D2Z582 UniRef90_W4U8U1 UniRef90_U6L5J4 UniRef90_F5ST67 UniRef90_Q19Q38 UniRef90_Q5UCB3 UniRef90_UPI0003814601 UniRef90_N8SAK9 UniRef90_F9GAP6 UniRef90_N9M5C2 UniRef90_N9B302 UniRef90_G7G9R0 UniRef90_L2F4V1 UniRef90_S3MRG7 UniRef90_K0KG84 UniRef90_UPI000289B963 UniRef90_N8YEP8 UniRef90_UPI00047594C3 UniRef90_A5WGS9 UniRef90_W6TQW4 UniRef90_K4E7R8 UniRef90_R7U5Y2 UniRef90_UPI000343FFDA UniRef90_S3YMK4 UniRef90_E3F0L1 UniRef90_R6M575 UniRef90_UPI0003B67BE7 UniRef90_B2WHU5 UniRef90_F3KG30 UniRef90_B2I368 UniRef90_N9DU60 UniRef90_B1K1X7 UniRef90_R6UEQ9 UniRef90_H6LBX2 UniRef90_R6ISK1 UniRef90_R7G308 UniRef90_L0WIM0

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

UniRef90_H8GTW1 P G H D G V V V L H G T D T L E E T A Y L L H L V L P A G P P V V V T G S M R
UniRef90_W4LJD4 Y D G Y N G L V V L H G T D T M A F T A S M L S F L L D G S K S P V V V T G S Q L
UniRef90_UPI00024846F D D F D G F Y L L T G T D S L E E L A F G L D Q L I N P E K S F V I T G S A V L K
UniRef90_U5KMA5 Q D Y R G G V V V E S G S D N M V S T S T A L S F L L N L G K P I I F T G S L I
UniRef90_X1PJK0 K D G V D G L V I G H G T D T M H H T A A L S F M V H S P I P I V I G S Q R
UniRef90_T1BG82 G T D T M A Y T A A A L G F L L D L P G P V V L V T G A Q R
UniRef90_G3H390 G T D T M A F A A S V L S F M L N L Q K P V V I L T G A Q V
UniRef90_S9VSZ9 K Y T G F V I S H G T D T V V Y I A T A L S F M L N L G K P I I F T G S L I
UniRef90_L8GJ11 C R H Y R A F L V L C G T D S M E E V A F A L E L L I D H P G R P V V V T G A M K
UniRef90_C9T3Q6 K S G A D G L V L T Q G T D T L E E M A F L L D L L W E H P Q P L V V T G A M R
UniRef90_A0A058Z8W7 G Y D G F V V T H G T D T M S Y T A A A L S F A L N L A K P V V L T G A Q L
UniRef90_J3PME4 Y Y L Y D S F V L L H G T D T M A Y T A S A L S F L L N L G K N V I L T G A Q I
UniRef90_S9VF15 Y F D Y D G F V V Q N G S D G M V F T A T A L S F M L N L G K P V I F T G S L I
UniRef90_E9DS71 Y H L F D G F V I L H G T D S L A Y T A S A L S F M M N L G K P V I L T G S Q A
UniRef90_G0QH18 K D E Y D G I V V G H G T D T M S Y T G A A L S L M L K G N T G V L L V T G A Q R
UniRef90_A0A031FLL4 D D A V H S V L V L H G T D S L E E T S L L A A L Q V G L P I P V V F T G A Q F
UniRef90_K2DV82 M L P A A L Q L H K P V V V T T C A M R
UniRef90_I6ZAY6 A G R C D G V L L L H G T D T L A Y S A A A L S F L L L G L P V P V L L T G S R
UniRef90_UPI0003C84CBC Q Y D G F V V I H G T D T M A F A A S V L S F L L N L Q K T I I F T G A Q R
UniRef90_UPI00028A08E6 H D A H D G F V V L H G T N T A H S A A A A L L A L S D F G K P V V F T G S Q V
UniRef90_S6AED3 R D G C D A V L L L H G T D L A Y S A A A L S F L L L G L P A P V V T G S M Q
UniRef90_UPI0003B46155 R Y D G F V L L H G T D T M D Y T A S A L P F L L N L S K P V V I V T G S Q V
UniRef90_G3IX98 D Q Y D G I I I T H G T D T L A Y T A C A L S F Y F N A A K P M L L V I S S D Y
UniRef90_D3A387 P D Y D G I L L L H G T D T M A Y T A N L E A L S L Q G N K P I I L T G S Q W
UniRef90_C4GLD4 Q H D A L L L L H G T D T L A Y T A N L L A L A L N P G K P I I L T G A Q K
UniRef90_Q0UHQ9 A T K S P T D T L E E T A F F L D S T I S S S K P V I L V T G A M R
UniRef90_U3B2E4 H D G F D A V L L L H G T D T L A Y S A A A L S F L L L G L P V P V L L T G S M
UniRef90_UPI00037B5741 E Q Y D G I I V T H G T D T L A Y T A A A L F Y F Y R L R R P M L V I S S D Y
UniRef90_W5M392 A E E Y D G F V L L H G T D T L A Y T S S A L S F L L R G K K P V V V T G A Q R
UniRef90_UPI000375BF12 D K P V V V T G S Q V
UniRef90_Q4JW83 P T P A G I V V L H G T D T M E E S A L A A A C A L D L P C P V V F T G A Q R
UniRef90_UPI0003F10B60 Q F H G F V V L H G T D P M A F V A S A L A F V L N L Q K T A L L A G S Q V
UniRef90_K2BSP7
UniRef90_UPI000476231A D P A V G G V V I L H G T D T L E E T A M L I D L S H T D P R P V V I T G A Q R
UniRef90_UPI00037B596B P G R F D G I V I T H G T D T L A F T A A A L C Y F H A L E T P I L L V T G S D Y
UniRef90_J2SQ15 M F L D Y L W P Y D T P L V I T G S A M R
UniRef90_B9Z8W1 Y T Q Y D G W V V L H G T D S M D F T G P A L S F L L T L S K P V V I T G S Q V
UniRef90_I4ZVL3 Q D Y Q R F V I I H G T D T M S Y A C A V L A H L L G Q S A Y V V L T G S Q Y
UniRef90_G4SZ29 E R Y D G V I V T H G T D T L A Y T A A A L S Y F H A L N K P M L L V I S S D R
UniRef90_B2ASF5 T E G S D G G I M F H G T N T L E E T A F G V D L T L N C S K P F V A T G A M R
UniRef90_D0WJZ2 R E E A D S F V V L H G T D T M S Y S A A A L S Y A L V G D R P V V F T G A Q Y
UniRef90_HOUL15 T G L S G V L V L H G T D T M A N T A S W M D C F G S L P I P M I L T G S Q L
UniRef90_E9QCJ1 Q Y D G F V I L H G T D T M A Y T A S A L S F M C N L G K P V I L T G S Q V
UniRef90_K5YLR4 Q Q G C D A V L V L H G T D T L A Y S A A A L S F L L G L E A P V V L T G S M L
UniRef90_V7M047 H G G A D G V V I L H G T D T M E E T A L W L D L T Y D G P A P V V L T G A M R
UniRef90_UPI0003315710 Q Y H G F V V I H G T D T M A F A A S V L S F V L N L Q K P L V L T G A Q V
UniRef90_UPI000477EAFE A D V A G V I V V T G T D S I E E V A A W L T Y A G P W P F P V A V T G S M L
UniRef90_B5DZV2 Y D L F D G F V V L H G T D T L A Y T S A A L S F F L N L D K P V V V T G S M I
UniRef90_X0CAK3 R P D I T G V V W V S G T T M H I J A R F A E H T I P L N K T I V L T G A I K
UniRef90_A0A010ZNF1 E G Y T G I I T V C G S G V M E E M A Y L V N L L W Q H S E P V I F A N L M V
UniRef90_X6M1J9 Y D N Y K G F I I H G T D T M A Y T A S A L S F L L N L S K P V V I T G A Q I
UniRef90_UPI0002487E04 L Q N F Q H F V V I H G T D T L S Y A A A T L S R F L A E S C H V V L T G S Q Y
UniRef90_UPI00037414AF T G R Q F V L L T G T D T L S Y L S A F L A H S L D S D L C V I I T G A M Q
UniRef90_D1B5M2 S G A S G A L I H G T D T M A Y S A A A L S C L A G C P V P V V L T G S Q F
UniRef90_A0A031LYE9 K Q F Q N F I V I H G T D T M S Y A A A L S R F L H D T C R V I I T G S Q F
UniRef90_D2Z582 N G A T G F L I L H G T D T M A Y T S A A L S L C F P H D V P I V L T G S Q L
UniRef90_W4U8U1 M A Y T S A A L S Y A L E F G K P V V V T G A Q Y
UniRef90_U6L5J4 Y E D Y D G F V V L H G T D T M A Y T A S V L S F M L N L R K A V V L T G A T L
UniRef90_F5ST67 Q G Y R H F V L I T G T D T L S Y L G S F L A E A F A G D V S L A L T A S M R
UniRef90_Q19Q38 Y E F F D G F V V L H G T D T M S Y T A S A L S F M L N L G K T V I I T G S Q I
UniRef90_Q5UCB3 K Y R G F V I N N G K D N M V A T A T A L S F M L N L G R P V I F T G S C I
UniRef90_UPI0003814601 A A G A A G V V V A Q G T D T L E E T A Y L V D L V W P H P E P F V L T G A M R
UniRef90_N8SAK9 L Q N F Q H F V I T H G T D T L S Y A A A T L S R F L A E S C H V V L T G S Q Y
UniRef90_F9GAP6 Q Q D I S G V V L V L G S K L T L V V R F L E H T I A L D K S V C L T A A L K
UniRef90_N9M5C2 R K I Q Y F V I I H G T D T L S Y A S A V L A H F L G N S A H V V I T G S Q Y
UniRef90_N9B302 E G F H R F V V I H G T D T M S Y A A A T L A R F L G N S C H V I I T G S Q Y
