

QUERY	1	10	20	30	40
UniRef90_Q11LL9	V T S T Y T S Y R L I S Q D I G K S L E R V S K Q P D V A R E T E Y Y R E K I G				
UniRef90_A6X6R2	M I N T S Y T S Y Q L I V R D I E R S I D R V E Q E Q P M V S R E T A Y Y Y Q E N I G				
UniRef90_A9CYK7	M V D T M T S Y Y R L I A S D M A R S I Q R V S K E Q P M V S R E T A Y Y Y Q E N I G				
UniRef90_UP100047C5BDF	M I S T Y T S Y Y Q R I A A N I L D R S S L S M T A A E R P V Q L E T E Y Y Y R S N I G				
UniRef90_G6YEK7	T Y T S Y Q L I T K D I T K S S L D Q V E A Q P V V K R D T D Y Y Y L A N I G				
UniRef90_J2VK17	M T S T M T S Y Y Q R L I A A D I L P R S S L A R V A K E P M V Q R D T D Y Y Y L K N I G				
UniRef90_UP10002F99A50	M M S T L V S Y Y Q M L T K D L S R S S L E R T A S A P L V S R D S K Y Y Y L E N I Q				
UniRef90_AQA021XA58	M T T T Y T S Y Y K L I T A D L L Q T S S L K R V S E Q P D V K R E T E Y Y Y L A K I G				
UniRef90_L0NC75	M I T T Y T S Y A M I S R D L P S S S L A R V V A E K P D V A R E T E Y Y Y L A N I G				
UniRef90_W6W8C0	M I T T Y T S Y A M I S R D M S K S L E R V V A E K P E V A R E T E Y Y Y L S K I G				
UniRef90_W8I4F8	M T T T Y T S Y Y K L I T A D L L G K S S L E R V V A E E P D V A R E T E Y Y Y L S K I G				
UniRef90_F2J4M0	M I S T L L Q Y Q M V S T N M T R S S L D T V V A S E P T V V A R E T E Y Y Y L A N I G				
UniRef90_UP100036F69E1	M L T T S D S Y R L I A Q N L S K S S L T T L S K D P Q I V A R E S K Y Y Y L E N I G				
UniRef90_Q07S14	M V S T V T S Y Q F I T Q N L A R S L A Q T A S K P D V S H E T T Y Y Y L A H I H				
UniRef90_I4YLQ4	M I S T M T R Y Q M L Q T N T A L T K T L Q N D A P V V D T D Y Y Y L A N I G				
UniRef90_UP10003A4AEE0	M I T T L F Q Y Q M V S R D L N R T L E T T A K D P Q V K R E T E Y Y Y L K N I G				
UniRef90_B9QS61	M I N T L L T Q V Q I V R R N N M D R S S L A T V V A A D P V V D R Q T E Y Y Y R E N I R				
UniRef90_UP100047CF3CF	M V G T L T S F Q N L S R D I P A A I S Q V V A A Q P F E A R E V E Y F S K T G				
UniRef90_UP100035E3CC0	M T T T Y T S Y Q M I A G N L T K S S L E R V V S E Q P D V A R E T E Y Y Y L A N I G				
UniRef90_Q0G108	M L D A S L S Y R L I S R D L P A S L E R T A Q D P T V V E R A S Q R Y Y L E E G				
UniRef90_U7GIC6	M I N T L S Q V Q L V R T N M E R S S L K T V V A A D P M V V E R Q T E Y Y Y R E N I R				
UniRef90_UP100035E32A8	M D T T F A T Y K S L T R N M T R T L A L K A A E P T V A L E T K H F L A T P				
UniRef90_B2IK03	M L T T A L Y Y N M T V R D Y T K T L A T T A S E P S V S R E S G Y Y Y L D N I G				
UniRef90_UP100045E7953	M E S T L L T Y R L L A R D M T R S S L S T K A A E K P V A L E S G Y Y Y L K H G				
UniRef90_X6CUX1	M L N T F T S Y Q L I T K D I S K S I D R I I E Q Q P V V D R D T K Y Y Y L A N I G				
UniRef90_X6CUX1	M L N T F T S Y Q Y L I T K D I S K S I D R I E E Q Q P V V D R D T K Y Y Y L A N I G				
UniRef90_Q89F18	M L S T I A D Y T T R L T K D L G K S M T Q V A T Q P D V S R E T D Y F L S H I G				
UniRef90_UP1000371D655	M L S T T A Y Y L S V A K N L T K S Q A T T A A E P Q V V A T A T Q Y F E A N I G				
UniRef90_UP10001D2E142	T T L S T Y L Q I A N N Q S L W Q S M T A K Q P D V V A T Q T Q Y F E D N I G				
UniRef90_E8TFX2	L T L V L V E P S A Q I K G E A D Y Y Y A A N I G				
UniRef90_E8TFX2	L T L V L V E P S A Q I K G E A D Y Y Y A A N I G				
UniRef90_E8TFX2	L T L V L V E P S A Q I K G E A D Y Y Y A A N I G				
UniRef90_E8TFX2	S T L Q D Y R Q I V R N Q D R Y D A M I R S R P D V K R N I A Y F E A N I G				
UniRef90_G8AYY3	L T L V L V E P S A Q I K G E A D Y Y Y A A N I G				
UniRef90_L0KGL2	L T L V L V E P S A Q I K G E A D Y Y Y A A N I G				
UniRef90_L0KGL2	N T L L S F N L I T R D L L S S S M E R I Q S Q P M I K V K R E T E Y Y Y Q E N I G				
UniRef90_L0KGL2	N T L L S F N L I T R D L L S S S M E R I Q S Q P M I K V K R E T E Y Y Y Q E N I G				
UniRef90_B8EK63	M L N S T L Y Y T M L T R D F S K S S L A T A A A S D T V A K R E T A Y Y Y E A N I G				
UniRef90_G7ZHP8	T T L V D L R V I S R N H D R Y E Q A V R S R P A V Q R A I S Y F Q E N I G				
UniRef90_K2NUP7	N T L L S F N L I T R D L L S S S M E R I Q S Q P M I K V K R E T E Y Y Y Q E N I G				
UniRef90_K2NUP7	N T L L S F N L I T R D L L S S S M E R I Q S Q P M I K V K R E T E Y Y Y Q E N I G				
UniRef90_UP100047EC011	UniRef90_UP100047EC011	UniRef90_UP100047EC011	UniRef90_UP100047EC011	UniRef90_UP100047EC011	UniRef90_UP100047EC011
UniRef90_X6KRZ4	UniRef90_X6KRZ4	UniRef90_X6KRZ4	UniRef90_X6KRZ4	UniRef90_X6KRZ4	UniRef90_X6KRZ4
UniRef90_A816K3	S T Y L T Y S Y L S K N Y D K A L E Q E A T T G S T K L E T A N F E K S I G				
UniRef90_UP1000418AD5A	S T L L D F Q L V Q R T Y D R Q V K L F S A R P V N Q R E I D Y F R K T I A				
UniRef90_UP100046305AB	UniRef90_UP100046305AB	UniRef90_UP100046305AB	UniRef90_UP100046305AB	UniRef90_UP100046305AB	UniRef90_UP100046305AB
UniRef90_K9GKJ3	T S S L T A H T V L N R D I D R Y R Q I M R E D P A I K R E T D Y F R K T I A				
UniRef90_UP1000308F3E0	M I N T Y T S Y Q L I T R D I D K S L S R V V Q K Q P L V D R E T K Y Y Y L E N I T				
UniRef90_UP1000308F3E0	M I N T Y T S Y Q L I T R D I D K S L S R V V Q K Q P L V D R E T K Y Y Y L E N I T				
UniRef90_UP100047E1103	M I N T A T T Y N N L L V K N Y S K T L A S T A A E P T V V S R E T K Y Y Y L E N I T				
UniRef90_UP10003A83139	M L N T Y T S Y M L I A K N I I G K A I D R V V E N Q P T V V E R E T E Y Y Y L K N I V				
UniRef90_UP10003A83139	M L N T Y T S Y M L I A K N I I G K A I D R V V E N Q P T V V E R E T E Y Y Y L K N I V				
UniRef90_AOA011VM84	M L N T F V S Y Y K L I A R D I P K A I D R V V E R Q P M V V D R E T K Y Y Y L E N I G				
UniRef90_AOA011VM84	M L N T F V S Y Y K L I A R D I P K A I D R V V E R Q P M V V D R E T K Y Y Y L E N I G				
UniRef90_AOA017HH68	M L N T F V S Y Y K L I A R D I P K A I D R V V E R Q P M V V D R E T K Y Y Y L E N I G				
UniRef90_UP1000373CD61	M L N T R M G L Q L V D A T R D R Q L D M I R D S A E D K R A I A A F E E R E N I G				
UniRef90_E6YH01	L T G Y V G W R F L E R T L E P Q Q A A F A K S Q P V V R A T D Y F R E N I G				
UniRef90_H0HNX2	M I S T Y T S Y R S T I D N M K Q T F D R L L F Q K P Q V K R E T D Y Y Y V K H I				
UniRef90_H0HNX2	M I N T F T S Y Q L I A R D I P K A L G R V V E N Q P M V V E R E T K Y Y Y L E N I T				
UniRef90_K2M7B8	M I N T F T S F H L I N R D I A R S M E R V Q S Q P A V Q R E T A Y Y Y Q A N I G				
UniRef90_K2M7B8	M I N T F T S F H L I N R D I A R S M E R V Q S Q P A V Q R E T A Y Y Y Q A N I G				
UniRef90_D8JRX9	UniRef90_D8JRX9	UniRef90_D8JRX9	UniRef90_D8JRX9	UniRef90_D8JRX9	UniRef90_D8JRX9
UniRef90_D8JRX9	T T A V E K Y Q S S S Q I N F Y K T D I A				
UniRef90_D8JRX9	T T A V E K Y Q S S S Q I N F Y K T D I A				
UniRef90_D8JRX9	T T A V E K Y Q S S S Q I N F Y K T D I A				
UniRef90_D8JRX9	T T A V E K Y Q S S S Q I N F Y K T D I A				
UniRef90_A9CHP6	R L V T A Y H D T D K Q R N E E Q K E E T R Y Y Y N V D				
UniRef90_A9CHP6	R L V T A Y H D T D K Q R N E E Q K E E T R Y Y Y N V D				
UniRef90_A9CHP6	R L V T A Y H D T D K Q R N E E Q K E E T R Y Y Y N V D				
UniRef90_A9CHP6	R L V T A Y H D T D K Q R N E E Q K E E T R Y Y Y N V D				
UniRef90_A9CHP6	R L V T A Y H D T D K Q R N E E Q K E E T R Y Y Y N V D				
UniRef90_UP100046B024C	M I N T F T S Y N L I N R D I S R S L L E R V V Q S Q P M V Q R E T E Y Y Y Q E N I G				
UniRef90_UP100046B024C	M I N T F T S Y N L I N R D I S R S L L E R V V Q S Q P M V Q R E T E Y Y Y Q E N I G				
UniRef90_V5SDJ8	UniRef90_V5SDJ8	UniRef90_V5SDJ8	UniRef90_V5SDJ8	UniRef90_V5SDJ8	UniRef90_V5SDJ8
UniRef90_V5SDJ8	S E Q R L R K G S A S M A E A E Y Y Y A A R V A				
UniRef90_V5SDJ8	S E Q R L R K G S A S M A E A E Y Y Y A A R V A				
UniRef90_V5SDJ8	S E Q R L R K G S A S M A E A E Y Y Y A A R V A				
UniRef90_A6FKZ1	G L G G W V F L N A T M D A Q R K A F D A G P R I S S D T A Y Y F E A R I R				
UniRef90_F0L2E4	A E L K E E T R F Y N I A E				
UniRef90_F0L2E4	A E L K E E T R F Y N I A E				
UniRef90_F0L2E4	A E L K E E T R F Y N I A E				

QUERY	V K S I D D F M A D T R L Y N Y A [ ] K A H G L E D M A Y A K A F I R K V L T E G
UniRef90_Q11LL9	K V K S I E E F [ ] A D D R L F R Y A M K A H G L E D M A Y A K A F I R K V L T E G
UniRef90_A6X6R2	K V K S I D D F M A D S R L Y N Y A M K A F G L E D M A F A K A F V R K I L T E E
UniRef90_A9CYK7	E I K S I D E F M A D T R V F N Y A M K A H G L E D M S Y A K A F M R K V L T E E
UniRef90_UP100047C5BDF	E V R S I D D F L A D T R L F R Y A M T A F G L E D M A H A K G M I R K V L T E E
UniRef90_G6YEK7	N V K T I D D F V K D T R L F T Y A M K A Y G L G D M A Y A K A F M V K A L K E E
UniRef90_J2VK17	K V K T I D D L M K D T K L Y N Y A [ ] K A H G L E D M A Y A K A F I K K V L T E E
UniRef90_UP10002F99A50	N V K S I D D F L G D H R L Y S F A M K A H G L E D M I Y A K A Y M R K V L T E E
UniRef90_A0A021XA58	S V K S V D D F F A D A R L Y N Y A M K A H G L E D M A Y A K A F M R K V L T E E
UniRef90_L0NC75	K I K T V D D D F M A D S R I V Y N Y A L K A H G L E D M A Y A K A F I R K V L T E E
UniRef90_W6W8C0	S I K T I D D F M A D T R V Y N Y A L K A H G L E D M A Y A K A F I R K V L T E E
UniRef90_W8I4F8	D I K T I D Q F F A D T R V Y N Y A I K A H G L E D M G Y A K A F M R K V L T E E
UniRef90_F2J4M0	K A K S I D D F L G D D R L F K Y A M K A F G L Q D M D Y A K A F M R K V L T E E
UniRef90_UP100036F69E1	Q I K T V D D F I K N D R I Y R F A M K A F G L E D M T Y A K A F V K K V L K E E
UniRef90_Q07S14	N V T S V E Q F [ ] G D F R L F S Y A M K A Y G L A D M T Y A K A F L R K V L T E E
UniRef90_I4YLQ4	K V K T V D D F M K D Y R L F S Y A M K A Y G L G D M I Y A K A F M K K V L T E E
UniRef90_UP10003A4AEE0	N I K T I D D L L K D T R I F K Y A M K A F G L E D M D Y A K A F M K K A L K E E
UniRef90_B9QS61	N I K S I V D D F M A D D R I V Y R Y A M T A M G L E D M I Y A K A F M R K V L T E E
UniRef90_UP100047CF3CF	T I K S I V E D F M A D R R V Y A F A M Q A F G L G E M T Y A K A F M E K V L T E E
UniRef90_UP100035E3CC0	N V K T I D D F F A D T R L Y N Y A [ ] K A H G L E D M G Y A K A F M R K V L T E E
UniRef90_Q0G108	N I K S S I D E F L A N D R V Y R Y A M K A M G L E D M T Y A K A F M R K V L M E E
UniRef90_U7GIC6	N I K S I D E F L A D D R I F N Y A M T A M G L E D M I Y A K A F I R K V L T E E
UniRef90_UP100035E32A8	K I K T V D A F L K N T R A F T Y A M N A F G L G D M A Y A K G Y M R K V L T E E
UniRef90_B2IK03	K V T T I D G F L L N N R L F T Y A M K A F G L G D M V Y A K G M V R Q I L Q Q
UniRef90_UP100045E7953	K V T S I D G F L K D T R L F T Y A M K A F G L E D M A Y A K G Y M R K V L K E E
UniRef90_X6CUX1	K V K S I D D F V K N D R L F K Y A M K A Y G L E D M D Y A K A F M V K A L K E E
UniRef90_X6CUX1	K V K S I D D F V K N D R L F K Y A M K A Y G L E D M D Y A K A F M V K A L K E E
UniRef90_Q89F18	N V K T I D D F L K D Y R L Y T Y A M K A Y G L S D M T Y A K G L I T K V L T E E
UniRef90_UP1000371D655	K V K S I V S D L L S N S K L Y N Y V M T A F G L S D M T Y A K G L I T K V L E E G
UniRef90_UP10001D2E142	K V Q S V D D F M K N D R L F N Y A M T A F G L G D M T Y A K G M M Q K V L E E G
UniRef90_E8TFX2	K V T S S I D D N L M A D K R L L T F A M A S Y G L D A S T E T P Q Q I R T M L E E G
UniRef90_E8TFX2	K V T S S I D D N L M A D K R L L T F A M A S Y G L D A S T E T P Q Q I R T M L E E G
UniRef90_E8TFX2	K V T S S I D D N L M A D K R L L T F A M A S Y G L D A S T E T P Q Q I R T M L E E G
UniRef90_E8TFX2	K V T S S I D D N L M A D K R L L T F A M A S Y G L D A S T E T P Q Q I R T M L E E G
UniRef90_G8AYY3	K I S S A E E L L K D D K L Y R F V M V A F D L E S Q T Y A R A L I R K V L D Q
UniRef90_L0KGL2	K V K S I D D L M A D K R L L T F A M A S Y G L D A S T E K P L Q I S T M L A G G
UniRef90_L0KGL2	K V K S I D D L M A D K R L L T F A M A S Y G L D A S T E K P L Q I S T M L A G G
UniRef90_L0KGL2	K V K S I D D L M A D K R L L T F A M A S Y G L D A S T E K P L Q I S T M L A G G
UniRef90_B8EK63	K V K S I V D D L M K N Q R L Y A V L K A Y G L S D M A Y A K G L I R K V L T S
UniRef90_G7ZHP8	K V S S T E E F M K D D K L Y R F V L E A F D L G S Q A K S R G L I R K V L E E E
UniRef90_K2NUP7	K V T S I I E E F V S D D R L F R Y A M K A H G L E D M A Y A K A F M V K V L E E E
UniRef90_K2NUP7	K V T S I I E E F V S D D R L F R Y A M K A H G L E D M A Y A K A F M V K V L E E E
UniRef90_UP100047EC011	N V K S V D D L L M A D P R L L T Y A M A A F G L D S T T E P A A T V R A M L E E G
UniRef90_UP100047EC011	N V K S V D D L L M A D P R L L T Y A M A A F G L D S T T E P A A T V R A M L E E G
UniRef90_UP100047EC011	N V K S V D D L L M A D P R L L T Y A M A A F G L D S T T E P A A T V R A M L E E G
UniRef90_X6KRZ4	N V K S I D D L L M G N D R L L T Y A M A A F G L D A D A E P P A A T V R A M L E E G
UniRef90_X6KRZ4	N V K S I D D L L M G N D R L L T Y A M A A F G L D A D A E P P A A T V R A M L E E G
UniRef90_X6KRZ4	N V K S I D D L L M G N D R L L T Y A M A A F G L D A D A E P P A A T V R A M L E E G
UniRef90_X6KRZ4	N V K S I D D L L M G N D R L L T Y A M A A F G L D A D A E P P A A T V R A M L E E G
UniRef90_A81K3	S I T S V D D F V N N Y R V F T Y A M K A Y G L E D M A Y A K A Y M K K V L E S
UniRef90_UP1000418AD5A	T V R T A D D L M K D Y R L Y S F V M K A F G L E E Q I P Y R A L I R Q V I E G
UniRef90_UP100046305AB	N V K S I D D L L M A D K R L L R A A M A A Y G L D V D V E T P K T I R N M L E E G
UniRef90_UP100046305AB	N V K S I D D L L M A D K R L L R A A M A A Y G L D V D V E T P K T I R N M L E E G
UniRef90_UP100046305AB	N V K S I D D L L M A D K R L L R A A M A A Y G L D V D V E T P K T I R N M L E E G
UniRef90_K9GKJ3	N V K S I D D L L M A D K R L L R A A M A A Y G L D V D V E T P K T I R N M L E E G
UniRef90_UP1000308F3E0	U K A S I D E V T D D Y R L W Q S [ ] T A F G L E D Q Y A K A M L K K V I R E
UniRef90_UP1000308F3E0	K V K S I D E F V D N P R L F K Y A M K A F G L E D M S Y A K A F M K K A L K E
UniRef90_UP100047E1103	K V K S I D E F V D N P R L F K Y A M K A F G L E D M S Y A K A F M K K A L K E
UniRef90_UP10003A8139	N V K S A N D L L N N S K L Y S V M K A F G L S D M M N A K G L I R K V L N E E
UniRef90_UP10003A8139	K V K S V D E L L K D D R L F R Y A M K A H G L E D M A Y A K A F M K K V L N E E
UniRef90_A0A011VM84	K V S S I I D E F V K N D R L F K Y A M K A F G L Q D M S Y A R A F M V K A L K E E
UniRef90_A0A011VM84	K V S S I I D E F V K N D R L F K Y A M K A F G L Q D M S Y A R A F M V K A L K E E
UniRef90_A0A017HH68	N V F S V D Q L M E D R E L Y V F T M K A F G L E D D Q I F G K A M V E K I L K S D
UniRef90_UP1000373CD61	N V T S S A A D L V N D R R L L S V A L G A F G L D D D I N N R F F I R K V L E D
UniRef90_E6YH01	G V K S V D D F L A N D K V Y S Y A M K A Y G L E D M I F A K G M I R K V L K E E
UniRef90_H0HNX2	K V K T I D E F V K N D R L F R Y A M K A H G L E D M A Y A K A F M V K A L K E E
UniRef90_H0HNX2	K V K T I D E F V K N D R L F R Y A M K A H G L E D M A Y A K A F M V K A L K E E
UniRef90_K2M7B8	R V T S I D E F V N D D R L F R Y A M K A H G L E D M A Y A K A F M V K V L E E E
UniRef90_K2M7B8	R V T S I D E F V N D D R L F R Y A M K A H G L E D M A Y A K A F M V K V L E E E
UniRef90_D8JRX9	K I A S V S D F I K D T G L Y G F V L S A F G G I D P S K T S K L T I E K V L E S S
UniRef90_D8JRX9	K I A S V S D F I K D T G L Y G F V L S A F G G I D P S K T S K L T I E K V L E S S
UniRef90_D8JRX9	K I A S V S D F I K D T G L Y G F V L S A F G G I D P S K T S K L T I E K V L E S S
UniRef90_D8JRX9	K I A S V S D F I K D T G L Y G F V L S A F G G I D P S K T S K L T I E K V L E S S
UniRef90_A9CHP6	K V G Q V D D I F K N T R L R N Y Y V F K S F G G I D P Q T F D Y Q H L K G V L T S S
UniRef90_A9CHP6	K V G Q V D D I F K N T R L R N Y Y V F K S F G G I D P Q T F D Y Q H L K G V L T S S
UniRef90_A9CHP6	K V G Q V D D I F K N T R L R N Y Y V F K S F G G I D P Q T F D Y Q H L K G V L T S S
UniRef90_A9CHP6	K V G Q V D D I F K N T R L R N Y Y V F K S F G G I D P Q T F D Y Q H L K G V L T S S
UniRef90_UP100046B024C	R V T S I E E F V N D D R L F R Y A M K A H G L D D M A Y A K A F M V K V L E E E
UniRef90_UP100046B024C	R V T S I E E F V N D D R L F R Y A M K A H G L D D M A Y A K A F M V K V L E E E
UniRef90_V5SDJ8	T L T S S V D D Q L V A D P R L F A Y A L T A Y D I D A T I A S E P F I R A V L T S S S
UniRef90_V5SDJ8	T L T S S V D D Q L V A D P R L F A Y A L T A Y D I D A T I A S E P F I R A V L T S S S
UniRef90_V5SDJ8	T L T S S V D D Q L V A D P R L F A Y A L T A Y D I D A T I A S E P F I R A V L T S S S
UniRef90_A6FKZ1	D I S T A E E L V N D R R L L R V A L G A F G G I Q D D I D S R F L I R K V L E G
UniRef90_F0L2E4	K V G H V D D I F K N T R V R D Y I F K S F F G I D P E T F S Y K H V K N V L T S S S
UniRef90_F0L2E4	K V G H V D D I F K N T R V R D Y I F K S F F G I D P E T F S Y K H V K N V L T S S S
UniRef90_F0L2E4	K V G H V D D I F K N T R V R D Y I F K S F F G I D P E T F S Y K H V K N V L T S S S

