

QUERY

UniRef90_D1JAM8
UniRef90_G2G242
UniRef90_L0L0P5
UniRef90_E0I817
UniRef90_X5QYV2
UniRef90_UPI000374CC6E
UniRef90_UPI00035E2619
UniRef90_G2NAX5
UniRef90_UPI0002F28E38
UniRef90_UPI00034B6B1C
UniRef90_UPI0004797BE0
UniRef90_F5XJ49
UniRef90_C6WRM6
UniRef90_I4G7S2
UniRef90_UPI00040C9C9D
UniRef90_A3PV06
UniRef90_UPI00047E006C
UniRef90_Q3JA14
UniRef90_X5L3Y3
UniRef90_A4X0N2
UniRef90_UPI0002DB422D
UniRef90_C8XH91
UniRef90_I7CMS8
UniRef90_L0I996
UniRef90_UPI00046380DA
UniRef90_UPI00036F225A
UniRef90_MODEF1
UniRef90_J3DDK2
UniRef90_E4NVW2
UniRef90_UPI000349671C
UniRef90_UPI000248C720
UniRef90_E0SFB7
UniRef90_M5A2N4
UniRef90_F4XIW3
UniRef90_G8SIW3
UniRef90_C7QK17
UniRef90_B9NUV2
UniRef90_C7M034
UniRef90_A5FF52
UniRef90_B3PHT5
UniRef90_UPI00036BBEF6
UniRef90_UPI00047E31D0
UniRef90_UPI0003B6B39C
UniRef90_K9UVL5
UniRef90_I3IIA4
UniRef90_W4NGC8
UniRef90_H8KU92
UniRef90_UPI00037EF081
UniRef90_UPI000478247A
UniRef90_K9ZB40
UniRef90_X5DIB6
UniRef90_A1AKY1
UniRef90_D0LX67
UniRef90_A3HTB5
UniRef90_A0A011XU9
UniRef90_D1BTJ1
UniRef90_W4M5N4
UniRef90_K9PV99
UniRef90_A5UTV4
UniRef90_H6L5D0
UniRef90_UPI0003814AB4
UniRef90_UPI000379FC8B
UniRef90_UPI00037452E6
UniRef90_UPI0003752C23
UniRef90_UPI00036EF731
UniRef90_UPI0003707D3B
UniRef90_Q988W8
UniRef90_S0FKG8
UniRef90_UPI000464D716
UniRef90_I1DZK3
UniRef90_A1ZX20
UniRef90_S4XPL6
UniRef90_E8U3P0
UniRef90_K9QPX9
UniRef90_C1AD98
UniRef90_M4Z968
UniRef90_UPI00041737F6
UniRef90_D3CW99
UniRef90_U2KPK9
UniRef90_L9PAM2
UniRef90_UPI00037ED8B5
UniRef90_G8R6Y2
UniRef90_UPI0003766E06
UniRef90_UPI000472D901
UniRef90_Q160D2
UniRef90_UPI00046EEE22
UniRef90_UPI0003036ED9
UniRef90_UPI000367C247
UniRef90_UPI00026CCA48

F S V I N T T T L G L I E N E S V K E A L I L W E P R I I E L L V N V I N N S V S A P R E A A E
F A A M D V A T M G M I E N S K T V H E E A L I T F W E P P R I I E E L V I G R V I N N S V S A P R E A A E
F A S M D T L N L H G L I E N S K T V H E E A L I T K W E P P R I I E E V L L K V I N N S V S A P R E A A E
F E T M S V S T A G Q M E A S D V V R T D A L N R W E P P R I I E E T L L S V I V E V Q S F D A P N Q D
F E P V T P A T A G L V A D R V R T S L E T R W E P P R I I E D V V L K V I V D V A Y P D D P N Q D
F A P A D A A T A G R I A Y E V R T S L E T Q W E P P R I I E V V V D V D V D A Y P D D P N Q D
F A P G D G A T A G R I A Y E V R T S L E T R W E P P R I I E V V T D V V V T A F F D D R T I V N
F A P A D A G T A G Q I A Y E V R T S L E T R W E P P R I I E V V A D V D V V A V L P I Q D E T D N
F A T M S M T T A G Q I A Y E S S V R E S L I R W E P P R I I E D L A N E V V A N V L P I Q D E T D N
F A P V N E E T A G R I A Y E V R T S L E T R W E P P R I I E D V V A D V D V V T A F F D D R T I V N
F A P A N T A T A G Q I A Y E D V R E A L E R W E P P R I I E D V A D V D V V V A F F D D A Q I V S D
F A S A D G A T A G D I S R E V V R E A L E R W E P P R I I E D V T D V V V V V A F F D D A V S D
F A M N T A A T A G K I S R Q Q V R E A L L F E P P R I I E D V L T D V V Q D I V P Q D P D S D S
F A S T D G A T A G Q L A R A V R S A L L D R W E P P R I I E D V T T T V V V D I V Q D P D S N E
F S L T N E A T A A A I A N D V R A A L E Q W E P P R I I E D V V N V V V R V I G T F S D Q T S K A
F G T M D D T T L R L L K K R V R Q E A I T V W E P P R I I E T D V E V I K V V T Q D D P A A
F E V V D I T K E R L K K R V R Q E A I T D W E P P R I I E D V E D I K V V F D P R G D T
F S P M N D A T L A A I A N D V R R A L E R W E P P R I I E D V E D V K V V F D P R G D T
F A P N N P A T R A A I M D E V R S L I R W E P P R I I E D V L A V S A A S P P P M D T
F A P V N D S T M G R V R H E V M A S L E R W E P P R I I E V E D V T V A S P A P M E D
F A P I N A S T A G A I A S D V R Y A L E M W E P P R I I T V H D V I L S F D A Q A D E
F S A A T P A T L N L I E S S V H R E S L V Q W E P P R I I D I E D I D A R T D A D A E
Y S S A S P A T L N L I E S S V H R E S L V R W E P P R I I D V E T V D A R T D A D A E
F K P L D R T L K T F V I E L I K T A I L Y H E P P R I I D V T K I D I S E T S D E L
F E P L S P T V S S T I K S S V I R S A I L Y H E P P R I I K L E R V L D D L E S T A Q L
F A V V D T T R T L I K S S V I R S A I L R W E P P R I I D V E R L D D L E S T A Q L
F D E L N E S V V T E I R D A I E R A I L F F E P P R I I S V N A I S M D E S T D E D D D
Y S A A T P A T L N V I E T S V R E A L V R W E P P R I I D I E D V E A F S T D E D D D
F A T L S M A T L G L I E T S V R E G L T R W E P P R I I D L N Q V K V S L T D D K K E
F G S T D E T T M H L L E S D I A E A I R I W E P P R I I H E V I V V R A E P D D T D D
F E D L T L S T L T D M K T R I E Q A I L F F E P P R I I R L Q A V I L D D S S
F E P I N A N T L G L M G E A V R E S I S R W E P P R I I H L Q D D V R L Q S S P
F E P N S P A T A G K V S Q A L Q R E A L L F F E P P R I I D V T D V V R L Q S S P
F A P V N E K T V G R I Q H E V R S A L R W E P P R I I S V T G V V T A S A D P G
F K P V N T Q L V A E L K R T V R E A L R R F E A R I S V L G V V N V K V S D A D L
F E T P V N A N T M G L Y M A G A V R E A L A Q W E P P R I I D V E N K I A V A Q S D D D N D
F E T L D R T L K T Y M S E L I K T A I L Y Y E P P R I I D V E K I A V A Q S D D D N D
F D S L N E S S Y A T I R D L I E Q A V L F F E P P R I I T L E R I E I D D S S R D Y M
F D T M D T A T T T I Q D L I E S R A V L F F E P P R I I V L M E R V I D D T D R R Q Y
F E S L D T R M K T L I A D K I E S A V L Y F E P P R I I T L N Q V V L D D S D I A
F E P V T P N L L G L I A E A V R D A L A Q W E P P R I I E V D D V R P E A D S D E L
F E P L S P T L T S S L K E Q L R T S I L Y H E P P R I I L L N G V L D L D E D N L
F E P N N T T A N L A R H Y V R Q E A L L T W E P P R I I L L E E V M V K N D E N N
F N V N G P S T Q M A E F H V R E A L E K W E P P R I I D V M R V I R A S G A S G G Y
F E P L T T T F K T Y T K D L A T A I L Y Y E P P R I I D V N K I D Q D A A E E G
F E I N S A S T A G R V T Q A I R Q A L L F E P P R I I D V L D I D Q V Q A A E E G
F S P N G A R T Y A L A Q H Y I E E A L H R W E H R I V L E E V L V A S P D A D D
F A P N N A R T L A L A K H Y V R E A L T R W E H R I V L Q D V S V L S P D P S
F A P N S A G T V G E I S D V R S A L V E W E P P R I I D V L D I S V L S H P S Q
F K P L N I T V K T Y V V D L I K T A I L Y H E P P R I I D A R K I S I D Q T N E L
F E Q M N E S T V T A L K D A I D D R A V L F Y E P P R I I R N V A V E A P D D D G S N I H
F A P N N Y V T A A L S H A Y C D R A V L L K F E P P R I I R N V A V E A P D D D G S N I H
F S P I N R T L K T Y V I E L I K N A I L Y H E P P R I I D P E K I D I T T Q G S N A E
F A E V S Q G L I G R L R S F I A D G L L H H E P P R I I N L N M T V D V E Q S G A G Q
F A P G S A A T L A D V A A D V R E A L L V R Y E P P R I I D V M T V D V E Q S G A G Q
F D V N S A A T A G A V A S A V R E D A L I E W E P P R I I D V L A V V A F P D P E R
F A P N S S G T V G E L V N D V R E A L T E W E P P R I I D L L D V D T T A D E E N
F A P N D A A T A G L A V Y Y V R E A L A M W E P P R I I D V L N V E I D T D P K T
F Q S I N N A T R I R I Q D L I T T A I L Y H E P P R I I R L I S V V L D E S E Q L
F E P I D T G L Q T G L I F D R I N T A I L Y Y E P P R I I E V E D I L L D T E R V N
F E P V T P N L L G Q I A V A V R Q A V A Q W E P P R I I E V E D V P M P D E D N
F E E M S T T V L F A V E A V R D A L T V Y E P P R I I D L T S V A V D P I G A L
F E G N D D A T L H L I E A E I R E A L Q R W E P P R I I H E V E V R V E R D V A T
F A P N D M S T A T L L R S Y I Q E A L L N W E P P R I I E V D D I T V T P R S D
F R P V N L D T V A E L S Q E V R S A L L R W E P P R I I D I E G V T V T P R P G D
F T A V D S T A L Q R I R S E V R E A A L R R Y E A R I E V V L E V T A D E D A T T E
F A S N D L F T A T L I Q T Y V D E A A L L N W E P P R I I E V Q S V T A D E M S R Q E
F E S I N Q G F I T D I K N A V T D A I L N H E P P R I I K V D A V A T L D N T D P E
F S A L D D H V L A N I T A A I E H A V L F Y E P P R I I R L L D V A P D Q T Q L E Y
F E P I D V N T T Y L K E T I R R A V L N F E P P R I I S L D E V N V E Q D S E E
F E E L D Q G L I N T I E R L L T D A I L E H E P P R I I Q V D R I V D A S D T Q
F A P N D A T T L G L A S Y Y V D E A L R M W E P P R I I N V G R V N A R T D P A D
F A P N S L G T I G Q I V S D V K D A L I E W E P P R I I D V L D V D A I P D P S Q
F Q P N T P G T I G L V A Q Q V R R A L V Q W E P P R I I D V L D L V V E S P P G E T
F E E D D Q T L T S I R E A V S S D A L L Y Y H E P P R I I R L D G V D V T N D G Q T
F E T D D P I O O O 4 1 7 3 7 F 6 P I O O O 4 7 A 4 F 9 7 P L N T T T V T I M K D R I Q T A I L Y F E P P R I I D A K N I E L D M D D E I
F A P A D A N T A G L V A Y E V R Q S A I T R W E P P R I I E V L E V V V T P D V A
F S P N S P R T V T Q A V H Y V E Q A S I R W E P P R I I L K K V T G E F D Q M N
F S A V D S T S L Q R V R S V V E E A L R Q F E A R I D V L S V V A D M D S G T
F E P V T A A T A H L V R L R V E Q G L T A W E P P R I I D V L G I M V S V A D R A
F R D G S S N H H F L K R V K S A I L R F E P P R I I D E L E I M V D Y T A Y L
F S P M N Y S T L S V L Q F R I E Q G L M L W E P P R I I D V Q Q V K V R P D Q D Q
F A D L T A S L S E M R E M V N T A I L R W E P P R I I D L T E V S A A L D D D D
F E T N D G E T E A A I E T A I R Q A I L F F E P P R I I T L H E V S V D T D W L
F E N L N R T L I S Y V T E L I K T A I L Y H E A R I D V D K I D I T Q S D T L
F A P A D A A T A G A V G D A V R V A L A F W E P P R I I D V T G V T V T F D R T Q
F A P L T A G T L G L I E Q A V R E A L E R W E P P R I I E L E S V D A E G E Q A
F A I S S A T L E Q I K R D V A A A L R R Y E A R I D V L A I D V D T G P L L

QUERY	90	100	110
UniRef90_D1JAM8	E E G R L L L I D I I E Y R V R S T T N N N E F N L V Y P F F Y L K E S A		
UniRef90_G2G242	D G K L L E I S A L D D Y R V V R T T N N T Q L N L V Y P F F Y L K E S G		
UniRef90_L0L0P5	E G K L L I N I D D Y K V V R T T N N T Q F N M V Y P F F Y L K E G G		
UniRef90_E0I817	V G K L L G I A I R Y R V V R S T T N N E F N L V Y P F F Y L R E G G A		
UniRef90_X5QYV2	P E C M L L I D I T Y A R L R A N N A V G N M V Y P F F Y L Q E G G A		
UniRef90_UPI000374CC6E	Q G M L L I D I R Y A Q I R S T T N N R F N L V Y P F F Y V I P		
UniRef90_UPI00035E2619	P N R L L I Q I R Y Q I R S T T N N R F N L V Y P F F Y L E		
UniRef90_G2NAX5	E G T L Y I D D V S Y S V V R S T T N D L R R N L V F P F F Y T I P S S		
UniRef90_UPI0002F28E38	D G V L Y L D D V S Y S V V R S T T N D P R N L V F P F F Y V I P		
UniRef90_UPI00034B6B1C	L G K L D I E I N Y R V V R T T N N E F N L V Y P F F Y L Q G G		
UniRef90_UPI0004797BE0	V G V L Y I D D V G Y K I R G T N N P R N L V F P F F Y V I P		
UniRef90_F5XJ49	S G R V L I D I G Y T I R G L N D P R N L V F P F F Y V I P		
UniRef90_C6WRM6	T G T L Y I D D V R Y L V R S T T N D P R N L V F P F F Y T I P S S		
UniRef90_I4G7S2	D G K L L S I S I A Y Q V R A S T N N V F N L V Y P F F Y L E R S S A		
UniRef90_UPI00040C9C9D	V G T L H I S I H Y A I R A T N N D Q R I P S S		
UniRef90_A3PV06	F G T F Y V D D V H Y R I R S T T N D D R N L V F P F F Y V I P		
UniRef90_UPI00047E006C	P G R M Q I G I T Y V V R S T T N T L F N Q V Y P F F Y L E E G T		
UniRef90_Q3JA14	H S T L L I D I H Y R I R A T N N L H N L V Y P F F Y L Q A I P		
UniRef90_X5L3Y3	L G T A H I D D V G Y R V R G Y N D E R N L V F P F F Y V I P		
UniRef90_A4X0N2	A N T L L L S D V R Y R L R A N N A A Q N I V Y P F F Y L L E G S		
UniRef90_UPI0002DB422D	P T T L Y I D D V R Y R V R R G A N N P R N L V F P F F Y V I P S		
UniRef90_C8XH91	L G T L Y I D I H Y S I R G I N D P R N L V F P F F Y V I P		
UniRef90_I7CMS8	P N K V L I D I E Y R V V R T T N S L S N M V Y P F F Y I T E G G		
UniRef90_L0I996	P N R V L I E I D Y R V V R T T N S L J A N M V Y P F F Y H I T E G G		
UniRef90_UPI00046380DA	E G K L L V K I D Y L I R S T T N S R R R N V F P F F Y K E E G T		
UniRef90_UPI00036F225A	E G L V D I T E I D Y L I R S T T N S R R F S F V F P F F Y L Q E E G A		
UniRef90_M0DEF1	A G R L L V T E I A Y R I R S S N A R R N L V Y P F F Y L E E		
UniRef90_J3DDK2	D G R L D I H I D Y T V R G T N T R S N M V Y P F F Y Y L E E G S		
UniRef90_E4NVW2	T N K I L I N I D Y R V V R T T N A L A N M V Y P F F Y H I T E G G		
UniRef90_UPI000349671C	P G K I W I D I N Y R H V R K T N T E F N L V Y P F F Y L Q G G		
UniRef90_UPI000248C720	P G K V M I R I Q Y E V R S T T N N L F N Q V Y P F F Y I H E G T		
UniRef90_E0SFB7	D G K L L H I D D Y T L A T N T R S N M V Y P F F Y L R E G T		
UniRef90_M5A2N4	V G E V H I H I D Y T V R S T T N D R R N L V Y P F F Y V I P		
UniRef90_F4XIW3	P E Q M L V N I D D Y Q V R A T N N V F N L V Y P F F Y L E G S A		
UniRef90_G8SIW3	E A A V L V T T V G Y R V R A T N D R R N L V Y P F F Y V I P G		
UniRef90_C7QK17	P T V L Y I D D V H Y Q L R G T N N P R S L V F P F F Y V I P		
UniRef90_B9NUV2	N G K L E L D D V K Y R L R Q T N Q P R N F V F P F F Y I S E G		
UniRef90_C7M034	A S L V H I T T V T Y R L R A T N D R R N L V Y P F F Y T I P		
UniRef90_A5FF52	E G E L L V I D Y R V R A T N S R S N L V Y P F F Y K G E G T		
UniRef90_B3PHT5	Q G R L L I D I Y R V R A T N N R Y N L V Y P F F Y I H E G S		
UniRef90_UPI00036BBEF6	D G W L D I L L E Y R V K T T N S R H N M V F P F F Y F L E A T		
UniRef90_UPI00047E31D0	E G V V L I Q V L A Y T V K S T N S R F N F V Y P F F Y I R E G T		
UniRef90_UPI0003B6B39C	S A L I R I L I S Y R V R A T N D R R N L V Y P F F Y V I P		
UniRef90_K9UVL5	Q G R V N L T I D Y T I N T N S R F N L V Y P F F Y L E E S T		
UniRef90_I3IIA4	A G R L M I D I Y R I R K S T N E P Q N M V Y P F F Y L E		
UniRef90_W4NGC8	G E Q L L I E I D Y R V R L T D N R F N L V Y P F F Y K T E G T		
UniRef90_H8KU92	Q G K L L I T T V E Y T V R A T N S R F N F V Y P F F Y L D R S T		
UniRef90_A0A011PQU9	E V L L I S I D Y E V R A T N N A F N L V Y P F F Y L E R G		
UniRef90_UPI00037EF081	E T R I N I S I Q Y K I R S I N T Y F N L V Y P F F Y L E R G		
UniRef90_UPI000478247A	E N Q I N V K I R Y L V R S V N T Y F N M V Y P F F Y L E R G		
UniRef90_K9ZB40	P N V L H I S I N Y Q V R T T N N S F N L V Y P F F Y L Q		
UniRef90_X5DIB6	N G E L L I N I E Y I I R A T N S R K N M V F P F F Y K G E G T		
UniRef90_A1AKY1	D G V V L L S L A Y T V R S T N S R S N M V Y P F F Y F L E G T		
UniRef90_D0LX67	P S R L D I R I S Y A V G D T N D R R N L V Y P F F Y L R		
UniRef90_A3HTB5	E G E L L I H L Q Y I V R A T N S R K N M V Y P F F Y L E E G T		
UniRef90_A0A011NXU9	E G L L L I T D Y T V R A T N S R Y N M V Y P F F Y L N E A S		
UniRef90_D1BTJ1	P T V L L V T R I D Y R I R A T N N A R A N L V Y P F F Y I T E G		
UniRef90_W4M5N4	P N Y L L V E V S Y Q V R S T N S R F N L V Y P F F Y L Q		
UniRef90_K9PV99	P N V L L I T H Y Q V R T T N N F N L V Y P F F Y L R I P G		
UniRef90_A5UTV4	P E R M L I T I E Y R I K A T H D R R S L V F P F F Y R I P G		
UniRef90_H6L5D0	R G R V N V N V V Y E I K G V N A R N N M V Y P F F Y L A E G T		
UniRef90_UPI0003814AB4	E G V L I T I A Y R V R A T N S R F N F V Y P F F Y L T E G S		
UniRef90_UPI000379FC8B	P A L V R I G I A Y R I R A T N D R R N L V Y P F F Y L I P		
UniRef90_UPI00037452E6	D G V L L I A I D Y R V R R T N Q T D N L V Y P F F Y F K E S G		
UniRef90_UPI0003752C23	P E K L L I H V Q Y E V R H T N S N L Y N Q V Y P F F Y L F E G S		
UniRef90_UPI00036EF731	L S E L E V S I D Y S I K A S N S K Y N L V Y P F F Y L E		
UniRef90_UPI0003707D3B	G S V L H I D I Q Y V V K D T N D R R N L V F P F F Y T I P		
UniRef90_Q988W8	E G K L L V E Y R V R R T N Q G N L V F P F F Y F R E G G		
UniRef90_S0FKG8	P V I E I D I E Y L I K S N S K G N L V Y P F F Y L E		
UniRef90_UPI000464D716	K G L I H I K V T Y T V R M T N N R F N L V Y P F F Y V N E A		
UniRef90_I1DZK3	D G V L L L Q L S Y Q I R S S N S R H N M V Y P F F Y L L E G S		
UniRef90_A1ZX20	E G L L L V T V L V Y T I R K T N T R T N M V Y P F F Y I I E G T		
UniRef90_S4XPL6	P G C V L I G V N Y T L R D T N S R F N M V F P F F Y L T E A T		
UniRef90_E8U3P0	A S R I L I D V N Y T M R Q D A S P R S L V F P F F Y		
UniRef90_K9QPX9	P N V I L I Q I N Y Q I R T T N N F N L V Y P F F Y I Q		
UniRef90_C1AD98	A T L L L I R V G Y R I R A N N A L A N L V Y P F F Y L R E G A		
UniRef90_M4Z968	P G L V L I A I R Y T V R A N S R F N M V Y P F F Y L N E A		
UniRef90_UPI00041737F6	E G V L L I Y I D Y T V I T N S R T N M V Y P F F Y F K E G T		
UniRef90_UPI00047A4F97	E G V V L I K I E Y V V R A T N S R F N F V Y P F F Y K D E G T		
UniRef90_D3CW99	A S T L W I D I A Y R I R D D Y D R R N L V V P F F Y V I P		
UniRef90_U2KPK9	P V C V N I H I D Y E I R S V N T F F N M V Y P F F Y L E K G		
UniRef90_L9PAM2	D G L L T V E I E Y R V R K T N Q T G N L V F P F F Y F R E G G		
UniRef90_UPI00037ED8B5	A G R L D V R I D Y R V R A T N T F Y N L V Y P F F Y H L H E G A		
UniRef90_G8R6Y2	D G V V S V H I D Y R V I S T N S R F N L V F P F F Y K V E G T		
UniRef90_UPI0003766E06	P G R L F I D I R Y R V R E S N S G N Y V Y P F F Y L T E		
UniRef90_UPI000472D901	P A L V L I S I D Y R V R V T N T R N N L V F P F F Y K N E G T		
UniRef90_Q160D2	G G K M R V G L D Y T V D Q T N S R S N M V Y P F F Y V H E G T		
UniRef90_UPI00046EEE22	Q G E L Y I K V A Y T V R A T N A R N N V F P F F Y L E E G T		
UniRef90_UPI0003036ED9	D G V L L I D I G A A I R G S N D P R N L V F P F F Y V I P		
UniRef90_UPI000367C247	T G T V H I T V A Y A I R S T N D V R N L V F P F F Y T I P		
UniRef90_UPI00026CCA48	Y G R L D V T I A Y R V R N T N Q S D N L V Y P F F Y Y K E A		

UniRef90_K9SJH2
UniRef90_G0ABR7
UniRef90_C1D119
UniRef90_X0RB48
UniRef90_G0J5J8
UniRef90_UPI000366C37B
UniRef90_G4KQZ8
UniRef90_C8XBJ6
UniRef90_UPI00039CD7A2
UniRef90_D7GQQ8
UniRef90_Q12JU7
UniRef90_H2IBE0
UniRef90_R6KVF3
UniRef90_Q7NKR4
UniRef90_G8T6M4
UniRef90_A3XPC8
UniRef90_A0A014N692
UniRef90_UPI000369ACBE
UniRef90_F2NYC6
UniRef90_I0WDL5
UniRef90_K6YNV7
UniRef90_W8GOK3
UniRef90_U1BCH9
UniRef90_R5GNH1
UniRef90_C0Q8T3
UniRef90_UPI0003B61D54
UniRef90_UPI00047B5DC9
UniRef90_UPI000369C24A
UniRef90_K9TFB6
UniRef90_L8JSM4
UniRef90_I9VAD3
UniRef90_UPI00035D78DD
UniRef90_K6DWT8
UniRef90_UPI000362FD09
UniRef90_UPI00037F579E
UniRef90_K9EPS1
UniRef90_H8GWR0
UniRef90_F4XUK1
UniRef90_UPI00023795FD
UniRef90_R7ZVW0
UniRef90_I5B7H2
UniRef90_UPI00035CFFD8
UniRef90_B3QN04
UniRef90_Q8YRX4
UniRef90_M7XD14
UniRef90_R6HYE7
UniRef90_W4M223
UniRef90_E3XC2
UniRef90_S7U2Q8
UniRef90_C7PCP2
UniRef90_B5EGS7
UniRef90_K6WID0
UniRef90_F9U9K7
UniRef90_F4L0G9
UniRef90_U5BUJ8
UniRef90_V9UDD6
UniRef90_UPI0003822ED1
UniRef90_UPI000471A5C
UniRef90_K9VSC6
UniRef90_C6W173
UniRef90_J3CPV0
UniRef90_W6TQY5
UniRef90_UPI000378D3A8
UniRef90_Q09DG9
UniRef90_K9EPU5
UniRef90_UPI0002889203
UniRef90_S4XT26
UniRef90_A9DX78
UniRef90_UPI00036D4A6B
UniRef90_K9QGQ8
UniRef90_B4W1F7
UniRef90_A6FZ69
UniRef90_Q2W627
UniRef90_S6H4K0
UniRef90_K9V2C0
UniRef90_L0A0D4
UniRef90_UPI000364859B
UniRef90_UPI0003642B8E
UniRef90_R5P778
UniRef90_J0RTY7
UniRef90_UPI00037C16E4
UniRef90_L8N2B4
UniRef90_F4F9V2
UniRef90_B7KJY7
UniRef90_UPI0002E20A0A
UniRef90_A0A023BQ58
UniRef90_U9W6Y7
UniRef90_UPI0003731468
UniRef90_L7UHA0
UniRef90_C1DS17
UniRef90_E7GSF8
UniRef90_UPI0002915214

Table with columns for UniRef90 IDs (left) and amino acid sequences (right). The sequences are grouped into four columns labeled 50, 60, 70, and 80. Each row contains a UniRef90 ID followed by its corresponding amino acid sequence. The UniRef90 IDs include UniRef90_K9SJH2, UniRef90_G0ABR7, UniRef90_C1D119, UniRef90_X0RB48, UniRef90_G0J5J8, UniRef90_UPI000366C37B, UniRef90_G4KQZ8, UniRef90_C8XBJ6, UniRef90_UPI00039CD7A2, UniRef90_D7GQQ8, UniRef90_Q12JU7, UniRef90_H2IBE0, UniRef90_R6KFLV3, UniRef90_Q7NKR4, UniRef90_G8T6M4, UniRef90_A3XPC8, UniRef90_A0A014N692, UniRef90_UPI000369ACBE, UniRef90_F2NYC6, UniRef90_I0WDL5, UniRef90_K6YNV7, UniRef90_W8GOK3, UniRef90_U1BCH9, UniRef90_R5GNH1, UniRef90_C0Q8T3, UniRef90_UPI0003B61D54, UniRef90_UPI00047B5DC9, UniRef90_UPI000369C24A, UniRef90_K9TFB6, UniRef90_L8JSM4, UniRef90_I9VAD3, UniRef90_UPI00035D78DD, UniRef90_K6DWT8, UniRef90_UPI000362FD09, UniRef90_UPI00037F579E, UniRef90_K9EPS1, UniRef90_H8GWR0, UniRef90_F4XUK1, UniRef90_UPI00023795FD, UniRef90_R7ZVW0, UniRef90_I5B7H2, UniRef90_UPI00035CFFD8, UniRef90_B3QN04, UniRef90_Q8YRX4, UniRef90_M7XD14, UniRef90_R6HYE7, UniRef90_W4M223, UniRef90_E3IXC2, UniRef90_S7U2Q8, UniRef90_C7PCP2, UniRef90_B5EGS7, UniRef90_K6WID0, UniRef90_F9U9K7, UniRef90_F4L0G9, UniRef90_U5BUJ8, UniRef90_V9UDD6, UniRef90_UPI000382ED1, UniRef90_UPI000471A5C, UniRef90_K9VSC6, UniRef90_C6W173, UniRef90_J3CPV0, UniRef90_W6TQY5, UniRef90_UPI000378D3A8, UniRef90_Q09DG9, UniRef90_K9EPU5, UniRef90_UPI0002889203, UniRef90_S4XT26, UniRef90_A9DX78, UniRef90_UPI00036D4A6B, UniRef90_K9QGQ8, UniRef90_B4W1F7, UniRef90_A6FZ69, UniRef90_Q2W627, UniRef90_S6H4K0, UniRef90_K9V2C0, UniRef90_L0A0D4, UniRef90_UPI000364859B, UniRef90_UPI0003642B8E, UniRef90_R5P778, UniRef90_J0RTY7, UniRef90_UPI00037C16E4, UniRef90_L8N2B4, UniRef90_F4F9V2, UniRef90_B7KJY7, UniRef90_UPI0002E20A0A, UniRef90_A0A023BQ58, UniRef90_U9W6Y7, UniRef90_UPI0003731468, UniRef90_L7UHA0, UniRef90_C1DS17, UniRef90_U7GSF8, UniRef90_UPI0002915214

	90	100	110
UniRef90_K9SJH2	E G V V N I R I	D Y T V L S T N S R F S F V Y	P F F Y F Q E G
UniRef90_G0ABR7	P N C L Q I R A	D Y R L I R D R N N Q P A N L V F	P F F Y L
UniRef90_C1D119	S T R I L I V R	D Y R R L K H S P E P L S L V F	P F F Y
UniRef90_X0RB48	R N V L L I R D	R Y R V L R A N N A R R G N L V Y	P F F Y T E G
UniRef90_G0J5J8	S G K V L I K L	D N Y L V R R S T N S R R M N M V Y	P F F Y L N E G T
UniRef90_UPI000366C37B	G A R V L S I D	A Y R I A Y T N D H R N L V F	P F F Y L T E P
UniRef90_G4KQZ8	E G A L T S I Q	V R D T N D N R Y N H V Y	P F F Y L T E G S
UniRef90_C8XBj6	P T L V T I S I	G Y R I K A T N D R R N L V F	P F F Y L T P
UniRef90_UPI00039CD7A2	P S L L L I R I	R I R A N N A L A N L V F	P F F Y L N E S
UniRef90_D7GQQ8	N A L L M I R I	A F R V R A T N N P Y N Y V F	P F F L N E G S
UniRef90_Q12JU7	E G R L D I G L	Q Y R V I T T N A R R N M V Y	P F F Y L M E G T
UniRef90_H2IBE0	N G K I M I E L	D Y Q I V T T N T R D N M V Y	P F F Y L Q N E G T
UniRef90_R6KfV3	E G V L L I K L	I Y T I V R T N N R S N M V Y	P F F Y L N E G T
UniRef90_Q7NKR4	G R I D I V I	D Y R L K G S P D P R S L V Y	P F F Y L N P Q A
UniRef90_G8T6M4	E G E V L E I	V Y V R T T N N R G N F V F	P F F Y R N E A T
UniRef90_A3XPC8	Q G E V L H M I	V R L T T N N R G N M V Y	P F F Y L N E G T
UniRef90_A0A014N692	S G K L L T Q I	D Y S V I T T N T R S N M V Y	P F F Y L N E G T
UniRef90_UPI000369ACBE	D G K L L I S V	D Y T I V E T N S R Y N F V Y	P F F Y L Q E G G
UniRef90_F2NYC6	S G L I N I K I	D Y E I R S V N T F F N M V Y	P F F Y L Q E R G
UniRef90_I0WDL5	A N L L V A I	D Y R L K D N N A M N L V Y	P F F Y L G E G
UniRef90_K6YNV7	P S V A M I S I	R Y S H V Q D G S R E N L V F	P F F Y L E S E G
UniRef90_W8GOK3	E G I L D I K V	S Y K I R A S R S R F N F V Y	P F F Y L S E E G
UniRef90_U1BCH9	P G C L L A V	D Y T V R D T N T R S N L V Y	P F F Y L T E A S
UniRef90_R5GNH1	K G V L E I N I	R Y T L R R V T N N Q F N M V Y	P F F Y M M E G T
UniRef90_C0Q8T3	Q G L I E I S I	A Y T I R S T N S R Y N F V Y	P F F Y L N E G T
UniRef90_UPI0003B61D54	S G R L H I T I	S Y R V R A T N T F Y N L V Y	P F F L Q E G G
UniRef90_UPI00047B5DC9	E G R V L I G E	V T Y R V K A T N S R F N F V F	P F F Y R Q E G T
UniRef90_UPI000369C24A	D G E V L I E V	L T Y K I R S T N S R R N M V Y	P F F Y L L E G T
UniRef90_K9TFB6	R G R V E V R I	E Y S L R D S Y E S R S M V Y	P F F Y L M P S S T
UniRef90_L8JSM4	D G I V R I T L	D Y T I R K I N V R T N I V Y	P F F Y L K E G T
UniRef90_I9VAD3	V G K M S I L L	E Y T I R L T N A R G N L V Y	P F F Y Y D E G
UniRef90_UPI00035D78DD	G L T A I E V	R Y R V R T T N T F Y N L V Y	P F F L Q E G
UniRef90_K6DWT8	G G R V D V I	N Y S L K P S H D Q R S L V Y	P F F Y L Q E G S
UniRef90_UPI000362FD09	L G R L D V T I	E Y R I R A T N T F Y N L V Y	P F F Y L H E A S
UniRef90_UPI00037F579E	E G R L N I L L	E Y T V R A T N N R F N R V F	P F F Y L N E G T
UniRef90_K9EPS1	E G L I V I R V	N Y T Y T I R T N N R N M V Y	P F F Y L N E G T
UniRef90_H8GWR0	P E R I R I R V	N Y R L V D E P N S R S L V F	P F F Y
UniRef90_F4XUK1	E G L L I S I	T Y T V R V T N S R F N L V Y	P F F Y I N E A
UniRef90_UPI00023795FD	H C L L I R V	D Y R I R A N N A T Q N L V Y	P F V L D E G
UniRef90_R7ZVW0	P G V V L I E L	D Y R I R S T N S R K N L V Y	P F F Y K I E A
UniRef90_I5B7H2	P N I A E I S I	D Y K V R Q T H T K H N L V F	P F F Y L G G
UniRef90_UPI00035CFFD8	E G R V E L S V	D Y R I R A T N T R Y N F V Y	P F F Y L Q E E G S
UniRef90_B3QN04	N G V L L I S I	D Y L I K A T N S R F N M V Y	P F F Y L Q E E G T
UniRef90_Q8YRX4	Q G L I Q I V	D C T I I S T N S R F N F V Y	P F F Y L Q E E G S
UniRef90_M7XD14	E G R I I T I	T Y K V R S T N S R F N F V F	P F F K N E A
UniRef90_R6HYE7	E G L I K I T L	D Y T V R Q T N R R T N M V Y	P F F Y L N E G T
UniRef90_W4M223	E G R I D I R L	D Y T I R T T N T R S N L V Y	P F F Y L D E A T
UniRef90_E3IXC2	H D V L L V E	T I Y R V R A T N S R L N L V Y	P F F Y L
UniRef90_S7U2Q8	P E R M D I R L	E Y R L R R T G H R E S L V I	P V F M A E
UniRef90_C7PCP2	A G K L H L Q I	N Y T I I A T N T R H N M V Y	P F F Y F L E G T
UniRef90_B5EGS7	E G V V L I E V	I Y R V I R T N S R F N F V F	P F F K L E G T
UniRef90_K6WID0	T G T F Y I D	V R Y R I H R T N D R N L V F	P F F Y V I P
UniRef90_F9U9K7	Q G E L L I R I	D Y K V Q G T N S R G N L V Y	P F F Y L D E A T
UniRef90_F4L0G9	E G I L I E V	A Y R V R S T N S R F N F V F	P F F Y F R E E G T
UniRef90_U5BUJ8	D G V L L I H L	S Y T V I T N T R S N M V F	P F F Y F R E G T
UniRef90_V9UDD6	A G Q V L M E I	D A T L V D S N E P H N L S I	P L Q M G A S A
UniRef90_UPI0003822ED1	E G V V L T D I	V Y R V K A T N S R F N F V Y	P F F Y K L E G T
UniRef90_UPI0004717A5C	E G V L L I S I	E Y L V S S T N S R F N F V F	P F F Y S E E A T
UniRef90_K9VSC6	R G R V D I E I	I Y Q P K N S P D P R S L V Y	P F F Y L S P
UniRef90_C6W173	T G M V R I Q V	E F T V K T T N S R Y N F V F	P F F Y N R E G T
UniRef90_J3CPV0	Q G M I R I E I	E Y T I R T T N S R H N Y V F	P F F Y L E E G T
UniRef90_W6TQY5	E G R L D I S V	D Y E V I N T N T R F N L V Y	P F F Y L N E A
UniRef90_UPI000378D3A8	P N L M R I E I	D Y V V R R S N A F F N L V Y	P F F Y L T E A
UniRef90_Q09DG9	D G I L L V T E	L T Y L R A T N S R N R V Y	P L Y L Q E G T
UniRef90_K9EPU5	A S L S I T V	N Y R I R E T P H R R S L V Y	P F F Y L T P S
UniRef90_UPI0002889203	E G R L K L I V	H Y E I R E G T N R N N Y V	D E F Y L R E A
UniRef90_S4XT26	E T R L I A S L	S Y R L R E V N A V M N M V Y	P L Y L R E G
UniRef90_A9DX78	E G K F L T K V	E Y L I R A T N T R R N I V F	P F F Y I T E A T
UniRef90_UPI00036D4A6B	E G I L N I E L	E Y E L K E T N S R S N M V F	P F F Y L N E K S
UniRef90_K9QGQ8	R G R V D I V I	E Y H P K E T H D S R S L V F	P F F Y L N G
UniRef90_B4W1F7	R G R V N I I I	E Y H P K D S H D T R S L V Y	P F F Y L Q P S G
UniRef90_A6FZ69	A E L L L I R L	S Y R V P E T N S R F N M V Y	P F F L T E A T
UniRef90_Q2W627	R Q C L N I S V	D Y L I R D R N R P D N L V Y	P F F L
UniRef90_S6H4K0	P G G A V L D I	E G T V T D T N E A L S L R V	P L S L G A S A
UniRef90_K9V2C0	R G R L D V I	E Y H P R N S H E Q R S L V F	P F F Y L M P G S
UniRef90_L0A0D4	P E R I V L D I	R Y R L R A Q T E H A L V F	P F
UniRef90_UPI000364859B	E G M L K I S V	A Y V I R S T N A R D N Y V Y	P F F Y L Q E
UniRef90_UPI0003642B8E	K S V V M V N I	R Y V V R S T N N L F N R V Y	P F F Y I L E G A
UniRef90_R5P778	D G V L I I C L	E Y M V R R T N S R S N M V F	P F F Y L R E G T
UniRef90_J0RTY7	N G K I E I L I	S Y I Y S K T N T R H N Y V F	P F F Y V K E G T
UniRef90_UPI00037C16E4	R G R I D L L V	E Y H P K E T H D R R S L V Y	P F F Y L P A S
UniRef90_L8N2B4	K G R L D M K I	L Y E I K E T H D S R S M V Y	P F F Y L M P
UniRef90_F4F9V2	A W R L V T R L	D Y R I R A S L T P G Q L V F	S V D L L P A
UniRef90_B7KJY7	G R V D I R I	E Y R L K E S Y Q P G S L V Y	P F F Y L M A
UniRef90_UPI0002E20A0A	R G R V D I I I	K Y K L K E S Y P D L Y S F V Y	P F F Y L V S S A
UniRef90_UPI00023BQ58	S G L I L I E I	D Y T L R S T N S R F N F V Y	P F F Y T D E G
UniRef90_U9W6Y7	G Q V V N I T I	L Y Q P K G S Y D T R S M V Y	P F F Y L M P
UniRef90_UPI0003731468	P S Q L T V S I	D Y R V R A S N Q P G Q L E F A L D	L R G
UniRef90_L7UHA0	E G T L Q I A L	E Y E V R A T N S R F N L V F	P F F Y
UniRef90_C1DS17	S G S A A I D L	T G T H V D D N A P L S L R V	P L S M G A S A
UniRef90_E7GSF8	E G I V M I S V	R Y I V R S T N N P Y N L V F	P F F Y I N E G
UniRef90_UPI0002915214	P G E A Y L D V	E G N H I D S N E P L S L R V	P L A L G A S