UniRef90_G7G9R0 L Q D Y Q H F V I I H G T D T L S Y A A A T L A R F L A Q S C H A I I T G S Q Y
UniRef90_L2F4V1 S G I Y Q F V L L T G T D T L S Y L A A F L A H S L D S D I C V I V T G A M Q
UniRef90_S3MRG7 T F K H F I I I H G T D T L S Y A A A T L S R F L A Q S C H V I I T G S Q F
UniRef90_K0KG84 S N P D G I V I L Q D F S N I E T S A F L D L V L N S S I P I I L T T E P T
UniRef90_UPI000289B963 Q G D R R F V L I T G T D T L S Y L G A F L A E A F A G D I C I V V T G S M R
UniRef90_N8YEP8 A G Y E N F V I I H G T D T L S Y A A A V L S R F L Q S S C R V I L T G S Q Y
UniRef90_UPI00047594C3 A Q G H R Q F V L I T G T D T L S Y L G S F L A E A F A G D V C I L L T A S M R
UniRef90_A5WGS9 Q G Y R K F V L L T G T D T L S Y L G S F L A E A F A G D L C L A L T A S M R
UniRef90_W6TQW4
UniRef90_K4E7R8 Y D A Y D G F L I L H G T D T M H Y T A S A L S F L L N L A K P V L L T G S M V
UniRef90_R7U5Y2 R F D A F V V L H G T D T M A F T A S A L S F M L H L G K P V I V T G S Q I
UniRef90_UPI000343FFDA
UniRef90_S3YMK4 L N G F Q H F V I I H G T D T L S Y A A A T L A R F L G H S C H A I I T G S Q Y
UniRef90_E3F0L1 P G Y D G I V V I T H G T D T M A Y T G A A L A Q A L G W P H P V V L T G A M H
UniRef90_R6M575 D C G Y D G I I I T H G T D T L Q Y T A A A L G Y M F G D D I P I V I V I S S N Y
UniRef90_UPI0003B67BE7 R G A E A I C I L H G S D T M A H T A A A L S F A L D L E I P V V L T G S N L
UniRef90_B2WHU5 I V I T G G T I
UniRef90_F3KG30 Q G S D R I I I T H G T D T M A F S A A A L A C F G Q Q A V K I V L T G S C F
UniRef90_B2I368 E G Y Q H F V V I H G T D T L S Y A A A T L A R F L G Q S C H I V I T G S Q Y
UniRef90_N9DU60 L Q Q Y Q H F V I I H G T D T L S Y A S A V L S R F L M G Q S A H I V L T G S Q Y
UniRef90_B1K1X7 D R E S E A F V L C C G T D A M E D V A Y A A A L L F D R D R P V V L T G A A I
UniRef90_R6UEQ9 F S D S D G V I I T H G S D T L Y T S A L V A M I M P N V K P V V L T A A D Y
UniRef90_H6LBX2 L S D Y L G V I I A H G S D T L P Y T A A A L C Y G L D A P I P I V L V A A N Y
UniRef90_R6ISK1 Y S A Y R G V V L L H G S D T L T Y T A A L L A H L L P D K P L V L V A A G T
UniRef90_R7G308
UniRef90_LOWIM0 D G Y R K F V L I T G T D T L S F L A A F L A H A F D T D L S L V I T G S M Q

UniRef90_H8GTW1 H A G E V S W D G P G N L L D A A L V A L 140 P R T A G R G P L V A F G G D L F D
UniRef90_W4LJD4 P L Q Q T R N D A L R N L L V T S I V I A A T S E Q S T V P E A M L F F N L D L M R
UniRef90_UPI00024846FF P A D A M G Y T D G E A R N L H D A L K V I Q S P S T K L G I L V L T F N E D L F H V
UniRef90_U5KMA5 P G D R I Y T D M K R N I L L A L L F V A S C S Q V C E V C L L F D E M L F V R
UniRef90_X1PJk0 S S D R P S S D A F N L R C A T Y A A A Y S D I A E V V V C M F K Y N L L F H R R
UniRef90_T1BG82 S P D R P S S D G P E N L L A A A V G V A R T A T M G E V V V L M H H R F A Q L F H R R
UniRef90_G3H390 P I H A L W N S D G R E N L L G A L L M A G Q Y I I P E V C L F F H Q N F I L F R R
UniRef90_S9V5Z9 P A E C I Y T D M K R N L L S L M V A N C R Q L T E V C I L F D D T L Y R
UniRef90_L8GJ1 P H D V L G Y D G H A N L R D A L A V C L D P H A R G L G T L V V M N D A I H A
UniRef90_C9T3Q6 S P R A P G A D G P A N L V J A A V L T A A S R L S R E R G V L V A M N D T I H A
UniRef90_A0A058Z8W7 P L G H P Y T D G R Q N L A S A I F L A G Y E L V I P E V C I F F N R R H L H R R
UniRef90_J3PME4 P L S S P R N D A V E N L L G A L L Q I S G T Y E L I P E V S L Y F N H R L W R
UniRef90_S9VF15 P A T R I Y T D M K R N T I L S L M L A A C R Q L S E V C I L F D D K L Y R R
UniRef90_E9DS71 P I F A L Q S D A V D N L L G S L L L A G T F V I P E V G L F F H H K L Y R
UniRef90_G0QH18 S S D R P S S D A S M N L R C A S K F L K E T D F Q G V G I C M H Q N S E D L P
UniRef90_A0A031FLL4 T A D D P S S D G P D N I R V A L A A T R A A V P G V W V A F G G S G R V L S
UniRef90_K2DV82 P A S A L S P D G P Q N L L D A V A L A R T P G A C G V V A M C A G V V H G
UniRef90_I6ZAY6 P A G T P D S D A W A N L F G A M Q A L H Q G L E P G V Q V V F H Q N Q L M H
UniRef90_UPI0003C84CBC P F G M P G S D A P G N V V G A L L A A A S G G S G V S V Y F D G T L F P
UniRef90_UPI00028A08E6 P A G V K G G D A F P N L L F G A L A Q L Q A G V E P G V H L F F N G Q L L P
UniRef90_S6AED3 P M Y Q R G D D A F Q N V C G A V A C A R Q N V P E V C V Y F F D S R L F R
UniRef90_UPI0003B46155 P L E N P K A N G L E N F I C A V E F I L Q K I E T G V F V P Y R N H Q Q I H Q
UniRef90_G3IX98 P Y D A A N S D A P L N L A T A V S A F S L K L K Q V A T A F D G K L F P
UniRef90_D3A387 P L G A A H S D A P A N L H T A L A A I Q N P S T H G V L L A F D N G K L P
UniRef90_C4GLD4 P A T A L S A D G P L N L F Q A V T L A S S P A G R D R G A M I V L N D R I G S
UniRef90_Q0UHQ9 L P A G P G S D A W P N L F G A L A L A E G C R P G V H L Y F D G Q L L H
UniRef90_U3B2E4 P L A H A Q A N G V D N F V C A V E F I L N V K E S G V F V P Y R N T I Q V L H R
UniRef90_UPI00037B5741 S L F E P R S D A V E N I L G A L L I A Y C R D P A L Q L V S V F F N H R L F Q
UniRef90_W5M392 S L L A E H S D S K K N V I D S F L T A C G E V A G V F V V F N G K I L N P
UniRef90_Q4JW83 P G D D A A D P D G P A N L S R A A L A S G E L S T G V H L V F G D A I L P
UniRef90_UPI0003F10B60 P I H A L W S D G R E N L L G A L L M A G Q Y V I P E V C L F F Q N Q L F R
UniRef90_K2BSP7 M N L Y N A V A A A A P E N S R N K G V L V M N D R L Y S
UniRef90_UPI000476231A S N D H P D A D G P A N L G L A I A T A A D P A A R G R G V L L
UniRef90_UPI00037B596B P L A D P R A N G L A N F M C A V D F I A Q Q P Q P G V F V P Y R N P G Q I H Q
UniRef90_J2SQ15 S A A Q P G A D G P A N L L D A C R V A L A Q N S R Q R G V Q V V M N Q Q I H Q
UniRef90_B9Z8W1 P L F Y N T D A F Q N V C G A V A S A Q S G V P E V G V V F M Q N Q I L Y R
UniRef90_I4ZVL3 P L L N A A G K Q P R D A L D N L C F A D S V Q Q V E M G V Y L A F N Q E L V H
UniRef90_G4SZ29 P L D H P E A N G L N F J A A V E F I R Q R R E T G V F V P Y R N P G E Y T Q
UniRef90_B2ASF5 P D T Y I S P D G R S N F J A A V A T A V S P D A R D R G G L I A F N D R I T S
UniRef90_D0WJZ2 P L G D V G S D A A G N V A G A L R A A A S G R T K G V S L F F G H H L L A
UniRef90_HOUL15 T L D Y V P E D A L V N L R G A A A A C C F A P G G V W V Y F H H K L F P
UniRef90_E9QCJ1 P I Y E M R N D G R D N L L G A L L I A G Q F V I P E V C L Y F F H H K L Y R
UniRef90_K5YLR4 P A G V P G S D A W D N L F G A L Q A L H D G A V A G V Q L Y F H D R L L H
UniRef90_V7M047 S A D A P D A D G P G N V R D A L A V A A H P A A R G L G V L L C F A G R V L Q
UniRef90_UPI0003315710 P I H A L W S D G R E N L L G A L L M A G Q Y V I P E V G L F F Q N Q L F R
UniRef90_UPI000477EAFE P G A E P G S D A A A N L R G A I D A V R L G C W R E P V V V F A G K V L L
UniRef90_B5DZV2 P I Y E T R T D G R N F V S S L I T S G C Y K I P E V C V V F A N K L L R