QUERY	90	100	110	120
UniRef90_Q11LL9	G A S D K N A F A N K L	S D N R Y A E L A K S L D F A G L	G A A T A T E A A K	
UniRef90_A6X6R2	G I D D E D S F V N K L	T D K R Y K D F V D T F N F A R Y G E K T T F H S S T		
UniRef90_A9CYK7	G I T S D D A M A N K L	T D K R Y K E F A T V F D F A G K G A E A T E S T A A Q		
UniRef90_UP100047C5BDF	G T D D D N A F A N Q L	A D T R Y R D F A E A F N F A R H G E T A T I F T S A Q		
UniRef90_G6YEK7	G V E D K K S F A N R L	N D P R F K E F A Q V F N F A R D G E A T T Q T N A A R		
UniRef90_J2VK17	G V A D E D S F A N K L	T D K R Y A A F V K A F N F A A Y G E T A T L F P A A Q		
UniRef90_UP10002F99A50	G I E D R D S F A N K L	D T R Y K E F A T A F N F A R Y G A T T T V F S S T R		
UniRef90_A0A021XA58	G V D D D S K S F A N R L	A D K R F V E F T K T F N F A R Y G A T T T V F S S T R		
UniRef90_L0NC75	G V D D D K A A F A N Q L	S D T R Y K E L A Q S L N F A R H G E V A T T F E R A Q		
UniRef90_W6W8C0	G V A D S E A F A R K L	A D S R Y A A L A E T F N F E A H G A A A T A F E K A Q		
UniRef90_W8I4F8	G T D N E A D F A N Q L	S D S R Y A Q L A E S L N F A F G T T A T S F D K A Q Q		
UniRef90_F2J4M0	G V D D N E D A F A N Q L	T D S R Y Q K L A E S L N F A L H G E A A T S F D R A Q Q		
UniRef90_UP100036F69E1	G T D D D R N S F A N K L	A D D R Y R Q F A E T F N F T R Y G D A A T A F T R A Q Q		
UniRef90_Q07SI4	G I S D S K A F A N T L	T D K R F K E L A S T F N F A A N G E T T T Q A A A D T Q		
UniRef90_I4YLQ4	G V A D P S S F A N K L	V D T R Y R E F A A A F N F A S L G E Q A T R T T T A A T		
UniRef90_UP10003A4AEE0	G V A D T K S M A N K L	D P R Y K E F A K A F D F A G K G D K A T S Q A S A T		
UniRef90_B9QS61	G V D D S R S F A N K L	S D K R Y A Q F V T A F D F K V Y E E L T T T R P E V K		
UniRef90_UP100047CF3CF	G T A S R A A F A N Q L	A D S K Y R N F A E T F N F N F A N Y G E T A T S F S R T Q		
UniRef90_UP100035E3CC0	G I S D D E S F A N S L	S D P R Y R E F A K A F N F E S F G G S A A T S F D R A Q Q		
UniRef90_Q0G108	G I S D D D A F A K Q L	L D V E S L N F A R H G E T S A T S F D K A Q Q		
UniRef90_U7GIC6	G I D D D R E A F A N K L	T D S R Y K D F A E T F N F K R Y G E T T T S F A R T Q		
UniRef90_UP100035E32A8	G T D E R G A F A N Q L	A D T K Y K N F A E T F N F K R Y G E T T T S F A R T Q		
UniRef90_B2IK03	G I T D K K S F A N R L	N D E R F V A F A K A F D F D S Y G P L T T T R A A A R		
UniRef90_UP100045E7953	G T S D P R A L A N T L	N D S R Y K A L A Q T F D F A N L G A N A T S T T A G G		
UniRef90_X6CUX1	G V T D P K S F A N K L	N D D R F K A F A K V F D F K G L G A A A T Q S S E A G		
UniRef90_X6CUX1	G V S N P D S F A N K L	T D K R Y A E F V S A F N F A A N G A N A T I Y N K T Q		
UniRef90_Q89F18	G V S N P D S F A N K L	T D K R Y A E F V S A F N F A A N G A N A T I Y N K T Q		
UniRef90_UP1000371D655	G V S S S T A L A N T L	N D P R Y K A L A T A F N F A A N G A T T T S S S T T V		
UniRef90_UP10001D2E142	G V S D N S A L A N T L	N N A N I K A F A T A F D F A D N G A S T T T S S S T L V		
UniRef90_E8TFX2	G V S D P E S P A N K L	T D K R Y A N F V T A F N F A Q Y G D Q T T S S R D E V Q		
UniRef90_E8TFX2	G V S D P E S P A N K L	T D K R Y A N F V T A F N F A Q Y G D Q T T S S R D E V Q		
UniRef90_E8TFX2	G V S D P E S P A N K L	T D K R Y A N F V T A F N F A Q Y G D Q T T S S R D E V Q		
UniRef90_E8TFX2	G V S D P E S P A N K L	T D K R Y A N F V T A F N F A Q Y G D Q T T S S R D E V Q		
UniRef90_G8AYY3	G V K D P E A L A N R M N D A K F K E M A T V L S F K E T G G A T L K E P A I V			
UniRef90_L0KGL2	G V S D P N S P A N K L	T D K R Y A N F V T A F N F A Q Y G D Q T T S S R D E V Q		
UniRef90_L0KGL2	G V S D P N S P A N K L	T D K R Y A N F V T A F N F A Q Y G D Q T T S S R D E V Q		
UniRef90_L0KGL2	G V S D P N S P A N K L	T D K R Y A N F V T A F N F A Q Y G D Q T T S S R D E V Q		
UniRef90_L0KGL2	G V S D P N S P A N K L	T D K R Y A N F V T A F N F A Q Y G D Q T T S S R D E V Q		
UniRef90_B8EK63	D V T D G A S L A N T L	S G G R Y K A L A A Y N F S A K G A V G T I S A E A Q		
UniRef90_G7ZHP8	G V S D Q Y S T A N R M S D T K F R E M A T I L G F A E T G G A N L K Q P A V V			
UniRef90_K2NUP7	G I S D P E S F A N K L	L T D K R Y V E F A R T Y N F V A G G A T T T S Y V P A Q		
UniRef90_K2NUP7	G I S D P E S F A N K L	L T D K R Y V E F A R T Y N F V A G G A T T T S Y V P A Q		
UniRef90_UP100047EC011	G V S D P N S P A N K L	L T D K S Y A N F V S A F D F A Q Y G D Q T T T R T D V Q		
UniRef90_UP100047EC011	G V S D P N S P A N K L	L T D K S Y A N F V S A F D F A Q Y G D Q T T T R T D V Q		
UniRef90_UP100047EC011	G V S D P N S P A N K L	L T D K S Y A N F V S A F D F A Q Y G D Q T T T R T D V Q		
UniRef90_UP100047EC011	G V S D P N S P A N K L	L T D K S Y A N F V S A F D F A Q Y G D Q T T T R T D V Q		
UniRef90_X6KRZ4	G V T D P N S P A N T S T N K G Y A A F V A A A F D F A Q Y G D Q A T A R D A V Q			
UniRef90_X6KRZ4	G V T D P N S P A N T S T N K G Y A A F V A A A F D F A Q Y G D Q A T A R D A V Q			
UniRef90_X6KRZ4	G V T D P N S P A N T S T N K G Y A A F V A A A F D F A Q Y G D Q A T A R D A V Q			
UniRef90_X6KRZ4	G V T D P N S P A N T S T N K G Y A A F V A A A F D F A Q Y G D Q A T A R D A V Q			
UniRef90_A816K3	D L T D D S S F A N S L S D G R F K A F A Q A F Q S L T Y G E A V S S D T V			
UniRef90_UP1000418AD5A	G T Q D P K S L A N R M T N K V Y A E L A D T L N S K D D A A K L T D P K E I			
UniRef90_UP100046305AB	G V T D P N S P A N K L T D K S Y A N F V T A F N F V Q Y G D T T T S R D A V Q			
UniRef90_UP100046305AB	G V T D P N S P A N K L T D K S Y A N F V T A F N F V Q Y G D T T T S R D A V Q			
UniRef90_UP100046305AB	G V T D P N S P A N K L T D K S Y A N F V T A F N F V Q Y G D T T T S R D A V Q			
UniRef90_K9GKJ3	G A T D R E A M A N Q M V D P R Y K E L A S F F E Y D K L G M L N A Q S P K W V			
UniRef90_UP1000308F3E0	G I S D P D S F A N K L T D K R Y A E F V S A F N F A D H G S E A T V Y N K A Q			
UniRef90_UP1000308F3E0	G I S D P D S F A N K L T D K R Y A E F V S A F N F A D H G S E A T V Y N K A Q			
UniRef90_UP100047E1103	G V A S A N K S L A N T L N D P R Y K A L A T A F N F A A N G A A T T Q A T A A Q			
UniRef90_UP10003A8139	G I A K P G A F A N K L T D K R Y A E F V K S F N F A E L G A N A T T Y N Q T Q			
UniRef90_UP10003A8139	G I A K P G A F A N K L T D K R Y A E F V K S F N F A E L G A N A T T Y N Q T Q			
UniRef90_A0A011VM84	G V T D P D S F A N K L T D K R Y A E F V S T F D F A R H G D A A T I Y N K A Q			
UniRef90_A0A011VM84	G V T D P D S F A N K L T D K R Y A E F V S T F D F A R H G D A A T I Y N K A Q			
UniRef90_A0A017HH68	G V T D P D S F A N K L T D K R Y A E F V S T F D F A R H G D A A T I Y N K A Q			
UniRef90_UP1000373CD61	G T I K D D A L A N R L A D N R Y A E F S R A F G F G D R P V R T I L S G F A			
UniRef90_E6YH01	G S D P Q Y A S Q L V D K R Y Q Q F A E A F N F S K Y G E K A T Q R E S A K			
UniRef90_H0HNX2	G I S N P E S F A N K L T D K R Y A E F V K S F N F A A Y G E L A T V Y N K A Q			
UniRef90_H0HNX2	G I S N P E S F A N K L T D K R Y A E F V K S F N F A A Y G E L A T V Y N K A Q			
UniRef90_K2M7B8	G I S D P E S F A N K L T D K R Y A D F A R T Y N F A A G G A N T T T Y N P T Q			
UniRef90_K2M7B8	G I S D P E S F A N K L T D K R Y A D F A R T Y N F A A G G A N T T T Y N P T Q			
UniRef90_D8JRX9	D A S N P S S Y A N M S H N S A Y S K L A A A F N F D A D G K A K T A S S A Q V			
UniRef90_D8JRX9	D A S N P S S Y A N M S H N S A Y S K L A A A F N F D A D G K A K T A S S A Q V			
UniRef90_D8JRX9	D A S N P S S Y A N M S H N S A Y S K L A A A F N F D A D G K A K T A S S A Q V			
UniRef90_D8JRX9	D A S N P S S Y A N M S H N S A Y S K L A A A F N F D A D G K A K T A S S A Q V			
UniRef90_A9CHP6	D I S K A D S Y V N S L R D Q R T K E L A A T F N F R A D G N D G T K A Q T A V			
UniRef90_A9CHP6	D I S K A D S Y V N S L R D Q R T K E L A A T F N F R A D G N D G T K A Q T A V			
UniRef90_A9CHP6	D I S K A D S Y V N S L R D Q R T K E L A A T F N F R A D G N D G T K A Q T A V			
UniRef90_A9CHP6	D I S K A D S Y V N S L R D Q R T K E L A A T F N F R A D G N D G T K A Q T A V			
UniRef90_UP100046B024C	G I S D P D S F A N K L T D K R Y V E F A R T Y N F A A G G V D T T N Y N P A Q			
UniRef90_UP100046B024C	G I S D P D S F A N K L T D K R Y V E F A R T Y N F A A G G V D T T N Y N P A Q			
UniRef90_V5SDJ8	D L G D P D S V A N A I D D V R Y Y Q R L A A A F S F E A D G S V A A Q T L E Q L			
UniRef90_V5SDJ8	D L G D P D S V A N A I D D V R Y Y Q R L A A A F S F E A D G S V A A Q T L E Q L			
UniRef90_V5SDJ8	D L G D P D S V A N A I D D V R Y Y Q R L A A A F S F E A D G S V A A Q T L E Q L			
UniRef90_A6FKZ1	G T A D P D A L A N R L T D R R Y Y Q R L A D A F G F G A T G G P E T Q S P G F G			
UniRef90_F0L2E4	D I S N A D S Y I N K T Y K P E W K A K A D L R I E R A G V A S T D K P A L			
UniRef90_F0L2E4	D I S N A D S Y I N K T Y K P E W K A K A D L R I E R A G V A S T D K P A L			
UniRef90_F0L2E4	D I S N A D S Y I N K T Y K P E W K A K A D L R I E R A G V A S T D K P A L			

130                  140                  150                  160

QUERY	S G V I G N Y A R Q T L E Q E A G D D N N G V R L A L Y F E R K A P T I K S G L
UniRef90_Q11LL9	T G T V E K Y L R Q T L E E D A G N Q N E G V R L A L Y F Q R K A G S I L K S Y Y
UniRef90_A6X6R2	Q G V D K Y L R Q T L E T E A G S Q N E G V R L A L Y F F A R K A P T I T N A Y
UniRef90_A9CYK7	Q G T V D K Y H R L T L E E E A G A D N T G V R L A L Y F F E R K A P E I T S A Y
UniRef90_UP100047C5BDF	Q G V D R Y V R Q T M E V T A G E E N E G V R L A L Y F F Q R S A P E I V T S A Y
UniRef90_G6YEK7	Q D T V D K Y M R Q T L E E N A G E T G K Q S D G A R L A L Y F F D R K A S S I T N W Y
UniRef90_J2VK17	K P V V D S Y V Q M T L E Q E T G K Q S D G A R L A L Y F F S R K A A S I T N A Y
UniRef90_UP10002F99A50	E G T V E R Y V R Q Q L L E E D A G A Q N E G V R L A L Y F F A R K A P E I K S V Y
UniRef90_A0A021XA58	K G V V D K Y T R Q T L L E E E A G A D N P G V R L A L Y F F E R M A T S I K S G M
UniRef90_L0NC75	K G V V E R Y T R Q T L L E E E A G A D N M G V R L A L Y F F E R T A P T I K S G M
UniRef90_W6W8C0	K G V V D K F Q R Q T L L E E D A G A D N M G V R L A L Y F F E R M A P S I S S G Y
UniRef90_W8I4F8	K G V V D K Y A R Q T L L E E Q S A G E D N T G V R L A L Y F F A R M A P S I K S G M
UniRef90_F2J4M0	Q G V V D A Y V R Q S L L E I Q N G E E N E G V R L A L Y F F S R K A E T I D S A Y
UniRef90_UP100036F69E1	Q G T V D R F M R I S L L E Q R S G E Q N E G V R L A L Y F F A R K A P T I S S T L
UniRef90_Q07S14	S G T V E R Y V R Q S L L E Q D A G E T D Q G V Q L A L Y F F E R K A P T I K T A Y
UniRef90_I4YLQ4	T E A V S K Y Y Q Q T L L E N K E G E Q N E G V R L A L Y F F K R K A S S I V T S T M
UniRef90_UP10003A4AEE0	Q P V V D A Y V R Q T L L E V N S G N Q N E A V R L A L Y F F N R K S S S I K G P F
UniRef90_B9QS61	E G I V D K F H R Q T L L E E V K E G Q D N E G V R L A L Y F F E R K A S E I T G P F
UniRef90_UP100047CF3CF	G E V V D K Y L R Q T L L E E G Q D N E G V R L A L Y F F Q R K A P D I T S Y L
UniRef90_UP100035E3CC0	K G V I D K Y A R Q T L L E E Q N A G E E N S G V R L A L Y F A R M A P S I T T A Y
UniRef90_Q0G108	Q G I V D K Y V R Q T L L E E E N T G T E S E G A R L A L Y F F E R K A S T I V T S Y Y
UniRef90_U7GIC6	D A I V Q K Y H R Q T L L E E V R E G E Q N Q G V R L A L Y F F E R R A P D I T N A Y
UniRef90_UP100035E32A8	Q D V A D A Y V R Q T L L E E V D A G A E N E G V R L A L Y F F E R E A P K V K S A Y
UniRef90_B2IK03	Q N V V D K Y V E M Q L L E D N V G K N S P G A E M A L Y L K R V A P T I T S A Y
UniRef90_UP100045E7953	Q K V V D R Y V R Q A L L E A D Q G A S N E G V Q L A L Y F F Q R Q A P T I V K S V Y
UniRef90_X6CUX1	Q M V T K N Y A T Q A A I A G L D P A S A Y V G E T T Y Y L A N I T K V K S I D
UniRef90_X6CUX1	Q M V T K N Y A T Q A A I A G L D P A S A Y V G E T T Y Y L A N I T K V K S I D
UniRef90_Q89F18	T G T A T Q Y V T Q T M E Q K A G D Q N E G L R L A L Y F T R K A S T I T N A Y
UniRef90_UP1000371D655	Q T T V T V N N Y V E Q T L L E N N V G K Q S P G T Q L A L Y F Q R V A P T I S S T Y
UniRef90_UP10001D2E142	D N V V S R Y A E Q S L L E D N Q G Q Q N P G V Q L A L Y F Q R N A P S I T S V Y
UniRef90_E8TFX2	K D T P K I Y T T L E S A L G L I A P N A S E T A Y Y L A N V T N V K S V D
UniRef90_E8TFX2	K D T P K I Y T T L E S A L G L I A P N A S E T A Y Y L A N V T N V K S V D
UniRef90_E8TFX2	K D T P K I Y T T L E S A L G L I A P N A S E T A Y Y L A N V T N V K S V D
UniRef90_E8TFX2	K D T P K I Y T T L E S A L G L I A P N A S E T A Y Y L A N V T N V K S V D
UniRef90_G8AYY3	K A I V D R Y V D V S L E V K A E E S N P A V R L A L Y F D R K A P R I T N W Y
UniRef90_L0KGL2	K D T P K I Y T T G S A L G N A D S I K S E T A Y Y L A N V T N V K S I D
UniRef90_L0KGL2	K D T P K I Y T T G S A L G N A D S I K S E T A Y Y L A N V T N V K S I D
UniRef90_L0KGL2	K D T P K I Y T T G S A L G N A D S I K S E T A Y Y L A N V T N V K S I D
UniRef90_L0KGL2	K D T P K I Y T T G S A L G N A D S I K S E T A Y Y L A N V T N V K S I D
UniRef90_B8EK63	K T T K D K N Y V E Q T L L E A N V G K Q N D G A K M A L Y F K R I A P T V K S A Y
UniRef90_G7ZHP8	Q A I V D R Y V D V T L L E V D S E A T N P A V R L G L Y F Q R R S G N I T N W Y
UniRef90_K2NUP7	T G T I D K Y L S V T A I G N G G V S T N D P Q L L D D I Y Y L L S K I V D V K S A D
UniRef90_K2NUP7	T G T I D K Y L S V T A I G N G G V S T N D P Q L L D D I Y Y L L S K I V D V K S A D
UniRef90_UP100047EC011	Q V P N G Y M A G A G L T L V K P S A Q Y I G E A D Y Y A A N I S K V T S I D
UniRef90_UP100047EC011	Q V P N G Y M A G A G L T L V K P S A Q Y I G E A D Y Y A A N I S K V T S I D
UniRef90_UP100047EC011	Q V P N G Y M A G A G L T L V K P S A Q Y I G E A D Y Y A A N I S K V T S I D
UniRef90_UP100047EC011	Q V P N G Y M A G A G L T L V K P S A Q Y I G E A D Y Y A A N I S K V T S I D
UniRef90_X6KRZ4	Q A V P K A V I G G T L L V K P T A Q Y I K G E A D Y Y A A N I S K V K S I E
UniRef90_X6KRZ4	Q A V P K A V I G G T L L V K P T A Q Y I K G E A D Y Y A A N I S K V K S I E
UniRef90_X6KRZ4	Q A V P K A V I G G T L L V K P T A Q Y I K G E A D Y Y A A N I S K V K S I E
UniRef90_X6KRZ4	Q A V P K A V I G G T L L V K P T A Q Y I K G E A D Y Y A A N I S K V K S I E
UniRef90_A816K3	S T V E T K Y A Q Q T M E D N A G A S D T G V Q L A L Y F K R N A S T I T S A Y
UniRef90_UP1000418AD5A	E A L V G R F V T S G I E A E Q G E K N V G V R L A M Y F Q R K A P T I T S W Y
UniRef90_UP100046305AB	K D T L K L F S T K S S L G M I K P G A A E T A Y Y N A N V V K L T S I D
UniRef90_UP100046305AB	K D T L K L F S T K S S L G M I K P G A A E T A Y Y N A N V V K L T S I D
UniRef90_UP100046305AB	K D T L K L F S T K S S L G M I K P G A A E T A Y Y N A N V V K L T S I D
UniRef90_K9GKJ3	D K L V E K Y E T A Q F E K A V G E S N E N L R L A M Y F E R R K V K S V K S W Y
UniRef90_UP1000308F3E0	Q L A V E N F R A Q A V I R G I D P N S D E V K A A Q Y Y L H I V D V K S I D
UniRef90_UP1000308F3E0	Q L A V E N F R A Q A V I R G I D P N S D E V K A A Q Y Y L H I V D V K S I D
UniRef90_UP100047E1103	Q G T V E K Y V E Q T L E T D A G K Q N P A V Q K A L Y F Q R M A P N I T S A Y
UniRef90_UP10003A83139	K G A V D K Y L A A K L G G G D P T S D A T K A E V K Y Y L D N I V K V K S S K
UniRef90_UP10003A83139	K G A V D K Y L A A K L G G G D P T S D A T K A E V K Y Y L D N I V K V K S S K
UniRef90_A0A011VM84	Q A T T G N Y A I Q A A I D E I D P A T V K A E Y Y M S R I A G V K S I D
UniRef90_A0A011VM84	Q A T T G N Y A I Q A A I D E I D P A T V K A E Y Y M S R I A G V K S I D
UniRef90_A0A017HH68	Q A T T G N Y A I Q A A I D E I D P A T V K A E Y Y M S R I A G V K S I D
UniRef90_UP1000373CD61	S D M V D R Y V E Q R F F E S A Q A E Q N E K V G T V L E F R R K A G E I K N W F
UniRef90_E6YH01	S E M T T R Y E K R Q F E R A V G V Q N N D L R L A L N L Q S G I A D I V S W F
UniRef90_H0HNX2	T V I T V N K Y M Q Q T L E V E A G Q V N E G T R L A L Y F T R T V G G M V K A Y
UniRef90_H0HNX2	Q G A V T N Y Q A Q A A I A G V D P T S A A V Q E V T Y Y L A N I V K V K S I D
UniRef90_K2M7B8	Q G A V T N Y Q A Q A A I A G V D P T S A A V Q E V T Y Y L A N I V K V K S I D
UniRef90_K2M7B8	K G T V D K Y V S L A I R N G V D P G S E A L L K D I N Y Y L Q N I S Q V K S A D
UniRef90_D8JRX9	K G T V D K Y V S L A I R N G V D P G S E A L L K D I N Y Y L Q N I S Q V K S A D
UniRef90_D8JRX9	N A T I K L Y N S E M G D A K A E K K Q T S D E D T Y Y G N T I G T I K S V D
UniRef90_D8JRX9	N A T I K L Y N S E M G D A K A E K K Q T S D E D T Y Y G N T I G T I K S V D
UniRef90_D8JRX9	N A T I K L Y N S E M G D A K A E K K Q T S D E D T Y Y G N T I G T I K S V D
UniRef90_D8JRX9	N A T I K L Y N S E M G D A K A E K K Q T S D E D T Y Y G N T I G T I K S V D
UniRef90_A9CHP6	Q K T N E N Y V A N P R V T Q T G A I L N R D F F F V Q A M K D V T D A G
UniRef90_A9CHP6	Q K T N E N Y V A N P R V T Q T G A I L N R D F F F V Q A M K D V T D A G
UniRef90_A9CHP6	Q K T N E N Y V A N P R V T Q T G A I L N R D F F F V Q A M K D V T D A G
UniRef90_A9CHP6	Q K T N E N Y V A N P R V T Q T G A I L N R D F F F V Q A M K D V T D A G
UniRef90_UP100046B024C	K G T V D K Y L T R A I K N G T A P N D P A L G S I N N Y L A K I P D I K S V D
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UniRef90_V5SDJ8	A R T V E L Y Y E E T F R T T V F D T L A G G I T N V D
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UniRef90_F0L2E4	A K I D Y L I S Q Y N K R I N D A N
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170      180      190      200