UniRef90_UPI00047AB5BE 1 G L G E S A G V A K V A E S I R L L L G T Q Y G G E R L M R R P S F Y G G C N L K S L V 40
UniRef90_UPI0003653D1A L Q M V D E S N S K V I R N Q S S I L M L L S T T P G G E R V I M R A P D F Y G G C N L Y D K L T
UniRef90_UPI00029A5C79 M A S E V S D I R N Q S S L E I L L S T A V L G G E R V M Q A Q Y F G G C C N M J D D M L T
UniRef90_C7PSB5 V M A V G R E D I R Q S S L H E I L L S T S L G G E R V M I P Q Y F G G C C N M A D D Y Q
UniRef90_UPI00042590A1 V L L A E N E E D I R Q S S L T I L L S T T L G G E R V L R P E F Y G G C C N N M E D D L V
UniRef90_UPI000369D3E5 G L A Y G S T G K E R S V A E S S V W L V L E T A R G R Q M R P R S F F G G C C C N T H Q A Y L V
UniRef90_W0F1C5 L E M L T G G E D I R Q S S L M Q I L L E T I T G G E R V M L P R S F F G G C C C N R L Q G A Y L V
UniRef90_UPI00034BF3A4 L Q L S A S E Q N L R E S S I L L L L R T N L G G E R K Y R P N F Y G G C C C R L L Q G E L L
UniRef90_G2H0E8 L E L V S S G E E D I R Q S S L R I L L L S T N L Q G E R V M Q P T F Y G G C C C E R L S E S E L V
UniRef90_UPI0003468B67 L K V S S Y H A N I R Q E S I R I L L L S T Q I G G E R V Y R P T F Y G G C C S R L S E S E L V
UniRef90_B7KB51 L Q T S S E I R N I E E S S I R I L L L G T K L G G E R V Y R P N F Y G G C S L L N E S E L T
UniRef90_L0FJV2 T L T A M E H I K Q Q S V E D I L T T R L G G T R I A R R E A F F G G S L P E R E L T
UniRef90_W7IHM5 I A T V G G V R K V I K Q Q A M T L V L S T Y P G G E R P F R P A F F G G A K L L P E D F V
UniRef90_A9DNH3 L Q L T K Y E T N I N E M I H L L L Q T T L G G S R P F S P Q F Y G G S G L L Q T T F F
UniRef90_A4WEL6 G L A L S E V E H I R Q Q A I L R D I L V T P V G G E R V M R R T Y G G S L L R A L L V
UniRef90_UPI00035F1457 G L A M V E G D D S I R Q Q A I L L L L S T R P G G E R L M R R P T Y G G S Q L L H R L L V
UniRef90_U2HWE8 G V Q M S E Y T L D V R E S S L H V L L S T N K G G E R L F R A N Y G G S T L L K K W V
UniRef90_C5BJK3 S A E M V S H D E D I K Q Q S I A D I L L T T R I G S R V M R R E Y F G G S L L K A N V
UniRef90_U7DDI8 I A T V G G V R K V I K Q Q A M T L V L S T Y P G G E R P F R P A F F G G A K L L P E D F V
UniRef90_UPI000289E204 A A I D E L D H I A Q C L T D I L T T R I G S R V M R R R E Y G G S L L L P E L L V
UniRef90_Q479Z5 G A V M V S N E A D I H E S L V I L L E G T V A G G E R L F E P K S Y G G L D M A R E M M
UniRef90_B0P8P5 I A M V S H E E D I R Q S S V G L I L L T Y R G G E R V M R P S F Y G G S L L R A D Y V
UniRef90_B0C8S4 S A V M V T G A D N I E E S S I A I V L G T K L G G E R V Y R P E F Y G G S R L S E L T
UniRef90_UPI00037B842F S A V M V T G A D N I A Q S S I A D V L M T R I G T R C M R R E Y F G G S R L S E L T
UniRef90_UPI0002DC8410 A T S R E H E H I R E S S I L Q I L L G T R I G G E R F M N R P E F Y G G S R L K D L V
UniRef90_A0LPZ8 D D V A H L K Q A I A D I L L T T P L G G S R L M R R D Y G G S R L L F L L V
UniRef90_L8MJP6 M A K D E E L V K Q A I T V A L N T L K G G E R P Y W S E L G G S G L S S D L I
UniRef90_V4HZ88 G L A I E D L D H I R Q S S L S D I L L G T P I G G S R V M R R R E Y G G S M L S S D L I
UniRef90_UPI00037CFF80 I N M S S E E K D I E E S S I R I L L G T T A G G E R F L N P K Y G L D M R Q L L
UniRef90_B9M710 A L T M V R D H E D I H E S L R V L F S T F R G G E R L L Q P E Y G A G L A G D V
UniRef90_A8LSA1 G A E L S E F E K D I K E S L I L L S T I R G G E R V E M R P N Y G T T V P E L L V
UniRef90_UPI000472004E M D S S G E T L L K Q A I H L T L N T L V G G E R P L S P N M G S G L S S Y S
UniRef90_L8JW72 G F V W S S G E A N I R E S S I A L I L K T E P G G E R V G Q R A D Y G G A G L A R R F L
UniRef90_M5GYE6 L P L V A G P E K V R Q A I F T I L D T E P G G E R V M R A D D F G G C G L A R R F L
UniRef90_A0A021W7Q8 T V T D L E H I S Q S S I G D I L L R T P V G G S R V M R R R D Y G G S L L A S M I
UniRef90_C6CGA7 A A I S T V E H I G Q S S I S D I L L T R L G G T R V M R R D Y G G S L L P E L V
UniRef90_UPI000401665F L S A E Q N I R E S S I Y L L T T Q W G E R V Y R P N F Y G G C R L S E L N
UniRef90_L7ZK19 T L T D T E H I R Q S S V A D I L L T P Q G G S R P M R R D Y G G S L L S E L L
UniRef90_V5B000 T D V D H I R Q S S I S D I L L R T P V G G S R V M R R D Y G G S L L F E M L
UniRef90_UPI0003B3F940 A P I A G D A H L V Q S S I G D I L A T P I G G S R V M L P A F G G C G L R R Y L V
UniRef90_W5WMMR1 S I A L V S G D D N V R Q S S I E A I L D T E P G G E R V M L P A F G G C G L R R Y L V
UniRef90_UPI00047AB855 I A L V S G L J A H V Q M C I Q I L L S T P R G G S C V A R R E F F G G S A I H R L V
UniRef90_UPI0003640FF3 G W D W L M G A D A V D Q A L R A L L L T E P G G E R I G R P T Y G G A G L R R F L V
UniRef90_J2LFL9 V E M T S D E A D I E A S L K I L L G T T A G E R L M V P K Y G L N L K E Q L V
UniRef90_I7DR34 T D L D H I R Q S S V C D I L L T P L G G S R V M R R R Q Y G G S L L S A L I
UniRef90_Q21LX3 I D V E H I A Q S S I T D I L L T R I G T R V M R R E Y G G S L L P E L V
UniRef90_E1SFX5 I D D I D H I R Q S S I A D I L L T P V G G S R V M R R R A Y G G S L L S E L V
UniRef90_V8RAY5 G I V M A Q G I E D V S Q S S L E I L L F L T E P G G E R I M R E D F G G C G L Q D F V
UniRef90_U9S678 T V L D R A N T Q S S I A D I L L T T P L G G S R V M R R E Y G G S Q L V D L L
UniRef90_UPI00011NLT3 V A W S E G E A N V R E S S L R I L L M T E P R E S R L H L P A F F G G G L R Q D L L
UniRef90_W1JBH3 S D S D H I R Q S S I T D I L L M T P L G G S R I A R R R E Y G G S L L P D P I
UniRef90_J7TAL3 A I S T D L E H I R Q S S V R D I L L M T P I G G S R I A R R R E Y G G S L L P R L T
UniRef90_R4R6E1 A A I S T T E H I E Q S S C S D I L L S T R L G T R L M R R E Y G G S L L P E L V
UniRef90_V9X1Y6 I S E E D H I I Q S S I V D I L L T T R I G T R L M R R D Y G G S L I P E L I
UniRef90_N1UP64 G L A S V T D A A H V R Q S S I L L L L L S T R P G G E R V N R P D Y G C R L F S L I
UniRef90_V3IWK3 G L I V I D E T E S I R Q S S I T D I L L T T P V G G S R V M R R R E Y G G S L L Y S L I
UniRef90_B0VUM3 I S D V D H I S Q S S I G D I L L R T P V G G S R V M R R R E Y G G S L L S Q M T
UniRef90_I6X5J1 I S D V D H I R Q S S V R D I L L T P I G G S R I A R R N Y G G S L L S E L I
UniRef90_X8MS28 L V Y A E G P E K V R Q A I L I L L E T E P G G E R L M R P A F G A G L R R Y F
UniRef90_A4BR07 I S D T E H I H S V N N I L T T P R G G E R L M R R E Y G G L P E L I
UniRef90_B7MRW8 V V M T A D E E D I K A S L N I L E G T A I G E R F F N P R E Y G G L D M Q E I L
UniRef90_UPI0003465CD1 G I Q L S R E D Q K V K E S L W I L L R T G V G G E R V Y R P T F G G S R L S E L A
UniRef90_B2IW76 G V I M A E G A E H V R E S S M K V L E L T E P G G E R L M R E D Y G G C G L H D Y L
UniRef90_Q7MB30 F A M A S A E E S V R E S S Y I L L M T A R G E R W M E P G F G S N M S E S Y T
UniRef90_G5IB78 Q T L G D L E H I R Q S S V S D I L L T P I G G S R V M R R R Q Y G G S L L S E L L
UniRef90_L0MB52 I I E D L D H I R Q S S V S D I L L N T P V G G S R V M R R N Y G G S L L S E L I
UniRef90_C6DCN6 I S D I A H V R Q S S V S D I L L T P M G G S R I T R R Q Y G G S L L S E L I
UniRef90_E8XYV1 V A M N S A E A N I N Q S S I D I L L Q T Q R G E R S L L P Y F G G E L R A S V L
UniRef90_B6VLX1 I S E A E H I R Q S S V R D I L V T P I G G S R V M R R R E Y G G S L L S A M I
UniRef90_UPI0003A3A7DC G V T L V E L E H I R Q S S V R D I L L T P L G G S R V M R R R E Y G G S L L S A L I
UniRef90_G8LEQ7 I S D T E H I S Q S S M R D I L L T P V G G S R V M R R R E Y G G S L L S A L I
UniRef90_D4GNM1 T I T D L D H I K Q S S I G D I L L G T R I A R R E Y G G S Q I P E L I
UniRef90_O80315 L R F A E G N P S I R Q S S V R D I L L T P Q G G S R L A R R R Q Y G G S L L S T L I
UniRef90_U1ZF10 I S D I S H L R Q S S V R D I L L T P Q G G S R V M R R R Q Y G G S L L S T L I
UniRef90_V3T9H3 A S G N D S I R Q S S I W N I L A T A R P G G E R L M R P E F F G A G L P E N Y I
UniRef90_F9ZW25 T I T D L D H I K Q S S I G D I L L G T R I A R R E Y G G S Q I P E L I
UniRef90_U1ZVH1 L R F A E G N P S I R Q S S I A D I L L T T P I G G T R L M R R D Y G G S L L P E L I
UniRef90_C9XYE5 T L T D A A H I S Q S S I R D I L L T P V G G S R V M R R R D Y G G S L L S M L I
UniRef90_U2M0S0 T D L E H I R Q S S V R D I L L T P V G G S R V M R R R E Y G G S L L S A L I
UniRef90_D1NYY6 T D S E H I R Q S S I A D I L L T P I G G S R V M R R R Q Y G G S L L Y D L I
UniRef90_M2Q173 L A Y A V I G E T S I E H C L R A L L L T A T G E R V M R P D L G T T V S E S V
UniRef90_J7TN37 I S D D A H I T Q S S M Y D I L H T P I G G S R V M R R R E Y G G S L L S E L I
UniRef90_UPI00034BF88E I A D I D H I R Q S S V S D I L L M T P I G G T R V M R R R T Y G G S L L S A L I
UniRef90_N9M1R2 G A M V A D E L D Q I R Q S S I H D I L L T P I G G S R V M R R R E Y G G S L I P Q L I
UniRef90_MOQC63 I S E D A H I R Q S S V R D I L L T P I G G S R I M R R E Y G G S L L S A L L
UniRef90_J3A9W7 I R L S D Y E D D I A E A L R I L L S T A K G E R V M R P K F G G S G L Q G F M
UniRef90_UPI000302BA3A A I Q L S A A Q Q N V E E S M R I I L E T S I G E R V Y R P D F G G S R L S E L T

UniRef90_UPI00047AB5BE R G H L L I E V N Y R L R A T G D V Q S L V L P F P L E 90 100 110
UniRef90_UPI0003653D1A G E I L D I T M S Y T I K K N L N K D F L T Y S F N L E G S
UniRef90_UPI00029A5C79 G M I N R I S V V E Y T I R A T N T R N N L V Y P Y Y L N E G T
UniRef90_C7PSB5 Q G Y L R L S V D Y T I R A T N T S R Y N Y V Y D F Y V Q E G
UniRef90_UPI00042590A1 E G R V E V L I S D Y T I I S T N N R K N L V Y P Y L F T E A T
UniRef90_UPI000369D3E5 D T L L L I H V D Y R L R S N N A L H N L V Y P F Y A V E G
UniRef90_W0F1C5 Q G L L Q I N I E Y T I I T T N T R Y N Y V F P F Y M A E A T
UniRef90_UPI00034BF3A4 T G R M D I L I A Y H P I N T H D R R S L V Y P F Y L V P
UniRef90_G2H0E8 L L L I T L N Y T L R T N S D R S N L V Y P F Y L T E A T
UniRef90_UPI0003468B67 E G K V S L T I T Y Q L R D S Y D T R S M V Y P F Y M E P Q S
UniRef90_B7KB51 D K V N I I I N Y H P L D S Y D S R S L V Y P F Y L N
UniRef90_L0FJV2 S G R A E L E L T G A L V D N N E P F S M R M P L Q F G G A A
UniRef90_W7IHM5 E N L L N I D I T Y L V K G E N D P R N L V H P F Y T I P
UniRef90_A9DNI3 N G L V E V T L N Y M Y N Q T N T R H N Y V Y P F F L K E G T
UniRef90_A4WEL6 G A L Y V D M T G T R A T S G Q P F S L T I P L
UniRef90_UPI00035F1457 P E R L N V E L H Y L V R S S L A T D V V H F Q L D L E P
UniRef90_U2HWE8 E G I L W I K I E Y L I R S T N I E D N L V F P F Y L T P
UniRef90_C5BJK3 N G Y L A I E L H Y T V R T N T R S N M V Y P F Y F A E A
UniRef90_U7DDI8 Q G A I L D I E G S L V D T N E P L S L S V P L S L G A T A
UniRef90_UPI000289E204 Q G K S V L D L E G S V V D S N E P F S L S L P L S L G G S
UniRef90_Q479Z5 T G Q L N I Q I S D Y E V R A T N S R F N L V F P F Y
UniRef90_B0P8P5 H T T A V V E I S Y T V R S T N N Y F N L V Y P F H L L E G
UniRef90_B0C8S4 E G R V D I T L E Y H P K Q T H D Y R S L V Y P F Y L T P
UniRef90_UPI00037B842F N G K V S I R I D W L E E K T N N R R N M V F P F Y A A E G T
UniRef90_UPI0002DC8410 Q G R V V L L E G T L V D S N E R Q N I S I P L S L G A A
UniRef90_A0LPZ8 G N L L L V H I A Y R V I Q S Q V D G N L V Y P F Y
UniRef90_L8MJP6 P G R V V L E T L E G A R V D S N E R L N L Q V P L R F G G S
UniRef90_V4HZ88 E G A L L I E T L Y M I R K T N S R S N M V F P F Y L A E Q S
UniRef90_UPI00037CFF80 E G K M V V E M T G T R V D T A A A F S I S L P
UniRef90_C6CGA7 D G L L I V D I T S G T L A G N S T S L S L T I P
UniRef90_B9M710 Q G V I A V H L E Y E I R A T N S R Y N L V Y P F Y L A E G G
UniRef90_A8LSA1 D G V L A I H L D Y D V P A I N S R S N M V Y P L Y I K E G T
UniRef90_UPI000472004E S G R A E L S L T G V L V D T N E P F N I R T P L Q L G G S A
UniRef90_L8JW72 N G Y L E V S I E Y T I I A T N T R S N L V F P F Y E S E G T
UniRef90_M5GYE6 D G V L L I Q L N Y V I R Q T N S R S N M V F P F Y L T E Q S
UniRef90_A0A021W7Q8 A E T A L A T I T Y R L V A T A E R I S L A I P L A V N
UniRef90_C7RKK0 R A T V L I E I H Y A H V L D G R Q D V L V Y P F Y L E Q A
UniRef90_P51768 D G R M T V T L T G Q H N D T G Q P L S L T I P
UniRef90_UPI0002FE8D84 Q G Q V V M D I E G R L Q D R N Q A L S M S L P L Q L G G S A
UniRef90_UPI000401665F Q G R V D I N I L Y R L Q K T Y E G R S I V F P F Y L Q
UniRef90_L7ZK19 D G K M V I D I T G T R T D A P G A L S L S V P
UniRef90_V5B000 D G K M V V N L T G Q L A S T G E S L L T L P
UniRef90_UPI0003B3F940 P G A F E I T L E G N R T D R P S P T S L T L P L R L T G A T
UniRef90_W5WMMR1 P S L V W I E I A Y V L L A D L R P D N L V Y P F Y L R
UniRef90_UPI00047AB855 G V T L F I T L D Y L V R A T R R A E R L G F E L D L
UniRef90_UPI0003640FF3 P G T L I V D L A G T V V A T Q T P F N L R V P L
UniRef90_J2LFL9 P T L L R I A I T Y S L R A D P G P R N M V F P F Y L Q
UniRef90_I7DR34 P G G V I V S I Q G Q Y L P T G E P V T L
UniRef90_Q21LX3 E G Q L I I N I D Y E I R A T N S R F N L V Y P Y Y L F D G S
UniRef90_E1SFX5 N G A M V V E L S G N R T D S A Q P F F L T V P
UniRef90_V8RAY5 Q G Q A A L E F E G T V D N N Q P L S L S V P L Q L G G
UniRef90_N1KCZ0 D G K M V V D I T G T R S D S A A P L S L T I P
UniRef90_B6VL13 P G H L L I Q I N W K L R G S D I S Q R L D G V L R L H S G
UniRef90_U9S678 G E A I L D L V A T L T D T N E P L S L R V P L N L G A
UniRef90_A0A011NTL3 P E A A V V T V T Y R L V A T Q A L E R V S L S L Q L
UniRef90_W1JBH3 G E L A V E I S G V M V Q N N T P L M L S I P
UniRef90_J7TAL3 P G S I V I D L S G V Y A G T G Q P F S F S V P L
UniRef90_R4R6E1 Q G Q S V L D I E G C V R V D T N E P L N L A V T L Q L G A S A
UniRef90_V9X1Y6 S G S A T L E I E A R Q I D T N A P L S I R T P L Q L G A
UniRef90_N1UP64 P G Q L E I R L H Y R L R A T E D R I T V V V P
UniRef90_V3IWK3 N G Q M I V D L T G E M K D T A T P L S L T I P
UniRef90_B0VUM3 R M Q I S L D A D L V Q Q N Q P V N L S L A L N L G A A A
UniRef90_I6X5J1 N G R M V V E V T G Q L T D T G E S L S L T I P
UniRef90_X8MS28 Q M I V D I E A T N Q D T N Q S L N F S V
UniRef90_A4BR07 S A L V E I Q I T Y V H V R D G S P G S L V Y P F Y L E
UniRef90_B7MRW8 D G R A L L A L S G V L T R T M Q P V Q M S I P L
UniRef90_UPI0003465CD1 E G K I G I V M E Y K V R A T N S R Y N L V Y P F S I T D G
UniRef90_B2IW76 R G R V D I I T N Y R L K D G P D I Y S F V Y P Y Y L
UniRef90_Q7MB30 P N S L H I Q V S Y A L R G S E I L S Q Q V E G I I K L G E G
UniRef90_G5IB78 E G C L L V N V E Y T I S A H H T R D S L V F P F Y L Q A
UniRef90_L0MB52 D G K M V V D L T G S R T D T P D N F S L S V
UniRef90_C6DCN6 D G K L A V D I T G V L A D S N A V S L S V P
UniRef90_E8XYV1 T G K M V V E L T G S R N D T A T D F S L N I P
UniRef90_B6VLX1 G H M T V D I S G Q Y Q L S N V P V A F S V P L
UniRef90_UPI0003A3A7DC A S M V A I H I D Y L T R Q T N T R H N H V F P F S L L E G T
UniRef90_G8LEQ7 D G T L Y V D L T G T R Q T S G H S F S I T I P
UniRef90_D4GNM1 D G G M V V E I T G N R A D T A Q D F S L T V P
UniRef90_O80315 G E M Y V D I T G M R T D T G A S V S T T V S L
UniRef90_U1ZF10 S A G V L D L E G T R V D T N E A V N L Q V P L A L G A S A
UniRef90_V3T9H3 D G Q L V V D I T G A Y T D T G D T L S L T V P
UniRef90_F9ZW25 I S Y V N V S I H Y R L R Q N G T A G Q A D L S L Q L A S G G
UniRef90_A1VSH1 A G Q L I I D I E G L Y T P P G Q S L S L R M P L Q M G A A A
UniRef90_C9XYE5 N G E M V V E I S G Q R T D T G G D I S L T I P
UniRef90_U2M0S0 N G Q V I V D I T G E R R D A C G T F S L T V P L
UniRef90_D1NYY6 G E M A V S L S G V I M P T G E P V S I S I P
UniRef90_M2Q173 E S R V T I S V E Y R L R R T N T K A N L V F P F Y L G
UniRef90_J7TN37 V P T L Y F Q G T K T D N Q P F T A E I P
UniRef90_UPI00034BF88E D G S M V V E I T G N R A D S G A G F S L T I P
UniRef90_N9M1R2 R H V L D L D L T M T S N N Q N Q S L K I P L D L G A
UniRef90_MOQC63 P G G L F V D I T G V S A L T G G A F S L T V P L
UniRef90_J3A9W7 S E T V N V T I S Y T V R A T N K G Y Q L L H P V H
UniRef90_UPI000302BA3A R G R V L I E I N Y R L R A N Y V P G T L I Y P F Y L M P

UniRef90_V4JM05
UniRef90_A0A011NH43
UniRef90_W8GB65
UniRef90_E4PPS7
UniRef90_W01YM8
UniRef90_A0A031MFX4
UniRef90_A1ZC12
UniRef90_UPI000468A68D
UniRef90_U7QUA6
UniRef90_G6EFH8
UniRef90_UPI0002FF34FE
UniRef90_Q7MB49
UniRef90_S2L3X8
UniRef90_W7Q8L6
UniRef90_UPI0003196D0C
UniRef90_N9S3L8
UniRef90_J2H423
UniRef90_G9Z0G7
UniRef90_E8XUJ2
UniRef90_C7B7X7
UniRef90_UPI0004251D75
UniRef90_A0A023UVG0
UniRef90_B6XAE1
UniRef90_UPI00041FB8CB
UniRef90_R6IPT0
UniRef90_D4HTV2
UniRef90_U1YP32
UniRef90_N8W4Y9
UniRef90_R9VJ11
UniRef90_A8TYF6
UniRef90_F8GD50
UniRef90_U7P1A9
UniRef90_E9YMS0
UniRef90_K6X966
UniRef90_R1FGF4
UniRef90_B0KSZ6
UniRef90_Q3A0I2
UniRef90_F1Z9C3
UniRef90_UPI0004684207
UniRef90_D3V9M2
UniRef90_U4NM73
UniRef90_UPI000420CB29
UniRef90_N9EEB1
UniRef90_UPI0003B67615
UniRef90_E6Z0Z5
UniRef90_UPI00029A4FB3
UniRef90_U4RNM5
UniRef90_Q1QXR6
UniRef90_D4GM42
UniRef90_J1YVL5
UniRef90_UPI0002554318
UniRef90_E5FFH4
UniRef90_E8TQQ7
UniRef90_B4F0J8
UniRef90_B0V5Z0
UniRef90_N8VZT2
UniRef90_A0A009F4K0
UniRef90_D3VKL4
UniRef90_W0L890
UniRef90_N9CG16
UniRef90_F4DEH3
UniRef90_UPI0002376DF5
UniRef90_J2ZWY7
UniRef90_UPI0002FE46BF
UniRef90_A9C1Q5
UniRef90_S3NSS1
UniRef90_U1JC68
UniRef90_F3LHZ5
UniRef90_B3ET75
UniRef90_UPI00047C0A06
UniRef90_W9BTB5
UniRef90_UPI000262417B
UniRef90_M4XLM2
UniRef90_E3G775
UniRef90_R5KEC6
UniRef90_G9Y653
UniRef90_K4I3Z7
UniRef90_U6ZS77
UniRef90_C0R4U0
UniRef90_L0DW22
UniRef90_UPI000374D90E
UniRef90_C4ZMB1
UniRef90_H8MX64
UniRef90_V5YTB2
UniRef90_UPI000479B242
UniRef90_L6XKW0
UniRef90_Q2N8N3
UniRef90_A4BRD7
UniRef90_C4K896
UniRef90_E5AKP6
UniRef90_W8GC75
UniRef90_UPI00036648FB

UniRef90_V4JM05
UniRef90_A0A011NH43
UniRef90_W8GB65
UniRef90_E4PPS7
UniRef90_W01YM8
UniRef90_A0A031MFX4
UniRef90_A1ZC12
UniRef90_UPI000468A68D
UniRef90_U7QUA6
UniRef90_G6EFH8
UniRef90_UPI0002FF34FE
UniRef90_Q7MB49
UniRef90_S2L3X8
UniRef90_W7Q8L6
UniRef90_UPI0003196D0C
UniRef90_N9S3L8
UniRef90_J2H423
UniRef90_G9Z0G7
UniRef90_E8XUJ2
UniRef90_C7BTX7
UniRef90_UPI0004251D75
UniRef90_A0A023UVG0
UniRef90_B6XAE1
UniRef90_UPI00041FB8CB
UniRef90_R6IPT0
UniRef90_D4HTV2
UniRef90_U1YP32
UniRef90_N8WAY9
UniRef90_R9VJ11
UniRef90_A8TYF6
UniRef90_F8GD50
UniRef90_U7P1A9
UniRef90_E9YMS0
UniRef90_K6X966
UniRef90_R1FGF4
UniRef90_B0KSZ6
UniRef90_Q3A0I2
UniRef90_F1Z9C3
UniRef90_UPI0004684207
UniRef90_D3V9M2
UniRef90_U4NM73
UniRef90_UPI000420CB29
UniRef90_N9EEB1
UniRef90_UPI0003B67615
UniRef90_E6Z0Z5
UniRef90_UPI00029A4FB3
UniRef90_U4RMM5
UniRef90_Q1QXR6
UniRef90_D4GM42
UniRef90_J1YVL5
UniRef90_UPI0002554318
UniRef90_E5FFH4
UniRef90_E8TQQ7
UniRef90_B4F0J8
UniRef90_B0V5Z0
UniRef90_N8VZT2
UniRef90_A0A009F4K0
UniRef90_D3VKL4
UniRef90_W0L890
UniRef90_N9CG16
UniRef90_F4DEH3
UniRef90_UPI0002376DF5
UniRef90_J2ZWY7
UniRef90_UPI0002FE46BF
UniRef90_A9C1Q5
UniRef90_S3NSS1
UniRef90_U1JC68
UniRef90_F3LHZ5
UniRef90_B3ET75
UniRef90_UPI00047C0A06
UniRef90_W9BTB5
UniRef90_UPI000262417B
UniRef90_M4XML2
UniRef90_E3G775
UniRef90_R5KEC6
UniRef90_G9Y653
UniRef90_K4I3Z7
UniRef90_U6ZS77
UniRef90_C0R4U0
UniRef90_L0DW22
UniRef90_UPI000374D90E
UniRef90_C4ZMB1
UniRef90_H8MX64
UniRef90_V5YTB2
UniRef90_UPI000479B242
UniRef90_L6XKW0
UniRef90_Q2N8N3
UniRef90_A4BRD7
UniRef90_C4K896
UniRef90_E5AKP6
UniRef90_W8GC75
UniRef90_UPI00036648FB

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

UniRef90_V4JM05 P N V A W V T L R Y K L V A N Q A P E Q M Q L K L Q L N G 100 110
UniRef90_A0A011NH43 P A E L R L E I A Y R L A R S G T P A A L A V T V R L E E G
UniRef90_W8GB65 N G K M I V S D L T G S R T D S D S R L S L A V
UniRef90_E4PPS7 P G Q I L L V S L T G D Y I P S G E T I N L
UniRef90_W01YM8 A G R L V L T L K G R H L P D G H P L T L
UniRef90_A0A031MFX4 P G R S V I L Q E G E L V D G G A L A L Q V P L Q M G A
UniRef90_A1ZC12 E G R L L V D Q L E Y T I R S S N S R F N L V Y P F Y V T E
UniRef90_UPI000468A68D P G V F V L D L D Y Q H A G S R Q P Q R A T V P L R F Q
UniRef90_U7QUA6 P N T L H V I T Q T Y S L R G S E I S Q Q L
UniRef90_G6EFH8 Q G N V T I T G N R T D I A N A F T R L T I P L
UniRef90_UPI0002FF34FE G S T L L I N V S Y R I P E T N T R H N H V Y P F S L I E A T
UniRef90_Q7MB49 P S T L H V I Q V T Y A L R G S D I N Q Q I E G V L E V N E G
UniRef90_S2L3X8 P G T L I L E M T A R R T D T G E T V G L T V P L
UniRef90_W7Q8L6 P G T A V L E T D G Q T R G G A Q P I Q L E V P
UniRef90_UPI0003196D0C P G A V M L T I E G E K Y K P N G N Q Q I T L
UniRef90_N9S3L8 R G S F E L E I D C N V V D N N Q Q S L S I P L N F G
UniRef90_J2H423 A D A A L A A V D Y R L V A T G A R A R I S V T V P L G Q A
UniRef90_G9Z0G7 A G E M Y V D I T G A L A D T G A P I S T T V S L
UniRef90_E8XUJ2 D G K A V V E L T G T R K D T S A A L S L T L P
UniRef90_C7BTX7 N G K M T I D I S G H Y Q L S P G G F S L S I P
UniRef90_UPI0004251D75 H N C L T I K V S Y R L K S T Y E L Q N L I Y P F Y L E
UniRef90_A0A023UVG0 D G K M I V D V T G S R N D T A S I N L S I P Y
UniRef90_B6XAE1 E A Q M V I E I D A I Q Q E T N Q P L T F S I P
UniRef90_UPI00041FB8CB A T V E V F I T Y T V I R Q T N A R H N H V F P F S S L E G S
UniRef90_R6IPT0 D G I L I J E L Y Y T I R M N N V Q Q E L T Y P I Y F
UniRef90_D4HTV2 N G S M L I D L E G E Y L V N G E
UniRef90_U1YP32 P E V L E V R L K Y R V S T S H M E D Q I V I A L P V E S G G
UniRef90_N8WAY9 K G A I L V L E F D A S L S T S N Q P L N L N V P L Q M G A
UniRef90_R9VJ11 D G R M V V S L T G E I A S T G D A L S L T I P
UniRef90_A8TYF6 P G R V T L E L V V R
UniRef90_F8GD50 L S A A L A T I T Y R L V A T S G R E R I S V A I P L K S S
UniRef90_U7P1A9 P G T A V L E I E G R T A A G E P L A M
UniRef90_E9YMS0 G R A V V T L S G I T I T E T M Q N I T F S I T L R E
UniRef90_K6X966 V R A V D I T V S Y T L V A T G E R V S M T
UniRef90_R1FGF4 E S R V T V S V T Y R V R H S N T K A N L V F P F Y L G
UniRef90_B0KSZ6 Q I T G L L L T G Q Y
UniRef90_Q3A0I2 T S T L D I V L E Y R V R R T E E R L A L G Y D L H
UniRef90_F1Z9C3 S G Q A S V S L T G R I V A A G S S A N L T I P L
UniRef90_UPI0004684207 G A A V I D I E G E R I D G P R R R N L T I P L
UniRef90_D3V9M2 D G R M V V D I T G T Y H Q S A R R E F S L S I P
UniRef90_U4NM73 E N G L I F D L E G T S T V T G Q N M N L R I P L K M G A S S
UniRef90_UPI000420CB29 T S Q I F I V A Q I I D S G A A F S F H F P
UniRef90_N9EEB1 G L V F A I E G F S Q I T G Q M N L R I P L N M G A G A
UniRef90_UPI0003B67615 E Y L M T I N L D Y Y V A Q T N T R D N M V F P F Y L N V S
UniRef90_E6Z0Z5 E G K I S I S F E G I Y V P S G K P I T M
UniRef90_UPI00029A4FB3 G G Q I T L Q L S G R Y L G A N Q T L E V T
UniRef90_U4RNM5 P H S L T G T I D A T V K S S N T K L T M T
UniRef90_Q1QXR6 P G R F D L R I A G R I D T G D D V A I D V P L
UniRef90_D4GM42 D G S M A V E I N A Q R A D G S P L A M T I P T G V N R G S
UniRef90_J1YVL5 E G R M T V N V T G Q L V S T G E T L S L T L P
UniRef90_UPI0002554318 D G S M Q V D L S G Q R A D G S P L S M T V S T G V N S G G
UniRef90_E5FFH4 A G V Q V V D I E G T T E T G D P V S T R V Q L T N G G A A
UniRef90_E8TQQ7 P G R V E V T L T G T R T D A R R A P L T L L I Q L A G G A
UniRef90_B4F0J8 H E Q V I V D L T G Y Y A H N Q Q P I N F S L P
UniRef90_B0V5Z0 E G S Y F L D M D C S L V D S N K Q A S L S I P L S I G S A
UniRef90_N8VZT2 G Q M V I D L E F T L T K T G Q A Q N L N I P V S I G A
UniRef90_A0A009F4K0 G L M Q L D L E T V H T T G Q S L N L N I P L Q M G A S S
UniRef90_D3VKL4 Q T L L D I R G Y V P A R D P I A F S
UniRef90_W0L890 R L I T R L V G R V S S N N Q P F N L E I P L
UniRef90_N9CG16 G L V F D I E T V Y R V S G Q S M N L R I P L N M G A K A
UniRef90_F4DEH3 N G A L T I E L T W R R K D G G V L E S A T I P I P T G A A
UniRef90_UPI0002376DF5 P G A V L F R L H G T Y D Q R G R V G P L S L N V S
UniRef90_J2ZWWY7 A Q N A H A A I T Y R L V A T G A A E S I A L A V P L G A
UniRef90_UPI0002FE46BF P G Q A F V D L E G Y S T V N D A A V S L R A P L T L G G
UniRef90_A9C1Q5 P A R A D L T L I G T F N N T P A P L S L Q M P
UniRef90_S3NSS1 E S Q L V F E I E G S L R I T S G Q N M N L R I P L K M G A S
UniRef90_U1JC68 S G K L S I D I L S G L Y L I N G E P
UniRef90_F3LHZ5 H V T L D L I G E Y
UniRef90_B3ET75 S G L V N I Y V S Y I I K S T N M P G N L V Y
UniRef90_UPI00047C0A06 S G K Q V I D I E G R L I N T G Q S L N L S I P L S I G A
UniRef90_W9BTB5 P G E L V I A L E G E R T D I N S R V Q L S I P I R R G G A S
UniRef90_UPI000262417B N S R F Q L D L M E M Q I V G S S D I N K L S I P L T M G A S T
UniRef90_M4XLM2 Y N K L I C L D M F T L K
UniRef90_E3G775 D G R M V V N L E G Q F R D T G E S L S L T L P
UniRef90_R5KEC6 S G C L I Y I D Y R L R G G S V R D N M V F P F Y L
UniRef90_G9Y653 D G V F D L T I E G I N K E T G Q P V T L
UniRef90_K4I3Z7 A G W V E L T L E G E V R P Q G F A D R L V
UniRef90_U6ZS77 Q I T F Q L T G Q Y
UniRef90_C0R4U0 R V I T L D L E G V Y
UniRef90_L0DW22 L S E V H L T V R Y R L R H S D A P Q S L A L A L D L N
UniRef90_UPI000374D90E A G Q L H L Q L A L T R L D T R E P E Q H T L A I N L N
UniRef90_C4ZMB1 L S Q V N L E V R Y R L L A D E R R E T L Q L A L D L G
UniRef90_H8MX64 A R A A T V T L A Y K L V A T G A R E R L
UniRef90_V5YTB2 P G R I E L D L T G E Y L P D G Q T I T L
UniRef90_UPI000479B242 P E T A I A T I T Y G L V A T A A R E R I T V
UniRef90_L6XKW0 K I T I L I D V E T R R R L E F N N L E L V F
UniRef90_Q2N8N3 A E T A I A S V T Y S L V A T G Q R
UniRef90_A4BRD7 A T V L A I V L E Y R V R R T G W E E H L A L G Y D L H R G
UniRef90_C4K896 H I T F D L V G E Y
UniRef90_E5AKP6 R G M Q T V D I E G I T A E T D E A F S V R V P M S V S G S G
UniRef90_W8GC75 S N T L Q M R V A Y R L R G S E I N Q K I Q G S L A L A E G
UniRef90_UPI00036648FB P G A F I V S L E G T R T D