UniRef90_X0C4K3 P L T A Y G A E G P G N I L S A I L T V A T C H L N R V G V Y L A M D N K I M L
UniRef90_A0A010ZNF1 Q G R A G L K E G L V N L H C S V L A A I S P M A R D K G V L L C S S G E L F G
UniRef90_X6M1J9 P I S E V F N D A K N L I G A L C E V A G R L E I C E V C I L F F N K L F R
UniRef90_UPI0002487E04 P L T R E F T D A I D N L N T A L E A V I N L P V G V Y L A F F H Q V M H
UniRef90_UPI00037414AF P L L Q P D S D A S E N L F Q S C R L A V T G E A G V V Q A C F T Y E H W H
UniRef90_D1B5M2 T R N Y M P E D G T V N L K G A V Q V I C S N V R G G V V Y F N W K L I Q
UniRef90_A0A031LYE9 P L L H P S S D A L D N L N H A I Q Y M E N V S D G V Y L C F N H Q I F H
UniRef90_D2Z582 T L D Y M P E D V T V N L R G A A Q V A F S D I S G V W I Y C N W K L I P
UniRef90_W4U8U1 S L G V V G T D A A P N V T G A L R A A T S G R L N G V A V E F G S K L L R
UniRef90_U6L5J4 P L M H L S S D A K R N V G L L L L A A Y G A L G E V V V L F G S Q V L R
UniRef90_F5ST67 P L F D P H S D A W G N L S E A I G L A A H G E S G V V V T F A G E S W P
UniRef90_Q19Q38 P L F E T R T D G K D N L M S A L I I A G N Y V I P E V C V E F E S K L F R
UniRef90_Q5UCB3 S Q N F L T N G V S N L Y D S V L V A N S S D F V N Q G T L V V S D K K I T S
UniRef90_UPI0003814601 N P T L A G P D G P A N L L A A A R V A A E S A C G L G A L V F G D E I H A
UniRef90_N8SAK9 P L L N I Q G D N T R D A L D N L N T A L D A V T R P V G V Y L A F Y L Q V I H
UniRef90_F9GAP6 P L S A H G A E G P G S L S A T R V S V A S Q D N Q I L I F N D I L T L
UniRef90_N9M5C2 P L L N A Q G N K Q R D A L D N L R F A L D S V S M C T G V Y L A F H H Q L M H
UniRef90_N9B302 P L T R E F T D A I D N L L A L E Q V Q A L N P G T Y L A F H H Q V F H
UniRef90_G7G9R0 P L T R E F T D A T G N L Y L A L E Q V Q V L P A G V Y L A F H H Q V F H
UniRef90_L2F4V1 P L L Q P A S D A S K N L L Q S C H L A L T G T A G V Y A C F A Y D H W P
UniRef90_S3MRG7 P L L D P T S D A M D N L N T A L K H L L H V E A G V Y L A F D Q Q L I H
UniRef90_K0KG84 S Q N F L T N G V S N L Y D S V L V A N S S D F V N Q G T L V V S D K K I T S
UniRef90_UPI000289B963 P L V D A N S D A W D N L T D A L K L A A A G E S G V K I C F S G E S W P
UniRef90_N8YEP8 P L T R E F T D A I D N L N S A L D Q V V K V T N G V Y L A F Y H Q V F H
UniRef90_UPI00047594C3 P L F D A N S D A W G N L T Q A V G L A S H G D P G V Y I A F A E E S W P
UniRef90_A5WGS9 P L F D A N D D A W G N L S E A I G L A S H G E P G V S I T F A G E S W P
UniRef90_W6TQW4 P L V E P Y N D A R R N I V I S L M L A S N P S I R E V C I Y F D Y Q L F R
UniRef90_K4E7R8 P L Y E V R S D G R D N F L G A L T L A G N Y S I P A H G G P V C L F F Q N Q L F R
UniRef90_UPI000343FFDA P L T R E F T D A I G N L Y L A L E Q V L A L P S G V Y L A F F H Q V F H
UniRef90_S3YMK4 P L G L Q L D A E A N L E L A L A V T P P A G V W L A F A D Q V L P
UniRef90_E3F0L1 V L D D K R A N G L N T N F A Y A V K F I E G K Y G T G L Y V S Y C N T G G E V P
UniRef90_R6M575 P P D D P E S D A R N N V G S A L V K A L R T L P R G V Y L V F A G D P E S V H L
UniRef90_UPI0003B67BE7 C M R K S V D G L V P A R G F L K A G L A P R P V I F N D G S Y P E
UniRef90_B2WHU5 T L I E H P E S D V S A N L L G A L A A A E N N I A N G V Y V S F L F N E K Q V F Q
UniRef90_B2I368 P L T R E F T D A I E N L Y L A L E Q V I A L P V G A Y L A F H H Q V F H
UniRef90_N9DU60 P L S R E F T D A I D N L N F A L D S A V Q A P A G V Y L A F H H Q L I H
UniRef90_B1K1X7 P G G H A N A D G P R N L A D S A H L A R A L P Q G A G A L V A F A G R L F D
UniRef90_R6UEQ9 P P D N S L S N A L S N F S A S V E F I Y N L K L P G F Y A I Y E N S D H I T Y
UniRef90_H6LBX2 A I G E P D S N A I T N F S A S V D F I Y N L K L P G F Y A I Y E N S D H I T Y
UniRef90_R6ISK1 P P E A P G S N A L P N L D L A V Q Y L L S G A K D G V Q I A Y D G L H P
UniRef90_R7G308 M Q I V D D G K V I A
UniRef90_LOWIM0 P L L L P Q C D A W N N L S Q S L D L A A A Q C G T F V H F H H Q S F N

UniRef90_H8GTW1 A R T V T K V H T S A V D A F G G S P G P I G R A D R T G D E Y G A Q V H Y F
UniRef90_W4LJD4 G N R S A K V N A S E F P A F G S P N F P P L G Q A G I D I D I N E S L I L P P
UniRef90_UPI00024846FF A N R Y L R K K Q D S S L T I G R F K S H H F G P P I G Q A G I D I D I N E S L I L P P
UniRef90_U5KMA5 A N R A I L K V N R S N L R P F D S P H F P P I A T M Q G G S L A I H R P L L L P
UniRef90_X1PJK0 G T R V R K M H S S Y R S T F R T I G D T P I A M V S P D T L I P I K Y D Y K K
UniRef90_T1BG82 G T R V R K M H S T R R D A F Q S R N L P P L G Q W T E G A F H A S G P V R
UniRef90_G3H390 G N R T T K V D A R R F A F C S P N L P P L A T V G A D V T I N R E L V Q K A
UniRef90_S9V5Z9 A N R C I K V S R G S L R P Y D S S P H F P P L A V M E G A M R L L I G P L L R P
UniRef90_L8GJ11 A R Y V Q K L D S Q L I Q S F S S L P A G S P L G Q I R N G R P L L Y H R A L P P
UniRef90_C9T3Q6 A R W I T K S H A L S V I G T F V S P D S G P L G Y V Y E E T P V Y I N T L S R
UniRef90_A0A058Z8W7 G N R C I K E N S W S L D A F G S P N F S P L A S L G I S V T V N K G L V R R I
UniRef90_J3PME4 G N R S M K V S S V E F D A F G S F N L E P L V K L G C N V E V R W D L I S R P
UniRef90_S9VF15 A N R T I K V S R A S L R P Y D S P H F P P L A R M S G S L K L W G P L L R P Q
UniRef90_E9DS71 G N R T T K V S S A A F E A F A S P N C E P L A K V N G L G V T V N W P L V L R
UniRef90_G0QH18 P Q K V R K M H T S R R D A F E S V N T D Q L G T V N I E T G E I S K N
UniRef90_A0A031FLL4 T W G L S K V T T D R A D A F E S
UniRef90_K2DV82 A L A V Q K V H V Y R T D A F G S G D A G P L G F M E E G V L R L V K A W P S H
UniRef90_I6ZAY6 G A R L T K L G A E A L D A F A V L P R P L G A I V G A D V T I N R E L V R A
UniRef90_UPI0003C84CBC G N R V I T K V D T R R F A F C S P N L P P L A I V G A D V T I N R E L V R A
UniRef90_UPI00028A08E6 A M R A T K V S A L D L H G F V N P Y D G P L R G K R T
UniRef90_S6AED3 G A R V S K Q K S E A F D A F A E S R R P L R G K R T
UniRef90_UPI0003B46155 G N R V L K V N A S D F C A F D T P N F A P L G Q Y G I T L E L E R S L M L P G
UniRef90_G3IX98 G T R L A C S L Q L S G D F F S V Q G K S Y M Q F E N R Q F S L L N P P A Q Q T
UniRef90_D3A387 A V G S S K V S T E T S A G F D N L H F G A L A E W E N K G W H N I H I A P T
UniRef90_C4GLD4 P V G S S K T S T E H D N G F A N P H F G T W Q T E N G Q P E N A P A P
UniRef90_Q0UHQ9 A F Y T T K N N A N T L D T F S S T E A G Q L G V F I N Q V P F F F A P A R
UniRef90_U3B2E4 G A R A S K L K S E A F D A F V N M A R P R H G Q C L E F Q L P E A L H Y R R P R
UniRef90_UPI00037B5741 G V R L V S S P Q L G D F F S V R G E S Y L E F D G H R F S R T G R L A P
UniRef90_W5M392 G N R V T K Y D C D A F D A F N S P N V I E P L V E M G V T I E V N A R P F P V P
UniRef90_UPI000375BF12 G S R S S K I R T R S Y A F E S L N Y P Y I G L V E N G K V V Y T E G I F A N