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UniRef90_A9CYK7	E I L A D N A L A D V V R T A L G L P S D I D K Q A D L I N S R I D L E D F K D	
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UniRef90_L0NC75	E I L A D D A L L V E V I R T V L Q L P M D V D R Q A E F I E D S I D V A D F Q D D	
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UniRef90_UP100036F69E1	G I L A D K A L L K V A Q T A L N I P A D I D K Q A E M Y A K R I D V A D F K D	
UniRef90_Q07S14	Q I L A D K A L L L Q V A Q T T L G I S A S I D R Q A A M L A K K I D F S D F Q H	
UniRef90_I4YLQ4	G L L A D K G L L T V M Q T T F N I P A S I D L Q V R N L E K H I N V K D F Q D	
UniRef90_UP10003A4AEE0	D I L S D R A L T K V V Y T S L G L P A N I D K Q A D F L K Q R L N F D D F K D D	
UniRef90_B9QS61	D I L A D R A L A E T V R T A L G L P T D I D K Q A E Y F D K H D Y E K L S D D	
UniRef90_UP100047CF3CF	Q I L A Q P A I A T V V R T A L G L P L D L D K Q V E I L S A K I D L A E F Q S	
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UniRef90_UP100035E32A8	G L L A D P A L W K V L K T V Y G F P A A I E K Q A A A V T Q R L D L S D L Q D D	
UniRef90_B2IK03	S I L A D K T L L Q I V Q T T F N L P S D I D V Q A K M I N S K M K I S D L Q D	
UniRef90_UP100045E7953	G L L A D P A L W K V V K T I Y F D P A P E K Q A K A V K A Q L N A D L K E	
UniRef90_X6CUX1	D L M S N D R L Y T Y A L A S F G L D S A T E D K D L I K R V L Q G G G V R D	
UniRef90_X6CUX1	D L M S N D R L Y T Y A L A S F G L D S A T E D K D L I K R V L Q G G G V R D	
UniRef90_Q89F18	Q I L A D K A L T Q V V Q T A M G W S S D I D A Q A K M I T D K I D L T D F Q D	
UniRef90_UP1000371D655	G I L A D K Q L L S S V V Q T A L G L S S N I I D M Q M A Q Q L S N L V N I S D F Q N	
UniRef90_UP10001D2E142	G I L A D S K I L L S S V V Q T A L G I S Q S I D S Q A A M T S K L D I T D F Q D	
UniRef90_E8TFX2	D L M A N S R L Y N Y V L S A Y G L	
UniRef90_E8TFX2	D L M A N S R L Y N Y V L S A Y G L	
UniRef90_E8TFX2	D L M A N S R L Y N Y V L S A Y G L	
UniRef90_E8TFX2	D L M A N S R L Y N Y V L S A Y G L	
UniRef90_G8AYY3	Q V M A D R A L Q K V V I F T A L D I P E D L D R L V D K L K K R F D I A D F K D	
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UniRef90_L0KGL2	D L M A N S R L Y N Y A L S A Y G L	
UniRef90_L0KGL2	D L M A N S R L Y N Y A L S A Y G L	
UniRef90_L0KGL2	D L M A N S R L Y N Y A L S A Y G L	
UniRef90_B8EK63	G I L A D K T L L G V V Q T A F G L S A N I D V Q A K T I N A L F K I G D L Q N	
UniRef90_G7ZHP8	Q V M A D N A L R K V V Y T A L G L P L N V D K Q K A L L E K R M D I A D L K N	
UniRef90_K2NUP7	D L I A D N R L L S V A M L A H G F T T E V S K Q K E V L E G G I D N A D S S	
UniRef90_K2NUP7	D L I A D N R L L S V A M L A H G F T T E V S K Q K E V L E G G I D N A D S S	
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UniRef90_UP100047EC011	D L M A D K R L L T F A M A S Y G L	
UniRef90_UP100047EC011	D L M A D K R L L T F A M A S Y G L	
UniRef90_UP100047EC011	D L M A D K R L L T F A M A S Y G L	
UniRef90_X6KRZ4	D L L K D K R L L T F A M A A Y G L	
UniRef90_X6KRZ4	D L L K D K R L L T F A M A A Y G L	
UniRef90_X6KRZ4	D L L K D K R L L T F A M A A Y G L	
UniRef90_X6KRZ4	D L L K D K R L L T F A M A A Y G L	
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UniRef90_K9GKJ3	Q I L G D K A M Y Q V A L K M G G L P V D I D K Q A E Y F K D K L P L E D L K D	
UniRef90_UP1000308F3E0	D L M A D D Q L F A Y A A T A F G M D P E V D T K D F L R K I L E G G G V R D	
UniRef90_UP1000308F3E0	D L M A D D Q L F A Y A A T A F G M D P E V D T K D F L R K I L E G G G V R D	
UniRef90_UP100047E1103	S I L A D K T L L N V V Q T A L G L S S P L D T Q A K A I T K A L K I S D L Q N	
UniRef90_UP10003A83139	D L L A D D R L Y T F A M K A F G L S S S I P N K E M M A K V L D	
UniRef90_A0A011VM84	D L F G D A R L Y N Y A M R A Y A L D P E T E S P E T M R K V L E G G M S D	
UniRef90_A0A011VM84	D L F G D A R L Y N Y A M R A Y A L D P E T E S P E T M R K V L E G G M S D	
UniRef90_A0A017HH68	UniRef90_UP1000373CD61	D V L K D K D L S E F M R T A L G V P A D I D K Q A D L F R Q K F D L A D F K N D
UniRef90_E6YH01	S M M G N T P L R K V F E T A L G L P A D I D K Q R D I F K S R A Q M A D F S D	
UniRef90_H0HNX2	Q I L S D K A L S A V V F K A F N I S S P I E S Q K S L L E S R M S L K D L Q D D	
UniRef90_H0HNX2	D L M S N D R L V R F A L A G F G L N D T E E N K D I A K A V L E G G G L R D	
UniRef90_K2M7B8	D L M S N D R L V R F A L A G F G L N D T E E N K D I A K A V L E G G G L R D	
UniRef90_K2M7B8	H I L A D D K L L T F A M V A H G F T D E I D K R A A L L E E G G V D D P K S S	
UniRef90_D8JRX9	H I L A D D K L L T F A M V A H G F T D E I D K R A A L L E E G G V D D P K S S	
UniRef90_D8JRX9	E F I L K N K R L V T F A L T A F D L Q D K A L S N D T L R K I L T S D P T D D	
UniRef90_D8JRX9	E F I L K N K R L V T F A L T A F D L Q D K A L S N D T L R K I L T S D P T D D	
UniRef90_D8JRX9	E F I L K N K R L V T F A L T A F D L Q D K A L S N D T L R K I L T S D P T D D	
UniRef90_D8JRX9	E F I L K N K R L V T F A L T A F D L Q D K A L S N D T L R K I L T S D P T D D	
UniRef90_A9CHP6	Q I L T A N S R L R T M L I V A F N L	
UniRef90_A9CHP6	Q I L T A N S R L R T M L I V A F N L	
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UniRef90_UP100046B024C	D L M G D Q D M L T F A L M A H G F E V D E V I D L K F L R S I L E I D D P E S	
UniRef90_V5SDJ8	D F I L A K P I L R D Y A L V A V G G L D P I Y V S D A M V R D A L T S D L G D	
UniRef90_V5SDJ8	D F I L A K P I L R D Y A L V A V G G L D P I Y V S D A M V R D A L T S D L G D	
UniRef90_V5SDJ8	D F I L A K P I L R D Y A L V A V G G L D P I Y V S D A M V R D A L T S D L G D	
UniRef90_V5SDJ8	D F I L A K P I L R D Y A L V A V G G L D P I Y V S D A M V R D A L T S D L G D	
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210

220

QUERY P E K | V G K | L | E R F T | M W E M Q N P  
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UniRef90\_A9CYK7 P E K | L | D K | F | L | N R F T A | L | W E L | Q N P  
UniRef90\_UP100047C5BDF P E K | L | S K | L | L | Q R F T A M W D V  
UniRef90\_G6YEK7 P E K | L | S K | F | L | T R F T S M W E I | N N P  
UniRef90\_J2VK17 P K | V | E K | L | L | V R F T A M Y D M A N P  
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UniRef90\_Q07SI4 P T | K | L | R | A | F | L | Q R F S A R W E T E  
UniRef90\_I4YLQ4 P K | K | V | D | K | L | I | Q R F S A M W D M N N  
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UniRef90\_E8TFX2  
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UniRef90\_B8EK63 P A | K | L | Q | K | L | I | Q | R | F | T | A | N | Y | D | A | Q | H | P  
UniRef90\_G7ZHP8 P E | K | V | A | K | F | L | D | R | F | A | A | M | Y | D | M | Q | N  
UniRef90\_K2NUP7 P A | K | L | E | D | K | R | F | A | A | L |  
UniRef90\_K2NUP7 P A | K | L | E | D | K | R | F | A | A | L |  
UniRef90\_UP100047EC011  
UniRef90\_UP100047EC011  
UniRef90\_UP100047EC011  
UniRef90\_UP100047EC011  
UniRef90\_X6KRZ4  
UniRef90\_X6KRZ4  
UniRef90\_X6KRZ4  
UniRef90\_X6KRZ4  
UniRef90\_A816K3  
UniRef90\_UP1000418AD5A P D | Y | V | D | K | L | L | K | Q | F | S | I | K | Y | D | I | E | N  
UniRef90\_UP100046305AB P K | K | V | G | A | L | L | Q | R | F | A | I | F | T | D | M | D |  
UniRef90\_UP100046305AB P  
UniRef90\_UP100046305AB P  
UniRef90\_UP100046305AB P  
UniRef90\_K9GKJ3 P K | K | L | E | K | L | L | Q | S | F | L | A | R | A | D | A | E  
UniRef90\_UP1000308F3E0 P D | S | L |  
UniRef90\_UP1000308F3E0 P D | S | L |  
UniRef90\_UP100047E1103 P A | K | L | Q | K | F | I | E | R | Y | T | A | T | Y | D | S | Q | N  
UniRef90\_UP10003A83139  
UniRef90\_A0A011VM84 P K | S | L | A | N | T | L | E  
UniRef90\_A0A011VM84 P K | S | L | A | N | T | L | E  
UniRef90\_A0A017HH68 P A | E | L | E | K | L | E | R | K | Y | V | A | I | S | D | A | K  
UniRef90\_UP1000373CD61 P A | Q | Q | E | K | L | I | R | M | F | L | V | R | S | E  
UniRef90\_E6YH01 P K | K | L | E | H | L | I | A | K | F | S | A | M | Y | D | V | Q | N  
UniRef90\_H0HNX2 P D | S | L | A | N | T | M | K | T | F | V | A | F | A | S | M | Y | N  
UniRef90\_H0HNX2 P D | S | L | A | N | T | M | K | T | F | V | A | F | A | S | M | Y | N  
UniRef90\_K2M7B8 P A | N | Q | Q | S | D | K | R | F | L | A | L |  
UniRef90\_K2M7B8 P A | N | Q | Q | S | D | K | R | F | L | A | L |  
UniRef90\_D8JRX9 P K | S | F |  
UniRef90\_A9CHP6  
UniRef90\_A9CHP6  
UniRef90\_A9CHP6  
UniRef90\_A9CHP6  
UniRef90\_A9CHP6  
UniRef90\_UP100046B024C P A | N | Q | T | E | D | K | R | Y | R | A | L | A | E | A | F | N  
UniRef90\_UP100046B024C P A | N | Q | T | E | D | K | R | Y | R | A | L | A | E | A | F | N  
UniRef90\_V5SDJ8 P D | S | F | A | N | S | S | D | S | Y | R | L | L | A | S | L | F | N  
UniRef90\_V5SDJ8 P D | S | F | A | N | S | S | D | S | Y | R | L | L | A | S | L | F | N  
UniRef90\_V5SDJ8 P D | S | F | A | N | S | S | D | S | Y | R | L | L | A | S | L | F | N  
UniRef90\_V5SDJ8 P D | S | F | A | N | S | S | D | S | Y | R | L | L | A | S | L | F | N  
UniRef90\_A6FKZ1 E | G | E | R | D | K | L | V | E | R | F | L | L | Q | D | Q | I | R  
UniRef90\_F0L2E4  
UniRef90\_F0L2E4  
UniRef90\_F0L2E4



UniRef90_F0L2E4	K	V	G	H	V	D	D	I	F	K	N	T	R	V	R	D	Y	I	F	K	S	F	G	I	D	P	E	T	F	S	Y	K	H	V	K	N	V	L	T	S	S			
UniRef90_F0L2E4	K	V	G	H	V	D	D	I	F	K	N	T	R	V	R	D	Y	I	F	K	S	F	G	I	D	P	E	T	F	S	Y	K	H	V	K	N	V	L	T	S	S			
UniRef90_A0A037ZLP0	K	V	T	S	V	D	G	I	L	G	D	F	R	L	M	T	V	A	L	G	A	F	G	G	I	D	E	D	I	N	N	R	Y	F	I	R	V	L	D	E	E			
UniRef90_Q0FMH7	N	V	E	N	V	E	E	D	L	T	E	D	Y	R	L	Y	S	F	V	M	K	A	Y	D	L	E	D	Q	I	F	G	K	A	M	M	E	R	K	L	V	L	D	E	E
UniRef90_K2KB81	E	V	K	S	A	E	E	L	V	S	N	F	R	L	L	K	V	A	L	G	A	F	G	G	I	D	D	D	D	I	N	N	K	Y	F	I	E	R	T	L	D	E	E	
UniRef90_C7DF56	K	I	T	T	A	E	A	L	V	A	D	R	Q	L	L	E	V	A	L	G	A	F	G	G	I	D	D	D	D	I	N	N	T	Y	F	I	V	K	A	A	A	E	S	S
UniRef90_J3CWS7	K	I	N	S	I	E	A	F	V	S	A	P	A	V	Y	D	F	A	L	G	A	V	G	G	I	D	P	A	N	V	S	Q	A	T	V	V	K	A	V	L	E	S	S	
UniRef90_J3CWS7	K	I	N	S	I	E	A	F	V	S	A	P	A	V	Y	D	F	A	L	G	A	V	G	G	I	D	P	A	N	V	S	Q	A	T	V	V	K	A	V	L	E	S	S	
UniRef90_A0A023XDR1	K	V	N	S	V	Q	A	F	V	S	T	P	A	V	Y	D	F	A	L	G	A	V	G	G	I	D	D	P	K	G	V	S	S	E	A	T	V	K	A	V	L	E	S	S
UniRef90_A0A023XDR1	K	V	N	S	V	Q	A	F	V	S	T	P	A	V	Y	D	F	A	L	G	A	V	G	G	I	D	D	P	K	G	V	S	S	E	A	T	V	K	A	V	L	E	S	S
UniRef90_J2L729	D	N	D	V	D	Q	L	L	A	D	S	S	L	T	D	Y	L	K	M	A	Y	G	L	A	Y	D	T	S	N	A	E	L	K	S	S	I	L	T	T					
UniRef90_J2L729	D	N	D	V	D	Q	L	L	A	D	S	S	L	T	D	Y	L	K	M	A	Y	G	L	A	Y	D	T	S	N	A	E	L	K	S	S	I	L	T	T					
UniRef90_J2L729	D	N	D	V	D	Q	L	L	A	D	S	S	L	T	D	Y	L	K	M	A	Y	G	L	A	Y	D	T	S	N	A	E	L	K	S	S	I	L	T	T					
UniRef90_J2L729	D	N	D	V	D	Q	L	L	A	D	S	S	L	T	D	Y	L	K	M	A	Y	G	L	A	Y	D	T	S	N	A	E	L	K	S	S	I	L	T	T					
UniRef90_J2L729	D	N	D	V	D	Q	L	L	A	D	S	S	L	T	D	Y	L	K	M	A	Y	G	L	A	Y	D	T	S	N	A	E	L	K	S	S	I	L	T	T					
UniRef90_J2L729	D	N	D	V	D	Q	L	L	A	D	S	S	L	T	D	Y	L	K	M	A	Y	G	L	A	Y	D	T	S	N	A	E	L	K	S	S	I	L	T	T					
UniRef90_Q89L39	K	D	S	V	Q	A	F	V	S	T	P	A	V	Y	D	F	A	L	G	A	V	G	G	I	D	P	A	E	V	S	Q	A	T	V	V	K	A	A	E	S	S			
UniRef90_Q89L39	K	D	S	V	Q	A	F	V	S	T	P	A	V	Y	D	F	A	L	G	A	V	G	G	I	D	P	A	E	V	S	Q	A	T	V	V	K	A	A	E	S	S			
UniRef90_Q89L39	K	D	S	V	Q	A	F	V	S	T	P	A	V	Y	D	F	A	L	G	A	V	G	G	I	D	P	A	E	V	S	Q	A	T	V	V	K	A	A	E	S	S			
UniRef90_K0VZS1	N	V	T	N	V	D	Q	I	M	S	D	P	V	A	V	S	Y	L	R	N	S	M	Q	I	A	D	S	S	V	S	SDAT	L	R	S	F	L	V							
UniRef90_K0VZS1	N	V	T	N	V	D	Q	I	M	S	D	P	V	A	V	S	Y	L	R	N	S	M	Q	I	A	D	S	V	S	SDAT	L	R	S	F	L	V								
UniRef90_K0VZS1	N	V	T	N	V	D	Q	I	M	S	D	P	V	A	V	S	Y	L	R	N	S	M	Q	I	A	D	S	V	S	SDAT	L	R	S	F	L	V								
UniRef90_K0VZS1	N	V	T	N	V	D	Q	I	M	S	D	P	V	A	V	S	Y	L	R	N	S	M	Q	I	A	D	S	V	S	SDAT	L	R	S	F	L	V								
UniRef90_K0VZS1	N	V	T	N	V	D	Q	I	M	S	D	P	V	A	V	S	Y	L	R	N	S	M	Q	I	A	D	S	V	S	SDAT	L	R	S	F	L	V								
UniRef90_A810E0	K	K	T	V	D	E	F	V	G	N	Y	R	L	F	N	F	A	M	N	A	K	A	Y	M	K	N	V	L	T	S	G													
UniRef90_B5ZS49	S	I	T	N	V	D	D	A	L	L	A	D	G	N	M	A	R	Y	I	K	D	A	Y	G	L	G	T	G	F	S	N	A	D	L	K	N	I	L	T					
UniRef90_B5ZS49	S	I	T	N	V	D	D	A	L	L	A	D	G	N	M	A	R	Y	I	K	D	A	Y	G	L	G	T	G	F	S	N	A	D	L	K	N	I	L	T					
UniRef90_B5ZS49	S	I	T	N	V	D	D	A	L	L	A	D	G	N	M	A	R	Y	I	K	D	A	Y	G	L	G	T	G	F	S	N	A	D	L	K	N	I	L	T					
UniRef90_B5ZS49	S	I	T	N	V	D	D	A	L	L	A	D	G	N	M	A	R	Y	I	K	D	A	Y	G	L	G	T	G	F	S	N	A	D	L	K	N	I	L	T					
UniRef90_B5ZS49	S	I	T	N	V	D	D	A	L	L	A	D	G	N	M	A	R	Y	I	K	D	A	Y	G	L	G	T	G	F	S	N	A	D	L	K	N	I	L	T					
UniRef90_N0BF92	K	G	S	V	S	D	F	I	K	D	T	G	L	Y	D	F	V	L	S	A	F	G	G	I	D	P	S	K	T	Q	K	L	T	E	K	V	L	E	S	S				
UniRef90_N0BF92	K	G	S	V	S	D	F	I	K	D	T	G	L	Y	D	F	V	L	S	A	F	G	G	I	D	P	S	K	T	Q	K	L	T	E	K	V	L	E	S	S				
UniRef90_N0BF92	K	G	S	V	S	D	F	I	K	D	T	G	L	Y	D	F	V	L	S	A	F	G	G	I	D	P	S	K	T	Q	K	L	T	E	K	V	L	E	S	S				
UniRef90_N0BF92	K	G	S	V	S	D	F	I	K	D	T	G	L	Y	D	F	V	L	S	A	F	G	G	I	D	P	S	K	T	Q	K	L	T	E	K	V	L	E	S	S				
UniRef90_W8S0M2	T	V	T	S	A	E	A	V	A	D	Y	R	R	R	V	A	L	S	A	F	G	G	I	D	D	M	P	N	R	A	F	V	E	E	K	V	L	E	S	S				
UniRef90_I2Q846	K	I	N	S	V	Q	A	F	V	S	T	P	G	V	Y	D	F	A	L	G	A	V	G	G	I	D	P	A	N	V	S	P	A	T	V	V	K	A	V	L	E	S	S	
UniRef90_I2Q846	K	I	N	S	V	Q	A	F	V	S	T	P	G	V	Y	D	F	A	L	G	A	V	G	G	I	D	P	A	N	V	S	P	A	T	V	V	K	A	V	L	E	S	S	
UniRef90_I2Q846	K	I	N	S	V	Q	A	F	V	S	T	P	G	V	Y	D	F	A	L	G	A	V	G	G	I	D	P	A	N	V	S	P	A	T	V	V	K	A	V	L	E	S	S	
UniRef90_UP100041918E6	S	A	R	T	V	D	D	L	L	N	D	E	R	M	A	K	F	L	G	T	A	F	G	G	I	D	S	M	P	P	P	P	A	T	I	K	G	I	L	T	S	S		
UniRef90_UP100041918E6	S	A	R	T	V	D	D	L	L	N	D	E	R	M	A	K	F	L	G	T	A	F	G	G	I	D	S	M	P	P	P	P	A	T	I	K	G	I	L	T	S	S		
UniRef90_UP100041918E6	S	A	R	T	V	D	D	L	L	N	D	E	R	M	A	K	F	L	G	T	A	F	G	G	I	D	S	M	P	P	P	P	A	T	I	K	G	I	L	T	S	S		
UniRef90_A3W5J4	K	T	T	A	E	D	L	V	S	D	R	R	L	L	R	V	A	L	G	A	F	G	G	I	D	D	S	V	S	D	A	T	L	R	S	F	L	V						
UniRef90_S5SFT9	N	V <td>T<td>N<td>V</td><td>D</td><td>D</td><td>I</td><td>M</td><td>S</td><td>D</td><td>P</td><td>V</td><td>A</td><td>V</td><td>S</td><td>Y</td><td>L</td><td>R</td><td>T</td><td>S</td><td>M</td><td>Q</td><td>I</td><td>A</td><td>D</td><td>S</td><td>V</td><td>S</td><td>D</td><td>A</td><td>T</td><td>L</td><td>R</td><td>S</td><td>F</td><td>L</td><td>V</td></td></td>	T <td>N<td>V</td><td>D</td><td>D</td><td>I</td><td>M</td><td>S</td><td>D</td><td>P</td><td>V</td><td>A</td><td>V</td><td>S</td><td>Y</td><td>L</td><td>R</td><td>T</td><td>S</td><td>M</td><td>Q</td><td>I</td><td>A</td><td>D</td><td>S</td><td>V</td><td>S</td><td>D</td><td>A</td><td>T</td><td>L</td><td>R</td><td>S</td><td>F</td><td>L</td><td>V</td></td>	N <td>V</td> <td>D</td> <td>D</td> <td>I</td> <td>M</td> <td>S</td> <td>D</td> <td>P</td> <td>V</td> <td>A</td> <td>V</td> <td>S</td> <td>Y</td> <td>L</td> <td>R</td> <td>T</td> <td>S</td> <td>M</td> <td>Q</td> <td>I</td> <td>A</td> <td>D</td> <td>S</td> <td>V</td> <td>S</td> <td>D</td> <td>A</td> <td>T</td> <td>L</td> <td>R</td> <td>S</td> <td>F</td> <td>L</td> <td>V</td>	V	D	D	I	M	S	D	P	V	A	V	S	Y	L	R	T	S	M	Q	I	A	D	S	V	S	D	A	T	L	R	S	F	L	V						
UniRef90_S5SFT9	N	V <td>T<td>N<td>V</td><td>D</td><td>D</td><td>I</td><td>M</td><td>S</td><td>D</td><td>P</td><td>V</td><td>A</td><td>V</td><td>S</td><td>Y</td><td>L</td><td>R</td><td>T</td><td>S</td><td>M</td><td>Q</td><td>I</td><td>A</td><td>D</td><td>S</td><td>V</td><td>S</td><td>D</td><td>A</td><td>T</td><td>L</td><td>R</td><td>S</td><td>F</td><td>L</td><td>V</td></td></td>	T <td>N<td>V</td><td>D</td><td>D</td><td>I</td><td>M</td><td>S</td><td>D</td><td>P</td><td>V</td><td>A</td><td>V</td><td>S</td><td>Y</td><td>L</td><td>R</td><td>T</td><td>S</td><td>M</td><td>Q</td><td>I</td><td>A</td><td>D</td><td>S</td><td>V</td><td>S</td><td>D</td><td>A</td><td>T</td><td>L</td><td>R</td><td>S</td><td>F</td><td>L</td><td>V</td></td>	N <td>V</td> <td>D</td> <td>D</td> <td>I</td> <td>M</td> <td>S</td> <td>D</td> <td>P</td> <td>V</td> <td>A</td> <td>V</td> <td>S</td> <td>Y</td> <td>L</td> <td>R</td> <td>T</td> <td>S</td> <td>M</td> <td>Q</td> <td>I</td> <td>A</td> <td>D</td> <td>S</td> <td>V</td> <td>S</td> <td>D</td> <td>A</td> <td>T</td> <td>L</td> <td>R</td> <td>S</td> <td>F</td> <td>L</td> <td>V</td>	V	D	D	I	M	S	D	P	V	A	V	S	Y	L	R	T	S	M	Q	I	A	D	S	V	S	D	A	T	L	R	S	F	L	V						
UniRef90_S5SFT9	N	V <td>T</td> <td>N<td>V</td><td>D</td><td>D</td><td>I</td><td>M</td><td>S</td><td>D</td><td>P</td><td>V</td><td>A</td><td>V</td><td>S</td><td>Y</td><td>L</td><td>R</td><td>T</td><td>S</td><td>M</td><td>Q</td><td>I</td><td>A</td><td>D</td><td>S</td><td>V</td><td>S</td><td>D</td><td>A</td><td>T</td><td>L</td><td>R</td><td>S</td><td>F</td><td>L</td><td>V</td></td>	T	N <td>V</td> <td>D</td> <td>D</td> <td>I</td> <td>M</td> <td>S</td> <td>D</td> <td>P</td> <td>V</td> <td>A</td> <td>V</td> <td>S</td> <td>Y</td> <td>L</td> <td>R</td> <td>T</td> <td>S</td> <td>M</td> <td>Q</td> <td>I</td> <td>A</td> <td>D</td> <td>S</td> <td>V</td> <td>S</td> <td>D</td> <td>A</td> <td>T</td> <td>L</td> <td>R</td> <td>S</td> <td>F</td> <td>L</td> <td>V</td>	V	D	D	I	M	S	D	P	V	A	V	S	Y	L	R	T	S	M	Q	I	A	D	S	V	S	D	A	T	L	R	S	F	L	V						
UniRef90_S5SFT9	N	V <td>T</td> <td>N<td>V</td><td>D</td><td>D</td><td>I</td><td>M</td><td>S</td><td>D</td><td>P</td><td>V</td><td>A</td><td>V</td><td>S</td><td>Y</td><td>L</td><td>R</td><td>T</td><td>S</td><td>M</td><td>Q</td><td>I</td><td>A</td><td>D</td><td>S</td><td>V</td><td>S</td><td>D</td><td>A</td><td>T</td><td>L</td><td>R</td><td>S</td><td>F</td><td>L</td><td>V</td></td>	T	N <td>V</td> <td>D</td> <td>D</td> <td>I</td> <td>M</td> <td>S</td> <td>D</td> <td>P</td> <td>V</td> <td>A</td> <td>V</td> <td>S</td> <td>Y</td> <td>L</td> <td>R</td> <td>T</td> <td>S</td> <td>M</td> <td>Q</td> <td>I</td> <td>A</td> <td>D</td> <td>S</td> <td>V</td> <td>S</td> <td>D</td> <td>A</td> <td>T</td> <td>L</td> <td>R</td> <td>S</td> <td>F</td> <td>L</td> <td>V</td>	V	D	D	I	M	S	D	P	V	A	V	S	Y	L	R	T	S	M	Q	I	A	D	S	V	S	D	A	T	L	R	S	F	L	V						
UniRef90_S5SFT9	N	V <td>T</td> <td>N<td>V</td><td>D</td><td>D</td><td>I</td><td>M</td><td>S</td><td>D</td><td>P</td><td>V</td><td>A</td><td>V</td><td>S</td><td>Y</td><td>L</td><td>R</td><td>T</td><td>S</td><td>M</td><td>Q</td><td>I</td><td>A</td><td>D</td><td>S</td><td>V</td><td>S</td><td>D</td><td>A</td><td>T</td><td>L</td><td>R</td><td>S</td><td>F</td><td>L</td><td>V</td></td>	T	N <td>V</td> <td>D</td> <td>D</td> <td>I</td> <td>M</td> <td>S</td> <td>D</td> <td>P</td> <td>V</td> <td>A</td> <td>V</td> <td>S</td> <td>Y</td> <td>L</td> <td>R</td> <td>T</td> <td>S</td> <td>M</td> <td>Q</td> <td>I</td> <td>A</td> <td>D</td> <td>S</td> <td>V</td> <td>S</td> <td>D</td> <td>A</td> <td>T</td> <td>L</td> <td>R</td> <td>S</td> <td>F</td> <td>L</td> <td>V</td>	V	D	D	I	M	S	D	P	V	A	V	S	Y	L	R	T	S	M	Q	I	A	D	S	V	S	D	A	T	L	R	S	F	L	V						
UniRef90_S5SFT9	N	V <td>T</td> <td>N<td>V</td><td>D</td><td>D</td><td>I</td><td>M</td><td>S</td><td>D</td><td>P</td><td>V</td><td>A</td><td>V</td><td>S</td><td>Y</td><td>L</td><td>R</td><td>T</td><td>S</td><td>M</td><td>Q</td><td>I</td><td>A</td><td>D</td><td>S</td><td>V</td><td>S</td><td>D</td><td>A</td><td>T</td><td>L</td><td>R</td><td>S</td><td>F</td><td>L</td><td>V</td></td>	T	N <td>V</td> <td>D</td> <td>D</td> <td>I</td> <td>M</td> <td>S</td> <td>D</td> <td>P</td> <td>V</td> <td>A</td> <td>V</td> <td>S</td> <td>Y</td> <td>L</td> <td>R</td> <td>T</td> <td>S</td> <td>M</td> <td>Q</td> <td>I</td> <td>A</td> <td>D</td> <td>S</td> <td>V</td> <td>S</td> <td>D</td> <td>A</td> <td>T</td> <td>L</td> <td>R</td> <td>S</td> <td>F</td> <td>L</td> <td>V</td>	V	D	D	I	M	S	D	P	V	A	V	S	Y	L	R	T	S	M	Q	I	A	D	S	V	S	D	A	T	L	R	S	F	L	V						
UniRef90_A3U0Y9	D	V	E	T	V	D	Q	L	E	D	Q	E	L	Y	A	F	V	M	R	A	F	D	L	E	D	Q	I	F	G	K	A	M	I	E	K	V	L	K	S					
UniRef90_Q5LMV6	Q	V	K	T	A	E	D	L	V	S	D	R	R	L	L	Q	V	A	L	G	A	F	G	G	I	D	D	S	V	S	D	A	T	L	R	S	F	L	V					
UniRef90_J2ASZ3	N	V	S	S	V	D	D	L	M	Q	D	S	K	L	V	S	Y	I	R	T	A	Y	G	I	S	E	D	D	P	D	N	Y	I	S	A	A	L	K	N	A				
UniRef90_J2ASZ3	N	V	S	S	V	D	D	L	M	Q	D	S	K	L	V	S	Y	I	R	T	A	Y	G	I	S	E	D	D	P	D	N	Y	I	S	A	A	L	K	N	A				
UniRef90_J2ASZ3	N	V	S	S	V	D	D	L	M	Q	D	S	K	L	V	S	Y	I	R	T	A	Y	G	I	S	E	D	D	P	D	N	Y	I	S	A	A	L	K	N	A				
UniRef90_E3I688	N	I	T	S	A	D	E	L	V	G	D	Y	F	S	Y	A	L	T	A	G	F	G	G	I	D	E	D	S	A	T	E	D	K	T	L	I	K	Q	V	L	S			