UniRef90_D5LGZ4
UniRef90_UPI000468ED20
UniRef90_Q5F8P0
UniRef90_UPI00046ED989
UniRef90_UPI00036C04C4
UniRef90_E5AT04
UniRef90_H2IRI7
UniRef90_H5WVPB8
UniRef90_B1JT28
UniRef90_UPI000463A98F
UniRef90_A0A013JIA5
UniRef90_J0ZBR4
UniRef90_N9WEN0
UniRef90_Q4E960
UniRef90_J2LRQ1
UniRef90_UPI0002DCCA31
UniRef90_UPI000466768E
UniRef90_Q1D3V1
UniRef90_UPI00029A06F1
UniRef90_E7G9C5
UniRef90_E6YTW3
UniRef90_S7UTE7
UniRef90_X7FM97
UniRef90_UPI00035FB4A5
UniRef90_UPI00035D89FB
UniRef90_UPI0003B5B51A
UniRef90_K5ZNNW7
UniRef90_S2EWJ2
UniRef90_A0A037XJ50
UniRef90_B3CP82
UniRef90_UPI000377D734
UniRef90_U5SLE5
UniRef90_UPI0002198847
UniRef90_W3ZZ38
UniRef90_E5E3V5
UniRef90_J2SR56
UniRef90_E5ALJ9
UniRef90_D4M9N2
UniRef90_B3R3K4
UniRef90_UPI0004710F60
UniRef90_B2SVG0
UniRef90_S0YMS0
UniRef90_T9FPW0
UniRef90_G7LSU1
UniRef90_UPI0003B64EDA
UniRef90_L0R7M5
UniRef90_I0KRW6
UniRef90_UPI0003B58B0A
UniRef90_I3TDD4
UniRef90_B6XDK3
UniRef90_W6TE43
UniRef90_UPI00036C3C6F
UniRef90_G3IRF2
UniRef90_C4S5R8
UniRef90_G0AIQ7
UniRef90_M9WTZ1
UniRef90_C6D9F6
UniRef90_R5HI08
UniRef90_E7JNH1
UniRef90_UPI00039AA1FC
UniRef90_V5ZB88
UniRef90_UPI000366AF30
UniRef90_Q0QZC9
UniRef90_R8AN87
UniRef90_F2P5L0
UniRef90_N1ZFS0
UniRef90_B8GS01
UniRef90_UPI00036D026A
UniRef90_I9C1W9
UniRef90_N8V812
UniRef90_L3FX80
UniRef90_UPI000381B701
UniRef90_UPI00036BB128
UniRef90_M9WS40
UniRef90_UPI00035EE940
UniRef90_W8PUG6
UniRef90_V1XLZ7
UniRef90_F2LHB8
UniRef90_X7HNN4
UniRef90_J3I8N6
UniRef90_UPI00047EE074
UniRef90_UPI0003195B86
UniRef90_N2IFU2
UniRef90_H2IY43
UniRef90_UPI00032F8A19
UniRef90_S0VNS0
UniRef90_UPI000395545A
UniRef90_F6IH58
UniRef90_D4EA02
UniRef90_W5V030
UniRef90_A0A024EJ91
UniRef90_C6BVX9

UniRef90_D5LGZ4 D A P M N R S T L L D L Y A A T A E A L 60 E A W E P R I I S V V Q V V T A T A A V P 80
UniRef90_UPI000468ED20 F K K M D E T L K G E I K E A A T Y A L L M Y N E P R I I S V V Q V V T A T A A V P 80
UniRef90_Q5F8P0 D M P A G N A A A L N L A L I H Q A A V T A L L A R W K P P R I I S V V Q V V T A T A A V P 80
UniRef90_UPI00046ED989 D Q P Q N A A A L N L Q I Q M A A Y M A I L L K W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_UPI00036C04C4 D A P M N G P V L S R V V A A T A E A L L D Q W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_E5AT04 F E N I S D G L R T E I R Q M A S D A V I Q T Y E P P R I I S V V Q V V T A T A A V P 80
UniRef90_H2IR17 D Q P Q N A V I R L Q I Q M A A Y S A I L L K W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_H5WVPB8 H A P N T V A T R R Q M R D L V Q E S L L A R W E R R I I S V V Q V V T A T A A V P 80
UniRef90_B1JT28 F M G T V N P L M R M R V M A A S V M A L L A R W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_UPI000463A98F D M D T S L T E L T I M R R D L T S A I L L R Q E P P R I I S V V Q V V T A T A A V P 80
UniRef90_A0A013JIA5 D Q P M S D V L K V K I F S A I Y T P V T R W E E R I I S V V Q V V T A T A A V P 80
UniRef90_J0ZBR4 D A P V I N E A F A V T L Y A A I A E A L L D K W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_N9WEN0 D R P I N A A T R L T L M L A A S A D A I L L A R W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_Q4E960 D H P I V P G F A Q E L Y A A V A E A L L E K W E R R I I S V V Q V V T A T A A V P 80
UniRef90_J2LRQ1 D Q P Q N D V V R L Q V V M A A A Y T A L L S R W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_UPI0002DCDA31 D Q P V I N A G W K S A V Q A E A A R A L L Q R W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_UPI000466768E D R P S N D Q T I L A I Y S A C A M A I L A K W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_Q1D3V1 G Q P N T V I S T R R R I F E G L V Q R A L L T E W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_UPI00029A06F1 D Q P F N D E T R L R L F G A T A T A L L M R W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_E7G9C5 F E P L N S L T E E L I R H E T I R S L L T K W E K R I I S V V Q V V T A T A A V P 80
UniRef90_E6YTW3 D A P V I N N A F A V L L Y A A I A E A L L D K W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_S7UTE7 D R P I N D R A R P H A L V R E A V R A I L L A R W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_X7FM97 D N P Q D E S N R V R I I A A T A G A L L A R W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_UPI00035FB4A5 D Q P F N A V T Q L K L F E G A T A T A L L M R W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_UPI00035D89BF D Q P L V G G T V L R L V L A A S A M A L L M R W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_UPI0003B5B51A D Q P L N P A T K L R L I F A A T A H A I L A K W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_K5ZNW7 D A P L N R S T L A Q I Y S A T V G A L L Q T W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_S2EWJ2 D L P V S E G W K S A V Q A E A R S L L G R W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_A0A037XJ50 D A P Y S S A T K L A I I A A T A E A L L I T W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_B3CP82 D K S I N R D L T L E I Y S A V A E A L L Q R W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_UPI000377D734 H Q P N N E T T R H L I A G V V R K S L L E T W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_U5SLE5 D N P T D P S L A M R I I M E S A G A I L A R W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_UPI0002198847 D Q P Q H G A T R L R L I E A A T V H A L T L W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_W3ZZ38 F E P N I P A T H R L I I E A K I D H A L R R W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_E5E3V5 D A P T N G A T R I R L Y A A A T A L L M R W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_J2SRS6 D L P V I N S E G W K S A V Q R A E V A S T L G R W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_E5ALJ9 F G S L S E G V L A G L R R R I E S V L A R E E P P R A E V V E I R A D M Q Q D V A I H Q
UniRef90_D4M9N2 D Q P V T K G W K L S V Y T A V A E A L L H R W E P P R V R V D R V I R I D A V G A
UniRef90_B3R3K4 D Q P L H R A T L L R A M S A S V M A L L V R W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_UPI0004710F60 D H P G N D A N M L R L K A A T V M A L L A N W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_B2SVG0 D Q P F N G A T R T L L Y G A T A T A L L M R W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_S0YMS0 D S P M N D V T R L Q V C M S A A V I A I S R W E P P R V A V S A V I D V A W D K
UniRef90_T9FPW0 D Q P V D N A T K L R V M S A I Y S A L Y L W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_G7LSU1 D A P Q N E V T R L Q L M S A I V I A L L T R W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_UPI0003B64EDA F M D M N L T E L T I M V F A R E L E E S V L T Q E P P R I I S V V Q V V T A T A A V P 80
UniRef90_L0R7M5 D A P M N G E T V I D M F A A V A V A L L D R W E P P R F R L D Q I I T V L S A T A G
UniRef90_I0KRW6 D Q P F N E A T R L R L Y G A T A T A L L M R W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_UPI0003B58B0A D Q P L N G A E M S L L Y S A A L L A L L M R W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_I3TTD4 D R P L G A A L A A D V L A A E T A D A L L A R W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_B6XDK3 D H P R D E T L R L Q L I A A T A S A L L S R W E P P R L S L S Q V V T V F F P E N A
UniRef90_W6TE43 D R P T S P G F A V E L Y A A T A E A L L Q K W E N R F K L E R S V R I A S T R E I K
UniRef90_UPI00036C3C6F D A P V I N A E T S L E F Y A A T A E A L L N R W E P P R F K L T S V R I A S T R E I K
UniRef90_G3IRF2 A A P M N G A T I I D M V A A T A E A L L D K W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_C4S5R8 D D P Q N P L L R L R K A M S A A Y S A L L M R W E P P R V V L T R V V L L A Q P Q
UniRef90_G0AIQ7 D Q P L N G A T V L R K I Y A A T A S A V M L W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_M9WTZ1 D K P I N R D L T L E I Y A A V A E A L L Q K L E Q R F K L E K V K I T E V K
UniRef90_C6D9F6 D E P Q E P A L K L K I T S A L Y S A L M R W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_R5HI08 D Y P I N E A T P L N I V R E A T S A I T M W E T R I K I N S I V V T L E E I L E
UniRef90_E7JNH1 D Q P N D G S T R L R V M S A V V M A L L T R W E P P R L E I I G V D F A A E N A D
UniRef90_UPI00039AA1FC D Q P Q N A A T R L Q V M A A I Y G A L L H R W E P P R L Q L T A I H I L N S N F
UniRef90_V5ZB88 D Q P Q N P G L R L R Q V M A A V I Y A L L K R W E P P R L M L D S V H I L N S N F
UniRef90_UPI000366AF30 D L P V S E G W K S A V Q A E A A R A L L K R W E P P R L E L T Q V V Q V L S V L
UniRef90_QOQZC9 F E P M D P F L V D A I R E I E T A I K N F E P P R I I S V V Q V V T A T A A V P 80
UniRef90_R8AN87 D Q P Q N A A L R L Q I Q M A A Y S A I L L T R W E P P R V Q L Q S I V Q M K T D Y D M
UniRef90_F2P5L0 D A P F N P S T Q M D C I A A T A E A L L Q R W E P P R V D V A R I S V I Y E S K
UniRef90_N1ZFS0 F E P L Q V S L K K N I Q Q E T E N C I R K W E K R V S S V T V D I F E E S T E Q E
UniRef90_B8GS01 D D P V D Q R S F Q V E I Y A A V A E A L L R R W E P P R L R L E R V V T V L V E V R D E
UniRef90_UPI00036D026A D H P I D R A R P H L V R E V V E A L L R R W E P P R V R K I E R V V T V L P D E A H
UniRef90_I9C1W9 D Q P L N G K A T I V L K I Y A A T A L A L S R W E D R I R V K R V S F V G D T Q G
UniRef90_N8V812 D Q P V N D A L I V Q L I Y S A I Y T P I L R W E N R I S I E K I A V S N I S S
UniRef90_L3FX80 D A P M N A T T R L Q C M S A A V I A L L T Q W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_UPI000381B701 D R P A N D E N M M Q L M S A T V R I A L L S T W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_UPI00036BB128 F E P R T S E A C H R L L A D D T V R A L V L G E P P R V I V D A V E A V P A G E A
UniRef90_M9WS40 D K P I S R D F T L K I Y A A T A E A L L G K F E K R F K L E K V K I A E A K
UniRef90_UPI00035EE940 D A P G N G A V R T R L Y A A V A T A I L M R W E P P R I I S V V Q V V T A T A A V P 80
UniRef90_W8PUG6 D W P T N R V T P H L V R E A V D A I L R Q W E P P R V S V V Q V V T A T A A V P 80
UniRef90_V1XLZ7 D A P V I N D A L P L Q L M A A I F D A I I R Q E P P R V T V T E I V Q L R S H T A Q
UniRef90_F2LHB8 D A P N N G A T R V R L Y A A T A T A L L M R W E P P R L T V S S V Q A S S D D P L
UniRef90_X7HNN4 D N P R D D L T R L Q I I A A S A T A L L A R W E T R L K V T R V L V S F P E G E
UniRef90_J3I8N6 D L P V N K G W I S S V Q A E V A R A L L G R W E P P R L K L D R V V S V S V I T G G
UniRef90_UPI00047EE074 D Y P I D R A L P H V V R E S V E A I K R W E P P C K L L G V K P T V D G E
UniRef90_UPI0003195B86 D L P V T E G W K S A V Q A E V A R A L L G R W E P P R L A L T S V R V L S V L G G
UniRef90_N2IFU2 D K P L N D A T A L I E A K A V A V M A L L M R W E P P R L R L T R I V L S M G D R
UniRef90_H2IY43 D Q P G N A V T R L R I Y M S A I Y S A L L F L W E P P R I I S L S N I V L T E T G
UniRef90_UPI00032F8A19 D R P T S A G F A V E L Y A A T A E A L L Q K W E N R F K L E R V K V E S I K E G
UniRef90_S0VNS0 D S P A N E I T R L R C M S A A V I A I T R W E P P R V A I N S V I D L T W R N
UniRef90_UPI000395545A D Q P M N L L A Q T R A F S A I Q S A L L M R W E P P R I E V K Q I K S L R D P S R
UniRef90_F6IH58 D Q P M T A A N I L R V Y A A T A V A L L T R W E N R I R L R R V I G V A A G D R
UniRef90_D4EA02 F A N L S E S M L G A L R H R I V E S V A H H E P R A E Q V D V V L Q E D P T L
UniRef90_W5V030 D M P V S E G W K S A V Q A E A R S L G R W E P P R I A L L S A V R V V A V V
UniRef90_A0A024EJ91 D M P V N E G W K S S V Q A E A V R A L S R W E P P R V K L E R I R A L S V L G G
UniRef90_C6BVX9 D R P Q D K N F A T I E V F S A V A E A L L D K W E P P R Y K L T K I A I V S A N A

	90	100	110
UniRef90_D5LGZ4	RVEFSITGEY		
UniRef90_UPI000468ED20	GGVVEILLYMYNQNTNR	HNYVFPFYINEGT	
UniRef90_Q5F8P0	AGKLVKLTLDVTLADGGER		
UniRef90_UPI00046ED989	NGE M F V D I T G T L T D T G G T F S L N V P		
UniRef90_UPI00036C04C4	P G K L S I D I E G V Y L E T G R T I T F		
UniRef90_E5AT04	P W T L N I D I A Y R L P L N N T		
UniRef90_H2IRI7	D G A M V V N I T G N R T D T P		
UniRef90_H5WPB8	P S E L R V E I V Y R L A N T G A P G A L N V T V Q L E G		
UniRef90_B1JT28	D G S A V L E L L Q G E R T D G G T A F S M R L P		
UniRef90_UPI000463A98F	Q G Y I M I N V D Y T L A A N N Q R D N L V F P F Y L N A		
UniRef90_A0A013JIA5	S G G L Q L D L E A V H T L T G Q A L N L N I P L Q M G S S		
UniRef90_J0ZBR4	G Q V F L S F E G I Y L P S G K P I T M		
UniRef90_N9WEN0	D G R V A L D I E G R P A G A N S F T R L A I P L		
UniRef90_Q4E960	E G K V T L I L E G S I		
UniRef90_J2LRQ1	D G S M V V E L T G Q R A D G S P L A M S V P T G V N S G S		
UniRef90_UPI0002DCDA31	Q I G F R I T G T Y S		
UniRef90_UPI000466768E	G A V T L Q T T G V Y Y P N G H K G D F S V		
UniRef90_Q1D3V1	P A Q V R V E I V Y R L R R T G D V I Q Q L G L A M D L G G		
UniRef90_UPI00029A06F1	G S F V L D L Q G L A T S G A S R N L S V P L R F H		
UniRef90_E7G9C5	Q G V L K A Y I Q Y V V V S E G E		
UniRef90_E6YTW3	Q V S L S F A G I Y		
UniRef90_S7UTE7	P A H V L I R I E F R L A D		
UniRef90_X7FM97	H G H F D L T I V G T D I E S S Q P I T L T		
UniRef90_UPI00035FB4A5	P G S Y L L D I A Y Q R T N Q R R R L T I P L R F R P S		
UniRef90_UPI00035D89FB	A G Q L V I D I E G Q L V D G P R R L A L S V P L A M G G A A		
UniRef90_UPI0003B5B51A	K F E L H V E		
UniRef90_K5ZNNW7	P G V L T L D L Y G Q Y L P N G Q Q I A L		
UniRef90_S2EWJ2	Q I S L E L T G E Y		
UniRef90_A0A037XJ50	P G K I I I D L S G R Y L P D G		
UniRef90_B3CP82	K V T L D L E G L Y L P S G K N		
UniRef90_UPI000377D734	V A D V H I N I R Y R L R N S Q R P A E L G F T L N L		
UniRef90_U5SLE5	G K I T I L I A T D I E T Q Q R L E F		
UniRef90_UPI0002198847	G G A I T L T W R A D N G		
UniRef90_W3ZZ38	P A R A T V S I N Y T L V A T Q E H V E L A V P V A G G P A A		
UniRef90_E5E3V5	A G Q Q L V D I E G W T D E R D E P V S L R V P V L N G V G A		
UniRef90_J2SRS6	D G R I T F E L T G Q Y L G S D		
UniRef90_E5ALJ9	P G W L G I E V T Y R L A G Q A Q T R R V S G A L D L Q D G T		
UniRef90_D4M9N2	P G V V E L A I L Y R L Q D		
UniRef90_B3R3K4	N G A L S I D L E A E R V D G P R A E A T R L H I P L R G G T		
UniRef90_UPI0004710F60	K G K F V I G M Q A V R K D V P Q		
UniRef90_B2SVG0	P G S F V L N L E G D R T D A N A R S R L T I P L H F R T S		
UniRef90_S0YMS0	Q G R A M L S L N C L T V N T M E K L E F S V		
UniRef90_T9FPW0	A G R L V A T I Q A N R T D N Q T P F N		
UniRef90_G7LSU1	G K V E A N L T G L T E T		
UniRef90_UPI0003B64EDA	Q G Y I L T N L D Y T L A E T N Q T D N M V F P F Y M N A		
UniRef90_L0R7M5	H M E I G L E G E Y		
UniRef90_I0KRW6	P G T F V L D L D G Q P T G A S S T T R L S V P L R F R		
UniRef90_UPI0003B58B0A	T G T A N L T I E G S K S T G K N V N L T I P		
UniRef90_I3TTD4	T G R L E I A I D A V Y R P D G R P L V L		
UniRef90_B6XDK3	A G C V I E I M G R Y R A D Q T A I T L		
UniRef90_W6TE43	E G H I T L I L E G L Y L P D G R P I T L		
UniRef90_UPI00036C3C6F	V V V L D L V G E Y		
UniRef90_G3IRF2	G H A L A I F G K Y R P		
UniRef90_C4S5R8	A G K M T L E L Q G Q R T D L A D S F N L A I P V G G G S		
UniRef90_G0AIQ7	Q A L L I L D		
UniRef90_M9WTZ1	E G K V N I S L D G I Y L P N G		
UniRef90_C6D9F6	A G L V A V T L Q A Q R T D N L A A F S A T I S L Q		
UniRef90_R5HI08	E S T L T V K V E W T L K D S N A		
UniRef90_E7JNH1	L S V T I E A E R T D I G Q P W A F S I P		
UniRef90_UPI00039AA1FC	D G R M V A D L T G E L V S G Q S A A L S V S L		
UniRef90_U5ZB88	D G S M V V E L A G Q R S N G A V S L S V		
UniRef90_UPI000366AF30	D G R I T F R L S G I Y K G D S Q		
UniRef90_Q0QZC9	I N S L S V S I E Y E I T G L P E R V N F V		
UniRef90_R8AN87	N G A M A E L T G V L T D G T F A S L S V P L		
UniRef90_F2P5L0	P G T V F I D L E G L Y L P D G K P		
UniRef90_N1ZFS0	Y T T L I V Q L Q Y Y I E Q I Q Q W Q T W H Y A F D L T A S		
UniRef90_B8GS01	G P V F T I E G V Y		
UniRef90_UPI00036D026A	A I R I G L H F T T P D G Q P V S M T V		
UniRef90_I9C1W9	S G T I T		
UniRef90_N8V812	G G L M I D L E A V H L L S G Q S L N L N I P L K M G A		
UniRef90_L3FX80	G G K A V I T L T G T L T E S		
UniRef90_UPI000381B701	A G L V D L E I A A T I K E S G E Q F Y M		
UniRef90_UPI00036BB128	D D R V D V T I E F R I D R H R R P T S L V V P F Y L A G A S		
UniRef90_M9WS40	E G K M T L V L E G M Y L S E G K F I N I S		
UniRef90_UPI00035EE940	A G T V Y L D I E G W T S E S G T A V S T R V P V A H G S A A		
UniRef90_W8PUG6	I T V R V K W R V A G		
UniRef90_V1XLZ7	L T A D I S M M R T D T G E N I N F		
UniRef90_F2LHB8	D G S Q T L D I E G W T D Q L D E A V T L R V P		
UniRef90_X7HNN4	S G C V L D L E G I N K E T N L P		
UniRef90_J3I8N6	Q I N L E I A G Q Y		
UniRef90_UPI00047EE074	H L T L R V Q W R V A G V E Q Q T E L V		
UniRef90_UPI0003195B86	R V T F Q L S G T Y		
UniRef90_N2IFU2	P G Q A F V D L E G Y S T V S D A A V S L R V P L A F G G		
UniRef90_H2IY43	A G Q M I A T L K A S R T D T Q S P F T		
UniRef90_UPI00032F8A19	H I T L I L E G I Y		
UniRef90_S0VNS0	N G S A V L S M S Y L I V S T M Q S A S I S V		
UniRef90_UPI000395545A	P G Y A E Y Q L L G T Y Q P L R L S V P I A W G A S A		
UniRef90_F6IH58	P G A A T V I I D A T R T D N A L V R L S V P L		
UniRef90_D4EA02	R G L L H V A V R Y H L A G Q T Q Q V T G Q L N L L E S		
UniRef90_W5V030	D G R V D L L S G V F E G E N		
UniRef90_A0A024EJ91	Q I N L S I A G E Y		
UniRef90_C6BVX9	D G N I V I D L E G K Y L P N G E		

UniRef90_UPI000407394F 1 10 20 30 40
UniRef90_AOA014NDW5 I T D D L E H I R Q Q S I R D I L V T P V G G S R L V A R R R E Y G S S L L A A L I
UniRef90_E5DIK1 V A R A R G L R A I K N Q S I L S D I L A T P V Q G G T R V M R R D N F F G G S L L S T D Q L
UniRef90_UPI000379DC11 A A L S D F D H I R K N Q S I L G V I L T T P R K G G S R V P F D R N F F G G S L L S Q D Q L
UniRef90_F5S5C5 M M S L A E S H V Q Q S I H N I L F T T R I G T R I Q R R E F F G G S L L F E L L
UniRef90_C0BXW5 F V T A D E E Q D S V K D Q S I V Y L L M T Q K G G T R P V Q R R E F F G G S L L S R I L S Y P
UniRef90_C5A8Q6 G T D E H L R Q Q S I H A R I L L S T P L G T C I Q R R R E F F G G S L L P E L V
UniRef90_S4YYQ3 T I T D D H I R Q Q S I H D I L L T T P L G T I L M R R R E F F G G S L L P F L V
UniRef90_V6PKZ9 A T T S D D D H I R D M I V R D Q L L F T N P Q G G R V I A R R P D F F G G S L L S S Q L I
UniRef90_K9PNL0 L S A S Y D L L K A I Q Q S I V Q D I L T T P V G G S R V M R R E F F G G S L L P D L I
UniRef90_B5JY65 Q V V E D L A D I A Q C I A I L L T P K G G S D P H R P E F F G G S L L W K Y I
UniRef90_B6IMG9 W L D D D A H L V Q S I A R I L T T P I G T R V Q R R D F F G G S L L P E L V
UniRef90_AOA031HFS5 A G T A H L R Q Q S I V D I L K T P R G G S R V M R R N E Y G G S L L R L F R E L V
UniRef90_UPI000372FE13 S G L E H L R Q Q S I E D I L T T P L G G S R R M R R E Y G G S L L F R R Y V
UniRef90_X5IAI2 S G L A H L K Q S I R D I L S T T R R G T R R E R P E Y G G S L L P A M I
UniRef90_W6AZ25 A P I S S G L D Q I Q D I G D V L T T P R G G S R V M R R T Y G G S L L P D L V
UniRef90_UPI0002D982FC V A D T G D D E H V R D M I E Q L L F T S P G G E R V N R P D F F G G S L L Q L V
UniRef90_V4PNX9 A L C D E A Q R I R T S V F L L L T T H V K E R W M L S S F Y G G S L L K A R F V
UniRef90_M4NDX1 A A V E G E S H L K Q S I E D I L T T P V G G S R L M R R D Y G G S L L F E L L
UniRef90_U1KRE2 E G L A H L K Q S I K D I L S T T R I G T R V M R R D Y G G S L L P N L V
UniRef90_E2SQJ7 L Q V T S E T E A S I K Q S I A D N L L T S P I G G S R L Q R R S E I G S G I P D L L
UniRef90_K2SI23 I T S E T E A S I K Q S I A D N L L T S P I G G S R L Q R R S E I G S G I P D L L
UniRef90_D8MKJ2 L Q V T K D E A S I K Q S I A D N L L T S P I G G S R L Q R R S E I G S G I P D L L
UniRef90_UPI00036C5F6F V A N V S N L S A V Q Q S M A G I L G T R R R G E R P F D P A F Y G G S L L H Q T L
UniRef90_V7HQ73 E V V E G L R G H L R Q Q S I T D I L T T P V G T R V W R R D Y G G S L L P Q R L V
UniRef90_F9Q9T2 T G L R H L R Q Q S V T D I L T T P M G S R I L R R R Y Y G G S L L H L Y I
UniRef90_M4QH63 E V V E D V A D I D Q C I R I L L T T P Q G T D P L R P L F G G S L L D V W R W L
UniRef90_N3U3Q1 V E M V S G L H D I R E S L F L L M R T R V G G S R I M E H K Y G G S L L T P L A
UniRef90_UPI00036197DE S G I A H L R Q Q S V E D I L T T P I G G S R V M R R S Y G G S L L P N L I
UniRef90_E1A290 A G V A H L V Q Q S I E D I L L G T P L G G S D R R E R P E Y G G S L L P R M V
UniRef90_Q31Q98 V S G I E D I L Q C L R E L L G T P K G G S D P H R P D F F G G S L L H R Y L
UniRef90_W6VKR6 G K A L Q T E L D L I Y Q S V K D I L T T P I G G S R V M R R D Y G G S L L S S M I
UniRef90_AOA031GZS3 Q L V V D A A D I E Q C I R I L L S T P R G G S D P H R P L F G G S L L H L Y I
UniRef90_U0ZR38 L V V V K D K A A I I Q S I R N L L T T N K G G E R P F Q P Q L G G S D I Y R L L
UniRef90_K0P6U9 A V T D T D H V R D M I Y L V L M T P I G G S R V M R R D F F G G S L L K Q L I
UniRef90_UPI0003812D9E D D L D H L R Q Q S I R D I L T T R I G T R V Q R R S Y G G S L L P E L V
UniRef90_R9TRM1 E G D A H L S Q S V G R V L F T S P I G G S V P C L R D F F G G S L L S E L V
UniRef90_UPI000380B4A3 A H A R H A E H D L V E Q L L S T P I G G S R V M R R D Y G G S L L P E L V
UniRef90_U3U125 V S G I E D I L Q C L R E L L G T P K G G S D P H R P D F F G G S L L H R Y L
UniRef90_C4U1U0 G T G T L T D A H V W Q S A S D I L N T P I G G S R V M R R D Y G G S L L P D L I
UniRef90_N9R592 G T G T L N D T D Q L W N S V N D I L T T P L A S R V M R R D Y G G S L L P D L I
UniRef90_D8V19 V S A V Q N D N A I K Q S I K N L V L T A P G E K P F Q P N I G S R V R R Q L L
UniRef90_V5UTT0 I S G L E H L R Q S I G D I L G T P L V S R R E R E Y G G S L L P R R M V
UniRef90_AOA017HBW8 D L D A H L R Q S I A D I L T T P V G T R V L R R D Y G G S L L P E L V
UniRef90_A3WV56 I T E V E H L R Q S I G D I L A T P I G T R V M R R D Y G G S L L P A L V
UniRef90_W4M0R8 T Y D E H V W Q S A N D I L T T P I G G S R V M R R N D Y G G S L L P D L V
UniRef90_UPI0002631720 G T G T L T D A D H V W Q S A N D I L T T P I G G S R V M R R N D Y G G S L L P D L V
UniRef90_L7F9F3 L S N D A S I C Q S I G D I L T T P V G G S R V C R R D Y G G S L L P E L L
UniRef90_D8NSQ3 D G L A H L H Q S I R D I L T T P L G S R V L R R E Y G G S L L F E L L
UniRef90_W7PNR7 A M L D G W P A V V Q S I L I L S T R I N T R V F L R E F F G G S L L V K L V
UniRef90_S5NE01 V V E D L D D I D Q C I R I V I G T P K G S V P L R P L F G G S L L D A W K W I
UniRef90_M4SID6 E I V R G L D D I R Q A I Q L I L R T P R G G S D P H R P E F F G G S L L H L Y I
UniRef90_AOA031G7P6 V L E G I A H L R Q S V S D I L R T P V G T R I E R S Y G G S L L P E L I
UniRef90_F3U1Y5 G V S L T A G V E A V M Q S L R V L F M T E P G E R I M R E S Y G G G M H D F I
UniRef90_S2WCS4 V V Q G A N D V S Q C I H I L L T T R K G E V P L R P D F F G G T D Y K W L
UniRef90_UPI0003828AEA L I V L K N Q Q A I S Q A M K N L V L T S P G E K L F Q P D V G K V Y Q L L
UniRef90_L0W3G3 A A T D D A D H I R D I L E Q V L F T S P G E R V M R P D F F G G S L L Q L V
UniRef90_D3G245 G L A I T D D E A H L V Q S I H D I L S T L I G T R L C R R N Y G G S L V P E L I
UniRef90_B4SMC0 V S G W A H V Q S I N R L F S T P K N T R V F L R E F F G S L L P S L V
UniRef90_B7QPZ1 V A E T G Y A N H V L D L I E Q L L F T T P G E R V M R P D F F G G S L L D L V
UniRef90_G2IX30 G T D D H L R Q S I V D I L T T P I G T R V L R R D Y G G S L L Q M E L V
UniRef90_E1PAD9 A E S S D T D H I R E M I E Q V L F T S P G E R V N R P E F F G G S L L M Q L L
UniRef90_C3X1Y5 E T L S G W P H V V I Q S I R D I L T T P V G G S R V M R R D Y G G S L L P L L V
UniRef90_Q6HAD0 V A V V K N D N A I K Q A I K N L I M T P G E K P F Q P L V G S N I S K L L
UniRef90_B3QT15 G N E H L R Q S V T D I L S T P V G S R V L L R E Y G S R L F S L L
UniRef90_M1U9E0 V S T V K N D N A I K Q S I K N L V L T T P G E K H F Q P N V G S R V F N L L
UniRef90_D8P993 V V E A V A D I D Q S I R V I L G T P K G S D P H R P D F F G G S N I H L Y L
UniRef90_R9AYE6 E I V E G L R D I D Q S L R I L T T P K A S D P H R P D F F G S N L H L Y L
UniRef90_G8PUM4 E I V E G L D D I E Q C I R I L L G T P K G A V E H R P E F F G G S L L D A W R Y L
UniRef90_D9V8K0 T D H D Q L W Q S V T K I L T T P T G S R V M R R D Y G G S V V P D L L
UniRef90_UPI00046F7DBD G T G L L T D S D Q L W N S V R D V L T T P L A S R I M R R D Y G G S L L P D L L
UniRef90_M5RRM4 I V E G A D D I A Q A I S I L R T P R G G S D P H R P E F F G S N L Y L Y I
UniRef90_UPI00047B8AE7 V E H L V Q S I G D I L S T P I G S R I A R P S Y G G S L L P M L I
UniRef90_E3SLZ0 L A K S V I G A R A V K N S I L G I V T T R K G G S R P F D P E F G C N L S D Q L
UniRef90_T8YN39 C E G A D H L R Q S I G D I L G T P V G G T R V G R P E F F G S R I P E L L
UniRef90_M4PLC7 V V E G V D I D Q A I R L L G T P Q G S D P H R P D F F G S K L Y L Y L
UniRef90_D8NJ03 V K N D N A I K Q A I K N L V L T S P G E K P F Q P L V G S R V S Q L L
UniRef90_UPI0002F884C5 T T D D D H I K D M I K L V I M T P E G E R V N R P D F F G C G L K S Q L L
UniRef90_UPI00046366B5 V A V V K N D N A I K Q A V R N L I M T P G E K P F Q P L V G S N I S K L L
UniRef90_V3DJX7 E H I Y Q S I Q D I V T T P I G S R V M R R E Y G T L V F Q L M
UniRef90_R9NGB3
UniRef90_UPI0004752F86
UniRef90_UPI0002F984F1
UniRef90_F6B2A4
UniRef90_D9I6C4
UniRef90_UPI00037747A7
UniRef90_Q6QIA0
UniRef90_H8ZN72
UniRef90_S3HF70
UniRef90_E3SKD2
UniRef90_AOA009P5N0