UniRef90_Q4JW83 A R G A Y K A H T T A E T A F R N A L I D S G K H D D G S P S P D G T V L P L
UniRef90_UPI0003F10B60 G T R V T K V D T R R F A A F R S P N L P P L A V V G A D V I I N R E L V G R A
UniRef90_K2BSP7 A R G V R K C D T I N P A A F A D R E N G A L G R V N Y A G K V T F A N T K P D K R
UniRef90_UPI000476231A A F A G S V M P V R G I I K A D T T A A A F T G P L
UniRef90_UPI00037B596B G H H L A S S L Q L S G D F I S V Q H K S Y M Q H D G A F R I L H P R K P R Q Q
UniRef90_J2SQ15 A C S V R K T D S L A L Q A F S S P V V I G P A G L L L E D R V H Y L R P P G P R
UniRef90_B9Z8W1 G N R T V K T N A S Q F N A F S S P N Y P A L G E Y G I E L D I D F A N V L P L
UniRef90_I4ZVL3 G R T A L K Q H T T E L K A F A G I D A E V K I P P Q L Y T H
UniRef90_G4SZ29 I H L G S R L A S S L Q L S G D F I S V Q N K S Y C R F E N G V F S E P L T L
UniRef90_B2ASF5 I Y Y S T K S N A N T P D T F R S I E Q G N V G A F L G G G Q Y F S S G P S Y
UniRef90_D0WJZ2 G N R V T K T S S W S F E G F A S P S V P P L A R T G P W R W Y A T D E V V S
UniRef90_HOULI5 G R S A H K R N S M N P D A F V S L G E P P L H F E P A W G L S G Q A S A G K R
UniRef90_E9QCJ1 G N R V T K V D A G S F D A F N S P N L P P
UniRef90_K5YLR4 G A R A S K L G T A S L D A F A T
UniRef90_V7M047 P L G L S K V A T E D L S G F A G R L N V I G T V A G D V A L T G
UniRef90_UPI0003315710 G N R V T K V D A R R F A F C S P N L P P L A V M G A D
UniRef90_UPI000477EAFE G R R V Q K V S G T L V D A F D T P G F P P L A R R E S H G W R V I E R P A A A
UniRef90_B5DZV2 G N R T V K V N C N S L D A F D S P N A P L L G T F E G D I I N N F L V R P G
UniRef90_X0C4K3 P R R S Y K H H N A F V P G D G S L L G S V V N F R P E I Y N E P R D R
UniRef90_A0A010ZNF1 A D D V T L V D P G S P D A F Q S Q E R G S V G K M L N G E I K F F S E P R R
UniRef90_X6M1J9 G N R C T K M D P W H Q N A F E S P N L L P L A L F G I D L E V I E R L F L P A
UniRef90_UPI0002487E04 A R T V L K T H S T A L D A F K G Q K A D Q E M N I D S Q V I N V Q
UniRef90_UPI00037414AF A Q T V Q K I H S H D M I A F T G H H K G Y P A T S Y R Q F T A K Q R E I W L
UniRef90_D1B5M2 G N R A H K A R A S H P D A F T A M G G F P L F F N P E W G L A N E P G I P A G
UniRef90_A0A031LYE9 A R T A V K T H R T A L N A F C G E A F T N V I K P I S S S F V
UniRef90_D2Z582 G N R A H K A Q A L H P D A Y V A T N G Q P M Y F N P E W A R K D R K G T V R Q
UniRef90_W4U8U1 G N R V T K L S S W A Y N G F D S P A V P P Q L A R T G A P W Q W V E N E S T G C
UniRef90_U6L5J4 G P R C S K A S C S S M E A F S S P N F P A L G N I G V D L V I H D R L R A P P
UniRef90_F5ST67 A Q T V Q K I H S H D L M A F T G H T R Y P A N S Y V K S L P V G R R K N W I E
UniRef90_Q19Q38 G N R T I K I L S S A A L D A F N S P N V T P L A K M G I N V E I D Y R S I F R P
UniRef90_Q5UCB3 A N R T I Q I L S R S A I S P F D S P H F P P L A T M H G K M S I H R T F L R
UniRef90_UPI0003814601 A R R V R K T H S T S T A T F R S P D T G P L G V V E G R V R I L A T P P A H
UniRef90_N8SAK9 A R T T L K A H S T A L D A F K G L K A E Q Q I A V D H S V I Q V Q
UniRef90_F9GAP6 A R R S Y K Q N N T L F S G D R S L L G R I V D F G P E M I H R P S N S
UniRef90_N9M5C2 A Q T A L K Q H T T E L N A F S G L E A N I T I Q A S Q Q C Y
UniRef90_N9B302 A Q T A L K S H T T E L D A F S G I D A T Q E C R T S S T A T I V H T
UniRef90_G7G9R0 A Q T I L K V H T T D L D A F A G V D A N L D C K T A T K M L V V Q N E H I E K
UniRef90_L2F4V1 A Q T V Q K I H S H D T I A F T G H Q Y P A T S Y H Q F T D K Q F T T K R E I W
UniRef90_S3MRG7 A A T A L K L H T T A L K A F H G L A Y H E K L N Q R P S K A A F
UniRef90_K0KG84 G F Y S I P V S T N L G N S I D S S P Q G L L G Q I Y E G K I Q W F Y S I D L
UniRef90_UPI000289B963 A Q T V Q K I H S H D L M A F T G H S R A A Y P A N S Y I R T L P D T R R Q H W
UniRef90_N8YEP8 A S T V L K V H T T A L D A F R G Q K H D H D L E Q N Q Q P P H F N E P L L I K
UniRef90_UPI00047594C3 A Q T V Q K I H S H D L M A F T G H H R Y P A N S Y D K R L P T A R R Q N W I E
UniRef90_A5WGS9 A Q T V Q K I H S H D L M A F T G H Q R A G Y P A N S Y Q K I L P A T R R H N W
UniRef90_W6TQW4 G N R S I K Y N A E K F E A F R S P N Y P I L A E A G V T L S F F K N Y I L P Q
UniRef90_K4E7R8 G N C C C K L H H T F G A F C S P N Y P V L G M V I E S T G F H L R E Q L L L P
UniRef90_R7U5Y2
UniRef90_UPI000343FFDA G N R V T K V D S R R F A A F C S P H L P P L A V M G T D V T I N R E L V R K A
UniRef90_S3YMK4 A Q S T L K A H T T E L D A F R A V I G I K A D Q R C D T T A D A L I V Q N Q
UniRef90_E3F0L1 A G H L V K A D S S G D K A F R A V A V I Q D M P E A I W E K R R F A Q K
UniRef90_R6M575 I H R G T R E H A T Y F D D V Y S L K K S E Y G F D D G E I T K R L K K T A K
UniRef90_UPI0003B67BE7 G T R V R K E R A S G R A F V S P N G G P V A T V E H G R L T R K G F A R D
UniRef90_B2WHU5 P L E I V I D D K E D F D A F G S P N L P P L A T V S S T R T N V L W H R V H R
UniRef90_F3KG30 V I D T L K P M I T F D E L S F Q A Q F R E S L G V F N Q T L T D F T A H S Y K P
UniRef90_B2I368 A Q T A L K T H T T E L D A F A G S G L S N V E F T P Q Q N E L I V Q
UniRef90_N9DU60 A S T I L K V H T T A L N A F A G S A K G N E C H A D W Q P L A V H E Q L I E K
UniRef90_B1K1X7 P V S I V K V W P Q A L Q P F G P E T A I R G S I E A D L V T L T G S G T I V D
UniRef90_R6UEQ9 N I Y L A T R L S E A N D K F S G S K E N S I A K V T N N S I S Y L N K P G L I N
UniRef90_H6LBX2 V H L A S R L Q E A D W L K D D F S S F G E P F A T Y D Q R G L C C T P S P K N
UniRef90_R6ISK1 A W A T E A D C N D R F H H A S V I P V P V Q A P A F H R R R I
UniRef90_R7G308 G T R A K T R S K S Y N A F S S I N Y P Y K A V I Q D K T V I S Y D R
UniRef90_LOWIM0 A K H T Q K I N S Q A P N A F M G A D A I F N K S S P S S I N T A I Y L

UniRef90_H8GTW1 A T P E P R P T Y A P A A L G A R V E V L Y A Y A G W Q G E G Y A E A A A R A 210 220 230 240
UniRef90_W4LJD4 P T G N T L D D D P G N A F Q N F S V A S L L L F P G I Q A S T V E A I L L S P P A
UniRef90_UPI00024846FF Y Q R T L N S D K N L T N N K V S I W T M A L D D P C L D E S T L E H L
UniRef90_U5KMA5 H P T G R L R I C A Q L N V K V L T L E L G P L E A F M V E T A A
UniRef90_X1PJK0 R R K D C D V I I D T T F E E K V A I V Y Y Y P N M Q P
UniRef90_T1BG82 P P H G L P P R V D G T L E A R E G A L L W L Y P G L S P E R A A A C D G L
UniRef90_G3H390 S G K D R L V V H S T M E R D V G L L R L Y P G I P A S L V R T F L Q P P L
UniRef90_S9VSZ9 Q P H G K L R V M P H M D T K V L V L E L G P C T P L D A L L L A V I E T T Q A
UniRef90_L8GJ11 F P H R P V A V A A A S K E Q D R V L V W P I T L G C G D F L I P D H L L R T L
UniRef90_C9T3Q6 L P K L I D H T Q F N A D V K I G F Y E S L L D G D A Q M L R S M F E S G Y
UniRef90_A0A058Z8W7 P D P
UniRef90_J3PME4 V E R Q A F R V H R D M C E N V A V L R L F P S I T P A S V S R A F L A P P L