	90	100	110	120
UniRef90_F0L2E4	D   S N A D S Y   I N K T Y K P E W K A K A A D L R   E R A G V A S T D K P A L			
UniRef90_F0L2E4	D   S N A D S Y   I N K T Y K P E W K A K A A D L R   E R A G V A S T D K P A L			
UniRef90_A0A037ZLP0	G T L D P E A L A N R I A N K S Y A K M S E A F G F G D F A T P N T Q   L S D F P			
UniRef90_Q0FMH7	D   N D S S A L V N R L T D S R F K D F H N A M G F G P Q G N L   N T L D A S W K			
UniRef90_K2KB81	G T L D S D S L S N K L S D K R Y F K F S E A F G F G N F D I P N T V L S D F P			
UniRef90_C7DF56	G T L D D D A L A N R L A D S R Y K E F A E S F G F G D F S T P R T V L S T F P			
UniRef90_J3CWS7	D   L T D P K S F V Y T L K D D R Y V Q L   A R A F N F D A K G N L   L T T Q N P A E V			
UniRef90_J3CWS7	D   L T D P K S F V Y T L K D D R Y V Q L   A R A F N F D A K G N L   L T T Q N P A E V			
UniRef90_J3CWS7	D   L T D P K S F V Y T L K D D R Y V Q L   A R A F N F D A K G N L   L T T Q N P A E V			
UniRef90_A0A023XDR1	D   L S D P K S F V Y T L K D N R Y V E L   A R A F N F D A K G N L   L T T Q D S A E V			
UniRef90_A0A023XDR1	D   L S D P K S F V Y T L K D N R Y V E L   A R A F N F D A K G N L   L T T Q D S A E V			
UniRef90_A0A023XDR1	D   L S D P K S F V Y T L K D N R Y V E L   A R A F N F D A K G N L   L T T Q D S A E V			
UniRef90_J2L729		D P A Y A A L N A A F N F A A D G S L   P T S T S P Q T		
UniRef90_J2L729		D P A Y A A L N A A F N F A A D G S L   P T S T S P Q T		
UniRef90_J2L729		D P A Y A A L N A A F N F A A D G S L   P T S T S P Q T		
UniRef90_J2L729		D P A Y A A L N A A F N F A A D G S L   P T S T S P Q T		
UniRef90_J2L729		D P A Y A A L N A A F N F A A D G S L   P T S T S P Q T		
UniRef90_J2L729		D P A Y A A L N A A F N F A A D G S L   P T S T S P Q T		
UniRef90_J2L729		D P A Y A A L N A A F N F A A D G S L   P T S T S P Q T		
UniRef90_J2L729		D P A Y A A L N A A F N F A A D G S L   P T S T S P Q T		
UniRef90_J2L729		D P A Y A A L N A A F N F A A D G S L   P T S T S P Q T		
UniRef90_J2L729		D P A Y A A L N A A F N F A A D G S L   P T S T S P Q T		
UniRef90_Q89L39	D   S D P K S F V Y T L K D N R Y V E L   A R A F N F D A N G N L   L T T Q D S A K V			
UniRef90_Q89L39	D   S D P K S F V Y T L K D N R Y V E L   A R A F N F D A N G N L   L T T Q D S A K V			
UniRef90_Q89L39	D   S D P K S F V Y T L K D N R Y V E L   A R A F N F D A N G N L   L T T Q D S A K V			
UniRef90_K0VZS1	D P T A A S A Q G Y Y G D V H D L F N F K A D G S V A T L   H A S Q S			
UniRef90_K0VZS1	D P T A A S A Q G Y Y G D V H D L F N F K A D G S V A T L   H A S Q S			
UniRef90_K0VZS1	D P T A A S A Q G Y Y G D V H D L F N F K A D G S V A T L   H A S Q S			
UniRef90_K0VZS1	D P T A A S A Q G Y Y G D V H D L F N F K A D G S V A T L   H A S Q S			
UniRef90_K0VZS1	D P T A A S A Q G Y Y G D V H D L F N F K A D G S V A T L   H A S Q S			
UniRef90_K0VZS1	D P T A A S A Q G Y Y G D V H D L F N F K A D G S V A T L   H A S Q S			
UniRef90_A810E0	D   S D S S S F V N K L A D D K F K V F A R A F S N   L N P T N A L   T T   V I P A T A R			
UniRef90_B5ZS49	D S A Y A A A Q G H A D L N A D F N F Q A D G G S V I Q T D T Q R			
UniRef90_B5ZS49	D S A Y A A A Q G H A D L N A D F N F Q A D G G S V I Q T D T Q R			
UniRef90_B5ZS49	D S A Y A A A Q G H A D L N A D F N F Q A D G G S V I Q T D T Q R			
UniRef90_B5ZS49	D S A Y A A A Q G H A D L N A D F N F Q A D G G S V I Q T D T Q R			
UniRef90_B5ZS49	D S A Y A A A Q G H A D L N A D F N F Q A D G G S V I Q T D T Q R			
UniRef90_B5ZS49	D S A Y A A A Q G H A D L N A D F N F Q A D G G S V I Q T D T Q R			
UniRef90_N0BF92	D A S D P S S F A N M S H N S A Y S K L A A A F N F D A N G N A K T A S S A Q V			
UniRef90_N0BF92	D A S D P S S F A N M S H N S A Y S K L A A A F N F D A N G N A K T A S S A Q V			
UniRef90_N0BF92	D A S D P S S F A N M S H N S A Y S K L A A A F N F D A N G N A K T A S S A Q V			
UniRef90_N0BF92	D A S D P S S F A N M S H N S A Y S K L A A A F N F D A N G N A K T A S S A Q V			
UniRef90_W8S0M2	G T V D D D A L A N K L A D T R Y R K F S E A F G F G S P   L P P R T Q S P G F A			
UniRef90_I2Q846	D   N D P K S Y V Y T L K D N R Y L E   L A R A F N F D A K G N L   L T T Q D S A E V			
UniRef90_I2Q846	D   N D P K S Y V Y T L K D N R Y L E   L A R A F N F D A K G N L   L T T Q D S A E V			
UniRef90_I2Q846	D   N D P K S Y V Y T L K D N R Y L E   L A R A F N F D A K G N L   L T T Q D S A E V			
UniRef90_UPI00041918E6	D P A N P T S F V N S S G R W K E L M N T F N F K Q D G T L   D P A D N A Q			
UniRef90_UPI00041918E6	D P A N P T S F V N S S G R W K E L M N T F N F K Q D G T L   D P A D N A Q			
UniRef90_UPI00041918E6	D P A N P T S F V N S S G R W K E L M N T F N F K Q D G T L   D P A D N A Q			
UniRef90_A3W5J4	G T I N E D S L A N R L A D D R Y Y K Q L A E A F A F A D R P   I P R T Q L   S T F G			
UniRef90_S5SFT9	D P A A A A S A Q G Y Y S D V H D L F N F K T D G S V A T L   Y A T Q S			
UniRef90_S5SFT9	D P A A A A S A Q G Y Y S D V H D L F N F K T D G S V A T L   Y A T Q S			
UniRef90_S5SFT9	D P A A A A S A Q G Y Y S D V H D L F N F K T D G S V A T L   Y A T Q S			
UniRef90_S5SFT9	D P A A A A S A Q G Y Y S D V H D L F N F K T D G S V A T L   Y A T Q S			
UniRef90_S5SFT9	D P A A A A S A Q G Y Y S D V H D L F N F K T D G S V A T L   Y A T Q S			
UniRef90_S5SFT9	D P A A A A S A Q G Y Y S D V H D L F N F K T D G S V A T L   Y A T Q S			
UniRef90_C6B3H5	R T A A S A Q G Y Y S D V H D L F N F K S D G S V P T			
UniRef90_C6B3H5	R T A A S A Q G Y Y S D V H D L F N F K S D G S V P T			
UniRef90_C6B3H5	R T A A S A Q G Y Y S D V H D L F N F K S D G S V P T			
UniRef90_C6B3H5	R T A A S A Q G Y Y S D V H D L F N F K S D G S V P T			
UniRef90_C6B3H5	R T A A S A Q G Y Y S D V H D L F N F K S D G S V P T			
UniRef90_C6B3H5	R T A A S A Q G Y Y S D V H D L F N F K S D G S V P T			
UniRef90_C6B3H5	R T A A S A Q G Y Y S D V H D L F N F K S D G S V P T			
UniRef90_A3U0Y9	N   E E N D A L V N R L T D P R F R E M Y N E L G F G T D G N L   I L N T W Q			
UniRef90_Q5LMV6	G T T S S D A L A N K L S D K R Y R E F S K A F G L G P G E I R T T G L V T F M			
UniRef90_J2ASZ3	D V A N A I G L G D L H D A F F N F E D G S L S A G V S A Q Q			
UniRef90_J2ASZ3	D V A N A I G L G D L H D A F F N F E D G S L S A G V S A Q Q			
UniRef90_J2ASZ3	D V A N A I G L G D L H D A F F N F E D G S L S A G V S A Q Q			
UniRef90_J2ASZ3	D V A N A I G L G D L H D A F F N F E D G S L S A G V S A Q Q			
UniRef90_E3I688	G T D K G S L S S K L G K L G V T E L A K T F N F E E N G T S T T T S D A V Q			
UniRef90_H4F986	D L S A S G N Y A I T N G G S A W V A V A Q K F N F G T D G N V R S G Y S A			
UniRef90_H4F986	D L S A S G N Y A I T N G G S A W V A V A Q K F N F G T D G N V R S G Y S A			
UniRef90_H4F986	D L S A S G N Y A I T N G G S A W V A V A Q K F N F G T D G N V R S G Y S A			
UniRef90_H4F986	D L S A S G N Y A I T N G G S A W V A V A Q K F N F G T D G N V R S G Y S A			
UniRef90_W4HHK5	D V S D R K S L V N R L T D Q R F K D M H A D M G F S P S G A A S F S D P A W Q			
UniRef90_Q98HE4	G V R D P N S V A N K Q K N P A Y A A L   A S A F N F E Q Y G E N A T T   V P A Q			
UniRef90_Q215B1	D P N N P N S Y V N S A G S K K Y T R L M K A F N F N Q D G T L   L V D A Q S E T Q			
UniRef90_Q215B1	D P N N P N S Y V N S A G S K K Y T R L M K A F N F N Q D G T L   L V D A Q S E T Q			
UniRef90_Q215B1	D P N N P N S Y V N S A G S K K Y T R L M K A F N F N Q D G T L   L V D A Q S E T Q			
UniRef90_Q215B1	D P N N P N S Y V N S A G S K K Y T R L M K A F N F N Q D G T L   L V D A Q S E T Q			
UniRef90_Q215B1	D P N N P N S Y V N S A G S K K Y T R L M K A F N F N Q D G T L   L V D A Q S E T Q			
UniRef90_UPI00046AE8D6	D L S D P K S Y V Y T L K D N R Y V Q L   A R A F N F D A K G N L   L T T Q D A A E V			
UniRef90_UPI00046AE8D6	D L S D P K S Y V Y T L K D N R Y V Q L   A R A F N F D A K G N L   L T T Q D A A E V			
UniRef90_UPI00046AE8D6	D L S D P K S Y V Y T L K D N R Y V Q L   A R A F N F D A K G N L   L T T Q D A A E V			
UniRef90_UPI0003B6B288	G T L D S G A L A N R L A D K Q Y R A F S S G F G D Y A I P S T Q   L S D F A			

Sequence alignment of UniRef90 proteins from 130 to 160 amino acids. The alignment shows multiple sequences with various mutations and insertions. Amino acids are represented by single-letter codes, and gaps are indicated by dashes. Some positions are highlighted with colored boxes (e.g., blue, red, yellow) to show specific motifs or changes.

170

180

190

200

UniRef90\_F0L2E4  
 UniRef90\_F0L2E4  
 UniRef90\_A0A037ZLP0  
 UniRef90\_Q0FMH7  
 UniRef90\_K2KB81  
 UniRef90\_C7DF56  
 UniRef90\_J3CWS7  
 UniRef90\_J3CWS7  
 UniRef90\_J3CWS7  
 UniRef90\_A0A023XDR1  
 UniRef90\_A0A023XDR1  
 UniRef90\_A0A023XDR1  
 UniRef90\_J2L729  
 UniRef90\_Q89L39  
 UniRef90\_Q89L39  
 UniRef90\_Q89L39  
 UniRef90\_K0VZS1  
 UniRef90\_K0VZS1  
 UniRef90\_K0VZS1  
 UniRef90\_K0VZS1  
 UniRef90\_K0VZS1  
 UniRef90\_K0VZS1  
 UniRef90\_K0VZS1  
 UniRef90\_A80E0  
 UniRef90\_B5ZS49  
 UniRef90\_B5ZS49  
 UniRef90\_B5ZS49  
 UniRef90\_B5ZS49  
 UniRef90\_B5ZS49  
 UniRef90\_B5ZS49  
 UniRef90\_N0BF92  
 UniRef90\_N0BF92  
 UniRef90\_N0BF92  
 UniRef90\_N0BF92  
 UniRef90\_N0BF92  
 UniRef90\_W8S0M2  
 UniRef90\_I2Q846  
 UniRef90\_I2Q846  
 UniRef90\_I2Q846  
 UniRef90\_UP100041918E6  
 UniRef90\_UP100041918E6  
 UniRef90\_UP100041918E6  
 UniRef90\_UP100041918E6  
 UniRef90\_A3W5J4  
 UniRef90\_S5SFT9  
 UniRef90\_S5SFT9  
 UniRef90\_S5SFT9  
 UniRef90\_S5SFT9  
 UniRef90\_S5SFT9  
 UniRef90\_S5SFT9  
 UniRef90\_C6B3H5  
 UniRef90\_C6B3H5  
 UniRef90\_C6B3H5  
 UniRef90\_C6B3H5  
 UniRef90\_C6B3H5  
 UniRef90\_C6B3H5  
 UniRef90\_C6B3H5  
 UniRef90\_A3U0Y9  
 UniRef90\_Q5LMV6  
 UniRef90\_J2ASZ3  
 UniRef90\_J2ASZ3  
 UniRef90\_J2ASZ3  
 UniRef90\_J2ASZ3  
 UniRef90\_J2ASZ3  
 UniRef90\_E3I688  
 UniRef90\_H4F986  
 UniRef90\_H4F986  
 UniRef90\_H4F986  
 UniRef90\_H4F986  
 UniRef90\_W4HHK5  
 UniRef90\_Q98HE4  
 UniRef90\_Q215B1  
 UniRef90\_Q215B1  
 UniRef90\_Q215B1  
 UniRef90\_Q215B1  
 UniRef90\_Q215B1  
 UniRef90\_UP100046AE8D6  
 UniRef90\_UP100046AE8D6  
 UniRef90\_UP100046AE8D6  
 UniRef90\_UP10003B6B288

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

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 UniRef90\_A0A037ZLP0  
 UniRef90\_Q0FMH7  
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 P E K R E D L V K L F L I R S E L N  
 P D T Q D D I R N F L V L S E M D  
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 P K S  
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 P K S  
 P K S  
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 P D K V E D L M R N F T L R A Q □  
 P K S F  
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 T D V Q E Q L L R R F L L R D Q M  
 P E V V D K L V R K Y V A I S D A  
 P E M V E K V T I A Y L A R S Q □ N  
 P K S Y V N G L D R F V A F R E A F N  
 P K S Y V N G L D R F V A F R E A F N  
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 P Q K L T S F I A K F S T L Y D S E N  
 P P  
 P P  
 P P  
 P P  
 P P  
 P P  
 P K E L D R L V R T Y V T I S D A  
 P V K L G K F L T R F T S M Y E □ N N  
 P K S F  
 P K S F  
 P K S F  
 L K K V D E L V R K F L V R S E A

This figure displays a multiple sequence alignment of UniRef90 entries, focusing on a specific region of the protein. The sequences are aligned horizontally, with positions numbered 1 through 40 above the alignment. Colored boxes highlight conserved regions and specific amino acids. Key residues include Phe (P), Glu (E), Asp (D), and Cys (C).

**Conservation and Specific Residues:**

- Position 1:** UniRef90 entries show varying first residues, with some starting with G, P, or L.
- Position 10:** UniRef90 entries show varying tenth residues, with some starting with D, G, F, or S.
- Position 20:** UniRef90 entries show varying twentieth residues, with some starting with T, Y, D, S, Q, F, A, or V.
- Position 30:** UniRef90 entries show varying thirtieth residues, with some starting with R, D, G, Y, F, R, E, N, I, G, A, or M.
- Position 40:** UniRef90 entries show varying forty-thirteenth residues, with some starting with G, A, or M.

**Specific Amino Acids:**

- Phe (P):** Found at positions 1, 10, 20, 30, and 40.
- Glu (E):** Found at positions 10, 20, 30, and 40.
- Asp (D):** Found at positions 10, 20, 30, and 40.
- Cys (C):** Found at position 10.