UniRef90_UPI000407394F D Q P Q N D A L K L Q V M A A V Y S A 60 C R W E P R L V L N S I N I E R G M 80
UniRef90_AOA014NDW5 D Q P Q N P A L L R L K M M A A V Y S A V M R W E P R V L T L N S V V N I S P G R C R M
UniRef90_E5DIK1 F R E N M T P L T A D T V E A R N L T S A I A R N Y E P P R L R R V L Q Q N K V L T P V A Y D
UniRef90_UPI000379DC11 D R P M T D Q V I R L A M Y A A A T V M A I A R N Y E P P R Y A V L L G C N K V L T P V A Y D
UniRef90_F5S5C5 D T P L S E A T L L R L C N A A A V I M A I A K W E P P R F E I E Q Q L Q A V R N Q
UniRef90_COBXW5 F T D T N G P T T L H V L E R Q V K E T L L T Q E P P R I A D V E J V V V Q L V A A G A D
UniRef90_C5A8Q6 D A P N N G A T R I R L Y A A A T V M A I M R W E P P R L T V T R V V V Q L V A A G A D
UniRef90_S4YYQ3 D A P A N D A T R I R L K L M A A T A T A L I R W E P P R L K V S K V V S L S
UniRef90_V6PKZ9 D Q P Q N P E A L R L Q V M S A V Y V A L S R W E P R M T L D S I V T Q A L N S N F
UniRef90_K9PNL0 F A P Q N S P E L A A T L V Q F T M Q A S L Q R W L G D L I D V I T Q A L A V S S E K
UniRef90_B5JY65 D A P T N E A A L L Q A Y A A S A M A L A Q W E P R I E L N S I K A V T D E S K D
UniRef90_V9LZK4 F E N T S P A S A F S T K Y S T E N A I S R W E P R V A I Q R I E D V I P V Y D
UniRef90_B6IMG9 D W P V D Q A V P H L V R E A V L A I E R W E P R V I L V G V I D E P V I Y D
UniRef90_AOA031HFS5 D Q P F N S T T Q L R L Y G A A A T A L M R W E P R L Q I K Q L S L S R G E R
UniRef90_UPI000372FE13 D A P V T N Q E T I V E I Y A S T A E A L D T W E P R F Q L Q N I Q V T R V I S G
UniRef90_X5IAI2 D L P V T R G W L S S A Q A E A A R A I G R W E P R L K L E R V A A L A V V
UniRef90_W6AZ25 D L P V T R G W L S S A Q A E A A R A I G R W E P R L K L E R V A A L A V V
UniRef90_UPI0002D982FC D E P F N E D T R T E M I A A T V E A I L N W E T R L E P T N V K Q L T S Y P D G G
UniRef90_V4PNX9 G R P Q N R E T A M L V A A S A G A I T R W I R K V R V L R C K V R V L R V A A L A V V
UniRef90_M4NDX1 F A P N S P E L A A A L Q F T L Q A A L T Q R W L G D V I D V I G K L E V S S E
UniRef90_U1KRE2 F R S Q N S L S D M I K Q Y S I L T A I T L F E V R I Q V L Q I V M V N R S V S Q E
UniRef90_E2SQJ7 F E N Q G V E T E S D M I Q R E I L A S L H T W E P R I D D I Q V S F Q R
UniRef90_K2SIZ3 D L P V T A G W R S A V Q A E V S R A I G R W E P R V K L Q S V V R A I S V I D G G
UniRef90_D8MKJ2 D Q P D N E V D T L R L R I Y A A T V A L W K W E P R I T P T Q I T F E S V A Q G
UniRef90_UPI00036C5F6F D K P I N R D L T L E I Y A A T A E A L E K W E R R F K L E K V
UniRef90_V7HQ73 D N P V T A D F S V D L Y M A L A E A L A R W E P R L R L R E A F S F N P L G D G G
UniRef90_F9Q9T2 D R P M N P I L L L Q L A D E S A V M A L N K W E P R I I S E Q F K P Q L T S N G D
UniRef90_M4QH63 F E Q L D F A I J A G L I A D E I K R T L S K Y E P R I R L Q S V I D V V L P D F D
UniRef90_N3U3Q1 D E P M N T T R L Q C M S A A V I A L T R W E P R I A L D A I T E D V V W K A G G
UniRef90_UPI00036197DE D E P V N P A T K L K V I M S A I A T S I K Y E P R V K I S S Q V T L A M N T D A
UniRef90_E1A290 F E N M S E V A A M A I E R S I Y D A I G N Y E P R V K L E N V H V V P L Y D
UniRef90_Q31Q98 D R P I N Q S L I V D L V A A T A E A L D R W E T R L K L E K V V R I V V S A S A
UniRef90_W6VKR6 D W P V N S R V T P H L V R E T V D A L R R W E P R I S V V Q V V Q V L L T E
UniRef90_AOA031GZS3 D Q P L N S A T Q L R I Y A A T A F A L R R W E P R L Q L A S V V T L S P G D G
UniRef90_U0ZR38 D A P V D T A L P H V V R E V Y A A I G M W E P R A E V V G V V T L S P G D G
UniRef90_K0P6U9 F Q Q L N E L E T F H V I N N L K Q T I T E H E P R V E V L D I K L L S S N E E
UniRef90_UPI0003812D9E D N P Q D E S T R V H I A A T A S A L A K W E P R L Q V K T V I A V Q F A G
UniRef90_R9TRM1 D E P Y N A N T R M D M I A A T A D A L A R W E T R F N V T S V V D L T H T Y Q
UniRef90_UPI000380B4A3 D Q P V T A G W V A A V Q S E A A R A I G R W E P R I R L Q R V V L S V L D G G
UniRef90_U3U125 D M P V E R A L P H V V R E T V E A I R R W E P R C E L H Q V V R L N L A Q
UniRef90_C4U1U0 D Q P Q T P A L E L Q I K V A C Y M A I L K W E P R V K L T S V T T E H R F D
UniRef90_N9R592 D G P L N D E I L Q L Q L Y A A T A T A M Q W E N R I F L R S V S V D L I E L A
UniRef90_D8IV19 D H P V N S A R P H I V R E A V N A L R W E P R I A V L K V S V D L I E L A
UniRef90_V5UTT0 F E P L D Y G T A A L I K A A V E E T I V N Y E P R V I V D S V V L I T P D F D S G
UniRef90_AOA017HBW8 D R P M T S Q V V L A L Y A A V A D A L A R W E P R F R L V G V V Q A Q P T A S G
UniRef90_A3WV56 F G P A S D A V A A T E Q L I H G A L I R W D P V V S V E K V S V L A
UniRef90_W4M0R8 D T P M H P D R T I E W Y A A T A E A L G Q W E P R F R L T R V V R I A E A T E
UniRef90_UPI0002631720 D Q P A N P A S R I R F A A T A L A K R W E P R I K V T R I A L E Q P A
UniRef90_L7F9F3 F A P S S P E L I S T L E S V Q A A L Q R W L G D L I D V I L A L D V F G E
UniRef90_D8NSQ3 D L P L N P A T R L R T M S A A V S A L V R W E P R I R I T S V V R F W I D A
UniRef90_W7PNR7 D G P Q N D Q T R M Q L M S A A V I A L A T W E P R I T L S I V D V R Y S Q S
UniRef90_S5NE01 D S P Q N Q V T T R L Q C M S A A V I A L T R W E P R I A L N T I V D I R W L K
UniRef90_M4SID6 F E P L D A F T A D T V R D E I N T I N Q Y E P R V Q L V N V V Q A T P V F A G G
UniRef90_AOA031G7P6 D L P V N E G W K S A V V Q A E A A R A L G R W E P R L K L E R V V L S V L G G
UniRef90_F3U1Y5 D A P L N G E T L V D V F A E T A E A L D R W E P R L K L R R V V E V T S A R A G
UniRef90_S2WCS4 D Q P D N R T T E I R L L S A A A S A L M R W E P R L Q L Q Q L N I E R D P L T
UniRef90_UPI0003828AEA F E P N S L E I L A S T L Q L S V Q A A L Q R W L G D V T E V A S L E I V S E
UniRef90_L0W3G3 D S P Q N D V T R L Q L M S A A V I A L A A W E P R L A L N T V V N V S Y S P T
UniRef90_D3G245 D Q P L S A R T Q L L L Y A S T A N A V S E W E P R V T L K T V V N L T V D T T G
UniRef90_B4SMC0 D A P T N R S E L R M D L I A A T V D A L A R W E P R L H V E N V D V S L P A
UniRef90_B7QPZ1 D A P Q N E E G L R L S L Y M A V A E A L A K W E P R F E L T N V V E V A S S D G
UniRef90_G2IX30 D A P V D V A L P N V V R E V Y A A I A M W E P R A E I V G V V T L S P G D D
UniRef90_E1PAD9 D W P V D R A L P H V V R E S V D A I R R W E P R C Q L M S V K P A V D G E
UniRef90_C3X1Y5 D Q P D T Y T R I R V F S A A H A L G L W E P R L R I T E I K I S M A T D S
UniRef90_Q6HAD0 F E N T T D E L L A N I H N R T E E S I L R H E P R A L L K D V I I Q P D K Q E
UniRef90_B3QT15 D A P I L Q A R T N I V R E V I R A L S E Y E P R I E V G K V T V T Q A E A G
UniRef90_M1U9E0 F E P L D P F T V D T L K D E I V D T L R N Y E P R I E V I A V V E A V R V E A V
UniRef90_D8P993 F A P N S E V L A A T T Q V L V Q S A L Q R W L G E W I L V E A V R V E A V
UniRef90_R9AYE6 D Q P C N E L T E V K L M S A A A T S L E R F E P R I K I S S Q L R V N Q S S Q T
UniRef90_G8PUM4 D V P S N D A G I L A L F V J A V A T A L E Q W E P R F S L S S I N V S Q A E P G
UniRef90_D9V8K0 F E P N S P E L A A A V Q A S A E G A L H R W L G D L T T V V Q H L D V I A E
UniRef90_UPI00046F7DBD D S A M N K S G V M D I Y A A T V E A L S N W E P R I S V T K V N V A P Y A G S D
UniRef90_M5RRM4 F A P N S D Q M A A L Q A S I Q A S L N R W L G D L I E V H D L E V T S D
UniRef90_UPI00047B8AE7 D R P M T K Q V I L A V Y A A T A I A R W E T R F E L T G V V E M R E G Y A
UniRef90_E3SLZ0 F E P Q D D F T S D A I K Q E I N T I N R F E P R V R L T G V V R V Q P R Y D
UniRef90_T8YN39 D N P Q D D F T R V R I V R E T A T A L E R W E P R L T L R R V V E V T W T G
UniRef90_M4PLC7 F E P L D A F T A D A V K D E V I N T I N Q Y E P R V E L T D V T A V V P I E Q
UniRef90_D8NJ03 D Y P V D Q A V P H L V R E A V E A I R W W E P R C E L V K I T P S I D E T G
UniRef90_UPI0002F884C5 D W P T H R V T P H L V R E A I E A R R W E P R V A V D Q V H H I L I N T Q
UniRef90_UPI00046366B5 D H P T S E A L P H I V R E C T D A L A K W E P R A R V T R I A A A Y D A E
UniRef90_V3DJX7 D A P Q N A V T R M Q L M G A T A I A L A Q W E P R I S L S T T V N V V F S E T
UniRef90_R9NGB3 D A P Q N E V T R L Q C M S A A A I A L T Q W E P R I A L S S G I S I N Y S K
UniRef90_UPI0004752F86 D A P Q N S I T R M Q L M S A A V I A L T R W E P R I A L S A V D V S W S K T
UniRef90_UPI0002F984F1 D Y P L D R A L P H V V R E S V E A I T R W E P R C K L I A V K P T V D G E
UniRef90_F6B2A4 D Q P H L Q T E A R M Y A A I A S A L M R W E P R L S I S R L R I V R D T K A
UniRef90_D9I6C4 F E N M T P L V A D T M E R V I M S S I R T Y E P R V R L Q L R V S V T P E Y D
UniRef90_UPI00037747A7 D Q P L N D A T R I R V F A S A A L A L Y R Q E R A R I A R V A L E S G E A
UniRef90_Q6QIA0 D M P I D R A T P H V V R E S V D A I R R W E P R C E V V R V I P S I A E S R
UniRef90_H8ZN72 F E P L D A F T A D A I K Q E I N T I T Q H E P R V N L T K V D V T P I Y A
UniRef90_S3HF70 F A P S S D A L V A A V E A L V H G S L I R W L D T V T I E S V G V R A D
UniRef90_E3SKD2 F E P L D D F T E D A V R Q E I N T I N R F E P R V R L E T V E V I G N F S
UniRef90_AOA009P5N0 D G P F D D I L Q M Q I Y A A I A T A I I R W E P R V S L H S V S L N I A G

90 100 110

UniRef90_UPI000407394F D G S M T V D L T G N R N D G G P A S L S V E L

UniRef90_AOA014NDW5 G G

UniRef90_E5DIK1 D Y T L I V E V Q F S V I D N P D

UniRef90_UPI000379DC11 T G A M S I E L S G V

UniRef90_F5S5C5 E R I N V Q I Q L R G R L G K Q A L N F V V

UniRef90_COBXW5 E A C L Y I H I R Y T L V Q T G A E N S L T I P

UniRef90_C5A8Q6 D G R Q Y I D I E G W T D E R D E L T T L R V P

UniRef90_S4YYQ3

UniRef90_V6PKZ9 D G S M V V

UniRef90_K9PNL0 D S S L R V F L Q Y V V K R S G E Q R T E T F

UniRef90_B5JY65 Q G G V T L E L D V I R Y D T G T P

UniRef90_V9LZK4 E N T Y D V S I Q Y H L K T N F D R L

UniRef90_B6IMG9 N A R I T L R V T W R L A A D A P Q

UniRef90_AOA031HFS5 P G A F V L D V T C R R V R S N E F T R L T V P L R Y R E

UniRef90_UPI000372FE13 R I E M D L M G L Y Q

UniRef90_X5IAI2

UniRef90_W6AZ25 D G R V T F E I R G R V D G N A E I F E V T V

UniRef90_UPI0002D982FC K S R I E I D L T G N Y L P D G N P I K L

UniRef90_V4PNX9 R G T L T L D V L P L G I V N A Q P V N L T I P F

UniRef90_M4NDX1 D A T L R V D L S Y T V R A S G D T R S D S F

UniRef90_U1KRE2 S V T L E I A I N Y Q L N H T N S R Y N L V I P F N L I D G

UniRef90_E2SQJ7 D A V L L T L R V T Y V C R Q N G Q S D S L Q Y P L P L E

UniRef90_K2SIZ3 Q V T F A L K G T Y Q

UniRef90_D8MKJ2 A R T M T L S

UniRef90_UPI00036C5F6F V I E F G L T G D Y

UniRef90_V7HQ73 I N C T I V C R T K D Q N N I I N

UniRef90_F9Q9T2 N N A F E A N L E F T I I G R Q D T P D Q S I N F L L Q

UniRef90_M4QH63 P

UniRef90_N3U3Q1 R N T L D I N L D L K L S D N N T S L T L V

UniRef90_UPI00036197DE R N E Y I V T I S Y R L I T D L N Y I Y E L K L G V S G

UniRef90_E1A290 A G Q V E L N L I G Y Y I P E G R R I T L

UniRef90_Q31Q98 G A Q I R V Q V Q W R V A D G V A Q L T E V

UniRef90_W6VKR6 A I A L L L D G T A N G Q G I T L S V P

UniRef90_AOA031GZS3 E S H W R V R V N W Q P A G A P S Q R Q

UniRef90_U0ZR38 E G T I D I Q I N Y K V K H L N I E E T I Q Y

UniRef90_K0P6U9 T G Q F D L T I Y G I N T E T G Y P I T L E E

UniRef90_UPI0003812D9E N G K A K V E L D

UniRef90_R9TRM1 R P V F R V E G E Y Q

UniRef90_UPI000380B4A3 G E R V T L L L R W R L

UniRef90_U3U125 N G Q M V V N L T G Q H A E T G E N L L L T L P

UniRef90_C4U1U0 D G S T F L D V L D A Y L H N I N K N A S L K I P L S I G

UniRef90_N9R592 Q L Q C S V Q W L A G S L D G E R Q L T H L A L G G A A

UniRef90_D8IV19 N G F E V E L S F L I V G R E D P V N V D F F L E

UniRef90_V5UTT0 A I T I R V R G E Y Q L V D T D

UniRef90_AOA017HBW8 D A T L E I T V V Y S R R D T G E R R E D V F

UniRef90_A3WV56 R G V L T L D L E G E Y L P D G R T L T L

UniRef90_W4M0R8 P N G K A T V I V E G T R T D Q P R R T R I T V P L A S R S G

UniRef90_UPI0002631720 D N V V R V H L S Y V V R A T G T R R D D V F

UniRef90_L7F9F3 D G K P V I D I E A D R V D G P R R E T L S V P L

UniRef90_D8NSQ3 G A V E A G L S G A L T E S M E Q Q T

UniRef90_W7PNR7 D G R A E A E L S G T I T E T M Q P A Q R T I P L

UniRef90_S5NE01 N K L N V Y V E Y R I V G

UniRef90_M4SID6 K I N I Q V S G E Y L V R G T

UniRef90_AOA031G7P6 S L T L L L S G E V Q

UniRef90_F3U1Y5 K G R A T I T V V G N L

UniRef90_S2WCS4 D S V L R V E L A Y V V L A T G A Q R T E V F

UniRef90_UPI0003828AEA G A V T A E M S G L L T E S

UniRef90_L0W3G3 K S V L A M Q Y S Y K N Q P K T G S L S L S L G

UniRef90_D3G245 P G V M I L A V T G I H L P D G E

UniRef90_B4SMC0 A I I L D L S G N Y R P

UniRef90_B7QPZ1 E A H W K I R I T W Q P A S G D S Q Q

UniRef90_G2IX30 H L T L R V S W K G S D G Q T R

UniRef90_E1PAD9 K G K A M L Q I D G Q T T D N A V S L S V S F

UniRef90_C3X1Y5 A S R L R A Q I T V Y L A G S D

UniRef90_Q6HAD0 L S V Q V A W R L K G E D T E Y L Y H L G E

UniRef90_B3QT15 H E L R V D V E Y R I V G Q P L V Q T I D F I L Q R A

UniRef90_M1U9E0 D S T L R V T V Q Y V V R Q T G A R V T G S F

UniRef90_D8P993 P G K W D F F L G N Q I S A M G E K S F T E N F L I G A A A

UniRef90_R9AYE6 K I L L N L V G T Y L P R G

UniRef90_G8PUM4 E S T L R I E T G Y V L L A T G E R R E D V I

UniRef90_D9V8K0 I T I D L Y A K D T E S G T S L T I

UniRef90_UPI00046F7DBD D A R L Q V N L Q Y I V T R T G E P R

UniRef90_M5RMR4 D G R L A L D I Y G R

UniRef90_UPI00047B8AE7 R N T F N V T I V F K I V G I P I N E T I E F V L Q

UniRef90_E3SLZ0 E G S A W L T L V G V N N E T Q E T I R L

UniRef90_T8YN39 G N K L S I T I E Y R I V G

UniRef90_M4PLC7 I A L R V Q W K L A D

UniRef90_D8NJ03 H I I V R V Q W R V T G Q R P Q R T E V

UniRef90_UPI0002F884C5 H V S L T I H W T

UniRef90_UPI00046366B5 G A V T A E L A G T I T E T M T E T S N T I R L

UniRef90_V3DJX7 D G A V T A E L T G T I T E T M Q

UniRef90_R9NGB3 G R V E M Y L S G L L T E T

UniRef90_UPI0004752F86 H L T L R V Q W Q

UniRef90_UPI0002F984F1 P G R A Q L V I D G A L L T D Y A R L S L T V D I G T T G G T

UniRef90_F6B2A4 R N T V I V E V R F S L D N P D T L E Q I K F R L N Q G

UniRef90_D9I6C4 P G T A R L I V T G R R T D T A G P

UniRef90_UPI00037747A7 E T I R V Q W R L A D G V I R E T E V

UniRef90_Q6QIAO N N K I N I T V E Y Q I V G L P I V E S I S F V L Q

UniRef90_H8ZN72 D S T L E I E I S Y V R I D T G E R R

UniRef90_S3HF70 R N T F D V T V E Y R I V G

UniRef90_E3SKD2 L G A Y V L D L D F T L V D N N Q L S S I R V P L S F G A A T

UniRef90_AOA009P5N0

UniRef90_A8T9K2
UniRef90_N3TRB0
UniRef90_N9LPL1
UniRef90_H6BI40
UniRef90_E5EYW4
UniRef90_C6C5D7
UniRef90_B7WUI5
UniRef90_C1DBK2
UniRef90_E5ARQ5
UniRef90_Q58LM0
UniRef90_G7LLQ2
UniRef90_T0HBX9
UniRef90_W0HJV5
UniRef90_A0A023W5U8
UniRef90_E3SQX7
UniRef90_N6YEB0
UniRef90_Q5GQU1
UniRef90_E9XFZ2
UniRef90_U3TXD0
UniRef90_A0A021X9K4
UniRef90_N1GR42
UniRef90_U3B4D5
UniRef90_E3SNK6
UniRef90_E5FIN8
UniRef90_L0LK75
UniRef90_R6PMR3
UniRef90_H8ZM13
UniRef90_D5JFE2
UniRef90_G9UJL5
UniRef90_E8YJ21
UniRef90_UPI0002DCB69D
UniRef90_V4V9Q6
UniRef90_F4HB21
UniRef90_Q602Z9
UniRef90_N9CTC0
UniRef90_B8G9A5
UniRef90_C7BVC1
UniRef90_E2CJU0
UniRef90_A4YWF46
UniRef90_A7XFD8
UniRef90_C4GGH2
UniRef90_A0A011P705
UniRef90_B0U2L3
UniRef90_K5CUB9
UniRef90_F4HC91
UniRef90_H0FAR8
UniRef90_K9VX19
UniRef90_D6PHT9
UniRef90_E5EPY0
UniRef90_B0UTN3
UniRef90_A0A023SZ21
UniRef90_UPI00035C4F58
UniRef90_Q0W3Z4
UniRef90_G2J3F3
UniRef90_UPI00045E926A
UniRef90_S6GUS5
UniRef90_K8QZM0
UniRef90_UPI000369F12E
UniRef90_R7JS48
UniRef90_R7MHQ7
UniRef90_V4NFX2
UniRef90_K9RI08
UniRef90_C5AGB7
UniRef90_UPI0004654844
UniRef90_ROG526
UniRef90_H0H830
UniRef90_N8QB75
UniRef90_C8NCA9
UniRef90_E5DRT9
UniRef90_UPI0003662491
UniRef90_S9SIW5
UniRef90_UPI000262BAF1
UniRef90_B9NP78
UniRef90_E1A1D6
UniRef90_I3DCJ6
UniRef90_Q4QK24
UniRef90_UPI00036BABB2
UniRef90_F7SVK1
UniRef90_J4KD63
UniRef90_D5GV29
UniRef90_L1NZA9
UniRef90_A0A024HGE6
UniRef90_A9KUP9
UniRef90_I4IAC0
UniRef90_F2NI29
UniRef90_UPI0003710D67
UniRef90_H8L2K0
UniRef90_Q64UY5
UniRef90_R6J547
UniRef90_E6RWA9
UniRef90_M4SLP2
UniRef90_L0GUF9

UniRef90_A8T9K2 F A N I D S A L T S E I E T M I Y E T 60 R Y E P R V E I T N I S I Q P D S V T 80
UniRef90_N3TRB0 D E P M N N T T R L Q C M S A A V I A L T R W E P R I A I L D A I I D V V W K S A G T
UniRef90_N9LPL1 D Q P C N E I T Q V L L M S T A A T S L T I R F E P R I V K I D S Q I I D V V W K S A G T
UniRef90_H6BI40 F E P P L D P F T M D A I E R N I I N S A V R T Y E P R V I D L V N I F V V N Q S A N T E Y D
UniRef90_E5EYW4 F E N L N P L V A D T I E R N I I S A V R T Y E P R V I D L Q L Q V D V I P V Y D
UniRef90_C6C5D7 D A P Q N A V T R L Q L M S A A V I A L T M R W E S R I L S L N A R A F D I R Y S A S S G
UniRef90_B7WUI5 D Q P M T P A N I L R L Q M A A A H M A L T A R H E P R I R I L T A V S F S Q D D E Q Q G
UniRef90_C1DBK2 D W P A N A R L R M Q L M A A A H M A L T A R H E P R I R I L T A V S F S Q D D E Q Q G
UniRef90_E5ARQ5 F H N I G E A L F A E L H T R D I T D S V A R N E P R V I A L E T E N V A V R E D T R Y Q D
UniRef90_Q58LM0 F E P M D G F A T A D A I R D R I L S T V V A G Q H E P R I A I E N V A V A P R E R Y Q D
UniRef90_G7LLQ2 D Y P I D R A V P H V V R E A V E A I K R W E P R I C K L L A V V K P L T S G E Q G
UniRef90_T0HBX9 D Q P M T R A N I L R L Y A A A T V I A L T R W E D R I I R L D Q G V G L A G A T R M G
UniRef90_W0HJV5 D E P E N D I T R L R C M S A A V V A L A Q W E P R I A L K G I A L H Y S K M
UniRef90_A0A023W5U8 F E N L T P L A A D T I Q K N I F T A I R N W E P R I T D L N V A V Q A L T Y D E
UniRef90_E3SQX7 F E P L D A F T A D S L K D E I I N T I N Q Y E P R V E L T T V D V T A I T
UniRef90_N6YEB0 F A P N S P E L A A T T Q G F L V H G A L Q Q W L G D L I T V E A V T V D A V
UniRef90_Q5GQU1 F E P V D A A T A A R T I G T N I R D T L L N F E P R I S V T E L E V I A N F D E
UniRef90_E9XFZ2 D Q P Q T P A L E L Q I K V A C Y M A V L R K W E P R
UniRef90_U3TXD0 D M P T E Q A I P H V V R E T V D A L R R W E P R M Q L L E V K P R A E
UniRef90_A0A021X9K4 D A K M T Q R N V L A V Y S A A A T A L A R W E P R F R M R G G A V Q R A E A T F
UniRef90_N1GR42 D Q P Q N P A L R L Q I M S A V V V A L N R W E P R L T L D S T I I N G N
UniRef90_U3B4D5 F A P N S P E L A A T T Q M F L V Q G A L A Q W L A D L I Q V E A V E V S A F
UniRef90_E3SNK6 F E P L D A F T A D A V A E E I R T T I N Q Y E P R V K L T K V V A V T P I F E
UniRef90_E5FIN8 F E N L T P L T T D T I K R N L V S A V R N F E P R I S N S L Q V A V V P M Y D
UniRef90_L0LK75 D A K M T R R N V L A V Y S A A A R A I L E W E P R F R M S A G R V T R A E A D
UniRef90_R6PMR3 D Y P V N E A T P N I I R E A T D A I G L W E T R I S V N S V S A E I S E T N
UniRef90_H8ZM13 F E P L D P E L I D T I Q S E I V S A I N N H E K R V T V T S L K C I P D Y D
UniRef90_D5JFE2 F E N M N P L T A E S I R T S I V S A I R T Y E P R V Y N L S E V I P Q Y D
UniRef90_G9UVL5 D W P V D R A R P Y V I R E A V D A I R Q W E K C Q V I R V V E P V T D G E Y
UniRef90_E8YJ21 D A P N N G T E R T R L Y A A V I A T A L M R W E P R I V L S T R V V Q L T V D E T Y
UniRef90_UPI0002DCB69D D Q P L N G V T V M R I Y A A V A Y R L A L W E P R I S L S S V V N L N R D A T G
UniRef90_V4V9Q6 D W P T N R V V P H L V R E A V D A I R Q W E P R V T V Q Q V L T G I D
UniRef90_F4HB21 D K P V N Q A L L Q L S A V C V S A L R R W E P R I D I E R F M V R V E
UniRef90_Q602Z9 D R P E I E A T P Y L I S A E I A D A I L L W E P R I E L I S I R P S F G L A Q
UniRef90_N9CTC0 D Q P C N N F T K L K I M N A S A T A V V R F E P R I K I K Q V S S T N Q
UniRef90_B8G9A5 F A P N S P E L A A A L E F L V Q G A L Q E Y L G E V R V V E A V A I E S E
UniRef90_C7BVC1 F E P L D Y A S A A I K T E I I S V L N A Y E P R I A V N D V V C I P D D M N
UniRef90_E2CJU0 D R P I T P S L I M D L Q M E V I D A I E R Q E P R L G V E R V V L V D Y D P I
UniRef90_A4YWF46 F A P N S D A L S A A T Q F L V Q G A L Q Q W L G D L T H V E G V A V E S Q
UniRef90_A7XFD8 F E N M N P L T V D T L S K N I N E A I R N Y E P R V R N L T V E V T P Q Y D
UniRef90_C4GGH2 D M P L N D I T L L R C N A A V V L A I A R W E P R Y Q I E H A Q T Q V V P Q
UniRef90_A0A011P705 D Q P F D I A V P N M V R A E F V A I D K W E K R V I V Q E V Q L S G T A
UniRef90_B0U2L3 D A P I T R A L T N D V Y A A T A Q A L A A H E P R I T L R Q V T A R A T A S G
UniRef90_K5CUB9 D S P R D D L L R L R I A A T A T A L A R W E P R I L K V S K V I V T F P E D E
UniRef90_F4HC91 D Q P F D V A V P A N I V R E T W T A L E R W E T R I V V Q S V N V T G E A P
UniRef90_H0FAR8 F A P N S D T L A A A V Q M S V Q G A L E Q W L G R I A V E A V N V S S R D A
UniRef90_K9VX19 F S P N S E L A V A V Q F L V Q G A L E Q W L G D L T E V E A L D I E P V
UniRef90_D6PHT9 F D N V D D L T A D R I K S E I E Y T V E T Y E P R V K L T N I A Q V V A N I D D
UniRef90_E5EYP0 F E N M T P L T A N T I K E S I T A A I H T Y E P R I V R L N V A V D A N Y D
UniRef90_B0UTN3 D R P I T K A L M L Q L A T A S V I A L K K W E P R I E I T R F K V D I V P E
UniRef90_A0A023SZ21 D Y P I E R A I P H V V R E S V E A I R M W E P R C R L L K V I T P T I D G E
UniRef90_UPI00035C4F58 F A P N S P E L A A T L Q M T L Q A S L T R W L G R D L I D L K E A A V E S
UniRef90_Q0W3Z4 G E N T A D T R E L I R M Y A K E C I M T E P R V R I V S I K V A N T Y K D N
UniRef90_G2J3F3 F A P N N D A L A A A V Q M T V Q G S L Q Q W L G F E L E V E A V Q V E S L
UniRef90_UPI00045E926A D K P M T D A S L I K F Y J A T A D A D R W E P R F A L D T V Y F T A S R D G
UniRef90_S6GUS5 D Q P L N Q K T I L R L Y A A A I A V I R W E P R Y K L T A L S I N R
UniRef90_K8QZM0 D E P Q N D A T R L Q C M S A A V I A L A R W E T R I A L N T I D I R W S K
UniRef90_UPI000369F12E D W P V D Q A R P H L V R E I A S A L A W E P R I T V T K V A V E A V D D G G
UniRef90_R7JS48 D K P L P S V L G K I I Y E A T T A I G R W E K R L D V T R I S A S R N D A A
UniRef90_R7MHQ7 D Y P V N I A K A N L I R E T L D A I S M W E T R V Q V N S V I T F D V P C S N
UniRef90_V4NFX2 A N P I N H A L L L Q L S S A A V M A L T M K W E P R I I Q V I T A F K P R V E
UniRef90_K9RI08 F D P N G G E L A A A T Q F L V Q G A L E Q W L G D L T E L E A V E V E N Q
UniRef90_C5AGB7 D A P G N Q G V L R T Q V I Y A A V A T A L M R W E P R L T L T R V D S I I D Q D A I T
UniRef90_UPI0004654844 F K N L N D D L R A E I K T L V T D A I L R N E P R V I V Q D V I V T Q H A D R
UniRef90_R0G526 D Q P L N G V T V M R I Y A A V A Y R L A L W E P R I S L S A V N L N R D A T G
UniRef90_H0H830 D S K M T R R N V L A L Y S A A A T A I L E W E P R F R M T A G R V T Q A D A N
UniRef90_N8QB75 D Q P C N D I T K L I M N G S A T A I L R F E P R L K I K Q V Q V R S A D R Q
UniRef90_C8NCA9 D A P M N P A N R L R L A A A L V D A A S R W E P R V V L E T A V I D I T M
UniRef90_E5DRT9 F E L M N D A S T S A V E R S L Y D A I R N Y E P R A Q L R Q V I K V V P M Y D
UniRef90_UPI0003662491 D G N F K D V A P L F I A R A T D A I L T H E P R V Q S L T I T A R Q Y G K Q
UniRef90_S9SIW5 F A P N S T E L A A T T Q F L V Q G A L Q Q W L G D L I E V I Q A V Q V D A Q
UniRef90_UPI000262BAF1 D Q P M T A A N I V R I Y A A A A V I T L E R S H E D C I H L R R I A I T A G K R
UniRef90_B9NP78 D A P M N D R G V S L Y V A V A E T I E R W E P R F E L S D V K L H T G A G R
UniRef90_E1A1D6 F E N I T P L V I D T V R R N I Q T A I R N F E P R V Y N L Q V D S T G N Y D
UniRef90_I3DCJ6 D H P I N R I L L M L Q L A S C A V T A L R K W E K R I K I R Q
UniRef90_Q4QK24 D R P I S H T L L L Q L A A S C A V T A L N R W E P R V Q I T Q F K P E L V E G G
UniRef90_UPI00036BABB2 D R P L N G K T R L Q L A A A T A I A L R T W E P R I T I A G M N L A I S T T R
UniRef90_F7SVK1 D T P T N G A A V L Q L Y A A A A T A L M L W E P R L R V R S L S A N V N A S R
UniRef90_J4KD63 D Q P E D I A P N I V R E E V F T A I D K W E K R V V V Q E V I T G E A P E
UniRef90_D5GV29 F E M I D H I T I N S M Q T E I T R C K V Y E P R I K V Q S V D I Y S Q P E F
UniRef90_L1NZA9 D Y P E D E F L P N T V R E V L A I Q T W E K R A L V E Q V T F S G H A P
UniRef90_A0A024HGE6 F E V M N A S R I A W L E N I R T A I I Y H E A R I D A D Q I T V E P D P L
UniRef90_A9KUP9 D Q P Q S A A I K L Q I M A A A V I A L T R W E P
UniRef90_I4IAC0 F T T N N T E M V A V T Q A M V Y Q A L S Q W L G D V I E V V A T V E V K N E
UniRef90_F2NI29 F A P N D P T L A T L T Q V T V Y Q A L T R W L G D S V I E V V A T V E V K A L
UniRef90_UPI0003710D67 D A P L T R S T I V D I Y S N A A E A L S L W E P R F Q S T E M Q V G A V E V M E S
UniRef90_H8L2K0 D L P M N E G W K S A V Q A E T V R A L S R W L P T F K L S S A Q V V S V L
UniRef90_Q64UY5 F E R I T E Q W K E L F T G A E T V R A I S T Y E K R I E V V R E A Q V V L D N R M I
UniRef90_R6J547 D N P I N G E L I A N I Y S D C V T A L Y N F E P E F E I V S V T V V S I D
UniRef90_E6RWA9 D R K I D D F K I K L T R Y T A E A I S K W E K R V V K L K G V R L N E C K
UniRef90_M4SLP2 F E P F D V F L A E D L R D E T Y A N C S R L E K R V E V R S V S V K P S L D
UniRef90_L0GUF9 F A P N S P E L A A T A Q F L V Q G A L Q Q W L G D L I A L Q S V Q V E T A

UniRef90_A8T9K2
UniRef90_N3TRB0
UniRef90_N9LPL1
UniRef90_H6BI40
UniRef90_E5EYW4
UniRef90_C6C5D7
UniRef90_B7WUI5
UniRef90_C1DBK2
UniRef90_E5ARQ5
UniRef90_Q58LM0
UniRef90_G7LLQ2
UniRef90_T0HBX9
UniRef90_W0HJV5
UniRef90_A0A023W5U8
UniRef90_E3SQX7
UniRef90_N6YEB0
UniRef90_Q5GQU1
UniRef90_E9XFZ2
UniRef90_U3TXD0
UniRef90_A0A021X9K4
UniRef90_N1GR42
UniRef90_U3B4D5
UniRef90_E3SNK6
UniRef90_E5FIN8
UniRef90_L0LK75
UniRef90_R6PMR3
UniRef90_H8ZMI3
UniRef90_D5JFE2
UniRef90_G9UVL5
UniRef90_E8YJ21
UniRef90_UPI0002DCB69D
UniRef90_V4V9Q6
UniRef90_F4HB21
UniRef90_Q602Z9
UniRef90_N9CTC0
UniRef90_B8G9A5
UniRef90_C7BVC1
UniRef90_E2CJU0
UniRef90_A4YW46
UniRef90_A7XFD8
UniRef90_C4GGH2
UniRef90_A0A011P705
UniRef90_B0U2L3
UniRef90_K5CUB9
UniRef90_F4HC91
UniRef90_H0FAR8
UniRef90_K9VX19
UniRef90_D6PHT9
UniRef90_E5EPT0
UniRef90_B0UTN3
UniRef90_A0A023SZ21
UniRef90_UPI00035C4F58
UniRef90_Q0W3Z4
UniRef90_G2J3F3
UniRef90_UPI00045E926A
UniRef90_S6GUS5
UniRef90_K8QZM0
UniRef90_UPI000369F12E
UniRef90_R7JS48
UniRef90_R7MHQ7
UniRef90_V4NFX2
UniRef90_K9RI08
UniRef90_C5AGB7
UniRef90_UPI0004654844
UniRef90_R0G526
UniRef90_H0H830
UniRef90_N8QB75
UniRef90_C8NCA9
UniRef90_E5DRT9
UniRef90_UPI0003662491
UniRef90_S9SIW5
UniRef90_UPI000262BAF1
UniRef90_B9NP78
UniRef90_E1A1D6
UniRef90_I3DCJ6
UniRef90_Q4QK24
UniRef90_UPI00036BABB2
UniRef90_F7SVK1
UniRef90_J4KD63
UniRef90_D5GV29
UniRef90_L1NZA9
UniRef90_A0A024HGE6
UniRef90_A9KUP9
UniRef90_I4IAC0
UniRef90_F2NI29
UniRef90_UPI0003710D67
UniRef90_H8L2K0
UniRef90_Q64UY5
UniRef90_R6J547
UniRef90_E6RWA9
UniRef90_M4SLP2
UniRef90_L0GUF9