UniRef90_S9VF15 P H G R L Q V M R H M H T K L L C L Q I G P Y V P I E V L V S R A C I Q H S T A
UniRef90_E9DS71 P T S I A E F R V Q R H L D T A H V A C V R V F P G I K P E M V D A V L R L P L
UniRef90_G0QH18 Y E N T Q E D Y S F E P G F N Q D V G W L R V R P P G M K P E E L D L L E A Q D Y
UniRef90_A0A031FLL4 R E N D A T V P H L P G D V S R L R V D V V A L P P G A D D V H L R A S L A G A
UniRef90_K2DV82 Q A A M S L E K I A A A T T W P R V E I V M N Y A G G S A A V V D A L L Q P P L
UniRef90_I6ZAY6 P A I A P A L D Y H Q P R R P V S L A V L P L Y P G I Q A A Q V Q A L L D S G V
UniRef90_UPI0003C84CBC G G K G R L M V H S S V E R D V G L L R L Y P G I P A P L V R A F L Q P P L
UniRef90_UPI00028A08E6 D A P R H G W A D P A P Y R R H D V T V I T M A P G M T A A R F R A M T T P A P
UniRef90_S6AED3 E Q I P S D L D Y R Q P R R P V T M A V Q P L F P G L G A A Q L H A V L E S G I
UniRef90_UPI0003B46155 P R T R L A A I S D A I D D W P V M Q F S A F P A Y D A G G I D A C V G T G I
UniRef90_G3IX98 P P R R I P L K A Y F S D R I L M I K P Y P G Y A R F N L D H V D A V L H D L Y
UniRef90_D3A387 Q H S D G L K P R L P N P E A K V S V R T L I P G Y A T Q E L S D G L P H L C A
UniRef90_C4GLD4 G G S L L Q R Q F N P R T R V V P I L L T P S N M L D N A A Q L N P H S D A
UniRef90_Q0UHQ9 P V I G Q V H F D V A N V T E L A Q V D I L Y A H Q D M D P Y L F N A T V D G G A
UniRef90_U3B2E4 R A V A L A I M P L F P G L G A A Q L R A V L A S G V
UniRef90_UPI00037B5741 F T A Q A E L P P L K P E F S G R I L A L M L K P Y P G L D Y S H I D A V L H S D Y
UniRef90_W5M392 N N W L P I C D W D S L P D V R T L R L F P G I T E N Y V K C V L A G D
UniRef90_UPI000375BF12 R D T V R H P Y N D R Y A S E V F L L R L T P G T N P A I F D A I Q S L G Y
UniRef90_Q4JW83 Q V A G L Y V P I V S T F A G D D G Q L I R A L R E Q N K R Q P D T Q V G T E V
UniRef90_UPI0003F10B60 R G Q G R L V R A F L Q P P Q
UniRef90_K2BSP7 H T Y Q S L K L G L F A A T L A P E V A I V Y G Y A G I N P Q M V E T I C K S G I
UniRef90_UPI000476231A R P L A R I P V A P A D I A A H R V D I I A L H P G A D S A M L D W H A T Q G A
UniRef90_UPI00037B596B A H Y R L T A R F S E R V M L L R P Y P G L D Y R N I N L D H A D A V L H D L Y
UniRef90_J2SQ15 T V L P L P Q Q T T Q K V A L L E A S L S A D T L L L E N I L A L D Y
UniRef90_B9Z8W1 P T T P D A F P A M Q F N A F P A Y S A T G G T A V I A N L I D A C V A T G I
UniRef90_I4ZVL3 T I T A K D L I K A Q F N C L S I M M Q P V G L D Q Q L H N L K Q L L A S P P
UniRef90_G4SZ29 K N K A G T A F D L K P D F S K R I A L I R P Y P G L N Y T L F D A V L H D L Y
UniRef90_B2ASF5 P T G R P H F D V T N T T E L P A V V V L Y G H
UniRef90_D0WJZ2 P T A G P E
UniRef90_HOULI5 T Y P R E L D R L F N N P Q R L N L V G E R I R P V L C L P G C Q P A F L G T E
UniRef90_E9QCJ1
UniRef90_K5YLR4
UniRef90_V7M047 P K T R P Y L G D L G A A A A P R V D I V A T Y L G S D A V A L D A C V A A G A
UniRef90_UPI0003315710
UniRef90_UPI000477EAFE T T L G P P G D H D A K V A L V T A Y M G A D G H V I D C A A Q A S
UniRef90_B5DZV2 P G A R P L A V T G E F Q M N V A S L R I T P D M S L D L I R S A L A E G P I
UniRef90_X0CAK3 P K T F D I E G L K P Y D K L P K T K Y F H P M M E E K E F D S A I G E V
UniRef90_A0A010ZNF1 P V K R L Q V H S T V F H D I V V L W L T P V F H H H
UniRef90_X6M1J9 L S H F E K A K T L N I N W M M L P I E Q E Q L A S N L D L I L S K P P
UniRef90_UPI0002487E04 Q L E N M D N T L Q N L A N V Q L T P M S A D N L A D L I R T M L K N Q P
UniRef90_UPI00037414AF S I Q L W S P G E E L Q L M G M S G D Q V D R V C G A I R W I F T V C L H G G E
UniRef90_D1B5M2 D I T E Q H I E R S T Q L N I A N L S L R P L E I K L F N Q H L T R F I D N S P
UniRef90_A0A031LYE9 P L S H T L S P G H G P D V A R N I G S R M A W L F C T P G F S P R L S G E E
UniRef90_D2Z582 G W L N P G P Y R Q H D V L V V D L S P G I S A R R L R A V L D P L P
UniRef90_W4U8U1 P P P G A P F R A F T G L C C S V C T L Q L A P G T P L E A L E A L L R T S L
UniRef90_U6L5J4 D T E A K L S D I M A H S Q N P T V Y C V P N S G E W L S T Q L T A L L D L P P
UniRef90_F5ST67 C T V A K F T V H S K L N E N V G I L R I F P N M P T Q T I S A F L Q A P M
UniRef90_Q19Q38 Y P H G Q F V R M D N M R D V V L C L K L G P S M R R V L R S V E L T E A
UniRef90_Q5UCB3 K P L P I P E P V A L T S A R V A L Y S V T L D D D G A L L A D F P T D Q R
UniRef90_UPI0003814601 L S H I E K A K S L N I V N W M V P T E I L Q F E R N L E I F S K H A P
UniRef90_N8SAK9 P K T F Q F E D Q V Y N K T K T K S K Y F P S T S E Q S D F D I A V K D G V
UniRef90_F9GAP6 Q V K A E D I R K A A G F N C M S I M M Q P I D L A Q Q L N N L H S I L A R P P
UniRef90_N9M5C2 E E I Q R S A A L S V V N L M M Q P I A M H Q L A Q Q L Q N I L T T A P
UniRef90_N9B302 A A H L S V F N L M L Q P I G O Q L Q L E N I L S P P
UniRef90_G7G9R0 L T Q H L E N L D N T L K N L A N I F L T P M S G D D L A N L L Q N M L K H K P
UniRef90_L2F4V1 E V H T T H L Q R A Q Q L N I L N W M L Q P V E K A T L A K N L K Q L S Q T P P
UniRef90_S3MRG7 T S D F N T F T K E T D S L P N I L I E N G O G R L N L E I I D F L E Q N D
UniRef90_K0KG84 L D D Q Y D I I D A I Q S R A E Q V R I H A L Y C L P N D T E V M S N L S Q P P
UniRef90_UPI000289B963 N E H F Q R A E Q L N L N W M M L P I S K E K F A D N L K Q L V N P P
UniRef90_N8YEP8 D S R A K L N D I K H N A Q S V N I A T L Y C M P N N D G W L A D Q L A Q Q P A
UniRef90_UPI00047594C3 H K L P A V L E A A K D T I P T L Y C V P N S A D W L A T Q L D N L L S L P P
UniRef90_A5WGS9 S E K Q L K V N L K F N P N I G V L K L Y P G I S P Q A V K A I T D S P V
UniRef90_W6TQW4 Q P S G P L K V Q S N M R G R V V V F A L H A E C D
UniRef90_K4E7R8
UniRef90_R7U5Y2
UniRef90_UPI000343FFDA R G K A R L V V H S S M E R D V G L L R L Y P G I P A A L V R A F L Q P P L
UniRef90_S3YMK4 Q I D Q A A Q L S V L N L M L Q P I A K Q Q F I L Q L N N L L L S P P
UniRef90_E3F0L1
UniRef90_R6M575 H D F F E S T K M C K K E K E E N T E S D I I L V K P P F G M R Y N V L P D G T
UniRef90_UPI0003B67BE7 A D G A P A G H P T V A R F D A R V L E L R V H P G L P F A A L E A A V A A G G
UniRef90_B2WUH5 S T D L S P F T I Q T S L D T A H V A C L R V F P G I T P V M V D A V L A E G L
UniRef90_F3KG30 K T L S A S I N P A D I K A E P S V V Q L S C Y P G M S A V P L C A A L A K G C
UniRef90_B2I368 D A Q I E K A A S F Q I L N W M M Q P I A T Q H L V Q Q L R H L L P A P P
UniRef90_N9DU60 A R H F N C M S L M M Q P I A P E L L F A N L Q A I A S K P P
UniRef90_B1K1X7 D S Y A E L D V S D L G A R V A I V T E T F G A L V G L P A I S E
UniRef90_R6UEQ9 T L T K G K R Q V F T G K P I I K R D I L L I K T Y P N Q N Y S F Y A P Q N A
UniRef90_H6LBX2 P T M L K L Y N P V T N D I P M I V E I L A L R A Y P G L N Y D V I D L R K R P
UniRef90_R6ISK1 L Q I T P H P G I D Y G A F D L T
UniRef90_R7G308 S R K P K A P I F Y D K L D G K V G L F K M T P G A D A R I L D R Y F E L S