	50										60										70										80												
UniRef90_UPI00046AA7C7	N	I	E	T	A	E	E	L	V	N	D	H	R	L	M	T	V	A	L	G	A	F	D	L	S	D	D	I	N	S	K	Y	F	I	Q	K	I	L	E	E			
UniRef90_B61QB4	S	V	G	T	V	D	E	L	M	S	D	R	R	L	Y	S	Y	V	M	R	A	F	G	L	E	D	D	Q	I	N	S	S	Q	A	L	V	R	K	I	L	T	S	S
UniRef90_B6IQB4	S	V	G	T	V	D	E	L	M	S	D	R	R	L	Y	S	Y	V	M	R	A	F	G	L	E	D	D	Q	I	N	S	S	Q	A	L	V	R	K	I	L	T	S	S
UniRef90_B7RMN3	A	I	E	T	A	E	G	L	V	K	D	R	R	L	L	T	V	T	L	G	A	F	G	L	Q	D	D	I	N	N	R	Y	F	I	R	K	V	L	E	E			
UniRef90_X7F9W4	D	V	N	S	V	D	D	L	M	A	D	P	E	L	Y	G	F	V	M	R	A	F	D	L	E	D	D	Q	I	F	G	K	A	L	M	S	K	M	L	K	S		
UniRef90_E3EXD3	K	I	Q	T	P	E	D	L	L	A	D	R	R	L	L	S	V	A	L	G	A	F	G	L	Q	D	D	L	N	A	K	A	F	I	K	R	V	L	V	E			
UniRef90_S3I219	N	I	K	K	V	D	D	F	L	S	N	D	G	L	Y	Q	M	A	L	R	A	Y	G	L	T	E	Q	D	V	P	R	S	T	L	R	K	L	L	K	S			
UniRef90_S3I219	N	I	K	K	V	D	D	F	L	S	N	D	G	L	Y	Q	M	A	L	R	A	Y	G	L	T	E	Q	D	V	P	R	S	T	L	R	K	L	L	K	S			
UniRef90_S3I219	N	I	K	K	V	D	D	F	L	S	N	D	G	L	Y	Q	M	A	L	R	A	Y	G	L	T	E	Q	D	V	P	R	S	T	L	R	K	L	L	K	S			
UniRef90_S3I219	N	I	K	K	V	D	D	F	L	S	N	D	G	L	Y	Q	M	A	L	R	A	Y	G	L	T	E	Q	D	V	P	R	S	T	L	R	K	L	L	K	S			
UniRef90_S3I219	N	I	K	K	V	D	D	F	L	S	N	D	G	L	Y	Q	M	A	L	R	A	Y	G	L	T	E	Q	D	V	P	R	S	T	L	R	K	L	L	K	S			
UniRef90_UPI0003754C15	T	L	S	N	V	D	D	L	I	A	D	T	K	L	T	S	F	L	K	S	T	Y	S	L	P	P	A	N	M	S	D	A	D	L	K	S	I	L	T				
UniRef90_UPI0003754C15	T	L	S	N	V	D	D	L	I	A	D	T	K	L	T	S	F	L	K	S	T	Y	S	L	P	P	A	N	M	S	D	A	D	L	K	S	I	L	T				
UniRef90_UPI0003754C15	T	L	S	N	V	D	D	L	I	A	D	T	K	L	T	S	F	L	K	S	T	Y	S	L	P	P	A	N	M	S	D	A	D	L	K	S	I	L	T				
UniRef90_UPI0003754C15	T	L	S	N	V	D	D	L	I	A	D	T	K	L	T	S	F	L	K	S	T	Y	S	L	P	P	A	N	M	S	D	A	D	L	K	S	I	L	T				
UniRef90_UPI0003754C15	T	L	S	N	V	D	D	L	I	A	D	T	K	L	T	S	F	L	K	S	T	Y	S	L	P	P	A	N	M	S	D	A	D	L	K	S	I	L	T				
UniRef90_Q07NF0	S	A	R	T	V	D	E	L	F	A	D	R	M	A	K	F	I	G	V	A	F	G	V	G	T	L	P	L	S	T	L	K	S	I	L	T	S	S					
UniRef90_Q07NF0	S	A	R	T	V	D	E	L	F	A	D	R	M	A	K	F	I	G	V	A	F	G	V	G	T	L	P	L	S	T	L	K	S	I	L	T	S	S					
UniRef90_Q07NF0	S	A	R	T	V	D	E	L	F	A	D	R	M	A	K	F	I	G	V	A	F	G	V	G	T	L	P	L	S	T	L	K	S	I	L	T	S	S					
UniRef90_Q2JZC7	N	I	T	S	V	D	Q	L	M	S	D	D	K	L	V	S	Y	L	R	T	A	Y	G	L	S	D	T	E	T	D	N	F	I	S	A	A	L	K	K	S			
UniRef90_Q2JZC7	N	I	T	S	V	D	Q	L	M	S	D	D	K	L	V	S	Y	L	R	T	A	Y	G	L	S	D	T	E	T	D	N	F	I	S	A	A	L	K	K	S			
UniRef90_Q2JZC7	N	I	T	S	V	D	Q	L	M	S	D	D	K	L	V	S	Y	L	R	T	A	Y	G	L	S	D	T	E	T	D	N	F	I	S	A	A	L	K	K	S			
UniRef90_A810E3	S	V	T	S	V	D	D	F	V	N	Y	R	L	N	Y	A	M	T	A	Y	G	L	S	D	E	T	N	A	K	A	L	V	K	Q	V	L	S						
UniRef90_L0LHT3	S	I	T	S	V	D	Q	L	T	S	D	T	R	L	F	D	Y	I	K	T	A	Y	G	I	D	P	P	A	D	I	S	D	A	A	L	K	S	I	L	T			
UniRef90_L0LHT3	S	I	T	S	V	D	Q	L	T	S	D	T	R	L	F	D	Y	I	K	T	A	Y	G	I	D	P	P	A	D	I	S	D	A	A	L	K	S	I	L	T			
UniRef90_L0LHT3	S	I	T	S	V	D	Q	L	T	S	D	T	R	L	F	D	Y	I	K	T	A	Y	G	I	D	P	P	A	D	I	S	D	A	A	L	K	S	I	L	T			
UniRef90_L0LHT3	S	I	T	S	V	D	Q	L	T	S	D	T	R	L	F	D	Y	I	K	T	A	Y	G	I	D	P	P	A	D	I	S	D	A	A	L	K	S	I	L	T			
UniRef90_K0PTH6	S	S	S	N	V	D	Q	L	I	A	D	P	K	L	T	S	L	I	K	A	A	Y	Q	I	P	A	D	I	S	D	A	A	L	K	S	I	L	T					
UniRef90_K0PTH6	S	S	S	N	V	D	Q	L	I	A	D	P	K	L	T	S	L	I	K	A	A	Y	Q	I	P	A	D	I	S	D	A	A	L	K	S	I	L	T					
UniRef90_K0PTH6	S	S	S	N	V	D	Q	L	I	A	D	P	K	L	T	S	L	I	K	A	A	Y	Q	I	P	A	D	I	S	D	A	A	L	K	S	I	L	T					
UniRef90_K0PTH6	S	S	S	N	V	D	Q	L	I	A	D	P	K	L	T	S	L	I	K	A	A	Y	Q	I	P	A	D	I	S	D	A	A	L	K	S	I	L	T					
UniRef90_K0PTH6	S	S	S	N	V	D	Q	L	I	A	D	P	K	L	T	S	L	I	K	A	A	Y	Q	I	P	A	D	I	S	D	A	A	L	K	S	I	L	T					
UniRef90_K2AGU2	Q	I	N	T	A	E	Q	L	V	A	D	R	R	L	L	K	V	A	L	G	A	F	G	L	E	K	D	I	D	N	K	F	F	I	Q	K	V	L	E				
UniRef90_B9TH97	S	V	K	T	I	K	D	F	F	A	S	P	E	L	Y	Q	M	A	L	R	A	Y	G	I	G	E	N	E	V	T	K	S	R	L	T	K	I	L	E				
UniRef90_B9TH97	S	V	K	T	I	K	D	F	F	A	S	P	E	L	Y	Q	M	A	L	R	A	Y	G	I	G	E	N	E	V	T	K	S	R	L	T	K	I	L	E				
UniRef90_UPI000465CBD5	K	V	T	T	I	E	Q	F	V	D	D	Y	R	L	F	N	Y	A	M	K	A	F	G	L	Q	D	M	A	Y	A	K	A	F	M	V	K	V	L	E				
UniRef90_UPI000465CBD5	K	V	T	T	I	E	Q	F	V	D	D	Y	R	L	F	N	Y	A	M	K	A	F	G	L	Q	D	M	A	Y	A	K	A	F	M	V	K	V	L	E				
UniRef90_Q2CGH5	G	I	E	T	V	E	D	L	L	A	D	Q	D	V	Y	A	F	V	M	R	A	Y	D	L	E	D	Q	I	F	G	K	A	L	V	G	K	V	L	E				
UniRef90_L0NAW4	Q	V	D	H	V	D	D	I	L	S	N	D	R	L	R	R	Y	V	F	E	S	L	G	I	D	D	S	V	Y	S	Y	Q	V	V	R	S	A	M	S	S			
UniRef90_L0NAW4	Q	V	D	H	V	D	D	I	L	S	N	D	R	L	R	R	Y	V	F	E	S	L	G	I	D	D	S	V	Y	S	Y	Q	V	V	R	S	A	M	S	S			
UniRef90_L0NAW4	Q	V	D	H	V	D	D	I	L	S	N	D	R	L	R	R	Y	V	F	E	S	L	G	I	D	D	S	V	Y	S	Y	Q	V	V	R	S	A	M	S	S			
UniRef90_L0NAW4	Q	V	D	H	V	D	D	I	L	S	N	D	R	L	R	R	Y	V	F	E	S	L	G	I	D	D	S	V	Y	S	Y	Q	V	V	R	S	A	M	S	S			
UniRef90_B9JSI9	T	V	T	K	A	S	D	I	T	G	D	S	R	L	F	S	Y	V	K	T	A	L	G	M	D	K	N	T	L	K	S	T	F	E	N	I	V	T	S	S			
UniRef90_B9JSI9	T	V	T	K	A	S	D	I	T	G	D	S	R	L	F	S	Y	V	K	T	A	L	G	M	D	K	N	T	L	K	S	T	F	E	N	I	V	T	S	S			
UniRef90_B9JSI9	T	V	T	K	A	S	D	I	T	G	D	S	R	L	F	S	Y	V	K	T	A	L	G	M	D	K	N	T	L	K	S	T	F	E	N	I	V	T	S	S			
UniRef90_B9JSI9	T	V	T	K	A	S	D	I	T	G	D	S	R	L	F	S	Y	V	K	T	A	L	G	M	D	K	N	T	L	K	S	T	F	E	N	I	V	T	S	S			
UniRef90_B9JSI9	T	V	T	K	A	S	D	I	T	G	D	S	R	L	F	S	Y	V	K	T	A	L	G	M	D	K	N	T	L	K	S	T	F	E	N	I	V	T	S	S			
UniRef90_UPI00035C810C	E	I	G	S	I	D	E	L	M	K	D	R	R	T	L	F	V	L	E	A	F	Q	L	E	G	V	D	K	R	A	V	I	K	R	L	T	D	S	S				
UniRef90_K2Q6I3	D	V	Q	N	V	D	D	K	L	A	D	T	T	M	R	L	V	Q	R	T	F	G	F	E	A	N	E	F	S	T	R	D	L	K	R	A	L	T	T	S	S		
UniRef90_K2Q6I3	D	V	Q	N	V	D	D	K	L	A	D	T	T	M	R	L	V	Q	R	T	F	G	F	E	A	N	E	F	S	T	R	D	L	K	R	A	L	T	T	S	S		
UniRef90_K2Q6I3	D	V	Q	N	V	D	D	K	L	A	D	T	T	M	R	L	V	Q	R	T	F	G	F	E	A	N	E	F	S	T	R	D	L	K	R	A	L	T	T	S	S		
UniRef90_K2Q6I3	D	V	Q																																								



130                  140                  150                  160

UniRef90_UPI00046AA7C7	E A I I D R Y E A I E F E I A A G E Q N E S M R F A L Y A E R E M S V L A K W Y
UniRef90_B6IQB4	N Q I A D L Y V R E R Y E E S V V S S K N E S L G M M L D F T R N L P T K R S W A
UniRef90_B6IQB4	N Q I A D L Y V R E R Y E E S V V S S K N E S L G M M L D F T R N L P T K R S W A
UniRef90_B7RMN3	A E I S A K F Q A N S F E V V S T G D Q D Q A M R I A L Y A Q R Q L V D I T K W F
UniRef90_X7F9W4	E E V V D R Y V T R Q M I D T Y N D Q N E T V G R A L D F R E K I G G V R N Y F
UniRef90_E3EXD3	D T I L A R Y T A E S F E L A V G E Q D N T M R L A L N Q H A T S D S A Q W F
UniRef90_S3I2I9	A K Y A T N Y K R A T L G M D D G A S K D A T K A V D D F A K G M A E V K S L D
UniRef90_S3I2I9	A K Y A T N Y K R A T L G M D D G A S K D A T K A V D D F A K G M A E V K S L D
UniRef90_S3I2I9	A K Y A T N Y K R A T L G M D D G A S K D A T K A V D D F A K G M A E V K S L D
UniRef90_S3I2I9	A K Y A T N Y K R A T L G M D D G A S K D A T K A V D D F A K G M A E V K S L D
UniRef90_S3I2I9	A K Y A T N Y K R A T L G M D D G A S K D A T K A V D D F A K G M A E V K S L D
UniRef90_UPI0003754C15	T S V D T L Y A A H Y G D E Q Q A E I D S S V A N Y K A R M A G K V T D V T
UniRef90_UPI0003754C15	T S V D T L Y A A H Y G D E Q Q A E I D S S V A N Y K A R M A G K V T D V T
UniRef90_UPI0003754C15	T S V D T L Y A A H Y G D E Q Q A E I D S S V A N Y K A R M A G K V T D V T
UniRef90_UPI0003754C15	T S V D T L Y A A H Y G D E Q Q A E I D S S V A N Y K A R M A G K V T D V T
UniRef90_UPI0003754C15	T S V D T L Y A A H Y G D E Q Q A E I D S S V A N Y K A R M A G K V T D V T
UniRef90_UPI0003754C15	T S V D T L Y A A H Y G D E Q Q A E I D S S V A N Y K A R M A G K V T D V T
UniRef90_Q07NF0	S A T I G R Y M T A Y N D A D E A S E K L A K Q M F K S G V Y G I T S S I E
UniRef90_Q07NF0	S A T I G R Y M T A Y N D A D E A S E K L A K Q M F K S G V Y G I T S S I E
UniRef90_Q07NF0	S A T I G R Y M T A Y N D A D E A S E K L A K Q M F K S G V Y G I T S S I E
UniRef90_Q2JZC7	S E Q T A A T T A A F D E N Q V L I A N T T E T E D A V N Y T T R I A S T S S I D
UniRef90_Q2JZC7	S E Q T A A T T A A F D E N Q V L I A N T T E T E D A V N Y T T R I A S T S S I D
UniRef90_Q2JZC7	S E Q T A A T T A A F D E N Q V L I A N T T E T E D A V N Y T T R I A S T S S I D
UniRef90_Q2JZC7	S E Q T A A T T A A F D E N Q V L I A N T T E T E D A V N Y T T R I A S T S S I D
UniRef90_A810E3	Q Q V V N S Y L E Q Q L E N D V G Q Q D E G T Q L A L Y F Q R N R A A N T S G Y
UniRef90_L0LHT3	Q S E I I D A Y M S N Y L S S Q S N L N T D A V N N Y K N R I A D V K T I K
UniRef90_L0LHT3	Q S E I I D A Y M S N Y L S S Q S N L N T D A V N N Y K N R I A D V K T I K
UniRef90_L0LHT3	Q S E I I D A Y M S N Y L S S Q S N L N T D A V N N Y K N R I A D V K T I K
UniRef90_L0LHT3	Q S E I I D A Y M S N Y L S S Q S N L N T D A V N N Y K N R I A D V K T I K
UniRef90_K0PTH6	S E E T T Q N Y N A R Y D D V Q K D E I D K A V A N Y K D R M S D D K K V D D
UniRef90_K0PTH6	S E E T T Q N Y N A R Y D D V Q K D E I D K A V A N Y K D R M S D D K K V D D
UniRef90_K0PTH6	S E E T T Q N Y N A R Y D D V Q K D E I D K A V A N Y K D R M S D D K K V D D
UniRef90_K0PTH6	S E E T T Q N Y N A R Y D D V Q K D E I D K A V A N Y K D R M S D D K K V D D
UniRef90_K0PTH6	S E E T T Q N Y N A R Y D D V Q K D E I D K A V A N Y K D R M S D D K K V D D
UniRef90_K0PTH6	S E E T T Q N Y N A R Y D D V Q K D E I D K A V A N Y K D R M S D D K K V D D
UniRef90_K2AGU2	D K I I S A Y R A R Q F E V A V G E Q S P D L R L A L N V I Q R E L P G I A D W F
UniRef90_B9TH97	Q T Q I I N S Y I E Y S S R T T A G L S G A E L T K A T Y F A T N I V K V T S V T
UniRef90_B9TH97	Q T Q I I N S Y I E Y S S R T T A G L S G A E L T K A T Y F A T N I V K V T S V T
UniRef90_UPI000465CBD5	T G A I I D L Y A L A A K R D L I P A E T Q K A E T T Y Y L Q T I P T V T S A E
UniRef90_UPI000465CBD5	T G A I I D L Y A L A A K R D L I P A E T Q K A E T T Y Y L Q T I P T V T S A E
UniRef90_Q2CGH5	E A M V D R Y V E Q H F I N A Q A D Q N A T V G V A L E F R R A A P E I S T W M
UniRef90_L0NAW4	Q A I I T D L Y L R Q T Q A S A L R E R D Y F E E K I P T V T S V D
UniRef90_L0NAW4	Q A I I T D L Y L R Q T Q A S A L R E R D Y F E E K I P T V T S V D
UniRef90_L0NAW4	Q A I I T D L Y L R Q T Q A S A L R E R D Y F E E K I P T V T S V D
UniRef90_L0NAW4	Q A I I T D L Y L R Q T Q A S A L R E R D Y F E E K I P T V T S V D
UniRef90_F2A8H6	A A T T A A F D E N Y Q V L I A N T D T E V A V D N Y T T R I A S V T S I D
UniRef90_F2A8H6	A A T T A A F D E N Y Q V L I A N T D T E V A V D N Y T T R I A S V T S I D
UniRef90_F2A8H6	A A T T A A F D E N Y Q V L I A N T D T E V A V D N Y T T R I A S V T S I D
UniRef90_F2A8H6	A A T T A A F D E N Y Q V L I A N T D T E V A V D N Y T T R I A S V T S I D
UniRef90_B9JSI9	S Q T A T A Y M T N Y D D E D Q A N L S S L T T Y Y S T Q M K S I T K V D
UniRef90_B9JSI9	S Q T A T A Y M T N Y D D E D Q A N L S S L T T Y Y S T Q M K S I T K V D
UniRef90_B9JSI9	S Q T A T A Y M T N Y D D E D Q A N L S S L T T Y Y S T Q M K S I T K V D
UniRef90_B9JSI9	S Q T A T A Y M T N Y D D E D Q A N L S S L T T Y Y S T Q M K S I T K V D
UniRef90_UPI00035C810C	D R I I K L T L T N R F E K A N G E A N P G L R E A L Y F Q R M I G T V S D V K
UniRef90_K2Q6I3	T L T A T M I A K Q F V I N E V A N E K T A A R E A A T Y Q E R I Q S I G T V K
UniRef90_K2Q6I3	T L T A T M I A K Q F V I N E V A N E K T A A R E A A T Y Q E R I Q S I G T V K
UniRef90_K2Q6I3	T L T A T M I A K Q F V I N E V A N E K T A A R E A A T Y Q E R I Q S I G T V K
UniRef90_K2Q6I3	T L T A T M I A K Q F V I N E V A N E K T A A R E A A T Y Q E R I Q S I G T V K
UniRef90_A4ETQ1	K D V V F T N K T Q S F E T A V G N Q E Q T L R V A L Y A E R E L P S I T Q W Y
UniRef90_Q28J55	D K I I L A R F D E Q A F E V A V G E Q D T D M R L L A L E A T R E V P G I A S W L
UniRef90_A9DR68	D E V I I D R F K E R I V L N S A G E E N E G A R I A L E F K S K A G E I N S W L
UniRef90UPI0002378789	E K I I A E D N M A A R F E I S V G E S D E S V R I A L F T Q H A L R E I A K W F
UniRef90UPI000464774E	D A T V K N Y M S R
UniRef90UPI000464774E	D A T V K N Y M S R
UniRef90_C8RX71	D E I L T A Y K N R Q F E T A V G E Q N D D M R L A M N V E R E L V T L A K W F
UniRef90_B6A277	T A T T T A A F D E N Y Q V L I A N T D S E D A V D N Y T T R I A S V T S I D
UniRef90_B6A277	T A T T T A A F D E N Y Q V L I A N T D S E D A V D N Y T T R I A S V T S I D
UniRef90_B6A277	T A T T T A A F D E N Y Q V L I A N T D S E D A V D N Y T T R I A S V T S I D
UniRef90_B6A277	T A T T T A A F D E N Y Q V L I A N T D S E D A V D N Y T T R I A S V T S I D
UniRef90UPI00035C3108	D G Y I I E N Y D N K V V S T E E Q E T S Y Y K L A M S E V K S V D
UniRef90UPI00035C3108	D G Y I I E N Y D N K V V S T E E Q E T S Y Y K L A M S E V K S V D
UniRef90UPI00035C3108	D G Y I I E N Y D N K V V S T E E Q E T S Y Y K L A M S E V K S V D
UniRef90UPI00035C3108	D G Y I I E N Y D N K V V S T E E Q E T S Y Y K L A M S E V K S V D
UniRef90_N6U8X3	Q S A I I D A A S T A Y M S N Y K T S Q S S L T T D A V N Y K N R I A S V K T I K
UniRef90_N6U8X3	Q S A I I D A A S T A Y M S N Y K T S Q S S L T T D A V N Y K N R I A S V K T I K
UniRef90_N6U8X3	Q S A I I D A A S T A Y M S N Y K T S Q S S L T T D A V N Y K N R I A S V K T I K
UniRef90_N6U8X3	Q S A I I D A A S T A Y M S N Y K T S Q S S L T T D A V N Y K N R I A S V K T I K
UniRef90_N6U8X3	Q S A I I D A A S T A Y M S N Y K T S Q S S L T T D A V N Y K N R I A S V K T I K
UniRef90_B9JAK0	Q T A I I D A A S T A Y M K N Y Q T S Q T S T T K A V S N Y Q T R I A A V K T I D

		170	180	190	200
UniRef90_UPI00046AA7C7	T	M S E A P L R E V F E K A L N L P S D L D Q Q L S V F K E R A K I L S S F T D			
UniRef90_B6IQB4	E V	M A D E G M A Q V V R I I Y D L P K P I A E Q A K S L E A T I K F S V F T T			
UniRef90_B6IQB4	E V	M A D E G M A Q V V R I I Y D L P K P I A E Q A K S L E A T I K F S V F T T			
UniRef90_B7RMN3	T I	M G D P P L R N L F Q K A L N L P I D I D Q Q L G V F K E R A D I A T F G D			
UniRef90_X7F9W4	D I	L L K D Q D L S V V M R T A F G I P I D I D R Q A E I L A D K F D L E S L K D			
UniRef90_E3EXD3	A M	M G D S P L R S V F E T A L G F P T G F G A R A K A T F G V E S F A D F T D			
UniRef90_S3I219	D F	K N D K L T S F V L K A N G L D P K K Y D D E T L R K I F T S D P S S			
UniRef90_S3I219	D F	K N D K L T S F V L K A N G L D P K K Y D D E T L R K I F T S D P S S			
UniRef90_S3I219	D F	K N D K L T S F V L K A N G L D P K K Y D D E T L R K I F T S D P S S			
UniRef90_S3I219	D F	K N D K L T S F V L K A N G L D P K K Y D D E T L R K I F T S D P S S			
UniRef90_S3I219	D F	K N D K L T S F V L K A N G L D P K K Y D D E T L R K I F T S D P S S			
UniRef90_S3I219	D F	K N D K L T S F V L K A N G L D P K K Y D D E T L R K I F T S D P S S			
UniRef90_UP10003754C15	D F	L A D P D L Y Q M A L R S Y G L E Q D V P R S M M R K L L Q S D P P Y D			
UniRef90_UP10003754C15	D F	L A D P D L Y Q M A L R S Y G L E Q D V P R S M M R K L L Q S D P P Y D			
UniRef90_UP10003754C15	D F	L A D P D L Y Q M A L R S Y G L E Q D V P R S M M R K L L Q S D P P Y D			
UniRef90_UP10003754C15	D F	L A D P D L Y Q M A L R S Y G L E Q D V P R S M M R K L L Q S D P P Y D			
UniRef90_UP10003754C15	D F	L A D P D L Y Q M A L R S Y G L E Q D V P R S M M R K L L Q S D P P Y D			
UniRef90_UP10003754C15	D F	L A D P D L Y Q M A L R S Y G L E Q D V P R S M M R K L L Q S D P P Y D			
UniRef90_Q07NF0	K F	V S T P S V Y N F A L E A V G L D P D S V S A T T V K A A L K S D L S D			
UniRef90_Q07NF0	K F	V S T P S V Y N F A L E A V G L D P D S V S A T T V K A A L K S D L S D			
UniRef90_Q07NF0	K F	V S T P S V Y N F A L E A V G L D P D S V S A T T V K A A L K S D L S D			
UniRef90_Q2JZC7	D F	L V S N A L W E M A L R A F G I D S G E V S K S S E V V R K I L E S D P P G D			
UniRef90_Q2JZC7	D F	L V S N A L W E M A L R A F G I D S G E V S K S S E V V R K I L E S D P P G D			
UniRef90_Q2JZC7	D F	L V S N A L W E M A L R A F G I D S G E V S K S S E V V R K I L E S D P P G D			
UniRef90_A8I0E3	S I	L G D S Q L W K V V Q T V Y D L P I D I N Q Q K D L V E S K V N I A D L Q D D			
UniRef90_L0LHT3	D F	F A S P E L Y Q M A L R A Y G I G E N E V T K S Q L L T R I L E S D P P Y D			
UniRef90_L0LHT3	D F	F A S P E L Y Q M A L R A Y G I G E N E V T K S Q L L T R I L E S D P P Y D			
UniRef90_L0LHT3	D F	F A S P E L Y Q M A L R A Y G I G E N E V T K S Q L L T R I L E S D P P Y D			
UniRef90_L0LHT3	D F	F A S P E L Y Q M A L R A Y G I G E N E V T K S Q L L T R I L E S D P P Y D			
UniRef90_L0LHT3	D F	F A S P E L Y Q M A L R A Y G I G E N E V T K S Q L L T R I L E S D P P Y D			
UniRef90_K0PTH6	D F	R S N A			
UniRef90_K0PTH6	D F	R S N A			
UniRef90_K0PTH6	D F	R S N A			
UniRef90_K0PTH6	D F	R S N A			
UniRef90_K0PTH6	D F	R S N A			
UniRef90_K2AGU2	T V	L G N A P L R K V F E K A L G P S D L D Q Q L Q A F K D K A K V S Q F S D			
UniRef90_B9TH97	D L	L A D S K L T N F I L T A N S I P K T V D T A T L K K A F A S D P S D			
UniRef90_B9TH97	D L	L A D S K L T N F I L T A N S I P K T V D T A T L K K A F A S D P S D			
UniRef90_UP1000465CBD5	G L	I A N E R L Y D Y A I R A Y G L			
UniRef90_UP1000465CBD5	G L	I A N E R L Y D Y A I R A Y G L			
UniRef90_Q2CGH5	D V	L K D A D L S T L M R T A L G V P S D I D K Q A E L F A R K F D I T K L Q D D			
UniRef90_L0NAW4	G L	L D D P R L Y D Y V R K A F D L N E L F V V K S T L L E Q I L T S D L L S D D			
UniRef90_L0NAW4	G L	L D D P R L Y D Y V R K A F D L N E L F V V K S T L L E Q I L T S D L L S D D			
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 UniRef90\_I3WZW9  
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 UniRef90\_UPI0003F8BFD3  
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 UniRef90\_UPI0003F8BFD3  
 UniRef90\_UPI0003F8BFD3