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

UniRef90_L1LS59
UniRef90_K9EV20
UniRef90_A0A011R0J5
UniRef90_R7UZ90
UniRef90_I0IA37
UniRef90_C8N768
UniRef90_F9S4C1
UniRef90_UPI000378238A
UniRef90_W1L336
UniRef90_Q65WH1
UniRef90_J4KTU3
UniRef90_UPI0003B78894
UniRef90_UPI0003604915
UniRef90_B3PD87
UniRef90_V6JL03
UniRef90_Z9JK38
UniRef90_D6TXD1
UniRef90_E8X5D8
UniRef90_UPI000371C1CF
UniRef90_E3SIA7
UniRef90_F2BEV9
UniRef90_F2K1R6
UniRef90_H6U8K0
UniRef90_E4ZB45
UniRef90_UPI000362DC7F
UniRef90_U1AZ14
UniRef90_V4JFZ4
UniRef90_Q1QI83
UniRef90_E3SQ51
UniRef90_B0UK54
UniRef90_E8U112
UniRef90_F3XR06
UniRef90_F9H462
UniRef90_UPI000379B1CD
UniRef90_UPI0003450001
UniRef90_UPI00035E3FF5
UniRef90_X2HB68
UniRef90_UPI0002F4210F
UniRef90_D0IJ27
UniRef90_NOAM45
UniRef90_J5CMN8
UniRef90_V2YHE0
UniRef90_C8PIJ6
UniRef90_UPI0001D2F3F2
UniRef90_M5JTA5
UniRef90_D0I948
UniRef90_A0A037UUA6
UniRef90_UPI0003FE7B24
UniRef90_C7PG65
UniRef90_UPI0003625771
UniRef90_A0A023XMK4
UniRef90_UPI0002F4D770
UniRef90_G4CJE8
UniRef90_A4NHX9
UniRef90_E3SIY9
UniRef90_G2DJD9
UniRef90_UPI00036ED0F2
UniRef90_UPI000477F80A
UniRef90_K5Z3N7
UniRef90_R5P4K2
UniRef90_F3PYM5
UniRef90_L8ME75
UniRef90_A1AQ07
UniRef90_B6JEF1
UniRef90_D1YVC0
UniRef90_UPI0002ED5087
UniRef90_F6DTE8
UniRef90_B0P624
UniRef90_L1PC21
UniRef90_B8IDQ3
UniRef90_UPI00036DC6F9
UniRef90_H6U8K8
UniRef90_W7Y339
UniRef90_S4YEU6
UniRef90_UPI000255F12E
UniRef90_T7JVL6
UniRef90_A9IUU5
UniRef90_UPI000374DA00
UniRef90_V4NPI9
UniRef90_UPI00047DB934
UniRef90_H5SBU9
UniRef90_UPI00016XHY4
UniRef90_UPI00036FDE38
UniRef90_F4QY83
UniRef90_C1D831
UniRef90_I3ZHP5
UniRef90_L7UKW4
UniRef90_L0J722
UniRef90_M1ZAX2
UniRef90_UPI00035F8AB0
UniRef90_UPI0003617C73
UniRef90_UPI00035F829F

UniRef90_L1LS59 D W P S H Q V T P Y L V R E T I E A I R R W E T R V S V V R V D V Q L D A E 80
UniRef90_K9EV20 F A P N S D I L L S A A T Q A T V S R G G L Q R W L G D L I Q V D E V M V E N E
UniRef90_A0A011R0J5 F T Q N D D A T A A I L S K A L V S Q N L S R W L G R V T V E A L D V S A D D A
UniRef90_R7UZ90 F T S L D Y D S L S M L S E R M T D A I L D R L E P R I N L E R
UniRef90_I0IA37 F A P N S P E L A T A L L E F M V Q A A L Q E V L G E L T R V E A L N V V A E
UniRef90_C8N768 D A P M N P A N R L R L M A A A L V D A A L Q T R W E P R V T L E S A I T E V G M D G
UniRef90_F9S4C1 D R P Q W E M S K L V D I T R Q V K K Y E P R I E M S Q I F V V A S E M A
UniRef90_UPI000378238A F A N V N A D L L Q R I T T L V R E S I T R Y E P R V A L L N V E A L F E D S G
UniRef90_W1L336 D A K M T R R N V L A L Y S S A A L I Q K W E P R F R M R F G K V S R A D A
UniRef90_Q65WH1 D Y P E D V A V P N F V R E I T Q A I Q K W E N R I V I D E V L V D G E
UniRef90_J4KTU3 D R K V D D E F R A D L A C Y V I E A V A E K W E T R V K I D E V K L
UniRef90_UPI0003B78894 F Q G N D E V T A G L A K A N L S Q A L A H W L G R V K V L A L D V L N Q
UniRef90_UPI0003604915 F E P Q N T A T R Q R L K Q S N L A D A L A G E V D P R D L S I E D V G A D A N D F
UniRef90_B3PD87 H Q P N N E T T R T L I A S L V R K A I E Q W E T R V R V E E V A V V P D P Q S E
UniRef90_V6JL03 F A P S S P E L A S A L Q L S V Q A A L A Q R W L G D V I V V D A L D V V S E G
UniRef90_Z9JK38 D A P I T R A L Q M H L Y A A T A H A L A A H E P R L T L Q R V T A R V T A S G
UniRef90_D6TXD1 F A P N G D A L A A A T Q L T V Q G A L Q Q W L G D L I T Q V N A V K V Q S V
UniRef90_E8X5D8 F G P N S P E L A S A A Q F L V Q G A L Q Q N L G D I I N L N T A V E V T A V
UniRef90_UPI000371C1CF D Q P N N P A G R L R V I A A A A L G A L M R Q E G R A R I A R I S L S P G A Q
UniRef90_E3SIA7 F E P F D S F T S D A I K E E L I N T I T N F E P R V S L T L V D V R A N F E
UniRef90_F2BEV9 D A P E D E L V P N F V R E I T L A V Q T W E K R A K L E G I T F E G T A P
UniRef90_F2K1R6 D R D M D E S E W R L L A T R Y I Y E A V S K W E P R V R F K R L Q F N A D A
UniRef90_H6U8K0 D Q P E D T A V P H I V R E L S Y A L V Q W E P R I R V E R V N I T G E A P H
UniRef90_E4ZB45 D T P E D V F V P N I V R E T V L A I Q T W E K R A V V E D I I F D G A A P
UniRef90_UPI000362DC7F F A S N S P E L A A A L Q F T V Q A G L Q Q W L G D V L V L A L E V I S V
UniRef90_U1AZ14 D Y P V D R A R P H V V R E A V A A I L Y G E P R I Q L L K V L F S T I E A D G
UniRef90_V4JFZ4 F G L T N D A L I A T V Y Q S V H G A L Q R W L G D I I E V Q D V I V R Q D
UniRef90_Q1QI83 D R P M T D R V I A I Y A A A V I A I A R W E P R Y A V T G C R V L A A D A G E
UniRef90_E3SQ51 F E P M D E L I S D A L Q D E T A S T I N K F E P R V S L I N T I I V P N F E
UniRef90_B0UK54 G R R I T P T L L S A Y R M L V Q A S I S T W E P R L K V V R I S A T G N T V N
UniRef90_E8U112 F A P N S P E L A V T V Q A L V Q A S L Q Q W L G H L L R I D A V A A S S E
UniRef90_F3XR06 F D L L D N E L K V F V A K S L K N S I L Q H E K R I F L Q D V E V T I S E Q D
UniRef90_F9H462 D Q P E D V A L P N I V R E I T L A I Q R W E N R I E V E S Q L I G Q A P
UniRef90_UPI000379B1CD F E L N S P E L A T A L Q F T I Q S G L Q R W L G D L I E V R Q L E V T S R
UniRef90_UPI0003450001 F E P N S D A V A A A T R M L V Q G A L Q Q H L S H L I A V V Q R V D V E S D
UniRef90_UPI00035E3FF5 D R P M N A S L K L D V V H A V V D A I Q Q W E T E F V V D Q V R V S V G E A
UniRef90_X2HB68 D T P E D V F I P G V T R E V I L A I Q T W E K R V V V E Q V T F T G H A P E
UniRef90_UPI0002F4210F F G K N N Q E L A V A T Q F L V Q G A L E Q W L G D I D I E T V D A T A V K S E
UniRef90_D0IJ27 D K P Q W E V Q G L K V S I A E S V A K Y E P R V R L E N I S V Y Q T D L P
UniRef90_NOAM45 F E P N S T T L A A T T Q M L V Q A A L Q Q Y L A G L V A V Q S V D V L N D
UniRef90_J5CMN8 D L P V T R G W I S A A Q A E A R A I G R W E P R I K L A Q V K V L S I V L D G
UniRef90_V2YHE0 F Q N V D L V L R N R M S E A L A Q S I Q Q W E H V I G V N V G V T Q V P E N
UniRef90_C8PIJ6 D R R V N D E F R A D L S Y F V I E A V Q R W E K R V Q I D E V K L S L R D H
UniRef90_UPI0001D2F3F2 G N N F V P A T V L R F M S A V A I A I D L W E P R F R V R S F S L D A E S A G
UniRef90_M5JTA5 G E N L T T E T I V E R F A A V T S A I D Q W E P R F K I A R I T L S V N R S G
UniRef90_D0I948 F A A V S D A V E N T R S L V A T S L Q T W Q D D I D L S E R I D V R F D
UniRef90_A0A037UUA6 G R L L V P K T I L L F I A A L A T A L D L W E P R F K V T R I D T S G N T S D
UniRef90_UPI0003FE7B24 D K P M W F M S K L Q V V I A E S V A K Y E P R I T L D G V K V V S V E P T
UniRef90_C7PG65 F R A S N N E V K E Q V E L S V K S A I V R Y E Q R I T Q V R V S A M V S Q E E
UniRef90_UPI0003625771 D K P I N R D L T L E X Y A A V A G A L E K W
UniRef90_A0A023XMK4 F E P N S V T L A A T T Q M L A Q A A L H Q H L A H L I A V I T S V E V I N D
UniRef90_UPI0002F4D770 G E P N T P T R A N R A R L Y A L Q A L L E P R V K V R Q I T S V E T D R R R
UniRef90_G4CJE8 D T P E D V L V P N M V R E V M L A I K T W E P R A V L E H I G F S G H A P
UniRef90_A4NHX9 D Q M P E D L A L P N I V R E I T L A I Q R W E K R I N I D S V D V D G
UniRef90_E3SIY9 F E N M D D L A T S L I K D E I E R S I R N N E P R V R L R S V R T I P N F E
UniRef90_G2DJD9 D T P E D V F I P N A V R E V M L A I N T W E K R A V V E K I D F G G H A P
UniRef90_UPI00036ED0F2 F T P N S P E L A S A V E L S V Q A S L Q R W L G E L T E V E A L D V V S E
UniRef90_UPI000477F80A G E P N T E T T R N R A K L Y A L Q A L Q A E P R V R V Q S I E V R T Q R S R
UniRef90_K5Z3N7 F E S I V S H T R G Q F S E Y I T K A I T R H E K R L T G V N V R V I I D D A V
UniRef90_R5P4K2 F E P N D S I S W S S L K N E I T D S V Q R Y I N N V L N D I Q V A K S E D D
UniRef90_F3PYM5 F E K V A S S W D S H F T T C L T E S I T T Y E P R L S E V E V Q V T V S D I T
UniRef90_L8ME75 F E P A S E A L R G V V K A R I T N G L T R W L G R L T V E L V E V L W D D A
UniRef90_A1AQ07 F A P G G E V S A V L A R T I H Q S L T R W L S N I T V F E V S V T P V E
UniRef90_B6JEF1 G R K M V P S T V L K F W T A V C V A I D L W E P R Y R V T Q I T P F G D P D A
UniRef90_D1YVC0 G S P N N L K T W N L V K L Y V N Q C L S Q E V R V E V E S I D V M P H G S D
UniRef90_UPI0002ED5087 F A P A G D V V A E T R T L V A T A L Q T W M P D I E L T E V Q I N F I
UniRef90_F6DTE8 S E P M D E T W P T R E A T L A M R E C L S Y E P R I E L V Q A V T K L S H E E
UniRef90_B0P624 D R P V S V A E V M M R A D T R E A I E R W E P R A A V D I A F S G D A S E
UniRef90_L1PC21 F D L L D N E L K V F V A Q S L K N S I S H E K R I A V Q D I E V V I T E Q D
UniRef90_B8IDQ3 G R R I T P A L L R S Y R M L L A I A I A T W E P R L Q V V K I D G T G N S T D
UniRef90_UPI00036DC6F9 D Y P V D R A R P H V V R E A V E A I L Y G E P R V T V E R V L F D H L A P G
UniRef90_H6U8K8 D Q P E D T A V P N I V R E I S H A L S K W E P R I E V E R I E I T G T A P Q
UniRef90_W7Y339 F E R V Y S Q W K E R F S A F V Q E A I E A N E K R I S E V D V K V I R E V V
UniRef90_S4YEU6 G E P N V E R T R N L I K L Y V L E A L S R G E P R V R I L S C K V A P H D P P
UniRef90_UPI000255F12E F E P A S D A L H G V T K A R L T Q A L S R W D H R V T V E A L E V E F E
UniRef90_T7JVL6 D Q P Q N P A L R L Q V M S A R L Y V A L
UniRef90_A9IUU5 D A N A D P A T I L R L Y Q A I A C A L D N G E P G F S L Q R I D L T K A T R
UniRef90_UPI000374DA00 F A P N S A E V A M A I Q F L I Q G A L Q Q W L G D L V I Q I E Q V E V Q S E
UniRef90_V4NPI9 D Q P Q N D A L R L Q I M A A C Y S A
UniRef90_UPI00047DB934 F E N A S E N T G V M A K A M L T Q A I S R W L G R I A L E D L T V N I E
UniRef90_H5SBU9 D N P T P L N D V G R L K A L A D A I M E T Y E P R A K V K A I N I R Y P Q A G
UniRef90_A0A016XHY4 D A P D N D A T R L R L Y A A A D A L E M R E L P E L T V E R I T L T R P R A G
UniRef90_UPI00036FDE38 F S N Q N S R W K E E V R Q S I E A S I A E H E K R L T Q V R V R V D L N D Q E
UniRef90_F4QY83 D Q P L N G S L P L R I Y A A T A I A L Q R W E R V R L R R I Q L T A S E D G
UniRef90_C1D831 D A P A D V A L P S I V M E V R E A I R M F E P R A E F S G C A V R H P A
UniRef90_I3ZHP5 F A P G G D Q L S A T Q F M V A G S I Q Q W L G D L L Q V E S V D V S Q T
UniRef90_L7UKW4 F A P A S E Q M A A T A Q H L V Q G A L Q A W L G R I L V E G I D V Q A E
UniRef90_L0J722 F A P S S G E L A A T V R L L V Q G A L Q Q W M G H L I E V E G I D V A T E
UniRef90_M1ZAX2 F E P N N S A L R E L S R K R L T H S L L R G E V D P R S L N I E V Q P R N G A
UniRef90_UPI00035F8AB0 D S P A N A A G M L A I I A A T A D A I T R W E H R V V F N G A A V V P A F D G
UniRef90_UPI0003617C73 F D N L T N S L K S L I Q S L Y E S L S R H E K R L H S I E A V S V R M K Q E Q
UniRef90_UPI00035F829F F E P N A P A L W E A A R N R L Y G S L L K G D V D P Q T L R I E V G A P Q G Q

UniRef90_L1LS59
UniRef90_K9EV20 A S T L R V T V R Y L V R R T Q Q Q Q
UniRef90_A0A011R0J5 T L N V D L R Y R V L A S G E V R S V R F
UniRef90_R7UZ90
UniRef90_I0IA37 E A T L R V T V Q Y I V Q R T Q Q R Q
UniRef90_C8N768 K T V L N
UniRef90_F9S4C1 L G Q F S I R A T F T L L E T G E Q F
UniRef90_UPI000378238A F N V L R L Q V S Y K I Q G S D
UniRef90_W1L336 S G K L S L E I
UniRef90_Q65WH1 A P H F T F T V S W S L T D D
UniRef90_J4KTU3
UniRef90_UPI0003B78894 D A T L V V E L S Y Q V I D T G E Q R R L R F
UniRef90_UPI0003604915 P E R L M I R I G Y R L T A L N H S E S V E Y E L
UniRef90_B3PD87 L T Q V Q I L I R Y Q M R H S P Q P L Q L A L G M D L G G
UniRef90_V6JL03 E N V V R V H L A Y
UniRef90_Z9JK38 A V V L D L S A R Y L P A G
UniRef90_D6TXD1 D A T L S I F V S Y T V R K T
UniRef90_E8X5D8 D S T L T V T V E Y I L R T T Q E Q
UniRef90_UPI000371C1CF P H Q V V L T V T G R R T D
UniRef90_E3SIA7 R N T F D V T I E Y T I V G I P I V E S I E F V L Q
UniRef90_F2BEV9 H L Y V S L H W R V A D D
UniRef90_F2K1R6
UniRef90_H6U8K0 F E C L I E W H L K D
UniRef90_E4ZB45 H L T M T V Y W R I A D
UniRef90_UPI000362DC7F E S R L Q V D L Q Y R V R R T Q E V R V A T F
UniRef90_U1AZ14 G A H L
UniRef90_V4JFZ4 D S Q L S V Q V V Y V R L D S G E I L T D N F
UniRef90_Q1QI83 G G S L E F T G T Y F P R G
UniRef90_E3SQ51 T G K Y G V T I N Y R I V G L P L T E S V S F V L Q
UniRef90_B0UK54 A G Q L K F S V Y Y R P R G
UniRef90_E8U112 D A T L T V A V R Y T V L E T Q Q
UniRef90_F3XR06 L G K I L V S V R A I V L E T N R P F V Y D F F F
UniRef90_F9H462 H F E L L I Y W S L V D D
UniRef90_UPI000379B1CD D G T L T I D V A Y A L R R T G Q T A T A S F
UniRef90_UPI0003450001 E G A L R V Y V D Y R L A G E E A R R A M V
UniRef90_UPI00035E3FF5 N Q L L I D L Y G
UniRef90_X2HB68 L T I T V H W R I A E
UniRef90_UPI0002F4210F G D S L Q V I V K Y V V R R T N E P K T V Q F
UniRef90_D0IJ27 Q G I I G I K L S C Q I L A T G Q S E V I F D F
UniRef90_N0AM45 D G A L R V E L R Y T V L L D R S T H S A R F
UniRef90_J5CMN8 K P T F L I R G E Y
UniRef90_V2YHE0 N T Q V R V N I E Y V
UniRef90_C8PIJ6 K L S F K I L L T
UniRef90_UPI0001D2F3F2 Q G R L Q I H G D Y M P N A L E G D F T V V V P
UniRef90_M5JTA5 E F Q V R I E G D Y R P L A
UniRef90_D0I948 N G A L F I D V A Y T V L P T G E R Q Q A T F
UniRef90_A0A037UUA6 A T R L V I E G E Y R P R G
UniRef90_UPI0003FE7B24 K G L I R L G L S C T I N E T G V R
UniRef90_C7PG65 L N K I R V T I T G T L A R N K T P F H Y S S F F Y V S P
UniRef90_UPI0003625771
UniRef90_A0A023XMK4 D A V L R V D L R Y V V L A D R T S H I V A S F A V P G G A
UniRef90_UPI0002F4D770 P T W V E V R A S V V A I D G V T E L N L V F P V P L E G S T
UniRef90_G4CJE8 H L F M S L H W R V A D
UniRef90_A4NHX9
UniRef90_E3SIY9 N N Q F D V T I T Y D I I G A D V P
UniRef90_G2DJD9 H L T M T V F W R V T D D
UniRef90_UPI00036ED0F2 D Q V V R V Y L R Y V V R S T A S R R D D V F
UniRef90_UPI000477F80A P N R I D I S A S V L T I D S D T P L N L V F P V Q L D G G T
UniRef90_K5Z3N7 K K R V Q V Y V Y G T L V H T G E K R C F Y Y V I Y L G P
UniRef90_R5P4K2 A S S V V R I D Y S V K Q G N N
UniRef90_F3PYM5 Y T K A D V L I K A V L N S H E N C R F R F R L F L G P
UniRef90_L8ME75 A T L E V T L K Y R P A G S P D S R
UniRef90_A1AQ07 S S L E I R V G Y V V R A R G E R Q Y L
UniRef90_B6JEF1
UniRef90_D1YVC0 P H A V V V E V A I V P I G S E T P L G I S F P Y N L E
UniRef90_UPI0002ED5087 G S A L Q I D V G Y N L L P S G D P Q S A S F
UniRef90_F6DTE8 R K V Q F V I T Y I V L G Q P K P E N V V
UniRef90_B0P624 P G K L I P T V E V E I
UniRef90_L1PC21 L G K V L V S V K A V I L E T N R P Y
UniRef90_B8IDQ3 A I A L
UniRef90_UPI00036DC6F9 H V R L L V Q
UniRef90_H6U8K8 F E C L I
UniRef90_W7Y339 Q E R V D I Y V Y G V L T E S N Q R C G F N Y S L Y L G P
UniRef90_S4YEU6 R D Q V R I E L V V R M I D E P N P R N L V V P F S L E V S
UniRef90_UPI000255F12E G E R I D V A V T F R P A G S P D S R V L R F
UniRef90_T7JVL6
UniRef90_A9IUU5 E G T F H F V L R G V
UniRef90_UPI000374DA00 D A I L T V Q V K Y V V R A T Q Q R
UniRef90_V4NPI9
UniRef90_UPI00047DB934 N E K I E V E L K Y R I A G T E D T R I M R F
UniRef90_H5SBU9 H V I E A H I T L S
UniRef90_A0A016XHY4 Q A V L E L Q
UniRef90_UPI00036FDE38 K R R L T V W I D G Q L V R T N E Q F S F Q R S L F L A P
UniRef90_F4QY83 R A V L Q L D L Q R L D L P R R A D V T L S Y P L H
UniRef90_C1D831 P G H A V L T V T W R P A G
UniRef90_I3ZHP5 D S T L S V S V S Y T L R K T Q Q Q K T S T F
UniRef90_L7UKW4 E S V L T V T L R Y R T R T A E T R S V V V
UniRef90_L0J722 D T T I T V T V A Y L I R G T G D R
UniRef90_M1ZAX2 G S E L V I V I S Y T L T A
UniRef90_UPI00035F8AB0 Q T A L S I D L T D R E T G E P V R L T L P L
UniRef90_UPI0003617C73 I S K L D I R V K A Q V I K T N E A F S Y V E Y F I G P
UniRef90_UPI00035F829F P A Q L R V E L T Y I V A A L Q T Q E S H A F T L

UniRef90_U7GJC0
UniRef90_E7A3P7
UniRef90_M1I7S7
UniRef90_UPI00037B835F
UniRef90_UPI00037D784C
UniRef90_Q82QV2
UniRef90_U3QM2
UniRef90_F4C6C3
UniRef90_I2GM30
UniRef90_UPI0002E6B181
UniRef90_F5B3M1
UniRef90_A0A031JP30
UniRef90_Q1TE4
UniRef90_UPI0003B382DF
UniRef90_C3X496
UniRef90_UPI00034A94DA
UniRef90_D0LVW3
UniRef90_F5SA63
UniRef90_A4J3V0
UniRef90_K1RIV8
UniRef90_J9PVB9
UniRef90_E8RGK5
UniRef90_A6WZ12
UniRef90_UPI000367452B
UniRef90_Q39WJ7
UniRef90_R9L6L6
UniRef90_UPI00037BF98E
UniRef90_J1FA57
UniRef90_X5KSN9
UniRef90_Q64SE7
UniRef90_B6WRR3
UniRef90_A0A058ZR97
UniRef90_D0D5U4
UniRef90_M5JSM3
UniRef90_M5JR27
UniRef90_E3SST4
UniRef90_F4BFR9
UniRef90_E1XT86
UniRef90_U9W059
UniRef90_A0A011PMY0
UniRef90_C2BG15
UniRef90_UPI0004000F79
UniRef90_K1JPQ2
UniRef90_R6LX26
UniRef90_UPI0004662F9E
UniRef90_E3SJJ2
UniRef90_F8EIH6
UniRef90_S5MCX9
UniRef90_H1ZCY3
UniRef90_K7YIW9
UniRef90_B4WU83
UniRef90_D5EF97
UniRef90_UPI0002FEABD
UniRef90_C7PN94
UniRef90_UPI00036966F4
UniRef90_I3UL93
UniRef90_A9FVB0
UniRef90_C9DG54
UniRef90_UPI00031F4EEE
UniRef90_UPI0003C7BCCC
UniRef90_M4Z3N7
UniRef90_UPI00035CB4CE
UniRef90_UPI0003F82845
UniRef90_UPI00035C86D3
UniRef90_S5WBF0
UniRef90_UPI0003F63716
UniRef90_G1VRG0
UniRef90_G8XBH1
UniRef90_UPI00046EAFDF
UniRef90_F2J638
UniRef90_W7QCC8
UniRef90_UPI0003A5B727
UniRef90_I0GR17
UniRef90_B9QT09
UniRef90_UPI00036CBF5B
UniRef90_A0A011PP45
UniRef90_E2CGH2
UniRef90_A0A010I3F8
UniRef90_UPI00037CBF73
UniRef90_UPI00036ED863
UniRef90_UPI00035C775F
UniRef90_UPI0004672A58
UniRef90_F8C9K4
UniRef90_B6WUB2
UniRef90_UPI0003713C5D
UniRef90_X0WMB6
UniRef90_B9JWN1
UniRef90_A5FET9
UniRef90_R5PAT8
UniRef90_F4XS39
UniRef90_T1CJ99
UniRef90_E2CHJ3

UniRef90_U7GJC0
UniRef90_E7A3P7
UniRef90_M1I7S7
UniRef90_UPI00037B835F
UniRef90_UPI00037D784C
UniRef90_Q82QV2
UniRef90_U3QM2
UniRef90_F4C6C3
UniRef90_I2GM30
UniRef90_UPI0002E6B181
UniRef90_F5B3M1
UniRef90_A0A031JP30
UniRef90_Q1TE4
UniRef90_UPI0003B382DF
UniRef90_C3X496
UniRef90_UPI00034A94DA
UniRef90_D0LVW3
UniRef90_F5SA63
UniRef90_A4J3V0
UniRef90_K1RIV8
UniRef90_J9PVB9
UniRef90_E8RGK5
UniRef90_A6WZ12
UniRef90_UPI000367452B
UniRef90_Q39WJ7
UniRef90_R9L6L6
UniRef90_UPI00037BF98E
UniRef90_J1FA57
UniRef90_X5KSN9
UniRef90_Q64SE7
UniRef90_B6WRR3
UniRef90_A0A058ZR97
UniRef90_D0D5U4
UniRef90_M5JSM3
UniRef90_M5JR27
UniRef90_E3SST4
UniRef90_F4BFR9
UniRef90_E1XT86
UniRef90_U9W059
UniRef90_A0A011PMY0
UniRef90_C2BG15
UniRef90_UPI0004000F79
UniRef90_K1JPQ2
UniRef90_R6LX26
UniRef90_UPI0004662F9E
UniRef90_E3SJ22
UniRef90_F8EIH6
UniRef90_S5MCX9
UniRef90_H1ZCY3
UniRef90_K7YIW9
UniRef90_B4WU83
UniRef90_D5EF97
UniRef90_UPI0002FEABAD
UniRef90_C7PN94
UniRef90_UPI00036966F4
UniRef90_I3UL93
UniRef90_A9FVB0
UniRef90_C9DG54
UniRef90_UPI00031F4EEE
UniRef90_UPI0003C7BCCC
UniRef90_M4Z3N7
UniRef90_UPI00035CB4CE
UniRef90_UPI0003F82845
UniRef90_UPI00035C86D3
UniRef90_S5WBF0
UniRef90_UPI0003F63716
UniRef90_G1VRG0
UniRef90_G8XBH1
UniRef90_UPI00046EAFDF
UniRef90_F2J638
UniRef90_W7QCC8
UniRef90_UPI0003A5B727
UniRef90_I0GR17
UniRef90_B9QT09
UniRef90_UPI00036CBF5B
UniRef90_A0A011PP45
UniRef90_E2CGH2
UniRef90_A0A010I3F8
UniRef90_UPI00037CBF73
UniRef90_UPI00036ED863
UniRef90_UPI00035C775F
UniRef90_UPI0004672A58
UniRef90_F8C9K4
UniRef90_B6WUB2
UniRef90_UPI0003713C5D
UniRef90_X0WMB6
UniRef90_B9JWN1
UniRef90_A5FET9
UniRef90_R5PAT8
UniRef90_F4XS39
UniRef90_T1CJ99
UniRef90_E2CHJ3

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

	90	100	110
UniRef90_U7GJC0	V R R L V I E A D Y R P R G H T I E R N L S F S V R F A G G S		
UniRef90_E7A3P7	H F T F T I F W S L K E D		
UniRef90_M1I7S7	N A Y N V T I S F Y V V N I P G E L V		
UniRef90_UPI00037B835F	P H Q A V L T V T G R R T D		
UniRef90_UPI00037D784C	E A V L T V T V S Y V L L D T G Q V Q T F V Y		
UniRef90_Q82QV2	E A E L R I T V G Y V L L A T G E P G T A V V		
UniRef90_U3QMC2	P G T L E V T V K Y R P A G S P D S R V I R F		
UniRef90_F4C6C3	R A R V S I Y V K G L T V E T G E A Y Q F S T D L F L G P		
UniRef90_I2GM30	S T R L L V T V T A E I R K S N H R		
UniRef90_UPI0002E6B181	Q G A M F I D V S Y L V L P S G D P Q Q A Q F		
UniRef90_F5B3M1	R N S L S V T I K Y Q I V G Y D T I F		
UniRef90_A0A031JP30	E A T L R I R V A Y V L R A S G E		
UniRef90_Q1ITE4	N E K L T R T V S Y S M L N T D V T Q V Q T F T Y		
UniRef90_UPI0003B382DF	R K R L E V T V R A T L Q R T N E P F S F R A S L F V A P		
UniRef90_C3X496	G K P D F L K V S W V K S T G Q Y D E L V V P F P L N		
UniRef90_UPI00034A94DA	T L Q I R V A Y T L A A I G H R D S Q T F T L Q		
UniRef90_D0LVW3	S M H L I V T V A V L P V G H A Q P L S L R F P V Y L		
UniRef90_F5SA63	H I T M I V E W R I A		
UniRef90_A4J3V0	N G T F K P V V R V R V A D D		
UniRef90_K1RIV8	G S K V N T D V A Y V I K G S N T S Q Y L		
UniRef90_J9PVB9	D S T M Y I E V E A K I I K F Q R T E T F K I P V V L		
UniRef90_E8RGK5	K L T I T L S Y T L A A I G H R D S Q V F		
UniRef90_A6WZ12	E L R L V I E G Q Y R P R G		
UniRef90_UPI000367452B	D S A L L I T V Q Y I E N R T Q T R		
UniRef90_Q39WJ7	G E K L L I T V S Y A L A A I G		
UniRef90_R9L6L6	P G K L I P T V E V E I N D E Q E		
UniRef90_UPI00037BF98E	A T R L L M V V T A E I R K S N Q P F E F R H E L L I A P		
UniRef90_J1FA57	D S H I Y L R L V F K V K G Y G Q		
UniRef90_X5KSN9	E S T V L V D I L Y T V K G T G E E S A L T I P L Q V S P		
UniRef90_Q64SE7	E E K A Q I T V T G I M D R T N E K F S F N T S L Y I S P		
UniRef90_B6WRR3	D G Q L I P R V T V E I R E		
UniRef90_A0A058ZR97	E G E L V V E L V Y T V L S S G A R L S		
UniRef90_D0D5U4	E S T L R V T V T G A L R G D D D R R T E I F		
UniRef90_M5JSM3	Q G R L R L I L E E Q Y R P R G H L G D F T V		
UniRef90_M5JR27	H A G F Q L V D Y R P R G		
UniRef90_E3SST4	R N E L N C R V T Y L L L G		
UniRef90_F4BFR9	T G K L A L S I D F I Y R P N G E I Y S L		
UniRef90_E1XT86	H S L G V T I T F Y V V N N P E P I T D T I		
UniRef90_U9W059	A S E L T I V V E Y Q A S P Q D T I R Q L		
UniRef90_A0A011PMY0	L V I L I S Y Q L A A I N R Q E S Q A F		
UniRef90_C2BG15	A G K L I P V V G V K I K D		
UniRef90_UPI0004000F79	E N R L N I R V K G T V I Q S G E N F D E L F L M F F G P		
UniRef90_K1JPQ2	D G I L K P R V V V Q I		
UniRef90_R6LX26	Q G V L S P I V E V E I V D		
UniRef90_UPI0004662F9E	D D K A K I T I N A V M V E N D I P F N F S T L L Y I S P		
UniRef90_E3SJZ2	R H Y I T V Q V F Y E I V G Q P R V E Q L D F		
UniRef90_F8EIH6	E S V I T I T I A G I L V Q T Q E R L		
UniRef90_S5MCCX9	N N A L A I S V F S V I N R Q E L V S M		
UniRef90_H1ZCY3	Y G T A K I G I N A V L T E I G E R F T F S T H I Y L S P		
UniRef90_K7YIW9	H T L Q I T I V F Y V T N I P D P V T E T I Y L		
UniRef90_B4WU83	A S L R L I A V N Y R I R G T H H R R S L V Y P F Y L T P S A		
UniRef90_D5EF97	D G I L I P K V K V R I R D T		
UniRef90_UPI0002FEABAD			
UniRef90_C7PN94	K K K V A L T V T G I V Q S T G E H Y S F N T A L F L S P		
UniRef90_UPI00036966F4			
UniRef90_I3UL93			
UniRef90_A9FVB0			
UniRef90_C9DG54	D H A I I I S V K F F M R G S		
UniRef90_UPI00031F4EEE			
UniRef90_UPI0003C7BCCC	K G I V R L G L Q C V I N V S G L R		
UniRef90_M4Z3N7	N A T F D I D G I Y Y P R G		
UniRef90_UPI00035CB4CE	L T R L E V T V V Y T I L A T G A Q		
UniRef90_UPI0003F82845	L S R L D I V V Y G I I K E T N Q P Y		
UniRef90_UPI00035C86D3	G G		
UniRef90_S5WBF0	Q V Y A V E I V Y T A P D S D R P F T F Q F G L N K Q A A		
UniRef90_UPI0003F63716	S S R I D I Y I T G K I K Q T N E S F S Y V E S F Y I A P		
UniRef90_G1VRG0	D A V L L I T I S Y L C T E H S K R D A L Q Y P L A L E S G		
UniRef90_G8XBH1	I G C V S F S V K G Q V F E T N R P F L F Q S S F F V G P		
UniRef90_UPI00046EAFDF	N T I I D V L L V V T V A G S Q E R V S L S		
UniRef90_F2J638	A G R F V F I L D G		
UniRef90_W7QCC8	D N K S Q I T V K G K L V E N D M D F N F S T L I Y I S P		
UniRef90_UPI0003A5B727	P E R M L V T I S Y V L A A I Q K Q E T H T F P		
UniRef90_I0GRI7	E G E L L P T V Q V V I		
UniRef90_B9QT09	T A S L L I E V D Y R P R G		
UniRef90_UPI00036CBF5B	K M T L V L E G M Y		
UniRef90_A0A011PP45	R S V L R L A M R V L L I D E A T P L N L V F D F S L E G A		
UniRef90_E2CGH2			
UniRef90_A0A010I3F8	A G G M Q L D L E A V H T L T G Q S L N L N I P L L M G S S		
UniRef90_UPI00037CBF73	R L E V S V V Y R R R T T G E R M E D I F		
UniRef90_UPI00036ED863	P T V I E I R A A V V T I D D P S P V N L V F G V D L A G A A		
UniRef90_UPI00035C775F	E G A L G I R H R G R		
UniRef90_UPI0004672A58	P G M L I P R V E V N I L N D E D		
UniRef90_F8C9K4	P T A L R F D I T A Q L A T R D R R G M V		
UniRef90_B6WUB2	E N S I T V A V Q W R F I G E D Q P L N L V		
UniRef90_UPI0003713C5D	N E T L K I I I G Y Q M A A L Q H S E T L E F L L N G G T		
UniRef90_X0WMB6	K G S I T I Q V D Y Q		
UniRef90_B9JWN1	N S T W T I R G T Y R P R A		
UniRef90_A5FT9	K K K V D I I I E A T I K S T N R D F D F R G Y F F V G P		
UniRef90_R5PAT8	I G L V V K M K Y I V K S N N S S Q E Y S V S I N I		
UniRef90_F4XS39	R Y T L V A T V V L K A V G Q E T P L T L S F S L		
UniRef90_T1CJ99	R K R V D I Y T T A T L V S N G D P C R F R H R L Y L G P		
UniRef90_E2CHJ3	E L L L F L D L		