UniRef90_LOWIM0 N Q L P S L I K R A K S V K I R S V Y A L P N D P N A L A D E L L V A A D A

UniRef90_H8GTW1 D G L V I A A L G T G N L P P E L L P L I A A T E K P V V V I A T R T H T G
UniRef90_W4LJD4 L G L I I Q A F G S G N A N P E L I N A L K T A H D E G V V L V D V T Q V L A G
UniRef90_UPI00024846FF D G L V I A G M G T G S V A N S L V D Q L S P K W T S K I P I V I T S R C Q V G
UniRef90_U5KMA5 P A V V L R C Y G S G N G P T F M K R L L K Q A R T R D L V V V I C T Q N R Y G
UniRef90_X1PJK0
UniRef90_T1BG82 R G I I L A G T G L G H V P E S H L R W I R T A L A R G V V V G M T T Q C L E G
UniRef90_G3H390 K G V V M E T F G S G N T N P D L L R E L R E A A E Q G L I I V N C H C L Q G
UniRef90_S9VSZ9 K A V I L A C Y G S G N A P H F M P Q L I Q K A Q A R H L L V V V T T Q N R Y G
UniRef90_L8GJ11 D G L V L S G M G T G T I P D S Y L E H L S P E W T S K L A I V I V I S R C P L G
UniRef90_C9T3Q6 D G I V V A G F G A G H V S G D E A D I I E R Y A S R I P V V V A S R T Y G G
UniRef90_A0A058Z8W7
UniRef90_J3PME4 Q G I V L E T F G S G N A P P A L L E A F K E A A D R G V V I V N V T Q C V V G
UniRef90_S9VF15 R A L I V A C Y G S G N A P S F M K Q I M D K A A E K K M L V V V T S Q N Q Y G
UniRef90_E9DS71 R G L S R E T C G P G G E G R L T Q V V E A A V R R G V V V V N V S Q C V S G
UniRef90_G0QH18 K G L
UniRef90_A0A031FLL4 D G L V L E A L G S G N T T P T V V A A V R D A V T A G I P V V V S S R V P R G
UniRef90_K2DV82 R G L V V A G T G N G T L H F D L A A A L Q R A E L A G V R V L R A S R C G E G
UniRef90_I6ZAY6 R G L V L E C Y G S G T G P A D D T A L L A T L T Q R G V V L V A I S C P Q G
UniRef90_UPI0003C84CBC K G V V L E T F G S G N T K P D L L Q E L R A A A E R G L V I V N C H C L Q G
UniRef90_UPI00028A08E6 A A V I L R A Y G A G C D E P G L E Q A I R N L V T G G T P V V V M S Q C L H T
UniRef90_S6AED3 Q C V L L E C Y G S G T G P S D L L A V L K E A H A K G V V L A A I S Q C P E G
UniRef90_UPI0003B46155 K G M V L Q S Y G S G N F P S G H P D S L K Q A R E D G V T I V D S T Q V I A G
UniRef90_G3IX98 H S G T A Y A S P Q W G E N Y S L T I E F M K R C E K Q G I T V Y L A S A D A Y Q
UniRef90_D3A387 Q A L L L Q S Y G H G N A P S N F V R T V Q A F T Q Q G K L L N I S Q V P Q G
UniRef90_C4GLD4 A I L L S Y G H G N A P A H P A L L T A I Q R Y T Q A G K H L L N I S Q V P H G
UniRef90_Q0UHQ9 K G V V F A G V I G A G T S S A A A L N M E R V F N A G I P I V S S H R S A D G
UniRef90_U3B2E4 Q G V L L E C Y G S G T G P A D F L A A L R E A R Q R G V V L G A I S Q C P L G
UniRef90_UPI0003B75741 H S G T A C T T E R W G E N H S L P E F I A R C R Q H G V E V Y L A S T D A Y E
UniRef90_W5M392 G G V I L E T Y G S G N
UniRef90_UPI000375BF12 K G I V I E G F G M G G V P F K L L S K I E D L M K D G M S I V V T T Q C P Y E
UniRef90_Q4JW83 D G L V L A A M G S G N I P T A V A E E L E A W R A E R T P V V V C S R V P T G
UniRef90_UPI0003F10B60 K G V V M E T F G S G N G P T K P D L L Q E Q E R G L I I L N C T H C L Q G
UniRef90_K2BSP7 R G L V Y A G V I G N G N P S E V L G V L A S A S A D G I T V V R A T R V P D G
UniRef90_UPI000476231A R A I V L Q A N G S G N T H P Y I V G A V G R L T A D G V V V V S T R V P F G
UniRef90_UPI0003B7596B H S G T A C V S P S T G K H H A L P E F I A Q C R M R N I A V Y L A S P D A Y Q
UniRef90_J2SQ15 D G L V I G G F G A G H I S Q R W A T M I E H V A E R I P V I L A T R T G S G
UniRef90_B9Z8W1 T G L V L E S Y G E G N F P S Q T Y Q A L A N A N A G V V I V D C T Q V L S G
UniRef90_I4ZVL3 N F L I L Q G F G T G N V N P D L I Q L F D D F Y N A G C A V V L T T Q V P F G
UniRef90_G4SZ29 H S G T A C A S M Q W G A D C S L L P F I E R C R K Q G I P V Y L A S D S A Y E
UniRef90_B2ASF5
UniRef90_D0WJZ2
UniRef90_H0UL15 E F L I L V G Y G A G N A D P A V L R Q V A E T Y R D C Q V I I A C S Q A E E G
UniRef90_E9QCJ1
UniRef90_K5YLR4
UniRef90_V7M047 R A V V L E A L G S G N A G P A V V D A V R R H C G T G V V
UniRef90_UPI0003315710
UniRef90_UPI000477EAFE D A V V V A A N G A G N L P V G M A D A V V R Q V R D G R L I V V G T R A H D S
UniRef90_B5DZV2 M G V V L E S Y G S G N I P S N W T E L I
UniRef90_X0C4K3 E G A V L G V Y D D G Y F P E R L T K G L K K L T D Q D G C I A A A V S Y G H T
UniRef90_A0A010ZNF1 G G L V L A G F G A G N V P P L W V P P I R N I L R R R I P V V I T S R C F Q C
UniRef90_X6M1J9
UniRef90_UPI0002487E04 H F L I I Q A Y G V G N V N D Q I I E K I K A L Q L N N C Q V I L A T Q V P L G
UniRef90_UPI00037414AF N A L M L L G F G A G N L P H N V E Q A L T D A H A Q G C L V A I S T Q C P F G
UniRef90_D1B5M2 E I L G V V G Y G A G N I P Q R V T K G A I L E A Y A R K P L I L A C S Q A E G D
UniRef90_A0A031LYE9 H V L I L Q A Y G T G N I N A D T T D L K Q L R A L G C H I V L S S Q V M F G
UniRef90_D2Z582 R V L A I L G Y G A G N A P S G A L H A V E R A F D P K P H V I A C S Q A E G D
UniRef90_W4U8U1 E A V I L R A F G V I N I P P G V V D A I L D V I S A G T P V V V A S C M Q A
UniRef90_U6L5J4 R A V V L Q L F G A G T A P P R F L A A I R A A I A A G V A V V A T Q C H K G
UniRef90_F5ST67 T G V I L M G F G A G N I P E Q L E N T L D K L Y Q H G H I V V C T T Q C P Y G
UniRef90_Q19Q38
UniRef90_Q5UCB3 R A I V I I A Y G G G N A P T Y M K E I V R K A V E R D I A V C V C T Q N L Y G
UniRef90_UPI0003814601 G L V V A G F G V G H V P A A L A P V L G E L A A R I P V V L T S R T G A G
UniRef90_N8SAK9 H F L I I Q A Y G V G N V N A G I T Q K I K S L Q E N G C Q I I L S T Q V P L G
UniRef90_F9GAP6 K G A V L G V F E D G Y W P G P L M K G L G T L M N E P D V I V A A V S Y G F S
UniRef90_N9M5C2 H F L F L Q G F G T G N V N E A L I A L I D Q L Y D Q G C L S V L T T Q V P F G
UniRef90_N9B302 H F L V I Q G F G T G N V N A D I L A I F Q K L R S Q G G C L V I L T T Q V T F G
UniRef90_G7G9R0 H F L I L Q G F G T G N I N A D L I T L F E A L F S K G C I I S S Q V T F G
UniRef90_L2F4V1 D A L I L L G F G A G N L P H S V E Q A L T I Q A Y T Q N C L V A I S T Q C P F G
UniRef90_S3MRG7 D F L L L Q G Y G T G N M D T E I L Q A L Q L L R K G C V C I L T T Q V A L G
UniRef90_K0KG84 D L S G L I I T S Q T S T P E F N S Q I Q D K I S K K I P V V I T T D T P N G
UniRef90_UPI000289B963 S G I M L L G F G A G N V P D A L A A A L Q L A Y E H G H M V I C A S Q S P F G
UniRef90_N8YEP8 M F L V I Q A Y G T G N V D D E I E T F K Q L K R S C Q T I L T T Q V P L G
UniRef90_UPI00047594C3 D G I I L I G F G A G N I P Y T L A T M D T L Y K Q G H M L V C G T Q C P F G
UniRef90_A5WGS9 T G V I L M G F G A G N I P D K L A A T M D T V A A H G H I L V C T T Q C P Y G
UniRef90_W6TQW4 D A I I L E T F G S G N T T W F I E C L Q K A I N K G K V I V D I T Q C Q R G
UniRef90_K4E7R8
UniRef90_R7U5Y2
UniRef90_UPI000343FFDA K G V V M E T F G S G N T K P D L L R E L Q A A A Q R G L I I L N C S H C L Q G
UniRef90_S3YMK4 D F L I L Q G F G T G N V N D E I L A I F E Q L Y Q K Q C L P I I S T Q V T F G
UniRef90_E3F0L1