90                    100                    110                    120

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

130            140            150            160

UniRef90_B9JAK0	Q T A I   D A A S T A Y M K N Y Q T S Q T S T T K A   V S N Y Q T R   A A   V K T   I D
UniRef90_B9JAK0	Q T A I   D A A S T A Y M K N Y Q T S Q T S T T K A   V S N Y Q T R   A A   V K T   I D
UniRef90_B9JAK0	Q T A I   D A A S T A Y M K N Y Q T S Q T S T T K A   V S N Y Q T R   A A   V K T   I D
UniRef90_B9JAK0	Q T A I   D A A S T A Y M K N Y Q T S Q T S T T K A   V S N Y Q T R   A A   V K T   I D
UniRef90_A4EG08	T E I I   D R F E A Q Q F A R A I   G E Q N N D M R   L A S N V N S G   V A D   V R W F
UniRef90_U4PWJ9	T A T Q K R L I   N E T Y V L S Y P   T Q T G A   V L N R D F F A Q K M N E   T D A Q
UniRef90_U4PWJ9	T A T Q K R L I   N E T Y V L S Y P   T Q T G A   V L N R D F F A Q K M N E   T D A Q
UniRef90_U4PWJ9	T A T Q K R L I   N E T Y V L S Y P   T Q T G A   V L N R D F F A Q K M N E   T D A Q
UniRef90_U4PWJ9	T A T Q K R L I   N E T Y V L S Y P   T Q T G A   V L N R D F F A Q K M N E   T D A Q
UniRef90_U4PWJ9	T A T Q K R L I   N E T Y V L S Y P   T Q T G A   V L N R D F F A Q K M N E   T D A Q
UniRef90_UPI0003735D45	S E T T A A F D E N   Y E V L I A N T D T E D A   V D N Y T T R   I A S V T S I   D
UniRef90_UPI0003735D45	S E T T A A F D E N   Y E V L I A N T D T E D A   V D N Y T T R   I A S V T S I   D
UniRef90_UPI0003735D45	S E T T A A F D E N   Y E V L I A N T D T E D A   V D N Y T T R   I A S V T S I   D
UniRef90_UPI0003735D45	S E T T A A F D E N   Y E V L I A N T D T E D A   V D N Y T T R   I A S V T S I   D
UniRef90_UPI0003735D45	S E T T A A F D E N   Y E V L I A N T D T E D A   V D N Y T T R   I A S V T S I   D
UniRef90_K2JX85	K E I T D K Y   L T N Q F E K N L   G G G N E S   L R E A A Y F R R K   V A E V A D   Y
UniRef90_A0A059ILK4	D K I L V A Y   D S R R F E T A V   G D Q D G N M R L V L A   L Q R D   L G D V T K W F
UniRef90_W6WDM3	T S T R S D Y   M S R W D D K Q E A D   L E K T I K   A Y K   L D L   S A   T T L   D
UniRef90_W6WDM3	T S T R S D Y   M S R W D D K Q E A D   L E K T I K   A Y K   L D L   S A   T T L   D
UniRef90_W6WDM3	T S T R S D Y   M S R W D D K Q E A D   L E K T I K   A Y K   L D L   S A   T T L   D
UniRef90_W8HZR7	V N T A K A Y   V E K S R F G T E   D E K K T A K A K A E   Y Y T T Q   Q K   E T   L   D
UniRef90_W8HZR7	V N T A K A Y   V E K S R F G T E   D E K K T A K A K A E   Y Y T T Q   Q K   E T   L   D
UniRef90_W8HZR7	V N T A K A Y   V E K S R F G T E   D E K K T A K A K A E   Y Y T T Q   Q K   E T   L   D
UniRef90_W8HZR7	V N T A K A Y   V E K S R F G T E   D E K K T A K A K A E   Y Y T T Q   Q K   E T   L   D
UniRef90_F7ZIC0	Q D I I A K Y   R A N S F E   I A T G S Q   Q D D S M R   V A L   F A Q R E   P A   L   A T W F
UniRef90_UPI0002558D5B	A E M T A R F   R E Q E   F I A V   G D Q D E T   M R F A L   N A K R   V L   G E   L T K W F
UniRef90_S9QEM8	Q E Q V D K Y   V E R E F I   I D D S A Q N S T   L G V V L   E F R E E K K A   P E   D S W Y
UniRef90_UPI000468955B	D D I T G R F   Y N Q Q F I   N A N D A Q N S T   V G T V L   E F R E E G E S   G S W F
UniRef90_UPI00046AE07E	E D I I A R Y K   A A S F E   V A A G T   Q D N A L   R I A L   Y A Q R E   L   P E   L T K W F
UniRef90_J3BMU8	Q A T A Q A R S T N S G A N A N   L D   Y F Q S K   G A   S N   V D
UniRef90_J3BMU8	Q A T A Q A R S T N S G A N A N   L D   Y F Q S K   G A   S N   V D
UniRef90_J3BMU8	Q A T A Q A R S T N S G A N A N   L D   Y F Q S K   G A   S N   V D
UniRef90_J3BMU8	Q A T A Q A R S T N S G A N A N   L D   Y F Q S K   G A   S N   V D
UniRef90_J3BMU8	Q A T A Q A R S T N S G A N A N   L D   Y F Q S K   G A   S N   V D
UniRef90_UPI000406CC79	T D I I E K K Y   A E K A T E D   G D S K S F   I K   K L T   L A Y E K S   L   S K   V K T   V D
UniRef90_UPI000406CC79	T D I I E K K Y   A E K A T E D   G D S K S F   I K   K L T   L A Y E K S   L   S K   V K T   V D
UniRef90_A9DDP7	S V L S S R Y   F S G Y   D D A D E A A D Q E A I R   R M Q   I   D   L   A T V E E
UniRef90_A9DDP7	S V L S S R Y   F S G Y   D D A D E A A D Q E A I R   R M Q   I   D   L   A T V E E
UniRef90_A9DDP7	S V L S S R Y   F S G Y   D D A D E A A D Q E A I R   R M Q   I   D   L   A T V E E
UniRef90_D0CU54	E K I I A Q K G   I V A R F E   S A V G E   S D E T M R   I A L Y   A Q H   S L   R E   L A K W Y
UniRef90_UPI0004691FB6	N E I I V D R F Y   Y N R Q F   I N E N D   Q N G T   V G T   V L E   F R E E   E V   A G   N S W F
UniRef90_Q7D105	DK L K A I   T D S Y   I   G S A P   R   V T P   T V   V A T   L   D Y F E S S K   G S   T T   V E E
UniRef90_Q7D105	DK L K A I   T D S Y   I   G S A P   R   V T P   T V   V A T   L   D Y F E S S K   G S   T T   V E E
UniRef90_Q7D105	DK L K A I   T D S Y   I   G S A P   R   V T P   T V   V A T   L   D Y F E S S K   G S   T T   V E E
UniRef90_Q7D105	DK L K A I   T D S Y   I   G S A P   R   V T P   T V   V A T   L   D Y F E S S K   G S   T T   V E E
UniRef90_D5ATD5	D E I I L   S K Y   E T R Q F E   T A V   G E   S D E S Y   R   L A M A A Q   R   D   G E   L A K W Y
UniRef90_A8LNJ7	D E I I I Q K Y   E T Q K F E E S   V G N   V N D   D   L R   L   A   L N   L K   R   E   S D   L A S   L F
UniRef90_F8JFU8	N T T V T   T A Y T   T S A S G A T   T Q   Q   Q T   L   A T A E S   N Y Y   T   S T   G S   T N   V D
UniRef90_F8JFU8	N T T V T   T A Y T   T S A S G A T   T Q   Q   Q T   L   A T A E S   N Y Y   T   S T   G S   T N   V D
UniRef90_F8JFU8	N T T V T   T A Y T   T S A S G A T   T Q   Q   Q T   L   A T A E S   N Y Y   T   S T   G S   T N   V D
UniRef90_F8JFU8	N T T V T   T A Y T   T S A S G A T   T Q   Q   Q T   L   A T A E S   N Y Y   T   S T   G S   T N   V D
UniRef90_F7U587	T T Q T A A T T S G Y M T   H Y N   D K D D A A D E K A L   T F K   S D   R S S   V T S   V K K
UniRef90_F7U587	T T Q T A A T T S G Y M T   H Y N   D K D D A A D E K A L   T F K   S D   R S S   V T S   V K K
UniRef90_F7U587	T T Q T A A T T S G Y M T   H Y N   D K D D A A D E K A L   T F K   S D   R S S   V T S   V K K
UniRef90_K2HAS9	D R L I V K   L Y   Q E R Q F E   V A I   G D S S E   D M R   L V L   G   E   R   D   G A   I A K W F
UniRef90_W6RQK4	A Q T I   G Q Q A R A T S S S Q   V S A N   L S   Y F Q T   V   P T   S N   V D
UniRef90_W6RQK4	A Q T I   G Q Q A R A T S S S Q   V S A N   L S   Y F Q T   V   P T   S N   V D
UniRef90_W6RQK4	A Q T I   G Q Q A R A T S S S Q   V S A N   L S   Y F Q T   V   P T   S N   V D
UniRef90_W6RQK4	A Q T I   G Q Q A R A T S S S Q   V S A N   L S   Y F Q T   V   P T   S N   V D
UniRef90_W6RQK4	A Q T I   G Q Q A R A T S S S Q   V S A N   L S   Y F Q T   V   P T   S N   V D
UniRef90_UPI00046EE795	N L I L   D G Y K T   N E F K F E   G E T   A P   G   I   R   E   A   M   Y   F   K   R   V   A   G   G   V   E   E   V S
UniRef90_UPI0003B49B8E	Q T I   G K A F   V Q R   F E F R   I   G E   G D E N   L   R   L   A   L   N   A   R   R   E   L   E   D   M   A   G   W Y
UniRef90_I3WZW9	E N K D A T N E   L Y   V Y S N S R   V T Q   Q A A L   L N K A Y   F E E K   I   E T   I   T T   V D
UniRef90_I3WZW9	E N K D A T N E   L Y   V Y S N S R   V T Q   Q A A L   L N K A Y   F E E K   I   E T   I   T T   V D
UniRef90_I3WZW9	E N K D A T N E   L Y   V Y S N S R   V T Q   Q A A L   L N K A Y   F E E K   I   E T   I   T T   V D
UniRef90_I3WZW9	E N K D A T N E   L Y   V Y S N S R   V T Q   Q A A L   L N K A Y   F E E K   I   E T   I   T T   V D
UniRef90_Q2CDG9	D V I V A R Y   E A R Q F E   R A V   G E   Q D E Q   L   R   I   A L   S   V   S   R   G   V   E   E   V   A   R   W F
UniRef90_M8AQP5	D N L K A   L T D A Y   I   G S A P   R   V T P   T V   V A T   L   D Y F E S S K   G S   K T   V T
UniRef90_M8AQP5	D N L K A   L T D A Y   I   G S A P   R   V T P   T V   V A T   L   D Y F E S S K   G S   K T   V T
UniRef90_M8AQP5	D N L K A   L T D A Y   I   G S A P   R   V T P   T V   V A T   L   D Y F E S S K   G S   K T   V T
UniRef90_M8AQP5	D N L K A   L T D A Y   I   G S A P   R   V T P   T V   V A T   L   D Y F E S S K   G S   K T   V T
UniRef90_A3PSB0	D R L I A G Q Y   R T Q S F   E A A   L   G E   V   D A N   L   G   A   L   T   L   D   R   E   M   A   T   A   S   W F
UniRef90UPI0004765687	V N E A Y A F A Q P   R   L   S S A A R   L   N Q E   Y Y E   S   T   G S   T S   V G
UniRef90UPI0004765687	V N E A Y A F A Q P   R   L   S S A A R   L   N Q E   Y Y E   S   T   G S   T S   V G
UniRef90UPI0004765687	V N E A Y A F A Q P   R   L   S S A A R   L   N Q E   Y Y E   S   T   G S   T S   V G
UniRef90UPI0004765687	V N E A Y A F A Q P   R   L   S S A A R   L   N Q E   Y Y E   S   T   G S   T S   V G
UniRef90_A3XDB9	Q E I A D K N   V V Q S F   E A A   L   G E   V   G   A   Q   D   V   S   M   Q   A   L   Y   A   E   R   E   V   D   V   T   W   L
UniRef90UPI0003F8BFD3	E A T N E   L Y   V R   V   T   P   Q   T   A   L   L   N K   A Y   F E E K   I   A S   T T   V   D
UniRef90UPI0003F8BFD3	E A T N E   L Y   V R   V   T   P   Q   T   A   L   L   N K   A Y   F E E K   I   A S   T T   V   D
UniRef90UPI0003F8BFD3	E A T N E   L Y   V R   V   T   P   Q   T   A   L   L   N K   A Y   F E E K   I   A S   T T   V   D
UniRef90UPI0003F8BFD3	E A T N E   L Y   V R   V   T   P   Q   T   A   L   L   N K   A Y   F E E K   I   A S   T T   V   D

170      180      190      200

UniRef90_B9JAK0	D F F A T N A L Y Q M A M R A Y G I S P D E M T K T Q M K K I L E S D P Y D
UniRef90_B9JAK0	D F F A T N A L Y Q M A M R A Y G I S P D E M T K T Q M K K I L E S D P Y D
UniRef90_B9JAK0	D F F A T N A L Y Q M A M R A Y G I S P D E M T K T Q M K K I L E S D P Y D
UniRef90_B9JAK0	D F F A T N A L Y Q M A M R A Y G I S P D E M T K T Q M K K I L E S D P Y D
UniRef90_B9JAK0	D F F A T N A L Y Q M A M R A Y G I S P D E M T K T Q M K K I L E S D P Y D
UniRef90_A4EG08	S [M G N A P L R E V F Q T A L G L P I D I D K Q R E V F Q E R A D V A Q I A T
UniRef90_U4PWJ9	Q L I S N S R L R T M L I V A F N L R D D T D T D K K I R K I L E S D P S D
UniRef90_U4PWJ9	Q L I S N S R L R T M L I V A F N L R D D T D T D K K I R K I L E S D P S D
UniRef90_U4PWJ9	Q L I S N S R L R T M L I V A F N L R D D T D T D K K I R K I L E S D P S D
UniRef90_U4PWJ9	Q L I S N S R L R T M L I V A F N L R D D T D T D K K I R K I L E S D P S D
UniRef90_U4PWJ9	Q L I S N S R L R T M L I V A F N L R D D T D T D K K I R K I L E S D P S D
UniRef90_UPI0003735D45	D F L D L P E L W E M A L R A Y D I D P D S V S R S E V R K I L E S D P S D
UniRef90_UPI0003735D45	D F L D L P E L W E M A L R A Y D I D P D S V S R S E V R K I L E S D P S D
UniRef90_UPI0003735D45	D F L D L P E L W E M A L R A Y D I D P D S V S R S E V R K I L E S D P S D
UniRef90_UPI0003735D45	D F L D L P E L W E M A L R A Y D I D P D S V S R S E V R K I L E S D P S D
UniRef90_UPI0003735D45	D F L D L P E L W E M A L R A Y D I D P D S V S R S E V R K I L E S D P S D
UniRef90_K2JX85	K L M G D K V L R S V I T D T L R I P K E I E R Q A K V I E S K V K P E D F K D
UniRef90_A0A059ILK4	T I M G T P P L R S V F E G A L G L P S D I D K Q L E T L Q E R T D V S Q F S D
UniRef90_W6WDM3	D F L L S S D A S Y D F A L E A V G I D P T T V S K L T I K N A L K S D L S D
UniRef90_W6WDM3	D F L L S S D A S Y D F A L E A V G I D P T T V S K L T I K N A L K S D L S D
UniRef90_W6WDM3	D F L L S S D A S Y D F A L E A V G I D P T T V S K L T I K N A L K S D L S D
UniRef90_W6WDM3	D F L L S S D A S Y D F A L E A V G I D P T T V S K L T I K N A L K S D L S D
UniRef90_W8HZR7	D F L K D K R L V D I V L I G A G I D P E G V K T D Y L K Q M F T S D L N D
UniRef90_W8HZR7	D F L K D K R L V D I V L I G A G I D P E G V K T D Y L K Q M F T S D L N D
UniRef90_W8HZR7	D F L K D K R L V D I V L I G A G I D P E G V K T D Y L K Q M F T S D L N D
UniRef90_W8HZR7	D F L K D K R L V D I V L I G A G I D P E G V K T D Y L K Q M F T S D L N D
UniRef90_F7ZIC0	G [M G Q P P L R A V F E K A L N L P S D I D Q Q L V V F K E R S E V S Q F A G
UniRef90UPI0002558D5B	K I M G N P P L R E V F E T A F G L P T D I D Q Q L E V F K D R A E D E D L Q D
UniRef90_S9QEM8	K I L A D E D F G D F M R T V L N L P L D V D K Q K E M F E D A Y D I E K L Q E
UniRef90UPI000468955B	D V L A N E K L T N F F Q V A L G L P L D L D K Q K Q L F E D K F D L A D L A D
UniRef90UPI00046AE07E	T V L S D P P M R E L F E R A F N L P S D I D Q Q L G V F K D R A D L A M F D D
UniRef90_J3BMU8	Q L I I A D Q K L T S L I K S V Y R M P A D
UniRef90_J3BMU8	Q L I I A D Q K L T S L I K S V Y R M P A D
UniRef90_J3BMU8	Q L I I A D Q K L T S L I K S V Y R M P A D
UniRef90_J3BMU8	Q L I I A D Q K L T S L I K S V Y R M P A D
UniRef90_J3BMU8	Q L I I A D Q K L T S L I K S V Y R M P A D
UniRef90UPI000406CC79	D F L L A D D T L V A Y A T R A F G V P P G T A A A N E K I F L K R I L T S D P A D
UniRef90UPI000406CC79	D F L L A D D T L V A Y A T R A F G V P P G T A A A N E K I F L K R I L T S D P A D
UniRef90_A9DDP7	D L F N S S A V Y S F A M Q A A E L P N E I P Q R I M R K V L T S D L L Q D
UniRef90_A9DDP7	D L F N S S A V Y S F A M Q A A E L P N E I P Q R I M R K V L T S D L L Q D
UniRef90_A9DDP7	D L F N S S A V Y S F A M Q A A E L P N E I P Q R I M R K V L T S D L L Q D
UniRef90_A9DDP7	D L F N S S A V Y S F A M Q A A E L P N E I P Q R I M R K V L T S D L L Q D
UniRef90_D0CU54	D L M S L P L R S M M E T A L G L P S D I D Q Q L E I F R D K L D L S Q F V S
UniRef90UPI0004691FB6	E V L A D E K L T K F F Q I T L N P L D L E V Q K K L F E D K Y D L A D L A D
UniRef90_Q7D105	U N I M S D A R L L N Y V R T A F D L P A T I K N I L T S D L L S D D
UniRef90_Q7D105	U N I M S D A R L L N Y V R T A F D L P A T I K N I L T S D L L S D D
UniRef90_Q7D105	U N I M S D A R L L N Y V R T A F D L P A T I K N I L T S D L L S D D
UniRef90_Q7D105	U N I M S D A R L L N Y V R T A F D L P A T I K N I L T S D L L S D D
UniRef90_D5ATD5	S V I G S K S L S T V M R T A L G L P L D V D Q Q L V I Y T Q K A K F S T F S D D
UniRef90_A8LNJ7	T V L G S P P L R T T F E T A F R L P S D I D R Q V T V L I E E K I S I S Q F K D
UniRef90_F8JFU8	D F L K D Q R L V N Y A L L D A Y N L K D A N L T T R K I L T S D P T D
UniRef90_F8JFU8	D F L K D Q R L V N Y A L L D A Y N L K D A N L T T R K I L T S D P T D
UniRef90_F8JFU8	D F L K D Q R L V N Y A L L D A Y N L K D A N L T T R K I L T S D P T D
UniRef90_F8JFU8	D F L K D Q R L V N Y A L L D A Y N L K D A N L T T R K I L T S D P T D
UniRef90_F7U587	D F L E S S A V Y T Y A L K A V G L P A D I R K V L T S D L L Q D
UniRef90_F7U587	D F L E S S A V Y T Y A L K A V G L P A D I R K V L T S D L L Q D
UniRef90_F7U587	D F L E S S A V Y T Y A L K A V G L P A D I R K V L T S D L L Q D
UniRef90_F7U587	D F L E S S A V Y T Y A L K A V G L P A D I R K V L T S D L L Q D
UniRef90_K2HAS9	S V M A A A P L R K V F E T A L G L P L D L D R Q L T E F R S K A D I A K I A A
UniRef90_W6RQK4	N L I I A D G Q M M N T I R S V Y G V P G S V S
UniRef90_W6RQK4	N L I I A D G Q M M N T I R S V Y G V P G S V S
UniRef90_W6RQK4	N L I I A D G Q M M N T I R S V Y G V P G S V S
UniRef90_W6RQK4	N L I I A D G Q M M N T I R S V Y G V P G S V S
UniRef90_W6RQK4	N L I I A D G Q M M N T I R S V Y G V P G S V S
UniRef90UPI00046EE795	Q I L A D K S L M H V V R V G L G L P L E Y E Q Q K A R L E K Q I D I E D F K D
UniRef90UPI0003B49B8E	E V M G N A P L R E V F E G A G F G L G D V D R Q L E E F L G S S S F A D L T E
UniRef90_I3WZW9	E L V S D T R L Y G Y I I R T A F D L T G V T V V S A T I K N I L T S D P D D
UniRef90_I3WZW9	E L V S D T R L Y G Y I I R T A F D L T G V T V V S A T I K N I L T S D P D D
UniRef90_I3WZW9	E L V S D T R L Y G Y I I R T A F D L T G V T V V S A T I K N I L T S D P D D
UniRef90_I3WZW9	E L V S D T R L Y G Y I I R T A F D L T G V T V V S A T I K N I L T S D P D D
UniRef90_I3WZW9	E L V S D T R L Y G Y I I R T A F D L T G V T V V S A T I K N I L T S D P D D
UniRef90_Q2CDG9	A I M G N A P L R S V F E T A L G F S S D I D Q Q L E Q F Q E R T D P A D F E N
UniRef90_M8AQP5	E L T A D T R L L N Y I I R T A F D L N D L T V V T A T I I Q N I L T S D L L S D
UniRef90_M8AQP5	E L T A D T R L L N Y I I R T A F D L N D L T V V T A T I I Q N I L T S D L L S D
UniRef90_M8AQP5	E L T A D T R L L N Y I I R T A F D L N D L T V V T A T I I Q N I L T S D L L S D
UniRef90_M8AQP5	E L T A D T R L L N Y I I R T A F D L N D L T V V T A T I I Q N I L T S D L L S D
UniRef90_A3PSB0	S V L G S T S L R A V F D G A F G L P L D L D R Q V E I Y Q D R T S A S Q F A A
UniRef90UPI0004765687	D I L S D S R L F A Y I I R I A Y G L P P S S L I T S T M E N I L T S D L L S D
UniRef90UPI0004765687	D I L S D S R L F A Y I I R I A Y G L P P S S L I T S T M E N I L T S D L L S D
UniRef90UPI0004765687	D I L S D S R L F A Y I I R I A Y G L P P S S L I T S T M E N I L T S D L L S D
UniRef90UPI0004765687	D I L S D S R L F A Y I I R I A Y G L P P S S L I T S T M E N I L T S D L L S D
UniRef90_A3XDB9	N I I G Q P Q L Q S M M Q T T L G L P S D I D Q Q V D I L K K R F D L K M F S D
UniRef90UPI0003F8BFD3	Q L V A D T R L L Y D Y V R T A F D L P A T I K N I L T S D P T D D
UniRef90UPI0003F8BFD3	Q L V A D T R L L Y D Y V R T A F D L P A T I K N I L T S D P T D D
UniRef90UPI0003F8BFD3	Q L V A D T R L L Y D Y V R T A F D L P A T I K N I L T S D P T D D
UniRef90UPI0003F8BFD3	Q L V A D T R L L Y D Y V R T A F D L P A T I K N I L T S D P T D D