UniRef90_S0FBV5
UniRef90_UPI00046A1DCA
UniRef90_A8LST8
UniRef90_F3Y62
UniRef90_I0K736
UniRef90_B8DL19
UniRef90_UPI0003A0E183
UniRef90_B1T4E9
UniRef90_W4AKU3
UniRef90_B7RNM3
UniRef90_G8PLA9
UniRef90_UPI000370A47B
UniRef90_UPI00035C83BF
UniRef90_R9U2U6
UniRef90_K4F7G4
UniRef90_M8T6W8
UniRef90_H6X3M9
UniRef90_UPI000368B60E
UniRef90_F0T178
UniRef90_R9LVK5
UniRef90_UPI000469C759
UniRef90_R4JGS8
UniRef90_UPI00045EC2AD
UniRef90_E0NX16
UniRef90_D2QJP9
UniRef90_A3VG27
UniRef90_G2Z539
UniRef90_X1F7U9
UniRef90_K9ETZ3
UniRef90_UPI0003679F30
UniRef90_G8TR37
UniRef90_H8MGK9
UniRef90_UPI00046F4048
UniRef90_UPI0003701CA9
UniRef90_A9B7P8
UniRef90_U5PXP6
UniRef90_A0A017T6Y6
UniRef90_UPI0004692C50
UniRef90_UPI00036791F2
UniRef90_S4MCE9
UniRef90_I8TNU5
UniRef90_UPI00046A6070
UniRef90_A8I7S4
UniRef90_S4XZU3
UniRef90_L0NE77
UniRef90_Q0A7U4
UniRef90_G9PUJ4
UniRef90_E1KTY7
UniRef90_UPI0004714355
UniRef90_UPI00036C4681
UniRef90_W4TAC1
UniRef90_W4D120
UniRef90_UPI00047DE931
UniRef90_V6J5M2
UniRef90_W6VZY7
UniRef90_E5Y5W9
UniRef90_H8MEZ8
UniRef90_UPI0002EDCB3D
UniRef90_UPI00036238AF
UniRef90_UPI000478CE1C
UniRef90_Q39QE9
UniRef90_E2CFL3
UniRef90_A0A024B013
UniRef90_C7RL04
UniRef90_B0T4J0
UniRef90_D9J0Q1
UniRef90_I7KT84
UniRef90_M4U5U4
UniRef90_B7LTS4
UniRef90_E3SL17
UniRef90_UPI00029A8EFE
UniRef90_R7MUL5
UniRef90_J5HEV5
UniRef90_C5AHX5
UniRef90_UPI000469268F
UniRef90_E1QHA0
UniRef90_R9M0J3
UniRef90_A8EVD7
UniRef90_E2CI67
UniRef90_F0IJ9
UniRef90_D1Y2B9
UniRef90_I7KRB0
UniRef90_H6RPG9
UniRef90_UPI00036713E8
UniRef90_E3FGG8
UniRef90_F8WQ00
UniRef90_S4Y9D3
UniRef90_UPI00047A387F
UniRef90_C9Q150
UniRef90_A0A024LW69
UniRef90_S9NX60
UniRef90_C5BSB5

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

UniRef90_S0FBV5 F S Q L V S D W E N R V Q E S L L Q A I V T T Y E E R L K D I S V S V V L S E I D 50 60 70 80
UniRef90_UPI00046A1DCA F E R L V S E W K N R F I T Y L T S E A I V L S A R Y E E K R L T N V D V V Q V S D V V R E S
UniRef90_A8LST8 F E P N A P E A T K R K R L T A S M V T D A V L Q R Y E E V P K T L E J G L D D T A A S G
UniRef90_F3Y62 D A P T P V E A T K A R C A A S M V T D A V L Q R Y E E V P K T L E J G L D D T A A S G
UniRef90_I0K736 F S T T N D S W T D R T E K S L R D A V I Y R Y E P R V L E R V K V V E V E G T P D A
UniRef90_B8DL19 F E E N T V G A R I A F E A E V T L R V I E E D P P R V Q V G S V R T T V T A W D
UniRef90_UPI0003A0E183 L E E D S T A A T R A A F E A E V V M R I E E P P R T A V V G S V R T T V T A W D
UniRef90_B1T4E9 F A N L D D R L V A D V I A R I H N S I V T F E P P R A Q D L A V T A D I D A E Y
UniRef90_W4AKU3 D E P L P I L K A R M S G V I T M A I A E Q W E P P R A E I L E I L F H L N D Q D
UniRef90_B7RNM3 D A P Y S S A T K L A I I A A T V E A L A M T W E P P R I D V D T V T L R T F E
UniRef90_G8PLA9 D R N A A E A I P G I S K A T W E G I S R W E P P R V L L E R V V V V E Q
UniRef90_UPI000370A47B H L S V H D A M I S I R A H I E D T L R R Y E P P R L H Q P S V S M E A N P A S
UniRef90_UPI00035C83BF G S G N T E T N R N L L K L F I L E A L K R R E P P R I E V T E L S I I L P S P G T
UniRef90_R9U2U6 D R H P Y I G I P Y L T R E L W D A I T L W E P P R V T V E R V V V V G M V Q
UniRef90_K4F7G4 F E L D R P G N A Q L L E A D A R A N I V L A Q W D P P R I L Q L L S I Q V V Q S V E Y G
UniRef90_M8T6W8 D E P M N N T R L Q C M S A A V I A L T R W E P P R I A L D A I V T V L W K A G G
UniRef90_H6X3M9 F S L D S Y N T L N L T E A D C R R I V Y E E P P R V E L L N I A A E K I D Y G
UniRef90_UPI000368B60E G E P N T Q T P R N R A K L F A L Q A L Q A E E T P R I A V A Q S V T V T T G R G K
UniRef90_F0T178 S E P M D D F P V K A E L A V R E C L A T E T R I N V A S V A V K M L N E K
UniRef90_R9LVK5 D Y P M D L A Q N L F A V A R E A V E R W E P P R V I V T E V V T F E A D A N G E
UniRef90_UPI000469C759 G M P V N R E T A H L V R E A V D S I R Q W E P D A R S V V Q V V Q V T I
UniRef90_R4JGS8 D W K N N E T A A L L I N L E I E R T L R T D A R V V S V N H N G H V I S
UniRef90_UPI00045EC2AD G E N L T A E N V L R A Y A E M V E A I H S Q E P A A R V A K I S P A K L D G R
UniRef90_E0NX16 D L P L P A A Q A R Y T S M T V A A A H R Y E P P R A Q V V S V S N Y R G D G K
UniRef90_D2QJP9 Y D R T N T Y W V T Q L C E S L E A A I Q R Y H E R R L T K P Q V V S V Q F Q P V E
UniRef90_A3VG27 F S G G G I A T E A L A A A L E A G L Q Q Q E L G H L I V T E R L S A T F D G D
UniRef90_G2Z539 F H I L N R S T W E E T V S K N S L F D S Q S K N E S H R L N L T S V I Q L D E V E
UniRef90_X1F7U9 F E L N D S N T Y S N I S S R I R E F E Q T L S Q R Y L S Y I Q I D D I K F T L P E N N
UniRef90_K9ETZ3 G E P N N R R T Q L L T E M Y I R D C L A Q E S R I E V V N V V F A P P S R G
UniRef90_UPI0003679F30 F E S T D E N T V S I A K A K A L T L Q A I Q T W L G R V N L Q N V D V S S S
UniRef90_G8TR37 F D N L T A R T R Q M K E S L L Q A I R K H E K R L D A I K V D D V L V K Q E E
UniRef90_H8MGK9 F G A S P E S A A T A E Y I I R L N V Q E F M R D Q V R L D A V K V S A E
UniRef90_UPI00046F4048 D A T I N T Q Q A K I T S R L I A A I R K Y E P P R A R P V E S F Q G D G L
UniRef90_UPI0003701CA9 D A T I G V D L E L N I Q H A I R Q C I E R Y E P P R V Q R I E V E S F S N E G D
UniRef90_A9B7P8 G E P Q S R R T H L R A E F Y V R E S L G F E R R I E V V S V T I A P R S D Q
UniRef90_U5PXP6 G M K N T E E N A L L T L E I E R T L R T D S R V K
UniRef90_A0A017T6Y6 G Y R T Q E E M V V T L M T E I E E N I R L Y E P P R V E L V D M D E G Y D D D
UniRef90_UPI0004692C50 D A S S S V D L G L R M R N G I K A C L S R F E P P R L T D I D V S V L F D E G N
UniRef90_UPI00036791F2 G R H L N A R L F S A L M L L M A A I D L W E P P R F R V R R I R V D E L R Q G
UniRef90_S4MCE9 P P N N S L M A A V E F T I G A A L T R W L G D L V V A G V E T V R A D G E A
UniRef90_I8TNU5 D S P L P A K A K L T G E I I A A V T G K Y E P P R A E V V E V I Y D G D A L
UniRef90_UPI00046A6070 F E L I V S E W E K F R K S L L K S L T D Y E F F I Y R N T A V E V R T E V E
UniRef90_A8I7S4 A E D L S P A T A L G I Y A D L V V A A H T F E P E Y R L T E L Q V R N A T R A
UniRef90_S4XZU3 F E P N S P L L A N R I R T A V Y T S L G K S V R V L N V S V G R D E E Q
UniRef90_L0NE77 D R P Q N E E T I D I Y V S V A E A L A L E Y G E G F V L L R T S L D A G T
UniRef90_Q0A7U4 F E P N D A L T R R R L Y A S L A D A L A L E Y G E G E V D P K T I E V H V T G E
UniRef90_G9PUJ4 D R P E P Y A M A R Y R A D L M E A I D R Y E P P R V E V L S I T F K K D K A A
UniRef90_E1KTY7 F N Q L V R D W E E T V R N S L T A Y E R R I K D V R V D V H L S E I E
UniRef90_UPI0004714355 G L A Q A P Y R Q L I E L D I H E A L L Y E D R I D G I T V D V I Q S T A Y
UniRef90_UPI00036C4681 S E E M D E D W A V R V V A I R E C L E Q E P P R V Q R V D V S Y E L Y P E T
UniRef90_W4TAC1 F D N T S A V W E N V F I K S L R R Q L Q E Y E P P R I V H P Q I D A H I Q F V E
UniRef90_W4D120 G K G V S E D E M R D E L M S G I L Q E P P R V Q V E S I D I E I D R A N
UniRef90_UPI00047DE931 F D P N S D V L A A A Q Q V I Q A S L Q Q W L S D L I R V R S V I V T A E
UniRef90_V6J5M2 G K Q A D Q D G A H D D I V E A I A Q E E R L A T M D N L S F A D D R S T
UniRef90_W6VZY7 D R P Q N Q E T V I D I Y M A V A E S L E R P R V
UniRef90_E5Y5W9 D L P L P E S R P L L V A E I G R G L E R C V P R I K V K S V T F R T D T A A
UniRef90_H8MEZ8 F E P N W D V T R R R M Q A A L S A D A L E R G E V D P G S L E E V T G E
UniRef90_UPI0002EDCB3D F E N A G E I T A R A A K A S L S A A L S R W L G R V T P E E L I V E S S N A
UniRef90_UPI00036238AF D A T A T A S S L S Q T I S D I R S S L E R Y E P P R I R V T R I E Y T P D M Y D
UniRef90_UPI000478CE1C F H I K K R D W E D L V R K S L Y E S I S E F E K R L L S E V T I S L D E I D D
UniRef90_Q39EQ9 F L Q T Y P D S V R E I R E V A I S Q T Y E P R L D G V R V A F I P Q E D D
UniRef90_E2CFL3 S R P L T E D T I M D V F G A I V D A V E W E P E A E L K D F G L N D A D E
UniRef90_A0A024B013 G R K S T E E N I T L L A E I E R T I R T D G R I K S V I E R V N Y Y L D
UniRef90_C7RL04 G E P D L P R T R L K A Q V F A R E A V E A D A R V R R V E A I E V V S I A G E
UniRef90_B0T4J0 F E G M D G Q I V A A A E T L I R G A L M Q W L G D A T I Q I Q T L S V T T Q
UniRef90_D9J0Q1 G K T N T V A V A G Y K L T R T E V E R V L G D P R I Q K V E V A K T M L E T D
UniRef90_I7KT84 L D K T T P V A Q T K L T A Q I N I I E N Y E P P R C E V V S I T F D K N E S
UniRef90_M4U5U4 D A T L S N D L A L Q I K L A I F E C I E R Y E P P R I K E M D I H I L A D D D S
UniRef90_B7LTS4 D A A T T S G F N A A I E R A V K E C I E K H E P R I T H A D V Y M E K S D T G D
UniRef90_E3SL17 F E I P D P D I A Y N L E D D I Y V L L E N F E P R I N N V K C R I S Y P L D
UniRef90_UPI00029A8EFE F E R V A S R W E S F T S F I Y K A T V E N E K R I V N V A V S I K L R E V V
UniRef90_R7MUL5 D L P V T L A R A K L T N E I F A Q I K R Y E P P R A V K V D S I T F T G D I S
UniRef90_J5HEV5 D Q P V N R H A I L T T E L I E N V E P P R A E V V S I D F T G D G V
UniRef90_C5AHX5 N Y K A L P A S A H L L K E Q M E A T L L R Y E P P R I R S I D V E I L D N D D
UniRef90_UPI000469268F F N Q F N Q D W E N V K K S L E R T I S E Y E H R L K D L K V H V L A E V E
UniRef90_E1QHA0 D Q P L P R A R A L L A A E I V R Q V I A R Y E P P R A R V A R V D W A E S E
UniRef90_R9M0J3 D K P I Q S A Q P I L I S E V L D A I E E Y E P P R A E V E N V D F M L G D R
UniRef90_A8EVD7 D K E M N Q K W L L F Q K Y I Y E C F E N W E P R S L P E G L D V T N F D E V
UniRef90_E2CI67 A E D I T P D L A L R L Y Q D A L I G A A H K H E P E Y R I K T M Q L V K V A R
UniRef90_F0IJ9 F D M L D A N L K L L V K E S L K E A I Q R Y E K R L T N Q N L S T L E K T R T
UniRef90_D1Y2B9 D L P A P S A Q A K I A A D V A K I A R Y E P P R A R V R V A A W Q G D A D G
UniRef90_I7KR80 F E N M T P L T A D T I Q R G V I A S V A R S Y E P P R I D K L N V D V T P V Y D
UniRef90_H6RPG9 F D G L G D E L S A T T E F L V R S A L A Q Q W L G D L I Q V E Q V E V T S H
UniRef90_UPI00036713E8 F E N K T A L T G G I L A G Q V R D T L A V F E P G V A V E N I D V T P S A D D
UniRef90_E3FGG8 H Q S N N A V L A E L A R G V Y R D A L A R W L P G V Q L V Q V R V E Q D A A
UniRef90_F8WQ00 G D R E D Y Q T Q K I K T E V E R T L R S D P P R V A D I V M N E V S S Y
UniRef90_S4Y9D3 F D G L N E L T V A A L E F R I S Q A I R R D L G D I L V D A V D V E A E P E D
UniRef90_UPI00047A387F D Q P A N R V G A L L T T D I S Q A I R E R Y E P P R V T V M S V S F S G N G A D
UniRef90_C9Q150 Y N Q F N K D W E E D V R K S L A A T I A K Y E H R L K D T S V D V Y L T A A E
UniRef90_A0A024LW69 G Q R K T E A L R G L C R A Y I L E T V R E E P P R V Q P L A V E F D P A R E H
UniRef90_S9NX60 V H S Y P S A L R G K I Q T S I R T A I Q E Y P P R L K N V V V H V P D V H E
UniRef90_C5BSB5 G R T N T A S T R D I L A R L Y I L E S L Q Q E A R L D I E S V A I T P S P G R

UniRef90_S0FBV5 DEKAKQIIVK GKIVST DQPFHFNTLVYIS P 110
UniRef90_UPI00046A1DCA TNRVDIIFIHASLISSTNER CFHYELFMGP
UniRef90_A8LST8 EAHLLVTVVGF LAAINHTERNY
UniRef90_F3YY62 EGRLLKPVLRIRVKE
UniRef90_I0K736 HKLVIRVRAEIAASNR R
UniRef90_B8DLI9 ERTVQAEEVSWTFI GEDDQPSNLV
UniRef90_UPI0003A0E183 ERSTIALASWRFI DEDTPI NLV
UniRef90_B1T4E9 IGYLRVTISYRHVDTGATQRL
UniRef90_W4AKU3 NGRLLPLIKYRLAEGGD
UniRef90_B7RNM3 PGKLIIDLSGRYLPDG
UniRef90_G8PLA9
UniRef90_UPI000370A47B PLKMRFHISGNVEVDGSRFP IAFDADLSGGG
UniRef90_UPI00035C83BF RSTVDVTLTVLPVG
UniRef90_R9U2U6
UniRef90_K4F7G4 YQVDMRLRYVQLETVEDLSLVF
UniRef90_M8T6W8 RAGVTCR
UniRef90_H6X3M9 YVVELQLKYVILNSVETLRMVF
UniRef90_UPI000368B60E AGRVDLEIKAVVVTIGE PLNLVLPVNLGGS
UniRef90_F0T178 RTAQIFIKYSINEDAE
UniRef90_R9LVK5 HLKAKVVI
UniRef90_UPI000469C759 GSQVTLRVRVQWRVAAGVTLQLTEV
UniRef90_R4JGS8 GNTFKTSFTVSSITLLEEFVFI
UniRef90_UPI00045EC2AD AGVIGFDLYLR
UniRef90_E0NX16 EGVLTPIVKVRLRD
UniRef90_D2QJP9 QQLATVTISATLVETE EPFRFTTQLHLG
UniRef90_A3VG27 AARLDVDL AYRLRATGASDTLTV
UniRef90_G2Z539 DNE LNIVKGI IKNSLIPNFHTKLNIS P
UniRef90_X1F7U9 P
UniRef90_K9ETZ3 TSR LGVTVIVRPI DDE PLTLDLALGLGG
UniRef90_UPI0003679F30 GSAISIVITYQVAGATSTVQAVF
UniRef90_G8TR37 VNRLDINI SARLTATSEDLITFRDSFFVSP
UniRef90_H8MGK9 DATLYVDI LYTLATGE
UniRef90_UPI00046F4048 SGVLKPTVRIAIKED
UniRef90_UPI0003701CA9 PLQLRFQVHVITIALGRDNAQTITD LLLN
UniRef90_A9B7P8 RSTLELQVVVRPIDQSE PLVVNI AVALEG
UniRef90_U5PXP6
UniRef90_A0A017T6Y6 GGRAHLEVRRLRSTEE RLALVVDL
UniRef90_UPI0004692C50 PMNLRFH IYGSIRVASNKDKL KIDL
UniRef90_UPI00036791F2 VAKFA TEVEFRPRA
UniRef90_S4MCE9 Q TVELAYIRRRDLARRAVRVT F
UniRef90_I8TNU5 EGKLA PKVRVRVNG
UniRef90_UPI00046A6070 NVKVDISV RALIKTTGEKYFFNTALFLS P
UniRef90_A8I7S4 GG
UniRef90_S4XZU3 LHVHVAYEIVG
UniRef90_L0NE77 PGRLLLVSGV
UniRef90_Q0A7U4 EARLLITVSYTLAAVGHRRERHQF
UniRef90_G9PUJ4 DGKLC P VVRFKL
UniRef90_E1KTY7 EDLLSITVHAQL ESTDIPVFNTLVYIS P
UniRef90_UPI0004714355 YIYLTINVA GR
UniRef90_UPI00036C4681 RTARFYIYFVPIESQVAENL
UniRef90_W4TAC1 HSKVR IALNAKMEETGERFSFSTELFLS P
UniRef90_W4D120 RSLVI
UniRef90_UPI00047DE931 DATLLVTV
UniRef90_V6J5M2 RSR SLSLSMTKADDGETISL
UniRef90_W6VZY7
UniRef90_E5Y5W9 DGKLT P VVTVEIR
UniRef90_H8MEZ8 DEKLLQLVVR YRLTTLGV PQQQLF
UniRef90_UPI0002EDCB3D TITIDLRYRVA GT PDQRR LRF
UniRef90_UPI00036238AF VLQLNFRVT C I V
UniRef90_UPI000478CE1C DKE LNITVKGSI MESLIPNFHTKLNIS P
UniRef90_Q39QE9 VLA LRFOITARITDDD
UniRef90_E2CFL3 HGRVDITFY SFRFI PSDE
UniRef90_A0A024B013 GNTLVVSLQITAI SIDA EAFDMV
UniRef90_C7RL04 RTLRLRLA MQVLLI DAPT PLDLVFDLAL EG
UniRef90_B0T4J0 DSEALVTIT YVVSHTQQV V NQT I
UniRef90_D9J0Q1 N FSC TINVT PINAEEQVSLV
UniRef90_I7KT84 EGLLIPKVKVRINDDH
UniRef90_M4U5U4 PLNLRFHITASLNS S
UniRef90_B7LTS4 NGDLRLHITATVEFQNVRD VLEFSLSL
UniRef90_E3SL17 SNDLNVTI GYDIVG
UniRef90_UPI00029A8EFE RERVDIYV LGRLLLTG EK GFNYTLYLGP
UniRef90_R7MUL5 GKLV PKVVITI
UniRef90_J5HEV5 EGVIVPRVKVVI
UniRef90_C5AHX5 PGVLV
UniRef90_UPI000469268F DERVRIGVKGV LISNDK P FHFSTYLYIS P
UniRef90_E1QHA0
UniRef90_R9M0J3 PGALIPIVEVNIID
UniRef90_A8EVD7 NSSLS CEVS FQ
UniRef90_E2CI67 NGTLAVR
UniRef90_F0IJ9 KKKVM IYVKGF KETNNPYEYRTHLFLA P
UniRef90_D1Y2B9 RLRPRVEVE
UniRef90_I7KRBO DNVLIVS IYFS IVDNPD
UniRef90_H6RPG9 DSTSRIQVTFQENRTGETHTEIF
UniRef90_UPI00036713E8 AGGV DVA LAYS RRE
UniRef90_E3FGG8 TLT LRIHVIRTHSTD
UniRef90_F8WQ00 RGLLTIQVSLAALGIDDIINL
UniRef90_S4Y9D3 SGTLVVRLA FRRTDRRPRNL
UniRef90_UPI00047A387F GEIPI
UniRef90_C9Q150 EERVQITVNGLLISNDK PFYFNTYLYIS P
UniRef90_A0A024LW69 LDDFVVEITVVP TAGGD PVTL
UniRef90_S9NX60 PAALKFEITAO LALKGSR E V LRFRTRVGAGG
UniRef90_C5BSB5 RSSIDVISIDVRPLG

UniRef90_UPI00035FE005 V V V G A E N I Q Q A A N H R L T T R R G S I T Q H P T Y G S R L H E L I 40
UniRef90_S2ZJQ6 S T L V I T E V L Q N V L K T I L S T V K Y S V P L D R G F G G T I G G D A V
UniRef90_I1TQN2 A L V Y D T D A I N Q N L L M I F L S P P R T A W F D P M I G S L I L T F L
UniRef90_Q0FZ01 L L T G K A H L A Q S L A V L W T T R P Q R F M L L D F G D D L R A F L
UniRef90_W4BN64 L Q M I S G P D E I A Q S C R L I L G V Q K G E W F L N P E L G I D H K K F L
UniRef90_A6EIG3 S I S K N I E L I I F S R Y G G S H R Y N P S F F G C E F W D L D
UniRef90_J0UY07 S I R E N H L Q R I L N T R R G S V P L D P E F G V P D F T N L
UniRef90_B2ZYI0 D E Y A V R N S L A N L L N C P I G A R I F N P T Y G T L W T Q F L
UniRef90_UPI0003096C49 A S A Q A S V A A H L A K M L S T R A G S V Q T L P D Y G L P D L N
UniRef90_UPI0003B4D215 A G H H D I F Q N V A T I T T T R G S V P L D R D F G I S G T F L
UniRef90_N6X865 D G L E N L A Q A V I L R L L T P R G G E L L G H P D Y G S R V H E L I
UniRef90_S3J9M5 L A A I E G Q T N I R Q A I L N R L L T R K G E K L G H P D Y G S R L H T L I
UniRef90_S9UAA0 A T R A E E I R Q N V K C I I D T V M G T V P L F R N F G L D T P Q
UniRef90_F4GSE7 G A T V R G V D E I L K Q N V R T I L G T P Q G S Y I L G H P L Y G S R L H L Y L
UniRef90_L0LAK7 F A P A T K I I E E N I L Q N V R T I L G T V K F S V P L D R E F G I S G D V A V
UniRef90_S7XV3 L E S L K H N V S N L L N A R I G E S L S A P D L G L I D F N
UniRef90_UPI0002DB6722 S I E T C D I A E S I A Q N I M L L I T T K K G E N R Y D E N Y G N D V W N V E
UniRef90_UPI0003FADEBC V D S V R A H L S R L L T T R K G S V P I S P E Y G V P D L S N I
UniRef90_I0IRP9 C T E V I E S I D A H I L L I T T Y G G E C S F D K Q Y G S T I G E L D
UniRef90_L1PSI2 L K K C S L K E S I A H H L H L M L T T A F G E L L S D D Q Q F G N K L W E E D
UniRef90_UPI00036F9D93 I A W I D G R E E L T Q A V R I R L G T R L G E Y F F A P D M G L D H P R M V
UniRef90_S9T8T7 G L K T A S N Y D R I G Q Q V I E I L D T R V G E R V Y R R F F G I P E L I
UniRef90_H6WG16 A T G V I E I L Q N V A F I M A T A S M S C P L D R E F F G W D K T V I
UniRef90_X2GTN4 V D S I L A H V R R I N T R R G S V P I A P D F G I P D M L
UniRef90_D7AEH8 L I M I E G A E V A Q C S V E L T L G T N O G E W F L N P E M G I K F R A F L
UniRef90_L5MKK0 L K I C R G I E N L K Q S L E I R L L T P K G S Y L N H P N Y G S V L A D I M
UniRef90_A0A024B0Z3 E V E E N R R I E I L N K Y T K T L R S L L F G L D R H I
UniRef90_J4KTH6 L P I L K N E N A I R R S V R N I V E T I P T E R F F N S L L G S D V R R S L
UniRef90_M4QS13 A A L V D S I C Q E L S N L N T R R S E R L S V V D Y G I L D W A H L
UniRef90_I4N1T0 A V L D G F P H V E Q S L M G K L F T T F Q G E R A M R E W F G N P G L R L L
UniRef90_X5R009 D S E L R Q D L M N H F N T K K G E R A F D A D Y G F I A W D L L
UniRef90_L7TL95 E I L Q N C S T I L S T S K F S V P L D R D F G V D A N Y V
UniRef90_R6J8Q0 Q Q S I H L I T T S Y L G G E C T F D E T F G C S I W N V D
UniRef90_UPI000472E9A4 V D M T E S I V E H L R V L N T R K G G S A T V P G F V D F T D F V
UniRef90_L7UDD2 I K T C D V G E S I A Q N I M L I T T K K G E N R Y D E N Y G N D V W N T E
UniRef90_K1M0E6 I K K C S L K D S I A H H L H L M L T T S F G E L M S D E E Y G N K L W E E D
UniRef90_W0F876 I K K C S L K D S I A H H L H L M L T T S F G E L M S D E E Y G N K L W E E D
UniRef90_UPI00046EC1B3 A T S I T A I L Q N V R N I L S T T R G T V P L D R T F G I R Q T F L
UniRef90_UPI0003674C28 A E A K E Q L K N D V L N I L K T R R G E V P F M P G L G L D G K Y I
UniRef90_G4KQ69 L A P A S V L E V L Q N V Y T I L T V R Y S V P L E R G F L D G E L I
UniRef90_R5BHC5 E K E I Q N I E N I L G R V K G N V V L A R H K G I D S E N I
UniRef90_H1PWB8 L S T V V G I D N I K Q Q L Q T R L L T P K G S L I L H P N Y G S D I H E L F
UniRef90_D4K5G7 E D A E D I C E C L K V L Y S A R A G E Q G L D R D F G I S L I D A V
UniRef90_W5RAQ7 V A S I A A H L A K M L S T R A G S V Q A L P D Y G L P D L N
UniRef90_UPI00039FCF48 V D S I T N H L R R L I N T R R G S V P I D P L F G V P D F T N L
UniRef90_UPI000470C6BB L P V C D L T Y S I T K N L E I I T T R F G E H R S D E T F G G C E I W E L D
UniRef90_A9IN60 V K T I R G I E N L K Q S L Y V R L I T P M G S Y L G H P R Y G S R I H E Y I
UniRef90_G9J1Z4 L A T T D S R E N L V Q A L K M R L L V S R G E R L A H P R Y G S R V H E L I
UniRef90_A6GIS9 Q Q R V L R R L L T N P G D Y L H P P E Y G A G L P Q Y V
UniRef90_G2ZT34 F S L T K D K E D V L Q S V R I L G T R L G E F F F D E N M G L R E N L H
UniRef90_W7CWX1 L L L T S G A E T G V Q D V R L R L G T P L G E L F Y D A E F G S I L H E E F
UniRef90_C6E6P6 I S T S T N N D N I K Q M I R V R I G T I P D T Y I F G D D L G S E L G T I
UniRef90_F3VWN7 I S T S T N N D N I K Q M I R V R I G T I P D T Y I F G D D L G S E L G T I
UniRef90_T0C511 D I A D I K R C L E C L Y Q T A E G T C P L D R E F F G I N T D F V
UniRef90_UPI00036AEC82 S L A P E S E V A E I L Q N V Q T I I S T V R G S V P L D R E F F G I N T D F V
UniRef90_D4CB17 L P I L K N E R A I V R S V R N L V E T I P T E R F F N S N L G T D I R A S L
UniRef90_D6KLH6 I E S I K A H L A D L L N S H P G H C A C A P G L G L D G V D F N
UniRef90_Q58MP5 I M M T D G I E D I I Q S V R L I L T R K G E F Y F D Q D S G L V Y E N L
UniRef90_Q0ACN3 A R S G G M A S V A A H L A G K M L S T R A G S V Q T A G D Y G L P D L N
UniRef90_Q92B40 S I K R N V A Q L L N T R L G E A L C A P H I L G L I D F N
UniRef90_M4K476 A S L V E E V K Q N I R T I A S T A L G S A P G S R T I G V D W E L V
UniRef90_Q2C8R0 D S V A S H L A S K M L S T R A G S V L T L P D Y G L P D L N
UniRef90_UPI0004699F45 A S G E A E I L Q N I A T I V S T F Q G T V P L G R A F G V D L P S A I
UniRef90_UPI000401BF17 V I E S V M G N L L R V L N A R E G C C E T R P D Y G V P D F N S
UniRef90_UPI000401ME81 V A S I A T H L G K M L S T R A G S V Q T L H D Y G L P D L N
UniRef90_W8YNL9 G A S T V S G K D N I V Q A L T M R L I V Y R G H L L G H Q R Y G S R V A D L I
UniRef90_V9QZH7 V V K G I S N I K Q Q L Q T R L L T P Q G S L L M H P D Y G S N I H L L S
UniRef90_L7UCS9 D L H N A V Y R L R L E T P L G S Y W A D P T L G S R L H E L S
UniRef90_Q4Z9D2 S V Q Q N V Q R I L N T R A G A L K H L P D Y G L P D L T
UniRef90_W0BUS9 E S L K H N V S N L L N A R I G E S L S A P E L G L I D F N
UniRef90_G7H9R7 I A S I H Q H L G D L L N T H S G N A M L D S E Y G L P D F N D V
UniRef90_UPI0002DD2EF9 A E E I C R V L I T R K G S I P M N P G Y G S S R I L W K Y R
UniRef90_U3A8K1 V I S D E A Y L K D R I Q S C L S M R L G T H P M R R D K G S R I P D L I
UniRef90_E6X1N5 G V E T V S G V D N I V Q A L T L R L L D Q G E K L G H P R Y G S R I R D F L
UniRef90_Q31HT9 I E S I K R S I R L L N T R V G E S L S A P E L G L I D F N
UniRef90_UPI000376CF66 T E R I T A V K R H L E W I L N T R R G S A P S C P D L G L P D F N
UniRef90_UPI00047068A3 Q S I R Q N L R N I L N T R S G S C R G A P E L G I N E I P E G A
UniRef90_W5IU3 L E S I K R N V S N L L N T R L G E A Q S A P E L G L I D F N
UniRef90_UPI0003EE13B1 L A T L T G R Q N L A Q S L I L R L L T P L G T L L G H P G Y G S R L G E L V
UniRef90_A3Y883 L T V T K G I D N L I Q S I T M R L L T K Q G S L L Y H P E Y G S R L D D Y V
UniRef90_I8QJY4 E S I R S H V S Q L L S T R Q G A L L C P D L G S L Y D L N
UniRef90_Q5UL12 G L A N I R T A L S Q R R L K T P L G R H P F H P G Y G S L Y T H V
UniRef90_UPI00035FE005 I A S I K R N I S G L L N T R V G E S Q S C P E L G L I F D F N
UniRef90_F4YA67 T L I E S I K Q N L N Y R L N S R P N G C Q G S P C L G I P D L N
UniRef90_B5FD88 L Q T V S G T E L T R Q S L Y R V L T V P G D Y I W L D Y G V G L M V
UniRef90_A8ZRG2 A T G V D E I L Q N V A F I M A T A M M S C P L D R V F G W D M T V I
UniRef90_B1KGT5
UniRef90_K8WGG0
UniRef90_Q5FRL0
UniRef90_R7Z8B8