UniRef90_R6M575 K A V L H T T Y H S G T M C P D L K S F A D D A K K R N I P I Y I Y G A G E S
UniRef90_UPI0003B67BE7 L L L Y P C A T Y G P T G D D S L R F A E F V T A R G G V V G T V S A A P
UniRef90_B2WHU5 K G L V L E T F G A G N T P S A M T R C L A D A V K R G I V I V N V T Q C L I S G
UniRef90_F3KG30 C V I V N L Y H S G T G P S T L E K N G L L E A I R S R P D L T R H I P K P Y Q
UniRef90_B2I368 H F L V L Q G F G T G N V N D E F L A T L D E L Y T R G C V P I L A T Q V T F G
UniRef90_N9DU60 H V L I L Q G F G T G N V S A D I I A L L Q A L R Q Q G C A V I I T T Q V P F G
UniRef90_B1K1X7 D G I V V A G K G A G G F S A Q S E S F L S E A A T H I P V V L S T R C A H G
UniRef90_R6UEQ9 A A V V L Y L Y H S A T A C T V I I E F I K K C S A S T P V V L A S S D K Y A
UniRef90_H6LBX2 V R A V L H H C G S G N I T I G E N G T S L L A F I K N N P N V L I S Y K N I H G
UniRef90_R6ISK1 D A V L H R M Y H S A T V E P E P A T A F A H R C K E A G V P C L F V T P K P A E
UniRef90_R7G308 D A V I V E S F G P D G E E F D F Y D V I E K W R K G K I A V M C T Q V N E G
UniRef90_L0WIM0 C A V I L I G Y G A G N L P K S I I D A L A K L T D R G V A I I C T T M C A Y G

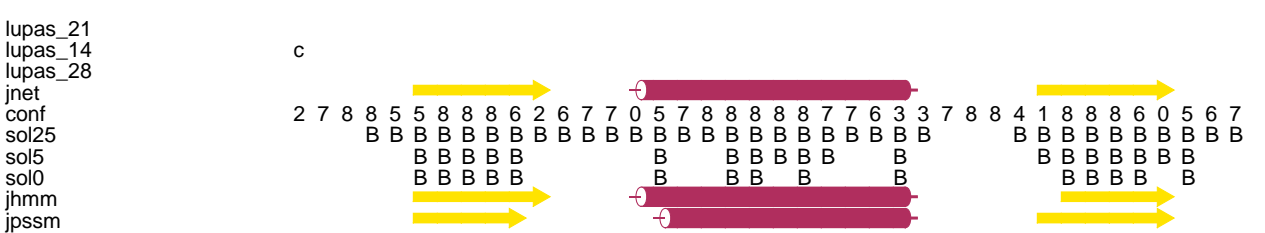
UniRef90_H8GTW1 P G A T L V A A G A I 290 P A S F L N A H K A R L L L V L L S 310 S L G M D R E Q I R A 320
UniRef90_W4LJD4 S V D L D A Y A G A I S G Y D M T P E A A L T K L I Y L L
UniRef90_UPI00024846FF L N Y D D Y Y Y K G I G Y E E L N P L Q A R I K L M L E L A
UniRef90_U5KMA5 A V N L A E Y E A G I S A G D M T Q E A T M I K L K Y L F G L G M S A A Q V R S
UniRef90_X1PJK0 R V D P Y V Y A S T G R Y L E D L L P E V A Y V K L L W S L G Q S R D P T E L R R
UniRef90_T1BG82 A V T S D Y A S G M A G D M T S E A A L A K L S Y V L G Q G L T L D D R K R
UniRef90_G3H390 S V N L R E Y E L G V G A G N M T Q E A T F V K L K Y L F G I G L S A E T V R S
UniRef90_S9V5Z9 Q N Y D D F Y Y R G S G Y E D L N P L Q A R L K L I V A L S
UniRef90_L8GJ11 R T T K T Y G F H G M L A G W L S P R K A R L L L W A L L A A G K N L E E T R A
UniRef90_C9T3Q6
UniRef90_A0A058Z8W7 T V S S D L Y E T G R A G R D M T T E
UniRef90_J3PME4 K V N L S T Y E L G I S A E M T P Q T T Y V K L K Y L F G L G L S N A E V R A
UniRef90_S9VF15 F A S P V Y A A G V I F G L D L T A E A A L A K L S Y L L A
UniRef90_E9DS71
UniRef90_G0QH18
UniRef90_A0A031FLL4 L L V P S Y A A G A M H S P T L R P G Q A R I L L A A L L A A G A D R D A I A A
UniRef90_K2DV82 R V L P V A G S A F A D S D G L S P V K A R V A L M L A L
UniRef90_I6ZAY6 H V E F G I Y A A G V S A G G M T R E A A L G K L F A L L G A G L D Q A Q V E H
UniRef90_UPI0003C84CBC A V T S D Y G A G A V S G F D M T S E A A L A K L S Y V L G
UniRef90_UPI00028A08E6 R I N L N K Y A G A I G A D D M S L E A L Y A K L Q F L L S Q E I P P G R F S T
UniRef90_S6AED3 A V E F D I Y A A G V S A G M T R E A A L G K L F S L L G V G L P Q G E V I E R
UniRef90_UPI0003B46155 R L A S S S Y A A G I S A A D M T P V A A L A K L T I L L A A A W S R G Q V E Q
UniRef90_G3IX98 S T Q A L T I E Q G A K I W D V S I E A A Y V K L L L A Y G N F D D K Q E I M D
UniRef90_D3A387 C A A A V Y A A G I N G G K C N L E T A T A L M T L A V S H D W N A D K V
UniRef90_C4GLD4 N A A A V Y A
UniRef90_Q0UHQ9 F V P
UniRef90_U3B2E4 H V D F A V Y A A G V S G G G M T R E A A L G K L F G L L G A G L P A A E V I E R
UniRef90_UPI00037B5741 S T R F L L K E G A R M I W N M S M E A A Y V K L L L A Y G N F N D P S R I L E
UniRef90_W5M392
UniRef90_UPI000375BF12 G G D L T I Y E V G I P G Y D M T T E A L V T K M M W A L G Q T T D P A E V A K
UniRef90_Q4JW83 G V S F V Y G G T G R S G G A M R P S Q A R I E L L Y E L A R A R
UniRef90_UPI0003F10B60 S V T S H Y A A G M V S G F D M T S E A A L A K L S Y V L G R G L S V D G R K E
UniRef90_K2BSP7 P V T D D A K Y G F I V S D S L T P Q K A R I L L M L A L Q K N L A K S E I Q Q
UniRef90_UPI000476231A P V E A V Y G G G G A V D
UniRef90_UPI00037B596B S T R Q L I E Q G V H V L W D L S I E T A Y A K L S L A Y G N F T Q Q E E I V G
UniRef90_J2SQ15 T T A R A S Y G F G S M A G F L C P R K A R I L L W L L G C Q R Q H E L A Q
UniRef90_B9Z8W1 T V N D S A Y A A G A W L P D M T P M A A L A K V I L L S T H G W S A D T V K T
UniRef90_I4ZVL3 S T D Q R Y A I A E W V Q D C R I L L N D A Y G H A D L Y A K A L K
UniRef90_G4SZ29 S T R E L L E Q G A E M L W N L S L E C A Y V K L L L A Y G N
UniRef90_B2ASF5
UniRef90_D0WJZ2
UniRef90_HOULI5
UniRef90_E9QCJ1
UniRef90_K5YLR4
UniRef90_V7M047
UniRef90_UPI0003315710
UniRef90_UPI000477EAFE R T G Q L A A A D V P V V G G M T P H H I R V F L A I A L S Q G R S A T D
UniRef90_B5DZV2
UniRef90_X0C4K3 F D V R R R I D G V V P A S D W T D R S L L M M M P F V L S S N M T R E K R M E
UniRef90_A0A010ZNF1 H V H K T N D F E G M S G G R L N P F K A R I R L S L G I S A G L T D N G L S L
UniRef90_X6M1J9
UniRef90_UPI0002487E04 G I D Q R Y A V S Q W I K D S K I L V S D A L S Q A D L Y A K I L K
UniRef90_UPI00037414AF G V S D S Y Q A G A W L T G R L T I P A I F A R L L W L V A T V D N V K D R R K
UniRef90_D1B5M2 M K N P S Q Y A A V I G M G
UniRef90_A0A031LYE9 E L D Q R Y A I S S W I K A S D I L I D D T L S D A D L Y A K I L K
UniRef90_D2Z582 M K N P G S Y A G V G I A
UniRef90_W4U8U1 D V Q L G Q Y Q S A V S A H D M T L E A L Y A K L I F L L S Q G L H G K E L K R
UniRef90_U6L5J4 T A N L L I Y E N G I W A K D M T P E A V V A K L Y L M G K G V T G R R L K R
UniRef90_F5ST67 G V S E A Y A A G I W S A G R L T V P A V Y A R L L W L H L A F D T P A R R R Q
UniRef90_Q19Q38
UniRef90_Q5UCB3 S V D L G T Y A A G V S S R D M T I E A
UniRef90_UPI0003814601 S V L H T Y G A I G L N A G L L D P Y K A R V L L R L L I A S G A D R G A L A A
UniRef90_N8SAK9 G M D Q R Y A I S Q W I K D S K I L V S D A L S Q A D L Y A K I V K
UniRef90_F9GAP6 Y N M R H R I D G V V P A G D W T D R D L M M L M P F L L A S N M S R E E I S D
UniRef90_N9M5C2 A T D Q R Y A I A E W V N H C K I L L N E S Y G H A D L Y A K A L K
UniRef90_N9B302 Q I D Q R Y A I S G I V T H T G H G H A L Y A K L L Q L Y L K Y A T A E Q W Q Q
UniRef90_G7GR90 Q L D Q R Y A I S S W V N T A K V L V N D C L S H A D L Y A K A L K
UniRef90_L2F4V1 G V S N S Y Q A G A W L T E S L T V A T I F A R L L W L V A T V N Q V Q N R R Q
UniRef90_S3MRG7 E T D Q R Y A I T Q W T Q N A A I L I N D C Y G H A D L Y A K I L K
UniRef90_K0KG84 G S I S P N D L S T I A G G I L D S V K A K V L L Q L C V N S K Y D L D E I K H
UniRef90_UPI000289B963 G V S D S Y D Y H V I A G G R L T I P A I Y A R L L W L L R Y D S P A R R R Q
UniRef90_N8YEP8 G M D Q R Y S V S Q W I K N A E I L T N D C A S L A D L Y A K I L K
UniRef90_UPI00047594C3 G V S D T Y A A G S W S A G R L T L P A V Y A R L L W L H L A Y D T P A R R R Q
UniRef90_A5WGS9 G V S E A Y A A G S W S A G R L T I P A V Y A R L L W L H L A Y D T P A R R R Q