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UniRef90_B9JAK0	P K S Y   V   N S   L   K R F T N   L   A K A F N
UniRef90_B9JAK0	P K S Y   V   N S   L   K R F T N   L   A K A F N
UniRef90_B9JAK0	P K S Y   V   N S   L   K R F T N   L   A K A F N
UniRef90_B9JAK0	P K S Y   V   N S   L   K R F T N   L   A K A F N
UniRef90_B9JAK0	P K S Y   V   N S   L   K R F T N   L   A K A F N
UniRef90_A4EG08	P K Q E E K   I   R   L   F   I   R S E A N
UniRef90_U4PWJ9	
UniRef90_UP10003735D45	S K S Y   V   N S   L   D R F   V   A F R K A F N
UniRef90_UP10003735D45	S K S Y   V   N S   L   D R F   V   A F R K A F N
UniRef90_UP10003735D45	S K S Y   V   N S   L   D R F   V   A F R K A F N
UniRef90_UP10003735D45	S K S Y   V   N S   L   D R F   V   A F R K A F N
UniRef90_UP10003735D45	S K S Y   V   N S   L   D R F   V   A F R K A F N
UniRef90_UP10003735D45	S K S Y   V   N S   L   D R F   V   A F R K A F N
UniRef90_K2JX85	P A F   V   D K F   I   A R F   L   T   Q K D A E
UniRef90_A0A059ILK4	P A Q M E K   L   A R   L   F   L   V   R A E   L
UniRef90_W6WDM3	P
UniRef90_W8HZR7	
UniRef90_W8HZR7	
UniRef90_W8HZR7	
UniRef90_W8HZR7	
UniRef90_F7ZICO	D E A   V   Q   D   L   V   T   K   Y   I   V   R   S   Q   L   D
UniRef90_UP10002558D5B	K L   V   R   T   Y   M   L   R   D   Q   L   N
UniRef90_S9QEM8	P G E   I   D   R   L   T   E   K   Y   A   L   I   K   D   I   E   N   P
UniRef90_UP1000468955B	P A E   E   R   E   R   L   I   S   R   Y   V   A   I   S   D   V     N   P
UniRef90_UP100046AE07E	P D M   V   Q   D   A   I   T   K   F   I   V   R   D   Q   L
UniRef90_J3BMU8	
UniRef90_UP1000406CC79	S K S F
UniRef90_UP1000406CC79	S K S F
UniRef90_A9DDP7	P
UniRef90_D0CU54	T Q A   I   Q   S   L   T   D   T   Y   L   A   R   S   Q   I
UniRef90_UP10004691FB6	P A E   Q   E   R   M   I   T   R   Y   M   A   I   S   D   V   L   N   P
UniRef90_Q7D105	P A T   M   G   K   N   D   K   R   Y   L   A   L   K   N   A   F   N
UniRef90_Q7D105	P A T   M   G   K   N   D   K   R   Y   L   A   L   K   N   A   F   N
UniRef90_Q7D105	P A T   M   G   K   N   D   K   R   Y   L   A   L   K   N   A   F   N
UniRef90_Q7D105	P A T   M   G   K   N   D   K   R   Y   L   A   L   K   N   A   F   N
UniRef90_Q7D105	P A T   M   G   K   N   D   K   R   Y   L   A   L   K   N   A   F   N
UniRef90_D5ATD5	S A   V   M   E   K   T   I   R   L   Y   L   V   R   S   Q   L   E
UniRef90_A8LNJ7	P D   L   S   E   R   L   I   Q   K   F   L   L   Q   S   E   L
UniRef90_F8JFU8	P
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  A K Q A L F T D A E K H Y K T A V G G
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  K E E T R Y Y N V M I D D
  K E E T R Y Y N V M I D D
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UniRef90_A0A059E5K1	S P I I A M E D   F L S D K R   L L R I S L T A F D   L G E E W K V G Y I R H V M D E				
UniRef90_Q0C5J5	Q P I S V E D   F L K D S R   L V R V T M T A F D   A G E E W K K G F I K K T L E E E				
UniRef90_G8PJM9	N V G L T V Q   L L A D P A   L Y K V V T I A Y D   P Q E I I I D G P K E E R I F D K				
UniRef90_G8PJM9	N V G L T V Q   L L A D P A   L Y K V V T I A Y D   P Q E I I I D G P K E E R I F D K				
UniRef90_B1M710	T L Q T A Q D   I I V A D   T T L T D I V W S T   L G L D P K A Q A A L I A K N L D R R				
UniRef90_B1M710	T L Q T A Q D   I I V A D   T T L T D I V W S T   L G L D P K A Q A A L I A K N L D R R				
UniRef90_U6B5L9	K I N S V D K   L I A D D K K   L D Y V L N A F D   I N T N H I S P F L R R N L T H H				
UniRef90_U6B5L9	K I N S V D K   L I A D D K K   L D Y V L N A F D   I N T N H I S P F L R R N L T H H				
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UniRef90_S9QB14	S V R S A E D   L L V S N R S   L L S V A L T A F F G L   E A D L Q N K F L I K K V L E E E				
UniRef90_A8U340	K L S T V D D   L L K D R R   T L S F V L S A F G L   E S E V N P G K L K A V L N				
UniRef90_E4UB12	D I K S V D Q F   L N M K P K L E F A L Q A Y G   I K K N D L N K Y R R L R D I L I S S				
UniRef90_E4UB12	D I K S V D Q F   L N M K P K L E F A L Q A Y G   I K K N D L N K Y R R L R D I L I S S				
UniRef90_X6L2C0	T I N S A E D   L L V N D R R   L L S S V A L S A F G L   E D K I D A K F L I R T V L E E E				
UniRef90_X6L2C0	T I N S A E D   L L V N D R R   L L S S V A L S A F G L   E D K I D A K F L I R T V L E E E				

90                  100                  110                  120

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UniRef90_A3T056	D P V E P S S   S L L N R   T D S R F R E M H   L A L G F T T E A G P Q T T D P D F L		
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UniRef90_U4PQY6	D L N D P P N N Y   I A T K N D K R Y   L A M R N A F N F K T D G T L   L A P Q T T L Q T		
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UniRef90_F0L6T2	I T A E E Q T Q   L S N T   V S Q N T   M A Q M A Q A F E F A N D G T   V A A G Q A Q T A		
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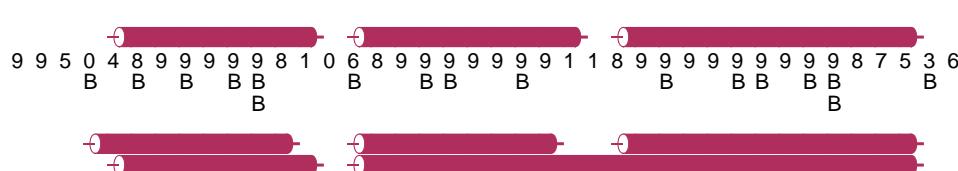
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A T T T S G Y M T H Y G E K D D A A D E K A L T L   F K S D   R S V T S V K	A T T T S G Y M T H Y G E K D D A A D E K A L T L   F K S D   R S V T S V K
A T T T S G Y M T H Y G E K D D A A D E K A L T L   F K S D   R S V T S V K	A T T T S G Y M T H Y G E K D D A A D E K A L T L   F K S D   R S V T S V K
A T T T S G Y M T H Y G E K D D A A D E K A L T L   F K S D   R S V T S V K	A T T T S G Y M T H Y G E K D D A A D E K A L T L   F K S D   R S V T S V K
E D L S Q K Y I L N E F E K A   G N N N P A L R E A T Y F   L R N G N V T S P Y	E D L S Q K Y I L N E F E K A   G N N N P A L R E A T Y F   L R N G N V T S P Y
A T V A S G Y M S R Y N D K D E E A D E E L A I R R   F K S Q   G A V K T V N	A T V A S G Y M S R Y N D K D E E A D E E L A I R R   F K S Q   G A V K T V N
A T V A S G Y M S R Y N D K D E E A D E E L A I R R   F K S Q   G A V K T V N	A T V A S G Y M S R Y N D K D E E A D E E L A I R R   F K S Q   G A V K T V N
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N S L I S A Y S K S K T F G   L T G E R D K A V K D A T D F S S K S V K   K T V D	N S L I S A Y S K S K T F G   L T G E R D K A V K D A T D F S S K S V K   K T V D
E N K Q A T N E L Y V S S N S R V T T Q Q A A L L N K A Y F E E G K   A T T S V D	E N K Q A T N E L Y V S S N S R V T T Q Q A A L L N K A Y F E E G K   A T T S V D
E N K Q A T N E L Y V S S N S R V T T Q Q A A L L N K A Y F E E G K   A T T S V D	E N K Q A T N E L Y V S S N S R V T T Q Q A A L L N K A Y F E E G K   A T T S V D
E N K Q A T N E L Y V S S N S R V T T Q Q A A L L N K A Y F E E G K   A T T S V D	E N K Q A T N E L Y V S S N S R V T T Q Q A A L L N K A Y F E E G K   A T T S V D
A K I A V N F E A Q S F R T A V G D V D D S M R L A   L N Y Q S E A G M V G T Y	A K I A V N F E A Q S F R T A V G D V D D S M R L A   L N Y Q S E A G M V G T Y
U n i R e f 9 0 _ C 3 M H E 9	U n i R e f 9 0 _ C 3 M H E 9
U n i R e f 9 0 _ C 3 M H E 9	U n i R e f 9 0 _ C 3 M H E 9
U n i R e f 9 0 _ C 3 M H E 9	U n i R e f 9 0 _ C 3 M H E 9
U n i R e f 9 0 _ C 3 M H E 9	U n i R e f 9 0 _ C 3 M H E 9
D N V K I L T Q A Y V G S A P R V T P T V A T L   D Y F E E S K K G S   K T V D	D N V K I L T Q A Y V G S A P R V T P T V A T L   D Y F E E S K K G S   K T V D
D N V K I L T Q A Y V G S A P R V T P T V A T L   D Y F E E S K K G S   K T V D	D N V K I L T Q A Y V G S A P R V T P T V A T L   D Y F E E S K K G S   K T V D
D N V K I L T Q A Y V G S A P R V T P T V A T L   D Y F E E S K K G S   K T V D	D N V K I L T Q A Y V G S A P R V T P T V A T L   D Y F E E S K K G S   K T V D
D N V K I L T Q A Y V G S A P R V T P T V A T L   D Y F E E S K K G S   K T V D	D N V K I L T Q A Y V G S A P R V T P T V A T L   D Y F E E S K K G S   K T V D
D K V Q R F V Q Q T Y I N D E A K Q N A T V G   V A L E F R Q K A P S V K S W Y	D K V Q R F V Q Q T Y I N D E A K Q N A T V G   V A L E F R Q K A P S V K S W Y
E S V A G R Y V E Q A M Q A Q Q G A Q N P G V E L A L Y F R E Q A P Q L T S V Y	E S V A G R Y V E Q A M Q A Q Q G A Q N P G V E L A L Y F R E Q A P Q L T S V Y
T K F T E S Y V Q Q R Y E E K   L A E T N P A I P D A M A F E R   V K D L T N P Y	T K F T E S Y V Q Q R Y E E K   L A E T N P A I P D A M A F E R   V K D L T N P Y
Q A T S V N Y M A R Y D D E A K A A I E E   V A N Y K T R M S S D V D S I N N	Q A T S V N Y M A R Y D D E A K A A I E E   V A N Y K T R M S S D V D S I N N
Q A T S V N Y M A R Y D D E A K A A I E E   V A N Y K T R M S S D V D S I N N	Q A T S V N Y M A R Y D D E A K A A I E E   V A N Y K T R M S S D V D S I N N
Q A T S V N Y M A R Y D D E A K A A I E E   V A N Y K T R M S S D V D S I N N	Q A T S V N Y M A R Y D D E A K A A I E E   V A N Y K T R M S S D V D S I N N
Q A T S V N Y M A R Y D D E A K A A I E E   V A N Y K T R M S S D V D S I N N	Q A T S V N Y M A R Y D D E A K A A I E E   V A N Y K T R M S S D V D S I N N
E K T I I Q D Y R D T Q L   E R K K N E K D L   N P E I T Y F F E E N I R K H H P D D	E K T I I Q D Y R D T Q L   E R K K N E K D L   N P E I T Y F F E E N I R K H H P D D
E K T I I Q D Y R D T Q L   E R K K N E K D L   N P E I T Y F F E E N I R K H H P D D	E K T I I Q D Y R D T Q L   E R K K N E K D L   N P E I T Y F F E E N I R K H H P D D
E K T I I Q D Y R D T Q L   E R K K N E K D L   N P E I T Y F F E E N I R K H H P D D	E K T I I Q D Y R D T Q L   E R K K N E K D L   N P E I T Y F F E E N I R K H H P D D
E K T I I Q D Y R D T Q L   E R K K N E K D L   N P E I T Y F F E E N I R K H H P D D	E K T I I Q D Y R D T Q L   E R K K N E K D L   N P E I T Y F F E E N I R K H H P D D
N N T V F E Y F A K T S E Q A A A Y Q V S	N N T V F E Y F A K T S E Q A A A Y Q V S
N N T V F E Y F A K T S E Q A A A Y Q V S	N N T V F E Y F A K T S E Q A A A Y Q V S
N N T V F E Y F A K T S E Q A A A Y Q V S	N N T V F E Y F A K T S E Q A A A Y Q V S
N N T V F E Y F A K T S E Q A A A Y Q V S	N N T V F E Y F A K T S E Q A A A Y Q V S
A K M A S N Y N A Q T G N A Q A K Q A D T D Y   L N A F F S A D N A T K T V S A F	A K M A S N Y N A Q T G N A Q A K Q A D T D Y   L N A F F S A D N A T K T V S A F
A K M A S N Y N A Q T G N A Q A K Q A D T D Y   L N A F F S A D N A T K T V S A F	A K M A S N Y N A Q T G N A Q A K Q A D T D Y   L N A F F S A D N A T K T V S A F
A K M A S N Y N A Q T G N A Q A K Q A D T D Y   L N A F F S A D N A T K T V S A F	A K M A S N Y N A Q T G N A Q A K Q A D T D Y   L N A F F S A D N A T K T V S A F
A K M A T D F E T A S F E S A V G E   V D D D M R L   L S   N Y K S E   G T   I A I L Y	A K M A T D F E T A S F E S A V G E   V D D D M R L   L S   N Y K S E   G T   I A I L Y
E Q L G D N F E S A A F R   L A V G D V D E N M R L   L G L   N Y Q Q Q I   I D   I A G A Y	E Q L G D N F E S A A F R   L A V G D V D E N M R L   L G L   N Y Q Q Q I   I D   I A G A Y
I I T K Y D D R S F E K N I G E R Y P E I E   L A L N A Q R E   L P S L A S W Y	I I T K Y D D R S F E K N I G E R Y P E I E   L A L N A Q R E   L P S L A S W Y
Q E T A K T Y V N K S R F G S E E D K   K A E A E A E A E A E Y Y T A E   V A K L A S L D	Q E T A K T Y V N K S R F G S E E D K   K A E A E A E A E A E Y Y T A E   V A K L A S L D
Q E T A K T Y V N K S R F G S E E D K   K A E A E A E A E A E Y Y T A E   V A K L A S L D	Q E T A K T Y V N K S R F G S E E D K   K A E A E A E A E Y Y T A E   V A K L A S L D
Q E T A K T Y V N K S R F G S E E D K   K A E A E A E A E A E Y Y T A E   V A K L A S L D	Q E T A K T Y V N K S R F G S E E D K   K A E A E A E A E Y Y T A E   V A K L A S L D
Q E T A K T Y V N K S R F G S E E D K   K A E A E A E A E A E Y Y T A E   V A K L A S L D	Q E T A K T Y V N K S R F G S E E D K   K A E A E A E A E Y Y T A E   V A K L A S L D
S S I I E K Y E I R S L E K N I I G G R Y P E I E   L A L N A R R E   L S D   A K W Y	S S I I E K Y E I R S L E K N I I G G R Y P E I E   L A L N A R R E   L S D   A K W Y
E D L A E L Y V K N K Y D A G L   S S Q N S A V P   L A M Y F K E N A G T A R N M Y	E D L A E L Y V K N K Y D A G L   S S Q N S A V P   L A M Y F K E N A G T A R N M Y
U n i R e f 9 0 _ S 9 Q X 6 3	U n i R e f 9 0 _ S 9 Q X 6 3
E R I I A R Y E R Q V F Q E A V G E R D G A M R L   A D   L A E R T G N A N A Q W Y	E R I I A R Y E R Q V F Q E A V G E R D G A M R L   A D   L A E R T G N A N A Q W Y
D P I F A A Y E K K V F E T Q V K R N I   I E   S R E   Y F N D N I   I G S   I T S P D	D P I F A A Y E K K V F E T Q V K R N I   I E   S R E   Y F N D N I   I G S   I T S P D
D P I F A A Y E K K V F E T Q V K R N I   I E   S R E   Y F N D N I   I G S   I T S P D	D P I F A A Y E K K V F E T Q V K R N I   I E   S R E   Y F N D N I   I G S   I T S P D
L A T D D L Y L H Q S L E S Q Q G A S N D G V R L   A L Y F F Q R K A P Q   V N S V Y	L A T D D L Y L H Q S L E S Q Q G A S N D G V R L   A L Y F F Q R K A P Q   V N S V Y
K G I V E Q Y I Q V S F E E G E G E Q N E G V R L   A L N F Q Q R T G G N   I T S A Y	K G I V E Q Y I Q V S F E E G E G E Q N E G V R L   A L N F Q Q R T G G N   I T S A Y
K G I V E Q Y I Q V S F E E G E G E Q N E G V R L   A L N F Q Q R T G G N   I T S A Y	K G I V E Q Y I Q V S F E E G E G E Q N E G V R L   A L N F Q Q R T G G N   I T S A Y
G D I I L A S Y D K R I L   E E P   E Y A N N P   I A A E T L Y F F R E T I   I G S   V T S V D	G D I I L A S Y D K R I L   E E P   E Y A N N P   I A A E T L Y F F R E T I   I G S   V T S V D
G D I I L A S Y D K R I L   E E P   E Y A N N P   I A A E T L Y F F R E T I   I G S   V T S V D	G D I I L A S Y D K R I L   E E P   E Y A N N P   I A A E T L Y F F R E T I   I G S   V T S V D
G S I I D K A L E N R F E K D A G D G N T   G   R E A L Y F Q R K A P Q   V N S S L A	G S I I D K A L E N R F E K D A G D G N T   G   R E A L Y F Q R K A P Q   V N S S L A
S T L S D N F E L A S F R S A V G D V D   N N M K L   L S   N F Q Q A K I   G D   A N L Y	S T L S D N F E L A S F R S A V G D V D   N N M K L   L S   N F Q Q A K I   G D   A N L Y
M A V R F E S N S F E   I A V G D V D D S M R L   L S   N Y K S E   I N T   V G A Y	M A V R F E S N S F E   I A V G D V D D S M R L   L S   N Y K S E   I N T   V G A Y
K N I V E K Y I Q V S F E E D E G E Q N E G V R L   A L N F Q Q R T A K D   T D A Y	K N I V E K Y I Q V S F E E D E G E Q N E G V R L   A L N F Q Q R T A K D   T D A Y
K N I V E K Y I Q V S F E E D E G E Q N E G V R L   A L N F Q Q R T A K D   T D A Y	K N I V E K Y I Q V S F E E D E G E Q N E G V R L   A L N F Q Q R T A K D   T D A Y
S A T V D A Y V R Q T   L E D D A G A Q D Q G T R   L A L Y F F K R Q A G T   K S   I Y	S A T V D A Y V R Q T   L E D D A G A Q D Q G T R   L A L Y F F K R Q A G T   K S   I Y
S A T V D A Y V R Q T   L E D D A G A Q D Q G T R   L A L Y F F K R Q A G T   K S   I Y	S A T V D A Y V R Q T   L E D D A G A Q D Q G T R   L A L Y F F K R Q A G T   K S   I Y
E N I I N K Y L R K T Y F   V P E K N A N D R F   Y Y E S S N   I N S S S I E	E N I I N K Y L R K T Y F   V P E K N A N D R F   Y Y E S S N   I N S S S I E
E N I I N K Y L R K T Y F   V P E K N A N D R F   Y Y E S S N   I N S S S I E	E N I I N K Y L R K T Y F   V P E K N A N D R F   Y Y E S S N   I N S S S I E
E N I I N K Y L R K T Y F   V P E K N A N D R F   Y Y E S S N   I N S S S I E	E N I I N K Y L R K T Y F   V P E K N A N D R F   Y Y E S S N   I N S S S I E
N Q I S N R Y V D K K F E T L V   G E Q D N N L   R   L A L S G R A E   S L   A S W Y	N Q I S N R Y V D K K F E T L V   G E Q D N N L   R   L A L S G R A E   S L   A S W Y
D E V I E K Y T A R K F E   I L V   G E K Q D K S D L   R Q A L S F D R E   E R   A K W L	D E V I E K Y T A R K F E   I L V   G E K Q D K S D L   R Q A L S F D R E   E R   A K W L
S Q L I D K F L T N G F E Q S L   A A Q N P   A A R D A L   F F L   R R   N S V T F	S Q L I D K F L T N G F E Q S L   A A Q N P   A A R D A L   F F L   R R   N S V T F
R D N V M N Y I K K S L   E N K I F S S A Q N I   R   I V E Y Y T S N   Q T   H S F N N	R D N V M N Y I K K S L   E N K I F S S A Q N I   R   I V E Y Y T S N   Q T   H S F N N
R D N V M N Y I K K S L   E N K I F S S A Q N I   R   I V E Y Y T S N   Q T   H S F N N	R D N V M N Y I K K S L   E N K I F S S A Q N I   R   I V E Y Y T S N   Q T   H S F N N
R D N V M N Y I K K S L   E N K I F S S A Q N I   R   I V E Y Y T S N   Q T   H S F N N	R D N V M N Y I K K S L   E N K I F S S A Q N I   R   I V E Y Y T S N   Q T   H S F N N
A N M I A Q Y R E K V M E A G L   A E S S D T V   R E T A F F K E N   G K   V S S A Q Q	A N M I A Q Y R E K V M E A G L   A E S S D T V   R E T A F F K E N   G K   V S S A Q Q
A N M I A Q Y R E K V M E A G L   A E S S D T V   R E T A F F K E N   G K   V S S A Q Q	A N M I A Q Y R E K V M E A G L   A E S S D T V   R E T A F F K E N   G K   V S S A Q Q