UniRef90_UPI00035FE005 G L A Q A P Y I N K L T E L D V I E T L D D E R I D T V T V N A I E V D
UniRef90_S2ZJQ6 D M P M Q Q A A A M L S G E I F A A I R R N Y E E T P R A M I Q S I K F S G D E S
UniRef90_I1TQN2 F D P I V D D F Q A D K I R D E I M S V L R N G E E T R V T I T G C V V A P I P D D
UniRef90_QQFZ01 A E D I T P D L A L D I Y D D L I V T A T H S N F E E T P E Y R I A N L Q L V S
UniRef90_W4BN64 G K G V S R D E M Q D E I I S G L L Q E E T P R I Q V D A I E F S F N R Q L
UniRef90_A6EIG3 F E L I V S E T I E K F R Q S L L T R A V I E T Y E E T P R L Y Q V E V V I K M S E V E
UniRef90_J0UY07 A G S F S S G S T R E I I D S L I T R M I E E R Y E E T P R L K A P K V E Q V S E Q G S E
UniRef90_B2ZYI0 Q E P I D D V T A N K M N L S T I Q A I E T W E E T P R L S I D T S S L L P D Y S L
UniRef90_UPI0003096C49 D M R L S H D A L T Q A R E A I E E F I E M Y E E T P R M S Q V I Q V T T L P D D G D
UniRef90_UPI0003B4D215 D S P A P V A Q A K L R G E I V S A I E M Y E E T P R A Y V T G V S F R G D D D G D
UniRef90_N6X865 G R E N D S P R R N L L R L F I I L E A L K A E E T P R I D V A E L L R V E P S P G S D
UniRef90_S3J9M5 G E G N N T R T R S L A D L Y I T R E C L Q Q E Y E E T P R L E I T Q L S F A P P E G D E
UniRef90_S9UAA0 D V P V P F L E S Q L T I R V I T E A I Q Q E Y E E T P R V E I T K V I V E T G E
UniRef90_F4GSE7 A G S F S T G T T D Q I V Q D M S R M I Q R Y E E T P R L R Q A Q V T F A A N R D E
UniRef90_L0LAK7 G K K N T E E N A S L I D I E T I F A R A L R R K R Y E E T P R V S I T E I T F T G D P
UniRef90_S7IXV3 D K P I L Q A E A I L S S E I T E A Q I K R Y E E T P R I Q S M D I N V L P D N G S
UniRef90_UPI0002DB6722 D A S L S S D L A L Q I R R A I R R C I E T Y E E T P R I Q S M D I N V L P D N G S
UniRef90_R9CJ66 F D N G V S A W E N I F I N S L K K Q I E D Y E E T P R I L V N P Q I K A H L I Y V E
UniRef90_UPI0003FADEBC D A T G A A D L K L G V R Q A V I Q A C I E R F E E T P R I T D V N V I Q D N G S Q
UniRef90_I0IRP9 A G S F E S G T S L Q M V Q T I L E T V A R F E E T P R L L S P K V R A L D D T T E
UniRef90_L1PSI2 F E Q V V S E G W K E V S E S L K K S I S L Y E E T P R I T L L N F Q M K I D E L L
UniRef90_UPI00036F9D93 F D N V S Y R N R K E L L S L L G K T I E A R F E K R I E K V K I E M Q V R Q A D
UniRef90_J2EQK3 D M R L S H D A R S Q A R A A I R T F I E A Y E E T P R L K N V R V A S M P N D A D
UniRef90_S9T8T7 G K Q V D E D T I R E A I M R C L M D E P R L Q V E D V S V E T R D
UniRef90_H6WGT16 F E T I S E D L L S Q I R E A I K K Q I S N S I P D L E M D V S V E L D E S
UniRef90_X2GTN4 D T P I P I A K A R I V A N L T E A I H K F E E T P R A I V E A V D V L G D G L
UniRef90_D7AEH8 D V L H Q S P D S V R E I E R S I R A A I Q Q G F E P R I A D V R V A F V P Q E D D D
UniRef90_L5MKK0 D K H Q S E E E M R E Q I R Q G L F Q E P R I K V E S I E F T I D R K N
UniRef90_A0A024B0Z3 G S K K T E E V A L R A V N E I E R C I R T D G R V K H V E R G A N S F D
UniRef90_J4KTH6 D K S A D L Y N L L A K E D I T E Q I K K H E P R I Q T D S I S F E D D
UniRef90_M4QS13 F E F V D F G T A S V I Q D Q I E I A I N N F E D R V E N L I V Q V D P I A D
UniRef90_I4N1T0 Q A Q R S T D R N Q L S R E I R R A I Q H F E E T P R L Q V A E V E L V P H T E H
UniRef90_X5R009 G E N A T S R T I L L W F N V L W M L V I E L F E P R F K V V Q F V V N D V
UniRef90_L7TL95 F E L E G Y N T I N L L E A D A R R L I S L D P R L N L K K L Q I S R I E Y G
UniRef90_R6J8Q0 D A P L L S A K A K A E S E T F A A L K K Y E P R V T V K Q I T W R S N V
UniRef90_UPI000472E9A4 F D N L T S T N R L R V S E S L V D N I T S Q E K R L K T T E V I T R Q D E F R
UniRef90_L7UDD2 H T F P S A I L Q T L Q S A I R A T V L E F E P R I C N I S V R H L P D A D
UniRef90_K1M0E6 F D N V S P S V W E N I T S L Q R Q I L E Y E P R L V N P E I K A H I S F V E
UniRef90_W0F876 F D N V S Y R S R K Q I I L S V G R T I A K F E K R L E K V K I E M T A D P R M
UniRef90_UPI00046EC1B3 Y E M I R E Q W K N L T E S F E P L K K F E T R V S G I K V T T D T V D I D
UniRef90_UPI0003674C28 D K P Q A E A M A L F T G E V I A E V E K Q E P R V R V L R V E F A P S E A A
UniRef90_G4KQ69 G R P V S E I G P A L R N D I T E Q L I E K W M P E V E I E S I S I A D A D A K G
UniRef90_R5BHC5 D L P I P V A Q A K M S A S I L T Q Q I L E A K Y E P R C K V V R I S Y V E G D T A
UniRef90_H1PWB8 D K P F N I I E A Q I T S E V V E E L S R E E P R F S V S E V I V L L D E V N
UniRef90_D4K5G7 D K P T S V A K A L L A A E I V R K T K K Y E P R V E V V R L I E W D T S K V G
UniRef90_W5RAQ7 D R N I P E T A V L L I E V V R T L L
UniRef90_UPI00039FCF48 D M R L S H D S L Q Q A R V A L E S F I E S Y E P R L S Q V R V I A L P R E Q D
UniRef90_A9IN60 A G S F A S G T T G Q M I E D M N R M I Q R Y E E T P R L R Q P R I T F A E S Q D E
UniRef90_UPI000470C6BB F E L I V S P A W E K L R Q S L L K S I T A H H R L R S G I T I T V A I S D M E
UniRef90_G9J1Z4 G K K N T E E N A A L L A V I E R T I R T D G R V R N V E
UniRef90_A6GIS9 G E P M N R R N I E L L R R Y I R A A I L S D P R V K I V E L D I T P L R D D
UniRef90_G2ZT34 G Q P A D I A K I R A L I R G Q I L L E D P V I T V V P V R V
UniRef90_W7CWX1 D K P V N L D Y V E Q D I I E A I T T Q E A R I D V D S V L F D F N K N T
UniRef90_C6E6P6 L D E N S A S R R M A F E A E V V Q R V E E D P R V L G S V S C S V I A F D
UniRef90_F3VWN7 D E P M N N T R L Q C M S A V I A L T R W E P R I V A L D A I D V V W K A G
UniRef90_T0C511 D E P L N P T N I A L T Q Q Y V S D A L S V I D P R V Q I N S I N V T D P N D G
UniRef90_UPI00036AEC82 F E N N T Q E V S G E L V D R V A T G L G K W E P G L K L R G V R P T Y N D Q G
UniRef90_D4CB17 G M P I D V A K S Q F A V E I I D K T D R Y E P R A T V K D I N F S F N E D G G
UniRef90_D6KLH6 D M P I H Q A Q A H L S N D I F Q Q T K R Y E P R A K I S D L S F A A T Q
UniRef90_Q58MP5 F E N F Y P T L K V I E D Q V N E T V M I Y E P R I Q N L R A Q V D D Y I D
UniRef90_Q0ACN3 D A T L G A D L R L S I R R A V R D C I E R Y E P R I R Q V S V E V M D Q G S E
UniRef90_Q92B40 F S K L P N F D Y L K Q D I V T A I T E Q E E R V S Q V S V L F N F N K S D
UniRef90_M4K476 D M R Q S H E S L S Q S R L S I E R F I Q A Y E P R L T N V R V R A L P R D R D
UniRef90_Q2C8R0 D A T L T H D L A L Q I K L A I R H C I E R Y E P R L D K I D I Q Y V P N D E S
UniRef90_UPI0004699F45 D E P I N I V K T R I A G V L M A A I A E Q E P R A Q I T R I D F R E Q E T D
UniRef90_A0A031ME81 D M R L S H D S L Q Q A R L A I E R F I E A H E P R L S Q V R V I A L P R D H
UniRef90_W8YNL9 D Q P P E I A K A L L A S I I G A I T D Y E P R A R V L Q V D F E P Q E E
UniRef90_UPI000401BF17 F I G L Y P D A L P A I S R T V R E Q I E M F E P R L T D V D V S F V P N P D Q
UniRef90_V9QZH7 D L R L S H E S L S R S R L S I E R F I Q A Y E P R L A N V R V R L L P R D R D
UniRef90_L7UCS9 G E P M D R A N L D L R R Y V I R Q A I K E D P R V D V L E L S V T A R A D V
UniRef90_Q4Z9D2 F T Y N T V E T A T L I E M E V T R T L
UniRef90_W0BUS9 R A K D S A T T R R L A Q Q Y T E Q A L Q P L L D D G R A T A I T V T V T H P Q
UniRef90_G7H9R7 N Y K A L P A S A H M L K Q Q M E A T L L K Y E P R I R S I D V A I L E N D D P
UniRef90_UPI0002DD2EF9 D A S L S S D L A V Q I R R A T R H C I Q T Y E P R L K N M D V I V Q P D N G S
UniRef90_U3A8K1 L A S N N L V R H I Q N N T S T A I Q R F E E P R L G N V E V Y Y R E D H H N
UniRef90_E6X1N5 D R M P I G E V K L G I I A E T Y E E A N V S R V R P I R V V Q V N G D S S G
UniRef90_Q31HT9 D A P S N T A N L F E M K V I A V V D A L
UniRef90_UPI000376CF66 G E P L D R A N R E L T R R Y V R K T L E D D R V E E V L Q V S V S T Q A D S
UniRef90_UPI00047068A3 D A S L G A D L A V Q I K R A I K Q C L Y R Y E P R I K S L D V I H Y N D E F A
UniRef90_W5IUD3 D A A L S E D L R L N V C E A I R Q L V A R Y E P R V R Q V E V Q P R P D A Q G
UniRef90_UPI0003EE13B1 D N F R E S M S R T I A Q C L I E R Y E P R V S Q A E I R Q V S I M T S A L
UniRef90_A3Y883 D A T L S N D L A V Q I K F A I R H C I E K Y E P R L S C M E I R V A V S D L N S
UniRef90_I8QJY4 G R A N D P V A R F L A R R H V L A A M A Q E S R A Q L V D L V F D P A T S G
UniRef90_Q5ULI2 G Q K S N T K I T L Q L I V I E I E R T I T
UniRef90_A0A014PYG1 Q P Q N E A I R L Q V M A E V Y T A L S R W E P R I T L S T V S I T R D F
UniRef90_F4YA67 F D Q Y S S V A L D A Y K T S L K T S I Q K F D Y R I I V D N I N I S K G D A D
UniRef90_B5FD88 M S H M S P D A I L H I K R E V R V I A R Y E T R I N P Q V R Y L G D I Y N
UniRef90_A8ZRG2 G R V A D P A H L R L V C V D A R R A L R D P R V Q D V T V T A S W E
UniRef90_B1KGT5 D N S G S F D L G V R I K A G I K T C I E R F E P R L T H L D I R V L H D T S C
UniRef90_K8WGG0 D A T Q S A D F K T E L E N S I A S C I L T Y E P R L T S V D V T Q F I E N D A D
UniRef90_Q5FRL0 G Q V I A P E A M E S V I R A Q V I Q A D A G V D S S Q A V T V T V T D E G
UniRef90_R7Z8B8 D A P L N I A K A R I T A K L I E A I N K F E P R A L I E S I E V T G D

UniRef90_UPI00035FE005 M T A I R V D I S F T A A G T E S Q 90 100 110
UniRef90_S2ZJQ6 G K L I P I L L E V R T V G T
UniRef90_I1TQN2 Q I Y Y V S L Q Y D V P Q L N A K D V V F N F N L G
UniRef90_QQFZ01
UniRef90_W4BN64 R Q L I V S F T A T G T N
UniRef90_A6EIG3 K K K V D L S V R G K M N V T G E K Y Y F N T A L F L S P
UniRef90_J0UY07 V L S L S F S L E G L V
UniRef90_B2ZYI0 P G Y R V Q I A F T L N L R S N R Q V V N F N L I P
UniRef90_UPI0003096C49 S L R L A F S L Q G W L E V E G I K R Q V S F T A H L D G S G
UniRef90_UPI0003B4D215 R L W P V V Q I
UniRef90_N6X865 R S T V D V L L R V K P V A
UniRef90_S3J9M5 R S V L Q V T I A V K P V G
UniRef90_S9UAA0 N G K A F P L V D Y N I V E E G
UniRef90_F4GSE7 V L S L A F S L A G T V
UniRef90_L0LAK7
UniRef90_S7IXV3 K G R L T P K V T V K I N E T
UniRef90_UPI0002DB6722 P L N L R F Q I N A S V N L G A M H R N V Q I D L L L
UniRef90_R9CJ66 H S T K V K I A I N S K L E S T G E Q F N F S T E L F L S P
UniRef90_UPI0003FADEBC S T R L Q F R V H A R L A L D G R R D E T T L D L L L
UniRef90_I0IRP9 L S S L R T E I S G E I L V N D Q R T L I Q I P A F V R A
UniRef90_L1PSI2 E E Q V K L I K T A L K S N G K Y T F Q Y Q L Y L S P
UniRef90_UPI00036F9D93 P G K L E F T I T A V I T A T N E P
UniRef90_J2EQK3 Q L R L S F S L D A L L E V T G V K R Q V S F
UniRef90_S9T8T7
UniRef90_H6WVG16 G T A V I L I T Y S P E G S E Q
UniRef90_X2GTN4 Q G R L T P K V Q V S I N E S
UniRef90_D7AEH8 V L A L R F A I S A R L G S D G
UniRef90_L5MKK0 R T I E L R F Q A T D T G E P
UniRef90_A0A024B0Z3 S N T L T V E M S I Y T I T T E E A F T F A V
UniRef90_J4KTH6 N G S I C E I S Y T
UniRef90_M4QS13 E N T F N V T V I F D I I G
UniRef90_I4N1T0 P Q Q L A V R L R G C L R S G Q Q H W P L V
UniRef90_X5R009
UniRef90_L7TL95 Y Q M N I V L Q Y V V L D T L E E L T I V F
UniRef90_R6J8Q0 E G V L R A K V K V V I N E T
UniRef90_UPI000472E9A4 E G R V D I K I K G I L R Q T N E P F S Y L E R F Y I A P
UniRef90_L7UDD2 P L V L R F E I T A Q P A G R G V R G M L R F R T Q M S P G G
UniRef90_K1M0E6 H T K V R V A I N A K L E A T G E N F S F A T E L F L S P
UniRef90_W0F876 K R K L E F V I T A V I S A T N E P I T Y R D G F F I S P
UniRef90_UPI00046EC1B3 S R K I T I L V Q G T I R K T N E A F S H T E H I Y F S P
UniRef90_UPI0003674C28 D G R L Y P V V T L E L K E
UniRef90_G4KQ69 D L N V E I E V N G T
UniRef90_R5BHC5 D G I L R P V L E V A I I G S
UniRef90_H1PWB8 T G K Y K I S V K G V I T D
UniRef90_D4K5G7 Q G V L I P K V
UniRef90_W5RAQ7
UniRef90_UPI00039FCF48 P L N L S F A L E G M V D L D G Q R R P V S F T A R L N G S G
UniRef90_A9IN60 V L S L A F S I T G M I A V D D Q
UniRef90_UPI000470C6BB K K R V D I H L F G T I Y K T G E A F N F H T N L F L S P
UniRef90_G9J1Z4
UniRef90_A6GIS9 P S A V D V
UniRef90_G2ZT34 G G G F A V S I K Y H D A A T G Q P V N L N F
UniRef90_W7CWX1 R N L R I D I
UniRef90_C6E6P6 E R G F S A E A V W E F M D E H Q L N L V
UniRef90_F3VWN7 G R A G V T L S G T V M Q N V E L T I T L
UniRef90_T0C511 T M R F F V S V N V T V A G Y G D V S T T V P I G G G T
UniRef90_UPI00036AEC82 L A K V E L D I
UniRef90_D4CB17 Q L Q A E V V I T
UniRef90_D6KLH6 N G A L I P K V M V T V
UniRef90_Q58MP5 S N A F N V T I I F D I R G L P V P T Q Q F S F L L E P
UniRef90_Q0ACN3 P A A L R F K L H A V L T D R G D Q R T
UniRef90_Q92B40 R K L F V S I
UniRef90_M4K476 P L V L A F S I A A M L V I D G E A R A V A F S A H L G G G G
UniRef90_Q2C8R0 P L N I F F H I T A C I N S
UniRef90_UPI0004699F45 G G R L V P I I R F I L A E
UniRef90_A0A031ME81 P L S L A F A I E G R L E V Q D L K C N V N F S A R L D G S G
UniRef90_W8YNL9 P Q K L V P L I R L Q F I Q E G E
UniRef90_UPI000401BF17 P L A L N F H I E A Q L S S D G E R R K V S F
UniRef90_V9QZH7 P L V L A F A I E A T L L A N G I R Q P V V I F S A L L G D G G
UniRef90_L7UCS9 P G A V D V R A R I K A T G D A V E L G L A L D L G
UniRef90_Q4Z9D2
UniRef90_W0BUS9 S G W L L L T L D V Y Q A S G E P V S F T H P V N V I
UniRef90_G7H9R7 G V L V S F E M T C H L K
UniRef90_UPI0002DD2EF9 P L N L R F Q T V A S V
UniRef90_U3A8K1 P L Q L G F A I R G Q V S H N G G N V P M S I D V Y M G
UniRef90_E6X1N5 K W S L K V W V E
UniRef90_Q31HT9
UniRef90_UPI000376CF66 L N S I Q V
UniRef90_UPI00047068A3 P L N L R F E I I A D I N T
UniRef90_W5IUD3 L P L L Q F R I H C V L P V N N
UniRef90_UPI0003EE13B1 D M T F H I T A W V T F N D T H E V F E F D M A P
UniRef90_A3Y883 P L N L R F Q I E A K I
UniRef90_I8QJY4 P G T L G F T A I V I Q P L L D G E P
UniRef90_Q5ULI2
UniRef90_A0A014PYG1 D G S M V V E L T G Q R N D G S P L A M S V
UniRef90_F4YA67 N S V Y I E I K Y R V R D T
UniRef90_B5FD88 P L R L Y F D V R G D V I T N G Q N T A I S F
UniRef90_A8ZRG2 G E L L T V A Y T V T P I P P G T P F S D S Y
UniRef90_B1KGT5 P F S L R F H I H G K I
UniRef90_K8WGG0 S L S L Q F S I N A C L D L D N Q Q Q L I E F N M Y L
UniRef90_Q5FRL0 G G V C R C D V S Y V D A A S G Q Q Q S L S F S Y
UniRef90_R7Z8B8

UniRef90_A3GNH0
UniRef90_A0A037YM48
UniRef90_G1UXN6
UniRef90_UPI0002F9E15A
UniRef90_L8MBV8
UniRef90_W4EEQ8
UniRef90_A0A023D1J8
UniRef90_M1P6Z0
UniRef90_S6IRV8
UniRef90_H3SHJ2
UniRef90_E1TH69
UniRef90_UPI00036C34B8
UniRef90_V6J9K2
UniRef90_B6V2Q3
UniRef90_R8UXE5
UniRef90_A0A038GD37
UniRef90_B9D1U1
UniRef90_L0M9X6
UniRef90_S2KDG1
UniRef90_C4L827
UniRef90_L4JKM8
UniRef90_F0LZL7
UniRef90_UPI00029AA11F
UniRef90_B6EJ76
UniRef90_UPI0002896FE7
UniRef90_A0A010SSS2
UniRef90_W0H8J6
UniRef90_UPI000478E5E4
UniRef90_UPI00037B8C4E
UniRef90_F7SM10
UniRef90_A6FZ38
UniRef90_N1ZEV8
UniRef90_K4Z9V1
UniRef90_U0FY8
UniRef90_UPI000368A467
UniRef90_B5EUK2
UniRef90_I1YRX7
UniRef90_UPI0003478B3E
UniRef90_U0Z4T5
UniRef90_E1V3X6
UniRef90_Q5FN84
UniRef90_T0Z779
UniRef90_A0A01774E9
UniRef90_V1GLP3
UniRef90_A0KJB7
UniRef90_S5KJ39
UniRef90_E2QQS9
UniRef90_W0HIY2
UniRef90_S9S2Q6
UniRef90_C1DM93
UniRef90_UPI000465A4C7
UniRef90_W1EVR7
UniRef90_F9TP83
UniRef90_Q6TKU9
UniRef90_G1USG4
UniRef90_V8DEH3
UniRef90_V1UG02
UniRef90_C3JB66
UniRef90_C0XG27
UniRef90_UPI000248E929
UniRef90_B6VM86
UniRef90_M3D7T6
UniRef90_UPI000375BAEF
UniRef90_I7DJ22
UniRef90_D3PTC1
UniRef90_D3P055
UniRef90_G8MHV9
UniRef90_W2DD39
UniRef90_U2F0H1
UniRef90_C4WG29
UniRef90_H6NDT0
UniRef90_D7I003
UniRef90_I4HNG7
UniRef90_X2HAU9
UniRef90_R5H0E8
UniRef90_UPI00026C7B67
UniRef90_UPI00047168E1
UniRef90_R5IDA4
UniRef90_A8U3X1
UniRef90_S5YPH5
UniRef90_L0RD77
UniRef90_E1YEL6
UniRef90_UPI000474C52F
UniRef90_U2QL99
UniRef90_C6LFZ2
UniRef90_D4BJW9
UniRef90_F4E952
UniRef90_UPI000472D4B5
UniRef90_C2I7P5
UniRef90_Q1NY56
UniRef90_J6IVV7
UniRef90_E9Z233

UniRef90_A3GNH0 Q G I I G I K L S C Q I L A T G Q 100 S E V F D F 110
UniRef90_A0A037YM48 P L D M T F H I T A W V T F N E T H E V L E F
UniRef90_G1UXN6 D G Q L R P V V T F K L R E
UniRef90_UPI0002F9E15A P L E L H F R L D C Q V Q V N N H A E Q L Q L E L L V N G
UniRef90_L8MBV8 P Q R L R I R L A G T L R
UniRef90_W4EEQ8 G G S L A V V L K Y S L A E
UniRef90_A0A023D1J8 G G V V S C A I S Y V D A A T Q E M Q T L
UniRef90_M1P6Z0 R L A V K F Q I F A K L A T S G S N T S V L F
UniRef90_S6IRV8 P F R L A F A L N G L L E V A G V K R Q V S F S A R L D A S G
UniRef90_H3SHJ2
UniRef90_E1TH69
UniRef90_UPI00036C34B8 P G M L L
UniRef90_V6J9K2 P L E L H F R L D C H V Q V N N
UniRef90_B6V2Q3 P Q L R S F H I V A Q V S F H D A R D V L E F D I L L
UniRef90_R8UXE5 P Q R L S I R L D G L L R N D R Q Q W P V A F I L L H T S
UniRef90_A0A038GD37 D N I L D I R I G Y T A K G
UniRef90_B9D1U1 P L E L R F H I L A Y L N F S N S Q D V L E F D I L L
UniRef90_L0M9X6 P L Q L R F Q V H A T L
UniRef90_S2KDG1 L L A L R F R I T G T M Q K D G L V A P L T V G
UniRef90_C4L827 P G E L H Y V I D A E L K D A G
UniRef90_L4JKM8 P L T L R F H I V A S I
UniRef90_F0LZL7 D S K I C V T I R Y R L
UniRef90_UPI00029AA11F P I H L Y F E I N G D L L N N Q L T P I S F N T Y
UniRef90_B6EJ76 N L V L A F S I E G V M E I D G V K Q T V A F
UniRef90_UPI0002896FE7 N D T L S V T I S Y T D S A S G E P V T L S F
UniRef90_A0A010SSS2 K L K L R F S I E G F L T V E G A K C A V S F
UniRef90_W0H8J6 P L E M A F Q V T A H V R
UniRef90_UPI000478E5E4 P R R T E V T V N G Q I R K T L E T F R F Q T G L F I G P
UniRef90_UPI00037B8C4E G L Q L R F Q V H A T L
UniRef90_F7SM10 A G I V H V H A E V R P V G A E D
UniRef90_A6FZ38 E K K P S L R A K Y C Y E N T D N K V E T V F K F A V
UniRef90_N1ZEV8 R M L Y L S F S A T A T D G E K I E S E V I
UniRef90_K4Z9V1 P L Q L S F G I T G E V S H N G G Q V P M S I N V F M G
UniRef90_U0FYF8 E G R L I P Q V R I R L
UniRef90_UPI000368A467 P L Q L R G F G I G G E V I H N G G K V P M A I N I F M G
UniRef90_B5EUK2 E D R V R G V W V N G V M V R N D Q Q F N F N T H L Y I S P
UniRef90_I1YRX7 V L T L R V R V R E G D T A D V E A P L
UniRef90_UPI0003478B3E P G W L H L Q I T V E N Q S G P Q L F N L
UniRef90_U0Z4T5 P L Q L R F Q V Q A T L D L G H D S T Q T T I D L L L N
UniRef90_E1V3X6 S G L F R C D V S Y T D S Q T Q T I Q A L T Y
UniRef90_Q5FN84 L G A L R L E I S G E I P L N G Q N M P I Q F P V L V K A S G
UniRef90_T0Z779 S M V L E F E I T A Q I Q P N D G R R Q Q L R F
UniRef90_A0A01774E9 S M V L E F E I T A R V R D E N A P L E L R F
UniRef90_V1GLP3 P L E M S F Q V T A H V R
UniRef90_A0KJB7 R K L H V S I K M T
UniRef90_S5KJ39 P G H L N Y L I H A Q L P D T G
UniRef90_E2QQS9 D L R L H I D V V A A N G N L Q T F S H P
UniRef90_W0HIY2 G L L V S F V L T C H L K
UniRef90_S9S2Q6 R Q R L R V R L N G V L R G
UniRef90_C1DM93 P L E M A F R V T A H V R
UniRef90_UPI000465A4C7
UniRef90_W1EVR7
UniRef90_F9TP83 P L N L R F S V A A T I V V Q A E A G P F S L V V
UniRef90_Q6TKU9 P V E L C F H I V A T V D V S E T R G V F E F D I
UniRef90_G1USG4 T G T L M P R I D Y E L R D
UniRef90_V8DEH3 P Q Q L S I R L R G N L R G I A Q R
UniRef90_V1UG02 P Q E L R F H I V A Q V S F H D A R D L L E F
UniRef90_C3JB66 R K R V D I Y L Q A T I V S S G E R L N F H H R L Y L G P
UniRef90_COXG27 Q L K I Y I T I E
UniRef90_UPI000248E929 K K R V D L K V S G T K K Q T N E S F S C V E S F Y I A P
UniRef90_B6VM86 P L L L S F H I S A Q V
UniRef90_M3D7T6 P Q D M T F H I T A W V T
UniRef90_UPI000375BAEF E A G I T A E A A W Q F I D E D H E Y N L T F
UniRef90_I7DJZ2
UniRef90_D3PTC1 L N Q L D L D I V V Q A E A G P F S L V V
UniRef90_D3P055 P L S L R F Q L S A R L R G
UniRef90_G8MHV9 G L Q V S F E M I C H L K R A G
UniRef90_W2DD39 P L E L N F R L D C Q V R
UniRef90_U2F0H1 R L N F K I V L T
UniRef90_C4WG29 R F V F L L D G I F Y P R G
UniRef90_H6NDT0 R A K R V L S I T K F K A T A W N G R S S E V I P
UniRef90_D7I003 R L T L Q F F I D A I L K A D G I K K A V R E S A T V S E A G
UniRef90_I4HNG7 R N V L Q T T I I L Q P V G E S T A L N I Q L A I N L
UniRef90_X2HAU9 D F I I A Y E L L C Q L K E V G I R F S T T F
UniRef90_R5H0E8 S G V I S P I V E V E I
UniRef90_UPI00026C7B67 K Q I I T C N I S A Q F N K T F N L L N V Y F
UniRef90_UPI00047168E1 D S Y A Q L E L H F H I V A
UniRef90_R5IDA4 P G T L I P V V E V N I I D D E S
UniRef90_A8U3X1 P L T L A Y R I R G E L V V A E S E N S I T F
UniRef90_S5YPH5
UniRef90_L0RD77 P L S L Q F K L Q A K L A L D D Q E V P V V F
UniRef90_E1YEL6 E
UniRef90_UPI000474C52F P G Q L R Y A I D A E L
UniRef90_U2QL99 D A F H I Y G S F Q A A D T E A S Y S L H I
UniRef90_C6LFZ2
UniRef90_D4BJW9 P L E L C F H I R A H V N F S N R Q D I L E F
UniRef90_F4E952 R N
UniRef90_UPI000472D4B5 R T F T A T I A A T G
UniRef90_C2I7P5
UniRef90_Q1NY56 P F M L A F K L S A R V R V E D R E Q P V V F E T V L N P
UniRef90_J6IVV7
UniRef90_E9Z233 P L E L R F R I V A C V D F S E A R D V L E F D I V L

UniRef90_UPI00036A996E 1 L V I T A G L D N F A Q A L R H R L 20 F T P I D S Y L P H P 30 D Y Y G C A I T A M L 40
UniRef90_G6XMB9 L E L V S D V E N V R Q Q G L R R R L L T I P G Q Y I W Q P D D Y G A G L L A A M V
UniRef90_B1JAL8 S V L Q D N I Q R L L L N S R A G G S L S H L P D D Y G L P R D M G T V
UniRef90_Q30VW2 L I L T D G A D T G V G Q D I W R L A I Y T V G T L F Y D T E F G G S R L P D M G T V
UniRef90_F0ECZ6 A E K I A A I K R H L E T L L N A R Q G G S Q S S S P E L G L L H D F N
UniRef90_G1URE9 A R M S E D E I A I R L H L L R L L T A R Q G G S V Q Q S L P D D Y G L P D L L N
UniRef90_M7C9X0 T A A L I N S V K S H L T L V L N T R P E T C Q S S R D L G L V T D L L N
UniRef90_X7HK63 Q S I R H S L R N I L N T R S G S C R G T P E L G L I E E P E G A
UniRef90_UPI0004679CB7 G I S W A S G N D R I V Q N I J N L L N T H K Y E V J A Y D R T L G L S G D F I
UniRef90_UPI0004674D08 I A S V A A H L A R M L G T R A G S A Q T S P D Y G L L P D L N
UniRef90_UPI00046680F4 I D M V D G L E A V K Q S V Y C L N T E R F E W I Y S W N Y G S E L K D L L Q
UniRef90_S0ZAY7 D S L A N A V Y L R R L L M T P L G G S W W A A P S L G G S L H T L L Q
UniRef90_K5ZHM7 L A T L D D Q A L V Q Q R V L R R L L T N P G D Y I W Q L G Y G A G L G Q F I
UniRef90_S5M8F4 F A I I D G V Q T L K Q D L F H R L L T P L G T L P Y H P D Y G S N M P M L I
UniRef90_A6GC54 V D E V E L I V G N I R A L L N T R L G D A V S A E G F G V D L V D I
UniRef90_K4Z9C5 F A P A D L I A E V S Q N I R T I L S T Y A G S A P L A R S I G L N Q D I M
UniRef90_U2NX24 S I K Q H L N E V L N S R P G A C Q S A A G L G V I D L N
UniRef90_E1TC39 S V Q A N I R R L L N T R A G A L K H V P D D Y G L P D L T
UniRef90_UPI000349E93D A S Q V A C I A V H L G K M L S T R A G S V Q T R P D D Y G L P D F N
UniRef90_F4XF94 G V Q S L D G A Q A L L Q R V L F R L L T A R R G Q F P F L P E M G S R L Y Q L C
UniRef90_D6SPQ1 S E E L Q D I L Q N L N S I L N T K K H Y G A P L P G D L G
UniRef90_V5T233 G L A T E R V R A I K N H L E Q L N T R R G G S Q S S P E L G A P L P D M N
UniRef90_UPI000462E96E A S V L E N L R R V L N S R Q G C E T R P D F G M D L N E A V
UniRef90_B3QC0N G R A H A E H C I V R R L L A T R L D T R V M R L D L G A N L A P L R
UniRef90_UPI0003D33F97 G L A V V G D A E E A R Q A I R R R L C A T N T G D Y V W H P D D Y G V L P A Q I
UniRef90_S2JVU3 Q S I L Q H L Q R I L N T R Q G T V L I D P E F G V P D F T N L
UniRef90_W0MUK5 S I A V H L A N M L G T R A G S V K M L P D D Y G L P D L N
UniRef90_UPI000471E6D2 V R S V T N H L R L R L N T R Q G S V Q L D P L F G V P D F T N I
UniRef90_UPI0002D9319D L V M I E G D E L A Q C C R V A L G T N A G E W F L N P D G L A F R L F L
UniRef90_UPI00046EE1CC I T A D I E C I L Q D I R L E S L T Q E G D L F Y D R E Y G W S L Y D Y L
UniRef90_U2SGA9 G A R T V D G K D N L I Q A L T L R L M I Y R G E P L G H T R Y G S K V A E L I
UniRef90_W0H4A4 A D S V R T E L V R L L N T R R A S G P T L D Y G I A D W S A L
UniRef90_UPI00047C6B3E I A M I E G D E E L A Q S V R M L Q T R K G E F F L E E D H G L V
UniRef90_G8PG00 V N S I K R H L A K L L N A R A G A S A A T P D L G L V D F N L S
UniRef90_A8AST6 L A T V D G V E N L K Q A L A R L L T P K G A L M L H P E Y G S N L H K M
UniRef90_C6M5G4 V R S V L D N I Q R I L N T R S G S L K H L P D D Y G I P D L S M V
UniRef90_F9RUJ8 L Q S I K R N V S N L L N T R L G E A Q S A P M L G L V D F N
UniRef90_W5Y9D9 G V A V V T G A D Q T R Q A L R R R L C N A G G Y I W Q P D D Y G A G L P A R V
UniRef90_W6WPJ5 S V Q D N I H R I L N S R R D G L V H L P D D Y G L A D L S E I
UniRef90_W9B1A8 L D S V A A H L A K M L G T R A G S V Q T L P D D Y G L P D L N
UniRef90_UPI00030A93C9 L D S V H T E L R L F N T R R G Q R P L T S D Y G I A D W T A L
UniRef90_J3DJG1 E E I V Q N I E N I S R R G N V V L A R E K G I N F N Y I
UniRef90_F7MEQ2 A D S V R E E L T R L L N S R R A T P P T V L D Y G I G D W S G L
UniRef90_L1M5M3 V A L L H S V R N L R L L N T R S G S C H G S P E L G S I V D F N
UniRef90_T7R12 G L R R T E G R E A L L E Q V L F R L T A R R G T F P F L P E L G S R L W Q L G
UniRef90_U2S7C1 S L A P E S I E A E V V G N V R M I T T V R G T V P L F R D F G L D S T I I
UniRef90_R5BL55 A E S V R G E L R L L N T R R P A N A R S G I L A Y G L A
UniRef90_I6RLJ1 S V R D N I Q R I L N S R R K A L A H L P Q Y G L D D L S E I
UniRef90_G8MIF3 V N D N Q E V I Q S A E I L L G T R K G E F S F A P E M G L R R A N L L
UniRef90_S5NYE9 V E S I K R H L V R L L N A H P G N S S A P D L G L L D F N
UniRef90_A1U731 A S V A A H L S R M L S T R A G S V I Y M L P D D Y G L P D V N
UniRef90_UPI0003FA789B S T A R E V Y R N I Q V L Y G T V A G E Q A L D R E F F G L D G S I I
UniRef90_H1CIQ2 L C S G L E C L Y Q N I V L E A L T Q P G D V F Y D A E F G W G L Y D F I
UniRef90_C7HAR4 S L L I E D V L R N V R Y L L R A K R G A A S C L P G F G L T E T G
UniRef90_U2STW9 T T Y F E E Y V F D E G F G S E I W E T D
UniRef90_E6XAM8 E E K L R Q E L S M L L S T R A G S V P V I R D Y G I S W Q C L
UniRef90_U2C4D1 L E S V R I E L L R L F N T R R G L R P L T T D Y G I A D W T A L
UniRef90_A0A010SNZ9 S V M D N I E R I L N S R A G A L M H L P D D Y G L P D M S T I
UniRef90_X2H5V6 M R A L L D S I R N H L N E V L N S R P G A C Q S A V D L G V D L N D A T
UniRef90_D3VFB6 S V Q M H L Q N M F N V R Q G S V A A L D D Y G L P D F N
UniRef90_UPI0003793BBE A T I S G V D L I V E S L L R L L N T P T G M E V V D S S Y G N R A F D Y L
UniRef90_K8GN81 V Q S I K R H L V R L L N A H P G A S R S A P E L G L L D F N
UniRef90_A3J8D5 L A N A C Y L R L L S T P L G S W W A D K T F G S R L H E L R
UniRef90_Q0F1S5 E R I A S L A N A V Y L R L M T P L G S W W G D T A L G S R L H E L A
UniRef90_UPI000464694B S V M D N M Q R I L N S R A G S I K H L P D D Y G L P D M A Q V
UniRef90_UPI000467C545 A S L A E S I L N H I A K L L Q T R Q G T V L C L P D D Y G L P D L N
UniRef90_UPI00046CF19C S V K R Q L E R V L N T R C G S C R S A P D L G L V V D L N
UniRef90_H3SBK2 L Q M V S G P E E I A Q A A R V L G T N L D E W F L D P D A G T N Y D V L L
UniRef90_Q8DFV8 E L I T G V I E E L R Q R I Q R C M R T R R R T V P L N R S F G S N L P E R V
UniRef90_UPI000346FB6E L V W I K E E E I A Q C V Q R V L S T N K G E W F L N P S F G I R F S V I F F
UniRef90_C5EX11 D I K N N V K L L N S K L D D C L T F N D L Y G K P D L N N I
UniRef90_H7E581 L R S I Q S N L R N V L N T R S G S C Y G S P E L G I S D L N
UniRef90_UPI0004667E33 D S V H A E L H R L L N T R R G S P P S I L D Y G I A D W T A L
UniRef90_UPI00047DF189 S I A N N L S R I F S T N A G S A Q I L L D Y G L P D L N N I
UniRef90_C9QIY8 L A S I K R N V A K V L N T R V G G A Q S A P T L G L I D F N
UniRef90_S9XWY6 S L E V V N E E D S V A A H L Q R L L N A R T G T V S H L P D D Y G L P D M T K I
UniRef90_UPI00046AF9D5 A S V A A H L G K M L S T R A G S V Q T L S D Y G L P D L N
UniRef90_V6MM44 S I K Q N L N Q V L N S R P L G C Q S T P A L G L P D L N
UniRef90_M5B162 M Q T V T G K E E L A Q Q I R T I I S N Q L G D A P L E P D L G M D Y E N L I
UniRef90_K8WHX3 M D A L V K S I K Q N L N Q L N S R P D A C Q S S A A L G V P D L N
UniRef90_G4KPI5 T G E E H I L K N L H T L F A T R A G S V G M D R D F G L D W E S V
UniRef90_K8R9N3 S V R D N I Q R I L N S R R K A L A H L P G Y G L D D L S E I
UniRef90_UPI00036E668C L A S I T R Y I Q K I L N T Q Q S V L I D K D F G M P D F S E I
UniRef90_C4UCQ1 S I K Q N L N E V L N S R P G A C Q S A V I E L G V I D L N
UniRef90_D8PEP7 S I S R D I E A L L N T R R G T P P E Y K E F G L P D F T
UniRef90_L1M437 V Q A I K N L E H L L N A R R G G S Q S C P G L G L P D M N
UniRef90_C3WVQ9 E I V Q N I E N I S R R K G N V V L A R E K G M D I N N V
UniRef90_J3I143 D L L D S V H A E L G R L F N T R R G P R P S V I R D Y G I A D W S A L
UniRef90_B1HTM4 A T G V Q E V L Q N V A F I M S T V A M D C P L D R G F G L E V V
UniRef90_R9NRK0 D L H N A V W L R L R I R K G T Y W A D P Q M G S R L H E L A