UniRef90_W6TQW4 S V E L G M Y M G V V S G Y D M T F E A T T T K L M Y L M G Q G L E N S E L V G
UniRef90_K4E7R8
UniRef90_R7U5Y2
UniRef90_UPI000343FFDA A V T S D Y A A G M V S G F D M T S E A A L A K L S Y V L G H G L T L D D R K E
UniRef90_S3YMK4 Q I D Q R Y A V S S W I Q S A K V L V N D C H S H A D L Y A K V L Q
UniRef90_E3F0L1
UniRef90_R6M575
UniRef90_UPI0003B67BE7 V D Y D S V K V F E K F G F E V L Q V A A L M K L W I A S V V F D S R N E I S E
UniRef90_B2WUH5 D V A G S Y Y L T G A G I N F L P S H A A T V K L M W A L A T G D S A A R T R A
UniRef90_F3KG30 S V S A L Y A A G V V F G Q D L T S E A A L T K L A Y L L A L P D T P E E V A K
UniRef90_B2I368 A T M T L M K A G A R L Y Q D I Q P H I L L Y T L I T L G L A S G R D L D D L
UniRef90_N9DU60 G M D Q R Y A I S A R W A K T A K I V I N D A H S H A D L Y A K A L Q
UniRef90_B1K1X7 G I D Q R Y A V S Q W I T D A K I L I S N C S S H A D L Y A K A L K
UniRef90_R6UEQ9 A V T K Y A Y D R T A G Y D G L N A S K A R I R L I V E L G R A N R S A K
UniRef90_H6LBX2 T N E I D K L N A I P L E N I S F E A A V T K L N F A Y N Q H E C S P Q S R E
UniRef90_R6ISK1 S C Q E L T A A G G I P L E N I S F E A A V T K L N F A Y N Q H E C S P Q S R E
UniRef90_R7G308 A Y V T A A H L P G I W T S T P E S A F A K L L L T N E Q D F D T M T L Q
UniRef90_LOWIMO S D M T V Y K Y G F L E S Y D M T P E A V I C K L M W I L A L T R K R G E I K R
G T N T D Y A A G A W

UniRef90_H8GTW1	<input checked="" type="checkbox"/> F
UniRef90_W4LJD4	
UniRef90_UPI00024846FF	
UniRef90_U5KMA5	S F
UniRef90_X1PJK0	
UniRef90_T1BG82	
UniRef90_G3H390	<input type="checkbox"/> <input type="checkbox"/> A K
UniRef90_S9VVSZ9	Y <input type="checkbox"/> <input type="checkbox"/>
UniRef90_L8GJ1	
UniRef90_C9T3Q6	N F <input type="checkbox"/> <input type="checkbox"/> Y
UniRef90_A0A058Z8W7	
UniRef90_J3PME4	
UniRef90_S9VF15	A M E S
UniRef90_E9DS71	
UniRef90_G0QH18	
UniRef90_A0A031FLL4	A <input checked="" type="checkbox"/> E
UniRef90_K2DV82	
UniRef90_I6ZAY6	W F
UniRef90_UPI0003C84CBC	
UniRef90_UPI00028A08E6	W <input checked="" type="checkbox"/> R T
UniRef90_S6AED3	
UniRef90_UPI0003B46155	<input type="checkbox"/> F Q
UniRef90_G3IX98	F M
UniRef90_D3A387	
UniRef90_C4GLD4	
UniRef90_Q0UHQ9	
UniRef90_U3B2E4	<input type="checkbox"/> F
UniRef90_UPI00037B5741	F <input type="checkbox"/> E
UniRef90_W5M392	
UniRef90_UPI000375BF12	<input type="checkbox"/> M A T
UniRef90_Q4JW83	
UniRef90_UPI0003F10B60	<input type="checkbox"/> <input type="checkbox"/>
UniRef90_K2BSP7	<input type="checkbox"/> Y F E Y
UniRef90_UPI000476231A	
UniRef90_UPI00037B596B	F M
UniRef90_J2SQ15	Y <input type="checkbox"/> N E
UniRef90_B9Z8W1	<input type="checkbox"/> V Q S
UniRef90_I4ZVL3	M Y <input type="checkbox"/> Q Y
UniRef90_G4SZ29	
UniRef90_B2ASF5	
UniRef90_D0WJZ2	
UniRef90_HOULI5	
UniRef90_E9QCJ1	
UniRef90_K5YLR4	
UniRef90_V7M047	
UniRef90_UPI0003315710	
UniRef90_UPI000477EAFE	
UniRef90_B5DZV2	
UniRef90_X0C4K3	F <input type="checkbox"/> A E
UniRef90_A0A010ZNF1	Y M
UniRef90_X6M1J9	
UniRef90_UPI0002487E04	<input type="checkbox"/> Y <input type="checkbox"/> Q Y
UniRef90_UPI00037414AF	<input type="checkbox"/> W Q K
UniRef90_D1B5M2	
UniRef90_A0A031LYE9	M Y <input type="checkbox"/> Q Y
UniRef90_D2Z582	
UniRef90_W4U8U1	W <input type="checkbox"/> E T
UniRef90_U6L5J4	<input type="checkbox"/> M E S
UniRef90_F5ST67	
UniRef90_Q19Q38	
UniRef90_Q5UCB3	
UniRef90_UPI0003814601	A F A E H
UniRef90_N8SAK9	<input type="checkbox"/> Y <input type="checkbox"/> Q Y
UniRef90_F9GAP6	F <input type="checkbox"/> V T
UniRef90_N9M5C2	M Y <input type="checkbox"/> Q Y
UniRef90_N9B302	H W Y D Y
UniRef90_G7G9R0	M Y <input type="checkbox"/> K Y
UniRef90_L2F4V1	V W Q K
UniRef90_S3MRG7	<input type="checkbox"/> Y <input type="checkbox"/> E Y
UniRef90_K0KG84	N F E S
UniRef90_UPI000289B963	
UniRef90_N8YEP8	<input type="checkbox"/> Y <input type="checkbox"/> Q Y
UniRef90_UPI00047594C3	
UniRef90_A5WGS9	R W Q
UniRef90_W6TQW4	<input type="checkbox"/> I E K
UniRef90_K4E7R8	
UniRef90_R7U5Y2	
UniRef90_UPI000343FFDA	<input type="checkbox"/> <input type="checkbox"/>
UniRef90_S3YMK4	M Y <input type="checkbox"/> K Y
UniRef90_E3F0L1	
UniRef90_R6M575	F M
UniRef90_UPI0003B67BE7	<input type="checkbox"/> M R
UniRef90_B2WHU5	R M
UniRef90_F3KG30	
UniRef90_B2I368	<input type="checkbox"/> Y <input type="checkbox"/> K Y
UniRef90_N9DU60	M Y <input type="checkbox"/> Q Y
UniRef90_B1K1X7	
UniRef90_R6UEQ9	
UniRef90_H6LBX2	F F Y E F
UniRef90_R6ISK1	
UniRef90_R7G308	<input type="checkbox"/> F Y K
UniRef90_LOWIM0	

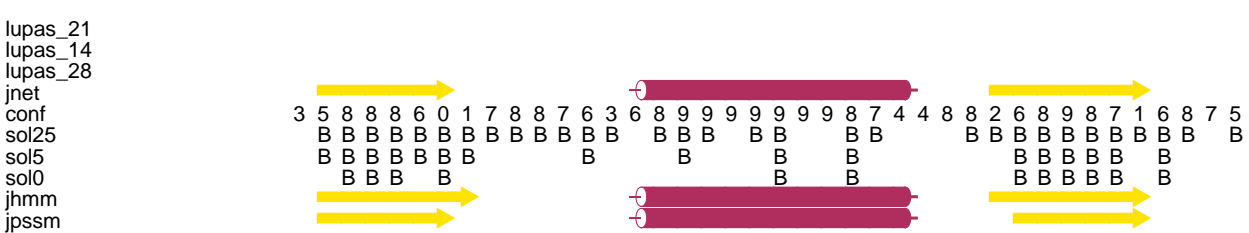

```

UniRef90_X6KTU0      R P      V L L T H G T D T M A C T G A A L D R A L A G S R S V I L C G A M A
UniRef90_W9BJA1      G P Q H T G V V V T H G T D T L S Y G A T A L A F A L H L D V P V V V V A S N R
UniRef90_A0A024EZU9  R G S P I V V L H G T D T M H V S A E H C F K E I G T P K P V V F T G A M I
UniRef90_R7BEY8      S E S D N I I I L H G S D T L A Y T S S L L A N M F Y D K N I V I T A S D K
UniRef90_X0EVJ9      E T G L D G V I I M H G T D T L A Y S A A A M G Y L F D C D I P M V F V S S N Y
UniRef90_R5SQR1      S G T A N G I V I A H G T D T L P Y T A P L I Y W L F D A N A P I V F A A S S T
UniRef90_UPI00025551C5
UniRef90_U1P0B0      Y S K Y D G V I I L H G T D T L A Y T G A L L S I L M A G T K P V F L V I S S Q L
UniRef90_B0NI51      T D E R I R I V V T H G T D T M I E S A L Y V Q E R L L S S V S I A F T G A T K
UniRef90_B5YN53      R D      V V V V H G T D T M D E Y I R T H A P H I A A S K R I I E T G A M K
UniRef90_Q7MS65      V L V L G S S K L T L V V R F L E H T I A L D K S V C L T A A L K
UniRef90_W9NSE4

```



	250	260	270	280
UniRef90_X6KTU0	D A	V V H E T Y H S G T A C T V V L D F A G R C A A A G V P V F L G P V A A Y E		
UniRef90_W9BJA1	D	V V L H E M Y H S A T V P E S A K A F A K K C A Q K G V A F Y F V T S K S S A		
UniRef90_A0A024EZU9	R G I V L V I G Y G D G Y W P A A S A K E I R K L V H E S G V V V V F A A E E E G			
UniRef90_R7BEY8	Q A I L L H H T Y H A G T I C S E T P E A F Y E V A N R K I P I F L C G M D A D M			
UniRef90_X0EVJ9	K N F F L E L Y D T G T A G F R E G P S L K R A F R R G A R F Y C S S Q Q E G			
UniRef90_R5SQR1	A G V V V A G T G L G H V Q T S L I P R I T Q L T E S G T T V A M T S Q C L A G			
UniRef90_UPI00025551C5	S T M A V T P Y K D D E S K R Y T S Q A I K R C D E C K P I P L C H R D A Y N			
UniRef90_U1P0B0				
UniRef90_B0NI51				
UniRef90_B5YN53				
UniRef90_Q7MS65				
UniRef90_W9NSE4	K G A	V L G V F E D G Y W P G P L M K G L G T L M N E P D V I V A T V S Y G F S		



UniRef90_X6KTU0
UniRef90_W9BJA1 F
UniRef90_A0A024EZU9
UniRef90_R7BEY8
UniRef90_X0EVJ9
UniRef90_R5SQR1
UniRef90_UPI00025551C5 [] M D
UniRef90_U1P0B0
UniRef90_B0NI51 F M N
UniRef90_B5YN53
UniRef90_Q7MS65
UniRef90_W9NSE4 F [] A T

lupas_21
lupas_14
lupas_28
jnet []
conf 9 7 4 4 9
sol25 B B
sol5 B
sol0 []
jhmm []
jpssm []