UniRef90_UPI00036A996E G L G N G P V V V A L L C A A L A R Q A L L R D P R A A A I S A A G A V A 80
UniRef90_G6XMB9 G Q V V D T R T M E A V I Q A Q V L M V D A G V D A S Q G V V T Q V I V T A Q D A
UniRef90_B1JAL8 L Q G L P A S A H G L M A N D I A R T L R R R Y D P P R L V A Q Q V S V T Q L I P A Q S R
UniRef90_Q30VW2 K E E N T T A N R L G F I A E V I A R K R L V R K D P P R V Q P G T E R C S I S A S W D
UniRef90_F0ECZ6 G H A T S S D L L K Q V S A A D I V R K R T I Q R F E E P P R V L H V R A L V K A M P A C H A
UniRef90_G1URE9 D L T L S R A L L E T C T R A V I K K C C I Q R Y E P P R I T S D V J E V V S G V I D E H N
UniRef90_M7C9X0 D A T A T A D F R A S L E T S I S I V Q C C I E R Y E P P R I S S H S E V V R A V I D E H N
UniRef90_X7HK63 D N Y R S A M S Q A I V Q C C I E R Y E P P R I S S H S E V V R A V I D E H N
UniRef90_UPI0004679CB7 D K P S D E A I A I T A E I S D L I E T S T R E P P R A E L I E V L Y A G T D E N
UniRef90_UPI0004674D08 D M R R S H D A R S Q A I T A I R T L I E T H P P R L H N V R V T S I P N D A N
UniRef90_UPI00046680F4 F G K S S G L V K A K I K K R L R E A L L I Q D D R L S D V D S F F F D I N
UniRef90_S0ZAY7 R E K D T P R V R K L A R Q Y A E Q A L L Q P M L D D G R A L S L D I T A E R Y Q
UniRef90_K5ZHM7 G Q P A A L S L M A G L V R A Q M Q R E P D Q V M Q S L T V S M S M A D
UniRef90_S5M8F4 G T V R T D E W R V K M S I E V A R T F K S D A R V L D V V A N I K V E P I
UniRef90_A6GC5 H D F P A A A Q I M Q R S I R A T V A K Y E P P R L R N V S V R L V P N E D
UniRef90_K4Z9C4 D E P G P I L K A R L E G I M A A V L E Q E P P R A I V T E V E I F E D P A
UniRef90_U2NX24 D A T A T S D F R K S I E Q A I K E C I E R Y E P P R I S E V A V I Q S L V D Q Q D
UniRef90_E1TC39 E Y R N L P A S V H D L R R Q M E N T L L Q K F E P P R L R A S V E I R L D Q K P D P
UniRef90_UPI000349E93D D M R C S H E S L N Q S R R Q I E G F I E C P P R L R A S V Q V R L L P R D R D
UniRef90_F4XF94 R D G K P S A R S A L A R Q Y T V Q A L E S E E N L T V T D V V Q W T Q L E G S
UniRef90_D6SPQ1 M D D M N Y H L A S K M A E Q E I K E N V E R Y E P P R L R I V S V E P T E S E N Q
UniRef90_V5T233 D A A S G Q E L R N Q I C Q E I R E N V V A L Y E P P R V Q V L D V R A L T T S E Q
UniRef90_UPI000462E96E G Q G A E A V R A L A H S L K K Q I E V F E P P R L K N V S I R F H A D P D N
UniRef90_B3QCNO G E N L T A I N V M R A Y S A M V T A V H S Q Q E S A V R F K Q V A P Q L V D G R
UniRef90_UPI0003D33F97 G Q P V R E G D I Q A I L A Q L Q Q E S A V D Q S Q A T V V I A I T D Q G E
UniRef90_S2JVU3 A G S F V T G E T S Q M I E N I T R M V A R Y E P P R L K S P R T V M G E D A Q E
UniRef90_W0MUK5 D M N L S H D T L K Q S R A A I E K V I R T Y E P P R L N V D V V Y V S S G E S
UniRef90_UPI000471E6D2 D A T L S L D L S L R V K L A I K D C L E R Y E P P R L T N I L V T S D S F P H S
UniRef90_J2KFW0 A G G L T A G S T G D I E E I R R M V L K Y E P P R I K S P R V V M S R E S T D
UniRef90_UPI0002D9319D G K L A S E E E M R N E L T R A L L Q E E R I E S V D D V T F I V D R A A
UniRef90_UPI00046EE1CC Q G D D S E L I R T A I D T R V I R K K L S R R E Y I D V T S I K T Q I T Y T
UniRef90_U2SGA9 G E P L D R P N L E L I R R Y V R Q A L K E D P R V D V T H L S V T A R P D L
UniRef90_W0H4A4 Q A S N S D D R R R L T R E I R A A I T H F E D R I S V E E I D V V Q A V T G R
UniRef90_UPI00047C6B3E F D H I K D F N L D E A R D D I I E A I S Q E E D R I S V E E I A F N D D
UniRef90_G8PG00 S V A T N D L T Q H E T A A S I R Q C I E R Y E P P R V K V R S V I H F V R D P D R
UniRef90_A8AST6 F K K A T H E S A S L I D I E L T R T L L L D G R V E T V I E S L G E S K V E
UniRef90_C6M5G4 Y K N L P S S A H D L R E F M R K T L L K Y E P R L R N L D I R S E S D P Y S
UniRef90_F9RUJ8 D A T L T L D L S L R I K F A T Q N C L V S Y E P R L R N L E I R S E S D P Y S
UniRef90_W5Y9D9 G A V M D E A G I R A L V L Q Q M Q A E A G V D Q T R V T V I T S P E
UniRef90_W6WPJ5 Y R H L P A S A H K L R R E I E V T L L K Y E P R L R A R I D I R Y I P D D G S
UniRef90_W9B1A8 D A T L T H D L A L Q L K L A I E R C L E C Y E P R L K Q I D I R Y I P D D G S
UniRef90_UPI00030A93C9 D M R L S H E S V T R S R L V I E R F I Q A Y E P R L L A N V R V H L L P R G D D
UniRef90_J3DJG1 Q Q Q R S D D R R Q L A R E V I R E A I T H F E P P R L Q L G E V Q V N P I P G H
UniRef90_F7MEQ2 D E P M D I V S A E I A D C M E E I E R E E P P R F N V E E I K I L E N Q E L
UniRef90_L1M5M3 Q A S N S D D R R R L A R E V I R A A I N H F E P P R I K A G E V E R Q V A G Q
UniRef90_T7RB12 D S P D S M N I R D W M V L A I K N S I L R Y E P P R I S D V V V S A A E E
UniRef90_U2S7C1 Q L P A A R R Q S A A E Q Y V A E A L A A E P G L T V E Q V I L I T E S G G G
UniRef90_R5BL55 D S P T L M A Q A K I S T E I R A Q V R K Y E P P R A K I T S L K Y E V L E I G
UniRef90_I6RLJ1 D W T A V Q R L R A Q L A R E V I R A A V H F E P P R L Q L A E S V E P D I G N
UniRef90_G8MIF3 Y R H L P A S A H K L Q N E I E A T L L Q Y E P R L Q S I E I E I N E P E
UniRef90_S5NYE9 G K K S D V E I A A S D V Y E A L L Q Q E D R L K N I N V K A I V N D H D
UniRef90_A1U731 D A T L T H D L S I Q I R G A I R Q C I E K F E P P R V K R V D V V A M P G P D
UniRef90_UPI0003FA789B D M R L S H D T L R H A Q K S I E H F I G T Y E P P R L S N V R V V A M P D H D N
UniRef90_H1CIQ2 D Y P Q E N A Q V L L V A E Y V R K T E R Y E P P R A K V A R I E W T G G K A Q
UniRef90_C7HAR4 Q S E D T E L T R L E I T Q R V R K L Q K R E V I L P E S I E S J A F E D
UniRef90_U2STW9 F R T A E E M L T L M A Q E I R E N L Q L Y E P R V E V T E I E E G A E G D
UniRef90_E6XAM8 F D L V N A L K E Q I K R S L T N Q L E T Y E K R L G N T L T E I N L Q E S V
UniRef90_U2C4D1 D A Q P D V A E S L F Y Q E L L Q K T E K Y P N I K I V G I E F V H N P G N
UniRef90_A0A010SNZ9 Q Q E R S D D R R Q L S R Q I R E A I D A F E P P R L Q L G A V D V T P V P E N
UniRef90_X2H5V6 F Q A L P S S A Y V L M R A I E Q T L L T Y E P R L H A I N S I N L D E K N N D
UniRef90_D3VFB6 A T S V D F K Q S I E W A E D C I L R N Y E P P R I S A V S V S A I N D N D S D
UniRef90_UPI0003793BBE D L D M S S G A V T D M R K A L K L S L E K Y E P P R L E R I R V R Y L Q N D E N
UniRef90_K8GN81 S S P T T P A T I A E T E R A F K E T V E A E P Q V E L V S I K V K Q A A N
UniRef90_A3J8D5 D A T L T L D L G I R V R N A I R Q C I E R F E P P R V N R V N V L A L P Q G A D
UniRef90_Q0F1S5 R V K D L S R M Q R L A K Q Y A E Q A L A P V L D D G R A S S I T V S V I G H P Q
UniRef90_E3IML9 R E K D V P R L R L L A A Q Y A E Q A L A P L L T D G R A R A V T V T A A Q P H
UniRef90_UPI000464694B Y Q G L P S S A F V L M H A M Q T L L K Y E P R L Q T N V R V T H D S E V A G
UniRef90_UPI000467C545 D A N A S R D S I N R I C R H V E W V I N S Y E P P R L T N V R V T H D S E V A G
UniRef90_UPI00046CF19C D A T Q S G A L G G R I R E A I R H C I R D Y E P P R I T H V D V F A V D N T A
UniRef90_H3SBK2 Q K P N E E A I R E T V Y S A L E Q V E Q Q K V D S I D I R F D
UniRef90_Q8DFV8 D R N I T P E L E M D I Y A D I A E M L A
UniRef90_UPI000346FB6E E K I P N W E M M R E E I R Q G I F Q E P R V I Q V E S I S F Q V D R
UniRef90_C5EX11 L N F N S S D L C Q I M A K E A R I L K I L S I S Y Q Y D N S R L T
UniRef90_H7E581 D E S L S Q N I R N A T A R M I K E C I R R Y E P P R V S C V M V T T T Q D E Y A
UniRef90_UPI0004667E33 Q Q Q R S D D R R L L T R E I H Q A I S H F E P P R L Q L G E V Q V V P V G H
UniRef90_UPI00047DF189 N L S M K S I E K L E M D C E R C I N K Y E P P R L I R T R V R I D K V S L K
UniRef90_C9QIY8 D A T L D T D L S L K V K L S I T Q D C L R Q F E P P R L K H I E V T A I L D R D R
UniRef90_S9XWY6 L Q G M P G T A H E L I D T L A G V L L K Y E P P R L Q S L N V T L L E Q Q V
UniRef90_UPI00046AF9D5 D M R L S H D A L S Q A R Q A I E H F I E A Y E P P R L S Q V C V S L P R D H D
UniRef90_V6MM44 D A T L T V D F K V H L S N I I A D C I T T Y E P R I T N V T V H F I E N E A E
UniRef90_M5B162 G E D F N E A F A Q A D F E D A I L E Q E P P R V
UniRef90_K8WHX3 D A T Q A A T F R K S L E G S I T T C I N D Y E P R I N N V Q V T F I E N D T D
UniRef90_G4KPI5 D C P P E I A K A L M E A E I V K K A A T Y V P E A R I E Q I T W T G D E N L
UniRef90_K8R9N3 Y R H L P A S A H K L K T E S T L L E Y E P P R L R A V I D I E I N K P E S G
UniRef90_UPI00036E668C R W G E G S D I R R D L E K F E S K L L K Y E T R I N S A V N V C T R Q S P E S S
UniRef90_C4UCQ1 D T A A S S D F R K S I E Q A I K H C I E N Y E P P R I S A V T V Q S L I N S G D
UniRef90_D8PEP7 S Y S L N P E H R K A I R S V R E E M A I T K F E P P R L K S V Q V S L E S P R K F
UniRef90_L1M437 D A G A G Q E L R A Q I C Q V D I R E M A L A L Y E P P R V R V L D V P L E S A E Q
UniRef90_C3WVQ9 D K P F E L V K A E I I A N C M E E I E K E E K R F E V K N I E I I E M Q N
UniRef90_J3I143 Q Q Q R S D D R R R L A R D I R E A I N W F E P P R L K L G E V Q I T P L P D Q
UniRef90_B1HTM4 D R P L I L K A M Y S A R V I G A V N Q F E P P R A V I E A I E I T G D A E Q
UniRef90_R9NRK0 R A K D T P Q T R T L A R Q Y A E Q A L Q I D D K R A T V V D V A V T S P E T

UniRef90_UPI00036A996E G E Q L V T I A V I Q A Q P V N T E T V T D L N V I F Q L I 90 100 110

UniRef90_G6XMB9 G G G C V C R V S Y V D A A S G Q Q Q D F G F

UniRef90_B1JAL8 P G H L D Y A L D V V I K G G G

UniRef90_Q30VW2 N T G I T A E A A W Q W I G D D H P Y N L V F

UniRef90_F0ECZ6 P L E L H F R L D C Q V Q V N N H H E Q L Q L E L L V N G

UniRef90_G1URE9

UniRef90_M7C9X0 P L L L E F R I T A L V L L E N Q S Q

UniRef90_X7HK63

UniRef90_UPI0004679CB7 G N K V V V D I

UniRef90_UPI0004674D08 P L C L F F S I D A L L D T Q G R R M N L S V

UniRef90_UPI00046680F4 E R K L H V I T

UniRef90_S0ZAY7 P G W L L L L I T V T S A G V S P Q T W K Y P

UniRef90_K5ZHM7 D G T V N A T V S Y V D A A T G Q T A S L S F

UniRef90_S5M8F4 D N G V I T E

UniRef90_A6GCE4 P L I L T F E I A G R L V G D R R R

UniRef90_K4Z9C5 S G R M E P L V K F V L A E

UniRef90_U2NX24 P L L L S F H I S A Q V

UniRef90_E1TC39 G L L V S F I M I C H L R R S G

UniRef90_UPI000349E93D P L V L A F V I D A L L T F N G T T Q P V A F R A Q L G E A G

UniRef90_F4XF94 R G H L Q V Y L E W Q

UniRef90_D6SPQ1 P L H L S F V L V C E L R D K S Q K L K V V F

UniRef90_V5T233 P L G L C F R L H C Q V

UniRef90_UPI000462E96E P L Q L S F Q V N A T L

UniRef90_B3QCNO N G A L A F I F S Y

UniRef90_UPI0003D33F97 S G Q Y L C V I Q Y V D K Q T Q T V Q G L S F

UniRef90_S2JVU3 V L S L S F S L S G V V

UniRef90_W0MUK5

UniRef90_UPI000471E6D2 P L M L R F N I V A T V N S

UniRef90_J2KFW0 V L S I R F A L E G R L

UniRef90_UPI0002D9319D R L L T V T F K A T G T N

UniRef90_UPI00046EE1CC D N T F T V Q V R F C F K G N D Q G Y S M T T S L

UniRef90_U2SGA9 P G A V D V R A H V L A V T G D A V E L G L A L D L G

UniRef90_W0H4A4 P R Q L D I R L S G T L R H D R Q

UniRef90_UPI00047C6B3E

UniRef90_G8PG00 P L E L R F

UniRef90_A8AST6 E G K F L V T I E

UniRef90_C6M5G4 I M V L C Y Q L E C E I E N V G A V V I D T Y F M P E G T

UniRef90_F9RUJ8 P L M L R F N I V A E I N S

UniRef90_W5Y9D9 T G A Y L L A L G Y T D A A T G T V Q E L T

UniRef90_W6WPJ5

UniRef90_W9B1A8 P L N I F F H I T A C I N S N A L H E S V R I D L L L

UniRef90_UPI00030A93C9 P L A L S F T I D A A L I V D G V L Q S V V F

UniRef90_J3DJG1 P Q Q L C I R L L G E L R S G Q Q

UniRef90_F7MEQ2 A K I K I V V I G D V K D

UniRef90_L1M5M3 P R R L N I L V S G M L R Q G G Q Q W P V A F V L D K Q D S A

UniRef90_T7RB12

UniRef90_U2S7C1 R A Q V T V G L T W Q

UniRef90_R5BL55 H L R P I L T I

UniRef90_I6RLJ1 P Q R L R I Q L G G S L R S

UniRef90_G8MIF3 P G M L L

UniRef90_S5NYE9 R S I T L K L T G N V G E T

UniRef90_A1U731 P L Q L K F Q V T V Y L N V A G S D D R T T I D L V L

UniRef90_UPI0003FA789B V L M F M F S I K A F L E V D G A N K E V V F

UniRef90_H1CIQ2 D G T M T P K V

UniRef90_C7HAR4 D A V V L H C S F R F A E E D E R R E L

UniRef90_U2STW9 S G R P C L V V H C R L R A S R E P L S I T

UniRef90_E6XAM8 S E Y L N L T V T G T L L K T N E P Y Y F S G D Y Y L A P

UniRef90_U2C4D1 G E A T A K I S C R R R E N S E

UniRef90_A0A010SNZ9 P Q Q L S I R L Q G E L R S

UniRef90_X2H5V6 S M V L A Y E M T C Y F K E G G

UniRef90_D3VFB6 P L L L S F H I S A E I

UniRef90_UPI0003793BBE P L D L R F E I N

UniRef90_K8GN81 F T D I D V V I N Y R I L S E Q E L R A L S I T L N

UniRef90_A3J8D5 P L Q L K F Q V T V H L R

UniRef90_Q0F1S5 K G Q L W L A I E V S D A G G N P L S F K Y P V Q V I

UniRef90_E3IML9 D G R C I L H V T V T D A T G Q Q Q T Y T H P V R V

UniRef90_UPI000464694B

UniRef90_UPI000467C545 A L S L A F R I T G

UniRef90_UPI00046CF19C V P G M T F R V N A S V R

UniRef90_H3SBK2

UniRef90_Q8DFV8

UniRef90_UPI000346FB6E

UniRef90_C5EX11 P W R L T F L L R F T M R D D N Q E C N L E I I F

UniRef90_H7E581 P L E L R F H I V A Y V

UniRef90_UPI0004667E33 P Q Q L G I R L L G V L R G D P

UniRef90_UPI00047DF189 A N R M D L I I D G F L K

UniRef90_C9QIY8 P L S L Q F R I T A Q I N S D

UniRef90_S9XWY6 P G E L R Y A I D V I E L R G I G

UniRef90_UPI00046AF9D5 P L K L A F R I E G L L E V E G I K R Q V S F

UniRef90_V6MM44 P L S L Q F N I T A F I L L I E N Q K Q R I E F N V Q L

UniRef90_M5B162

UniRef90_K8WHX3 A L L L R F S I T A F I D L D N Q R Q

UniRef90_G4KPI5 A G K V K V

UniRef90_K8R9N3

UniRef90_UPI00036E668C P L L L I F V L E A K V E L D N K I V P L V F

UniRef90_C4UCQ1 P L L L S F H I S A R V

UniRef90_D8PEP7 D A A L H F R I D A L L R L D P A P E P V T F D A A L Q L G T

UniRef90_L1M437 P L G L C F R L H C Q I

UniRef90_C3WVQ9 I A K M K I K I T G E V K D

UniRef90_J3II43 P Q R M S I R L L G E L R S G Q Q

UniRef90_B1HTM4 G A K V Q V S V N G

UniRef90_R9NRK0 G W L L L S I T V T S A G G D V L T F R H P

UniRef90_UPI000472EF6B 1 V V M V E D D E 10 L A Q S V R I V L 20 G T R K G E F A L E 30 P D H G L T F D N I 40
UniRef90_B6WSQ0 I D A D Q E V M Q S I R I L E T P L G S W W A D P S L G S R L H E L A
UniRef90_D4JYP5 S T E E R D V E M C I L K T L Y G S R E G G S Q A L D R E F M G L N M D C L
UniRef90_H1X8V6 I D A D Q E V M Q S I R I L E T P L G S W W A D P S L G S R L H E L A
UniRef90_E7GLB7 V C S G T D C F L Q D I R L E A I T Q P G S E L F Y D P E W G W G L L E F L
UniRef90_F3YX71 R S V M N H L R H I L N T R Q G S A P T A E E F G M P D F T
UniRef90_UPI0003802FF4 G L T L E Q Y K D S V A R D L R E D L L N T R R G G S Q S C P D L G C A R Y G L I
UniRef90_UPI0004723B60 T E R I R A I K N H L E L L N T R R G G S Q S C P D L G C A R Y G L I
UniRef90_Q7N269 V S E E E S V L D N M Q R I L N S R A G S L T H L P D Y G L P D L N T I
UniRef90_R5HQM7 L C S G L E C L Y Q N I L E A L T Q P G S L F Y D A S F G W G L Y D N F I
UniRef90_UPI0004733B37 A R S V I D H L R R I L N T R Q G H V P I D P V F G V P D F T N L
UniRef90_K8AE23 S Q T D S L A N A I Y I R L E T P L G S W W A P N V G S L L H T L A
UniRef90_R7X0U6 E S I A Q N I E N I V T R I K G N V P L A R H K G I I A E N I
UniRef90_C3WBC2 I E M V E G S D L I I Q K I R Q I L L T N Y G E W W L D K K E G L D Q R S I
UniRef90_E1V1Z9 M C D G K E A I A Q G I H C M L T E L G R Y P F S E D Y G L A A E D L I
UniRef90_I2BU36 A R A G S V I D S L G A A H L E N M L G T R A G S V L T L P D Y G L P D L N
UniRef90_E6LJD2 I E M V E G S D L I I Q K I R Q I L L T N Y G E W W L D K K E G L D Q R S I
UniRef90_F7V7M3 M C D G K E A I A Q G I H C M L T E L G R Y P F S E D Y G L A A E D L I
UniRef90_UPI000305E22B A R A G S V I D S L G A A H L E N M L G T R A G S V L T L P D Y G L P D L N
UniRef90_H1SDI0 D T L A N A V Y L R L M T P L G G W W A D P T L G S R L L H E L S
UniRef90_U1AS72 A S V A S H L A K M L S T R A G S V Q T Q P D Y G L P D L N
UniRef90_N2J462 M S M T D L T A S I Q R E I R R L L D S R I G G T V M E P D F G D I H
UniRef90_D3NZ75 V I E N H L Q N V S T I L N T Q I G T V P Y A R K L G S V N S S L V Q
UniRef90_T7UQ53 S T I N E L Q N A V Y I R L T T P L G S W W A D P S L G S R L L H L Q
UniRef90_UPI000314F4B5 T L R G F E Q L A S R L Q Q L F T T R Q G S R Y R R A F G C H V P D Y L
UniRef90_R8AR57 I A S G A D S V I K Q A T I R S L M T A K G S L M L H P E Y G S D L H L M
UniRef90_A8E289 I A S G A D S V I K Q A T I R S L M T A K G S L M L H P E Y G S D L H L M
UniRef90_A4BEV5 G L A R A E G N D A I L Q R V L W K L T L R R G S F P F L P D L G S R L Y L L T
UniRef90_A6NQ15 S V L D N I Q R I L N T R A G T L A H L P D Y G L P D M S R I
UniRef90_W1J409 D S V A R D L E T L N A R P G E A T A M P E H P L A R S L L
UniRef90_UPI00034D0D0C V T Q A L L T R G T T A R G E L P W R T A F G A G L D E L R
UniRef90_DOLMS5 S V M D N M Q R I L N S S R A G S L A H L P D Y G L P D F N V I
UniRef90_Q7MZS5 S V L D N L Q R I L N S S R A G A L S H L P D Y G L P D M G L I
UniRef90_UPI00034910C1 L A T V S G L E N V K Q Q A Y I R L R L M T A L G E S E F F S N Y G T T L S E V L R
UniRef90_G2HX99 D T L A N A V Y I R L L M T P L G S W W A D P S L G S R L L H L Q
UniRef90_UPI0002F54666 I D H L G N A V Y I R L L M T P L G S W W G N P S L G S R L L H L K
UniRef90_R1H714 S V A S H L S R M L S T R A G S V Q T L P D Y G L D L N D L R
UniRef90_H5W9S5 G V R S V A A H L S R M L S T R A G S V Q T L P D Y G L D L N
UniRef90_K6BKE4 A E E L K R N L T T L F G T R A G A Q P A D R E F G I S W E C L
UniRef90_UPI00031J026 I S G V E E L A Q A V R S L L T T P K G T A L N E D E L G M D M S F L V
UniRef90_D9R639 G A T S V A A H L S R M L S T R A G S V Q T L P D Y G L P D F N
UniRef90_U2PLQ7 I A L V S G I D A L P Q K I L T C L S M R R G E S P F F R D F G S R L A E Y V
UniRef90_E2XTB7 L V S G L D C V F Q D I R L E A M T Q E G E L F Y D E S W G W S L L D F V
UniRef90_S6D532 I D I I E S R D C L A A N V L D R M L C S E G E L L L H K V F G A G L A D R V
UniRef90_K4ZDQ9 S V Q D N I Q R I L N S R R H G L L H L P D Y G L P D L D L T E V
UniRef90_UPI000464DB91 R S L E N A V Y L R L K T P L G S Y W A D K T P L G S R L L H E L A
UniRef90_J2XRT4 S V L D N L R R I L N S R A G A L D H L P D Y G L P D M G Q I
UniRef90_E1JUA5 T R I N H L G N A V Y I R L A T P L G S W W A D P S L G S R L H E L A
UniRef90_S6QRM7 D S L A N A V Y L R L M T P L G S W W A D P T L G S L L H T L R
UniRef90_UPI0002D32C82 S V M D N I R R I L N S R A G T I D H L P D Y G L P D M S K L I
UniRef90_UPI000464DB91 S V Q D N I Q R I L N S R R H G L L H L P D Y G L P D L D L T E V
UniRef90_UPI000364BF79 M E S V Q D S I G R E L R R L F N T R S P L S A E D Y A Q G S G I P D F V
UniRef90_C1D6N0 T R T D T L A N A V Y L R L M T P L G S W W A D P G L G S R L H E L M
UniRef90_L7U6K1 E L E H V L R N L E A V L N T K A G Y G F R R D F G L G E Y T
UniRef90_C4S8T3 S V L D N M Q R I L N C R A G T L S H L P D Y G L P D M S K I
UniRef90_UPI00028V884 A E S V R Q E L S R L L N T R R P S R A N G Q Q L T V L D Y G I L
UniRef90_G2SCR3 D L V A S L R Q E L Q A I L N T R S G N A Q S C P E L G I I D F N
UniRef90_W1IP14 S L E N A V Y L R L M T P L G S Y W A D P E L G S R L H E L T
UniRef90_B0PEZ6 A K G N G S P E Q C V E N L L I V R G E V P F E R L K G I D A T L T
UniRef90_V8A4B7 S L R E A S G D L T R O S I L R R L C T N P G A Y L H V I D Y G A G L L A R I
UniRef90_R5FER6 A E K I R R S L T T L F D T R E S S Q P G D R D F G L S W Q C L
UniRef90_F3S964 G V A V V T G A D Q T R Q A L R R L C T G T G A Y I W Q P G Y G A G L P A R V
UniRef90_D6PSZ8 M E T V S G Q E E L T Q C I R T I I S N Q L G D A P L A P E L G M D Y E N L L
UniRef90_UPI00031E50E0 G I E A L S D S E I T K N H V I Q L I L E T R Q G S A L T V P D L G L P D I N A L
UniRef90_E3PRX9 I K V V Q G L D A K K Q S I L L R L S I R R G S F L Y D E K L G S R L Y L T
UniRef90_U2HR05 F Q V S E E D Q H V L D N L Q R I L N S R A G A L A H L P D Y G L P D M G Q I
UniRef90_J3GG73 S V L D N M Q R I L N C R A G T L A H L P D Y G L P D M T K L
UniRef90_H3LM75 H L G N A V Y L R L M T P R A G S W W A D P S L G S R L H E L A
UniRef90_G1UQJ7 V R G R E E L L Q R A L I R L T V P R G S F S Y D P E L G S R L H H L V
UniRef90_J0N0U5 L V S G L E C F L Q D I R I E A L T Q E G E V I F Y D E T W G W S L L D F M
UniRef90_J2I8J4 I C D D V E A L K Q A I F L I L N T E R Y E H I Y S R N Y G V E L N D L I
UniRef90_T3I4P2 S V L D N L Q R I L N S R A G S L S H L P D Y G L P D M G Q V
UniRef90_S6AL08 T E R I R A I K R Q L E W I L N S R A G S S L S S P L G L R D L R
UniRef90_S6KBU1 L A N A V Y L R L M T P L G T W W K D P N L G S R L H E L R
UniRef90_UPI00023CBM8 V S D L E N L A R A I A R R Y I T P R G A L W Y A P G Y G L D L R R Y L
UniRef90_B7A981 A A S V A Q E L S R L L N T R P A G N G V G I L A Y G I A D W T A L
UniRef90_M4X1D0 G V V L A D I K A N I R R D L E N L N T R I Y R Q L S L V N Y G I K D F S H V
UniRef90_Q21K14 D D I V I Q S V C L R L G V H R G K Y W A D P N L G S R L Y L L K
UniRef90_N9PR88 S I K S N V S N I L N A R S R E A L S S P D L G L D F N D A L
UniRef90_F6CWW2 L L M A S E G E L I K G H I S W L Q T P R E R V M R P Q Y G M R D P L
UniRef90_K9QW37 I T L V N D K Y C L I Q D I I N R L K T A K G S H F R H P D Y G I D L Y K Y L
UniRef90_C0QSC5 A L A E G M E V I R Q D L A R L V S P R G S H W A F P L E G S D L L D Y V
UniRef90_B7AAM6 A S I A T H L A K L L G T R A G S V N T L P D Y G L P E L N
UniRef90_Q882T0 S I G H N L Q N I L N T R S G S C H G S P E L G I A D L N
UniRef90_UPI00039B81DD V V S A G T R S Q Q R V I R R L L N T N P P D Y P L Y H P T Y G A G L A R Y V
UniRef90_UPI00046B730F A K G D E R I Q N V N T I L N T F K D E V P Y D R L M G R N P D N L
UniRef90_ROAL04 L A L V S D I D E I K Q E L E I L L K T N Q G E F F G D T M G L N Q S E I
UniRef90_F7QW29

UniRef90_UPI000472EF6B
UniRef90_B6WSQ0
UniRef90_D4JYP5
UniRef90_H1X8V6
UniRef90_E7GLB7
UniRef90_F3YX71
UniRef90_UPI0003802FF4
UniRef90_UPI0004723B60
UniRef90_Q7N269
UniRef90_R5HQM7
UniRef90_UPI0004733B37
UniRef90_K8AE23
UniRef90_R7X0U6
UniRef90_C3WBC2
UniRef90_E1V1Z9
UniRef90_I2BU36
UniRef90_E6LJD2
UniRef90_F7V7M3
UniRef90_UPI000305E22B
UniRef90_H1SDI0
UniRef90_U1AS72
UniRef90_N2J462
UniRef90_D3NZ75
UniRef90_T7UQ53
UniRef90_UPI000314F4B5
UniRef90_R8AR57
UniRef90_A8E289
UniRef90_A4BEV5
UniRef90_A6NQ15
UniRef90_W1J409
UniRef90_UPI00034D0D0C
UniRef90_D0LMS5
UniRef90_Q7MZS5
UniRef90_UPI00034910C1
UniRef90_G2HX99
UniRef90_UPI0002F54666
UniRef90_R1H714
UniRef90_H5W9S5
UniRef90_K6BKE4
UniRef90_A0A031J026
UniRef90_D9R639
UniRef90_U2PLQ7
UniRef90_E2XTB7
UniRef90_S6D532
UniRef90_K4ZDQ9
UniRef90_F5RBU6
UniRef90_X1LES1
UniRef90_UPI0002D32C82
UniRef90_UPI000464DB91
UniRef90_J2XRT4
UniRef90_E1JUA5
UniRef90_S6QRM7
UniRef90_A0A023V7S1
UniRef90_K8W842
UniRef90_D5W1I5
UniRef90_UPI000364BF79
UniRef90_C1D6N0
UniRef90_L7U6K1
UniRef90_C4S8T3
UniRef90_A0A028V884
UniRef90_G2SCR3
UniRef90_W1IP14
UniRef90_B0PEZ6
UniRef90_V8A4B7
UniRef90_R5FER6
UniRef90_F3S964
UniRef90_D6PSZ8
UniRef90_UPI00031E50E0
UniRef90_E3PRX9
UniRef90_U2HR05
UniRef90_J3GG73
UniRef90_H3LM75
UniRef90_G1UQJ7
UniRef90_J0N0U5
UniRef90_J218J4
UniRef90_T3I4P2
UniRef90_S6AL08
UniRef90_S6KBU1
UniRef90_A0A023CBM8
UniRef90_B7A981
UniRef90_M4X1D0
UniRef90_Q21K14
UniRef90_N9PR88
UniRef90_F6CWW2
UniRef90_K9QW37
UniRef90_C0QSC5
UniRef90_B7AAM6
UniRef90_Q882T0
UniRef90_UPI00039B81DD
UniRef90_UPI00046B730F
UniRef90_R0AL04
UniRef90_F7QW29

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

UniRef90_UPI000472EF6B	R C L L H V V V T	D A T G Q R Y S
UniRef90_B6WSQ0	Q G N I R P K V	
UniRef90_D4JYP5	N I K L D L V I	D G E Q K T T
UniRef90_H1X8V6	D V L K I L A	R F Q F V G S E E T Q S
UniRef90_E7GLB7	H L G L K F Q I	T G R L
UniRef90_F3YX71	I N R I S F A I	T A T L A G L P Q R E A V S F D A V L Q P S S
UniRef90_UPI0003802FF4	P L G L R F R L	H C L V R D S P E R
UniRef90_UPI0004723B60	P G H L R Y D I	N A E L K G V G
UniRef90_Q7N269	D T F R L R C	S F Q F T D E E E P R E L N V
UniRef90_R5HQM7	A A T L H F S L	D A L L V
UniRef90_UPI0004733B37	P G E L R Y A I	D A E L K G V G
UniRef90_K8AE23	P G W V L L H I	D
UniRef90_R7X0U6	K T L V Q A S V	K G E I I D D
UniRef90_C3WBC2	N S I L L L C E	I R G Q
UniRef90_E1VIZ9	S L S L A F A L	E
UniRef90_I2BU36	R H L I I	
UniRef90_E6LJD2	G S S L L L I T	C S V T T D T G E
UniRef90_F7V7M3	P	
UniRef90_UPI000305E22B	D G R C L L L I T	V V D A Q G R K R A F N H P
UniRef90_H1SDIO	P G R L L L N I	E
UniRef90_U1AS72	P L T L S F I L	E G
UniRef90_N2J462	G T L T L E I T	G E V A A G T V V E P L I F S V N L G A A
UniRef90_D3NZ75	D G	
UniRef90_T7UQ53	N G T L V L H I	R V Q T A Q A A F D Y N H R V P
UniRef90_UPI000314F4B5	E D R Y V G N Y	R A T L Q S T R E Q F E F V V
UniRef90_R8AR57	R C V V R M E I	S G L L A D
UniRef90_A8E289	I G L L K V E L	T Y
UniRef90_A4BEV5	F G T L R Y A L	E A E L H E I G
UniRef90_A6NQ15	G A G L C F S I	R A R L R L D P C T E S V A F D A M L Q P G S
UniRef90_W1J409	L A L R V R I	R A T G E
UniRef90_UPI00034D0D0C	P G H L R Y D I	N A E L K D I G
UniRef90_D0LMS5	P G H L E Y A L	A L Q L K D
UniRef90_Q7MZS5	K G S L V L K I	
UniRef90_UPI00034910C1	P G W L L L L V T	V M S S T N I S Q T W K Y P
UniRef90_G2HX99	D G R C L L Q I E	V V D A S R R R R L F K H P V Q V G
UniRef90_UPI0002F54666	A L E L R F D I	Q
UniRef90_R1H7I4	A L A L A F A I	D A T L S I D G V T Q P V V F T A R L R D A G
UniRef90_H5W9S5	E G M L V P H I	Y F
UniRef90_K6BKE4	R G V A V F N I	A Y T V G D V G T P Q N T V
UniRef90_A0A031J026	A L A L A F A L	E A T L
UniRef90_D9R639	D T I T V H V	S F S F Q N T D R L Y Q L
UniRef90_U2PLQ7	A G R L D L N V T	V I D G T G R A W S Y P F
UniRef90_E2XTB7	E G R I I Y I	R T T I K A T N G Q V N L V F P F E M E
UniRef90_S6D532	P G M L L	
UniRef90_K4ZDQ9	P G W A I L H I T	V I D A R G E K H S F N H P V R V
UniRef90_F5RBU6	P G H L E Y S L E	V Q L R G
UniRef90_X1LES1	D G R C L L R I T	V V D A L G R Q V T F Q H P V Q V
UniRef90_UPI0002D32C82	P Q R L S I R L	D G I L R N D R Q Q W P V A F I L H T S
UniRef90_UPI000464DB91	K G W M L L H I	I V T S A S G T P Q T W K F P
UniRef90_J2XRT4	F G T L R Y A L	D V E L
UniRef90_E1JUA5	H E V A L V R I	G A Q A R A
UniRef90_S6QRM7	P G W L E L A V E	
UniRef90_A0A023V7S1	L W L H F G L V	G T V A G E R H K L R L R F
UniRef90_K8W842	P G H L E Y G I	D A E L K E
UniRef90_D5WII5	P Q R L G I R L	A G H L R S
UniRef90_UPI000364BF79	P L T L Y F L V	K A Y V
UniRef90_C1D6N0	H A L L W I E I	
UniRef90_L7U6K1	A G H F V L G V	D
UniRef90_C4S8T3	P G T Y L C T I	T Y S G R D G S D R Q T F T F
UniRef90_A0A028V884	D G K M V P H I	
UniRef90_G2SCR3	T G A C L L A I	S Y T D A R S G A V Q E L
UniRef90_W1IP14	R I L S I T L T	M T V
UniRef90_B0PEZ6	P L H L S F N I	T G D I I V H G K R E Q I A F
UniRef90_V8A4B7	K K R M K V I T	V Y F
UniRef90_R5FER6	P G V L L F E I	R G T L W S I P H P L E F V
UniRef90_F3S964	P G H L E Y S L	D A L L K S G Q Q
UniRef90_D6PSZ8	A G K L R Y G L	D A E L R G I G
UniRef90_UPI00031E50E0	N G R C L L H V	
UniRef90_E3PRX9	R A R L V A E L S	
UniRef90_U2HR05	E D V V A I R S	S F R F V D S D Q T V Q L
UniRef90_J3GG73	P G Q L E Y S L	D L R L K S G E Q
UniRef90_H3LM75	S L D L G F R L V	C L V P L N H S E Q K V E I D L F L H
UniRef90_G1UQJ7	N G W L T L Q I D	L I D A T G N P Q V F R Q P V R V I
UniRef90_J0N0U5	P Q R L R V R V	A L R L E T D Q G P F D L V
UniRef90_J2I8J4	Q R T L Y L K I	S A T L L I E P D P L I F
UniRef90_T3I4P2	G I D L A I D I	V R L T G E A Q S I P Y F V S L G G
UniRef90_S6AL08	P L E L C F Q I	Q A D V N S N
UniRef90_S6KBU1	E A V L S I	
UniRef90_A0A023CBM8	M R T F V I K	L I V E T V N Y D S P I N L V V T L
UniRef90_B7A981	E G G L R L	T A R L T E E A L S L L L P W P L E
UniRef90_M4X1D0	V L K R T F S	I D A S L D M N G V K K T V V F S I A V A G
UniRef90_Q21K14	P L E L R F H I	V A R V
UniRef90_N9PR88	P S T I S V Y I	R Y T L A G T G A P V T L S F
UniRef90_F6CWW2	K N K V I E L	
UniRef90_K9QW37	N R Q L F V K F	N V T L N V G E T I S S E V V
UniRef90_C0QSC5		
UniRef90_B7AAM6		
UniRef90_Q882T0		
UniRef90_UPI00039B81DD		
UniRef90_UPI00046B730F		
UniRef90_R0AL04		
UniRef90_F7QW29		