170            180            190            200

UniRef90_UPI0003F8BFD3	Q  L   V   A   D   T   R   L   Y   D   Y   V   R   T   A   F   D   L   P   A   T   I   K   N   I   L   T   S   D   P   D   D
UniRef90_B61XT4	Q  I   L   A   D   R   A   L   S   Y   V   V   R   K   G   L   N   L   P   Q   D   F   D   Q   Q   K   R   Y   L   E   K   K   L   D   L   T   K   F   K   D
UniRef90_A3T056	E  V   L   A   N   E   K   L   T   N   F   F   Q   V   A   L   S   L   P   L   D   Q   D   F   D   Q   Q   K   R   Y   L   E   K   K   L   D   L   T   K   F   K   D
UniRef90_U4PQY6	D  F   L   D   S   S   A   V   Y   N   Y   A   L   K   A   V   G   L   D   P   A   K   V   N   A   A   D   I   R   K   V   L   T   S   D   L   Q   D
UniRef90_U4PQY6	D  F   L   D   S   S   A   V   Y   N   Y   A   L   K   A   V   G   L   D   P   A   K   V   N   A   A   D   I   R   K   V   L   T   S   D   L   Q   D
UniRef90_U4PQY6	D  F   L   D   S   S   A   V   Y   N   Y   A   L   K   A   V   G   L   D   P   A   K   V   N   A   A   D   I   R   K   V   L   T   S   D   L   Q   D
UniRef90_K2JTK2	D  I   L   G   D   N   V   L   R   S   V   V   T   F   T   L   N   L   P   A   Q   I   E   T   Q   A   R   L   I   E   G   R   L   D   L   E   K   F   K
UniRef90_A0A021X4M7	E  F   V   G   E   A   S   L   Y   D   F   A   L   K   A   F   G   F   D   P   A   K   V   S   A   L   T   V   K   N   V   L   K   S   D   L   N   D
UniRef90_A0A021X4M7	E  F   V   G   E   A   S   L   Y   D   F   A   L   K   A   F   G   F   D   P   A   K   V   S   A   L   T   V   K   N   V   L   K   S   D   L   N   D
UniRef90_A0A021X4M7	E  F   V   G   E   A   S   L   Y   D   F   A   L   K   A   F   G   F   D   P   A   K   V   S   A   L   T   V   K   N   V   L   K   S   D   L   N   D
UniRef90_A0A021X4M7	E  F   V   G   E   A   S   L   Y   D   F   A   L   K   A   F   G   F   D   P   A   K   V   S   A   L   T   V   K   N   V   L   K   S   D   L   N   D
UniRef90_L0LVP9	D  L   L   A   D   K   K   L   T   E   F   I   L   V   A   N   N   I   P   K   S   V   D   K   A   T   L   K   K   A   F   T   A   D
UniRef90_L0LVP9	D  L   L   A   D   K   K   L   T   E   F   I   L   V   A   N   N   I   P   K   S   V   D   K   A   T   L   K   K   A   F   T   A   D
UniRef90_L0LVP9	D  L   L   A   D   K   K   L   T   E   F   I   L   V   A   N   N   I   P   K   S   V   D   K   A   T   L   K   K   A   F   T   A   D
UniRef90_G9A1V6	D  L   V   S   D   A   R   L   Y   S   Y   I   R   T   A   F   D   L   P   A   T   I   K   N   I   L   T   S   D   P   D   D
UniRef90_G9A1V6	D  L   V   S   D   A   R   L   Y   S   Y   I   R   T   A   F   D   L   P   A   T   I   K   N   I   L   T   S   D   P   D   D
UniRef90_G9A1V6	D  L   V   S   D   A   R   L   Y   S   Y   I   R   T   A   F   D   L   P   A   T   I   K   N   I   L   T   S   D   P   D   D
UniRef90_G9A1V6	D  L   V   S   D   A   R   L   Y   S   Y   I   R   T   A   F   D   L   P   A   T   I   K   N   I   L   T   S   D   P   D   D
UniRef90_A0A059DW9	R  I   L   G   D   V   P   V   R   T   V   M   Q   T   A   F   N   L   P   L   D   D   R   Q   A   E   V   F   K   E   Q   I   D   M   S   E   L   S   S
UniRef90_C3MHE9	E  L   L   A   D   T   R   L   Y   N   Y   I   R   T   A   F   D   L   D   E   V   T   I   V   S   A   T   I   K   N   I   L   T   S   D   P   D   D
UniRef90_C3MHE9	E  L   L   A   D   T   R   L   Y   N   Y   I   R   T   A   F   D   L   D   E   V   T   I   V   S   A   T   I   K   N   I   L   T   S   D   P   D   D
UniRef90_C3MHE9	E  L   L   A   D   T   R   L   Y   N   Y   I   R   T   A   F   D   L   D   E   V   T   I   V   S   A   T   I   K   N   I   L   T   S   D   P   D   D
UniRef90_C3MHE9	E  L   L   A   D   T   R   L   Y   N   Y   I   R   T   A   F   D   L   D   E   V   T   I   V   S   A   T   I   K   N   I   L   T   S   D   P   D   D
UniRef90_F0L6T2	E  L   M   A   D   P   R   L   V   N   Y   I   K   V   A   F   D   L   N   D   L   T   I   V   N   A   T   I   E   N   I   L   T   S   D   L   S   D   D
UniRef90_F0L6T2	E  L   M   A   D   P   R   L   V   N   Y   I   K   V   A   F   D   L   N   D   L   T   I   V   N   A   T   I   E   N   I   L   T   S   D   L   S   D   D
UniRef90_F0L6T2	E  L   M   A   D   P   R   L   V   N   Y   I   K   V   A   F   D   L   N   D   L   T   I   V   N   A   T   I   E   N   I   L   T   S   D   L   S   D   D
UniRef90_F0L6T2	E  L   M   A   D   P   R   L   V   N   Y   I   K   V   A   F   D   L   N   D   L   T   I   V   N   A   T   I   E   N   I   L   T   S   D   L   S   D   D
UniRef90_A0A059INV2	D  I   L   K   D   K   N   M   G   A   F   M   R   R   V   L   N   P   Q   T   L   D   Q   Q   V   K   I   F   Q   Q   K   Y   D   I   T   K   L   K   D
UniRef90_UPI000318597F	G  A   L   A   D   K   K   L   L   Q   V   Q   T   A   L   D   I   S   Q   P   I   D   T   Q   A   R   L   L   K   A   K   L   N   I   D   D   F   K   D
UniRef90_UPI0003B332E9	N  I   L   G   D   P   L   R   R   V   V   T   T   A   L   G   L   P   R   E   I   E   A   Q   A   R   A   V   T   S   R   M   D   L   S   D   L   K   D
UniRef90_UPI0003B5448A	D  F   L   G   D   P   D   L   Y   Q   V   A   L   Q   A   Y   G   L   T   E   E   E   L   S   K   S   A   M   R   K   L   L   A   S   D   P   Y   D
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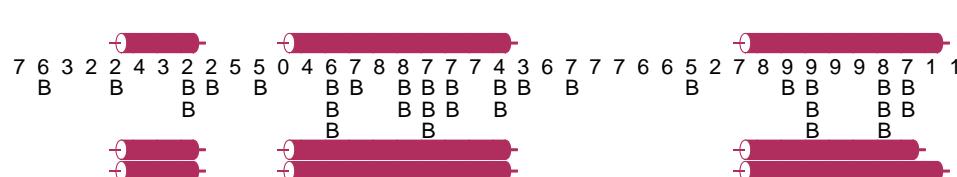
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E P V A V E D F L K D T R L L R V S L T A F D L G G E E W K R G F I D K V L S E
K V R S A D D I T G D N R L F S Y V K S A F G V S S K V T A K Q F S S S S S S S S
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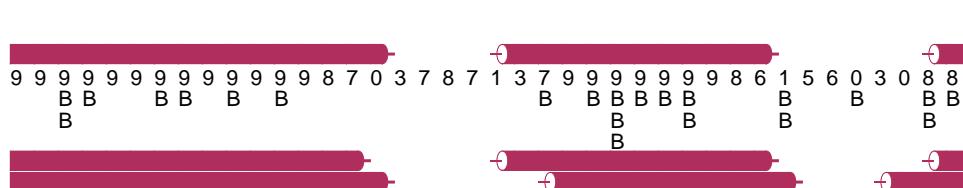
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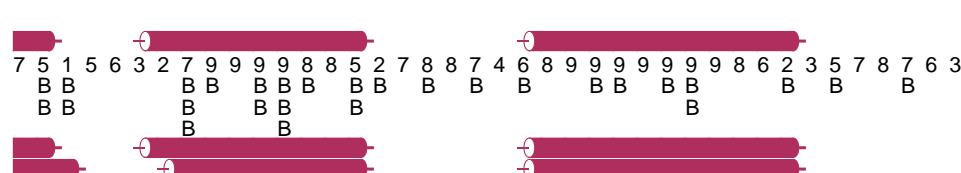
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UniRef90_UPI000377ACE5	Q   L   V   T   K   N   Y
UniRef90_C5AU56	Q   A   V   T   Q   A   Y   L   R   Q   S   L   E   S   E   A   G   D   A   D   T   G   V   R   L   A   L   Y   F   A   R   K   A   S   S   I   A   S   A   Y
UniRef90_C5AU56	Q   A   V   T   Q   A   Y   L   R   Q   S   L   E   S   E   A   G   D   A   D   T   G   V   R   L   A   L   Y   F   A   R   K   A   S   S   I   A   S   A   Y
UniRef90_UP100046E99B1	S   T   T   M   T   S   I   T   Q   G   Y   S   I   A   V   N   S   A   V   D   N   N   I   T   A   F   K   A   E   A   A   T   I   T   S   A   S
UniRef90_UP100046E99B1	S   T   T   M   T   S   I   T   Q   G   Y   S   I   A   V   N   S   A   V   D   N   N   I   T   A   F   K   A   E   A   A   T   I   T   S   A   S
UniRef90_UP100046E99B1	S   T   T   M   T   S   I   T   Q   G   Y   S   I   A   V   N   S   A   V   D   N   N   I   T   A   F   K   A   E   A   A   T   I   T   S   A   S
UniRef90_UP100046E99B1	S   T   T   M   T   S   I   T   Q   G   Y   S   I   A   V   N   S   A   V   D   N   N   I   T   A   F   K   A   E   A   A   T   I   T   S   A   S
UniRef90_UP100046E99B1	S   T   T   M   T   S   I   T   Q   G   Y   S   I   A   V   N   S   A   V   D   N   N   I   T   A   F   K   A   E   A   A   T   I   T   S   A   S
UniRef90_B1ZL93	R   T   V   T   D   A   Y   L   E   Q   T   L   E   S   D   A   G   E   E   D   T   G   L   R   L   A   L   Y   F   A   R   M   A   P   T   L   T   S   A   Y
UniRef90_B0UC10	D   S   I   V   T   K   Y   D   E   K   S   Y   E   T   A   L   E   A   Q   T   S   G   V   G   N   A   L   Y   F   T   R   T   M   T   T   G   M   T   V   D
UniRef90_UP10002260015	D   F   I   A   N   R   Y   T   Q   I   R   F   F   E   E   S   L   G   Q   S   S   E   T   L   R   R   A   V   Y   A   K   R   M   L   P   Q   M   N   N   W   F
UniRef90_D5RG55	T   V   M   I   N   K   Y   V   E   Q   R   F   E   E   S   L   G   E   S   S   E   T   L   R   Q   A   I   Y   A   K   R   L   L   P   T   V   T   S   W   Y
UniRef90_D5RG55	E   Q   I   I   S   L   Y   T   Q   A   R   F   F   E   E   S   L   G   E   S   S   E   T   L   R   Q   A   I   Y   A   K   R   L   L   P   T   V   T   S   W   Y
UniRef90_U2Z7Q8	A   G
UniRef90_H0A299	T   D
UniRef90_UP1000470917D	D   G   I   M   D   R   W   K   D   R   R   F   E   A   A   V   G   R   M   D   N   D   L   R   L   A   M   N   A   R   R   E   L   A   E   I   A   K   W   L
UniRef90_UP1000470917D	D   G   I   M   D   R   W   K   D   R   R   F   E   A   A   V   G   R   M   D   N   D   L   R   L   A   M   N   A   R   R   E   L   A   E   I   A   K   W   L
UniRef90_UP1000472D3CB	D   G   I   M   D   R   W   K   D   R   R   F   E   A   A   V   G   R   M   D   N   D   L   R   L   A   M   N   A   R   R   E   L   A   E   I   A   K   W   L
UniRef90_V7ER86	D   G   I   M   D   R   W   K   D   R   R   F   E   A   A   V   G   R   M   D   N   D   L   R   L   A   M   N   A   R   R   E   L   A   E   I   A   K   W   L



lupas\_21  
 lupas\_14  
 lupas\_28  
 jnet  
 conf  
 sol25  
 sol5  
 sol0  
 jhmm  
 jpssm

			170		180		190	
UniRef90_M7YTK7			D  I  A S D P V L  A D  I  V R T D  L  G L  P Q S  I  N D Q A E A F A K T  L  S  V A S L  R D					
UniRef90_M7YTK7			D  I  A S D P V L  A D  I  V R T D  L  G L  P Q S  I  N D Q A E A F A K T  L  S  V A S L  R D					
UniRef90_M7YTK7			D  I  A S D P V L  A D  I  V R T D  L  G L  P Q S  I  N D Q A E A F A K T  L  S  V A S L  R D					
UniRef90_A0A059G4V6			R M  L  A N V  P V R T  L  L  E  G A M N  L  P  S  D  I  E  R  Q A D  I  F  K  E  R  L  D  V  S  E  L  S  S					
UniRef90_N6UW26								
UniRef90_N6UW26								
UniRef90_N6UW26								
UniRef90_N6UW26								
UniRef90_C6XGH9			E  L  L  A N K  R  I  L  N  F  L  L  E  S  K  G  I  D  S  Q  K  E  I  F  K  S  D  L  K  D					
UniRef90_C6XGH9			E  L  L  A N K  R  I  L  N  F  L  L  E  S  K  G  I  D  S  Q  K  E  I  F  K  S  D  L  K  D					
UniRef90_C6XGH9			E  L  L  A N K  R  I  L  N  F  L  L  E  S  K  G  I  D  S  Q  K  E  I  F  K  S  D  L  K  D					
UniRef90_A0A059FA05			R  I  L  G  D  V  P  V  R  T  V  F  E  T  A  F  S  L  P  L  D  L  D  R  Q  A  D  I  F  K  E  K  I  D  L  S  E  L  A  E					
UniRef90_A9H96			D  I  M  S  N  A  T  L  L  K  V  V  E  T  V  S  G  F  A  L  D  Y  P  E  Q  V  R  L  Q  N  K  V  D  L  S  D  F  S  T					
UniRef90_R0DYS7			D  I  V  Q  R  D  T  L  R  E  F  D  T  T  L  R  I  P  A  E  E  D  E  R  I  Q  L  Y  R  E  R  A  Q  V					
UniRef90_F0J196			Q  I  L  G  D  S  V  M  R  S  V  V  T  T  A  L  G  V  P  Q  Q  I  A  A  Q  E  Q  A  I  T  S  R  L  D  V  S  K  F  Q  N					
UniRef90_V9VTV4			G  I  I  G  S  P  P  L  K  T  V  F  E  T  A  L  A  L  P  S  D  V  D  R  Q  V  E  E  M  K  E  R  T  H  P  A  D  L  L  E					
UniRef90_V9VTV4			G  I  I  G  S  P  P  L  K  T  V  F  E  T  A  L  A  L  P  S  D  V  D  R  Q  V  E  E  M  K  E  R  T  H  P  A  D  L  L  E					
UniRef90_G6XI98			G  I  M  A  D  P  K  L  L  R  V  A  E  V  V  S  G  F  A  L  D  Y  D  Q  Q  V  R  L  L  G  S  K  M  D  M  S  R  L  K  T					
UniRef90_I1AYM7			D  L  L  D  N  Y  D  L  L  K  S  V  V  L  K  A  F  D  L  D  L  D  N  Y  D  L  L  K  S  V  V  L  K  A  F  D  L					
UniRef90_I1AYM7			N  I  M  A  D  P  K  L  L  K  V  A  E  K  V  A  G  F  A  L  D  Y  D  Q  Q  V  R  L  L  S  D  K  L  D  L  S  R  L  S  T					
UniRef90_K7SL45			D  L  L  D  D  R  E  L  L  K  L  V  T  L  K  A  F  G  L  D  L  D  D  R  E  L  L  K  L  V  T  L  K  A  F  G  L  D  L					
UniRef90_S9QSJ6			D  L  L  D  D  R  E  L  L  K  L  V  T  L  K  A  F  G  L  D  L  D  D  R  E  L  L  K  L  V  T  L  K  A  F  G  L  D  L					
UniRef90_S9QSJ6			N  V  L  G  S  T  M  M  R  E  V  F  E  T  A  L  S  L  P  I  D  L  D  K  Q  V  E  V  I  S  D  R  A  R  F  S  D  L  Q  D					
UniRef90_Q0FVE2			N  V  L  G  S  T  M  M  R  E  V  F  E  T  A  L  S  L  P  I  D  L  D  K  Q  V  E  V  I  S  D  R  A  R  F  S  D  L  Q  D					
UniRef90_B7QWP2								
UniRef90_B7QWP2								
UniRef90_B7QWP2								
UniRef90_UPI000312B087			Q  I  M  S  D  S  T  L  L  K  V  V  E  T  V  S  G  Y  A  L  D  Y  D  Q  Q  V  Q  M  L  K  K  S  V  N  L  S  D  F  S  S					
UniRef90_UPI000312B087			Q  L  M  S  D  K  T  L  L  K  V  A  E  V  V  S  G  Y  A  L  D  F  S  Q  Q  K  R  I  I  T  N  K  V  D  L  S  K  L  Q  T					
UniRef90_U7YX6								
UniRef90_D5RP66			N  I  L  G  D  K  I  L  R  R  V  A  L  T  L  A  G  L  P  Q  S  I  E  S  Q  A  R  Q  L  E  K  R  I  D  L  K  Q  F  A  T					
UniRef90_B0UC09			D  I  L  S  D  P  A  L  L  T  K  V  A  N  V  V  L  G  L  P  A  T  L  V  R  R  A  A  L  I  K  Q  K  I  D  I  A  S  F  Q  D					
UniRef90_B0UC09			D  I  L  S  D  P  A  L  L  T  K  V  A  N  V  V  L  G  L  P  A  T  L  V  R  R  A  A  L  I  K  Q  K  I  D  I  A  S  F  Q  D					
UniRef90_U7YBR9			E  I  L  G  D  K  A  L  L  T  M  Q  T  T  F  G  W  P  A  D  I  D  K  Q  A  K  M  A  D  K  I  D  F  S  K  M  S  D					
UniRef90_X7F4Y8			D  L  L  A  D  R  T  L  L  R  S  A  L  R  V  Y  G  L  E  D  R  I  G  D  A  Y  F  L  K  R  V  L  D  S  D  P  D  D					
UniRef90_X7F4Y8			D  L  L  A  D  R  T  L  L  R  S  A  L  R  V  Y  G  L  E  D  R  I  G  D  A  Y  F  L  K  R  V  L  D  S  D  P  D  D					
UniRef90_X7F4Y8			D  L  L  A  D  R  T  L  L  R  S  A  L  R  V  Y  G  L  E  D  R  I  G  D  A  Y  F  L  K  R  V  L  D  S  D  P  D  D					
UniRef90_I7DRL5			Q  V  L  L  A  D  E					
UniRef90_I7DRL5			Q  V  L  L  A  D  E					
UniRef90_I7DRL5			Q  V  L  L  A  D  E					
UniRef90_A0A023D6I9			D  I  M  G  D  A  R  L  L  N  V  V  E  T  V  S  G  F  A  L  D  Y  D  E  Q  V  R  L  L  T  G  K  V  D  L  S  D  F  S  S					
UniRef90_B6B8I2			Q  V  F  A  D  E					
UniRef90_B6B8I2			Q  V  F  A  D  E					
UniRef90_B6B8I2			Q  V  F  A  D  E					
UniRef90_B6B8I2			Q  V  F  A  D  E					
UniRef90_W4HIK8			D  V  I  F  N  N  A  V  R  E  V  T  F  D  F  F  D  V  S  S  D  L  V  Y  L  Q  R  V  M  E  S  D  P  A  N					
UniRef90_W4HIK8			D  V  I  F  N  N  A  V  R  E  V  T  F  D  F  F  D  V  S  S  D  L  V  Y  L  Q  R  V  M  E  S  D  P  A  N					
UniRef90_W4HIK8			D  V  I  F  N  N  A  V  R  E  V  T  F  D  F  F  D  V  S  S  D  L  V  Y  L  Q  R  V  M  E  S  D  P  A  N					
UniRef90_W4HIK8			D  V  I  F  N  N  A  V  R  E  V  T  F  D  F  F  D  V  S  S  D  L  V  Y  L  Q  R  V  M  E  S  D  P  A  N					
UniRef90_UPI000377ACE5			D  I  L  G  D  A  A  L  S  Q  V  A  N  T  V  I  G  L  P  A  T  L  A  K  R  A  Q  L  I  D  R  K  I  D  I  A  S  F  R  D					
UniRef90_C5AU56			D  I  L  G  D  A  A  L  S  Q  V  A  N  T  V  I  G  L  P  A  T  L  A  K  R  A  Q  L  I  D  R  K  I  D  I  A  S  F  R  D					
UniRef90_C5AU56			D  I  L  G  D  A  A  L  S  Q  V  A  N  T  V  I  G  L  P  A  T  L  A  K  R  A  Q  L  I  D  R  K  I  D  I  A  S  F  R  D					
UniRef90_UPI00046E99B1			D  L  L  N  N  D  T  V  L  S  M  I  M  S  T  Y  G  L  D  S  S  T  D					
UniRef90_UPI00046E99B1			D  L  L  N  N  D  T  V  L  S  M  I  M  S  T  Y  G  L  D  S  S  T  D					
UniRef90_UPI00046E99B1			D  L  L  N  N  D  T  V  L  S  M  I  M  S  T  Y  G  L  D  S  S  T  D					
UniRef90_UPI00046E99B1			D  L  L  N  N  D  T  V  L  S  M  I  M  S  T  Y  G  L  D  S  S  T  D					
UniRef90_B1ZL93			D  L  L  N  N  D  T  V  L  S  M  I  M  S  T  Y  G  L  D  S  S  T  D					
UniRef90_B0UC10			D  I  L  G  D  A  A  L  S  K  V  A  N  T  V  A  G  L  P  A  T  L  D  A  R  A  A  F  L  A  A  K  I  D  I  A  G  F  Q  D					
UniRef90_UPI0002260015			Q  I  M  S  D  S  T  L  L  K  V  V  E  T  V  S  G  Y  N  L  D  Y  D  E  Q  K  R  L  I  E  K  T  Y  N  A  S  D  F  S  S					
UniRef90_D5RG55			S  V  I  A  D  R  N  L  A  E  V  V  Q  N  V  L  G  L  P  L  D  V  D  R  Q  K  A  V  L  E  K  R  M  S  I  A  D  F  K  D					
UniRef90_D5RG55			S  V  I  A  D  R  N  L  A  E  V  V  Q  N  V  L  G  L  P  L  D  V  D  R  Q  K  A  V  L  E  K  R  M  S  I  A  D  F  K  D					
UniRef90_U2Z7Q8			D  V  L  K  D  P  E  M  T  E  F  M  R  T  S  L  G  V  P  S  D  I  D  K  Q  V  E  L  F  K  A  K  F  D  I  T  K  L  Q  D					
UniRef90_H0A299			S  V  I  A  D  R  N  L  A  S  V  V  Q  N  Y  L  G  L  P  L  D  V  D  K  Q  K  S  T  F  E  Q  R  M  D  I  A  D  F  Q  D					
UniRef90_UP1000470917D			K  I  M  G  N  L  P  L  R  T  V  V  Q  R  A  F  G  L  P  M  D  L  D  R  Q  V  A  M  L  T  E  R  A  T  V  S  Q  F  A  D					
UniRef90_UP1000470917D			K  I  M  G  N  L  P  L  R  T  V  V  Q  R  A  F  G  L  P  M  D  L  D  R  Q  V  A  M  L  T  E  R  A  T  V  S  Q  F  A  D					
UniRef90_UP1000472D3CB			K  I  M  G  N  L  P  L  R  T  V  V  Q  R  A  F  G  L  P  M  D  L  D  R  Q  V  A  M  L  T  E  R  A  T  V  S  Q  F  A  D					
UniRef90_V7TER86			K  I  M  G  N  L  P  L  R  T  V  V  Q  R  A  F  G  L  P  M  D  L  D  R  Q  V  A  M  L  T  E  R  A  T  V  S  Q  F  A  D					



UniRef90_M7YTK7	P R T L S Q F I D R Y	210
UniRef90_M7YTK7	P R T L S Q F I D R Y	
UniRef90_M7YTK7	P R T L S Q F I D R Y	
UniRef90_A0A059G4V6	P E I I D K A I Q R F H V M Q S I N	
UniRef90_N6UW26		
UniRef90_C6XGH9	P K S F	
UniRef90_C6XGH9	P K S F	
UniRef90_C6XGH9	P K S F	
UniRef90_C6XGH9	P K S F	
UniRef90_A0A059FA05	P D V T E K L I H R Y L A M E T I E N	
UniRef90_A9HH96	P E G V Q K Y A E Q Y L A M L Q I N	
UniRef90_R0DYS7		
UniRef90_F0J196	K Q F V Q S F A D R F L A V T Q A S N	
UniRef90_V9TVT4	D A K L D D F R N R F L M L A D L N	
UniRef90_V9VT4	D A K L D D F R N R F L M L A D L N	
UniRef90_G6XI98	T Q G V Q K M A E Q Y L A L L Q V	
UniRef90_I1AYM7	S N G V Q R F A E Q Y L A L L Q V N	
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UniRef90_K7SL45		
UniRef90_S9QSJ6		
UniRef90_S9QSJ6		
UniRef90_Q0FVE2	P K T L N G I I Q S Y L L Q D Q I	
UniRef90_Q0FVE2	P K T L N G I I Q S Y L L Q D Q I	
UniRef90_B7QWP2		
UniRef90_UP1000312B087	T E K I Q K Y A E R Y L A M L Q I	
UniRef90_UP1000312B087	P D Q I N R Y A Q R Y L A Q L Q I	
UniRef90_UP1000312B087		
UniRef90_UP1000312B087		
UniRef90_UP10003FA3653		
UniRef90_UP10003756E52		
UniRef90_U7Y8X6	P E G R E K L I Q R Y L V M	
UniRef90_D5RP66	P A K V Q A F V K R F A A I W D A T N	
UniRef90_B0UC09	P A K V Q A F V K R F A A I W D A T N	
UniRef90_B0UC09	P D Y V S K F I S R F T A M H E M N N F	
UniRef90_U7YBR9	P A S F A N A L S	
UniRef90_X7F4Y8	P A S F A N A L S	
UniRef90_X7F4Y8	P A S F A N A L S	
UniRef90_X7F4Y8		
UniRef90_I7DRL5		
UniRef90_A0A023D6I9	P A K I Q R Y A E Q Y L T L L Q I	
UniRef90_B6B8I2		
UniRef90_W4HIK8	P T S L S G L H R R Y A A L	
UniRef90_W4HIK8	P T S L S G L H R R Y A A L	
UniRef90_W4HIK8	P T S L S G L H R R Y A A L	
UniRef90_W4HIK8	P T S L S G L H R R Y A A L	
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UniRef90_C5AU56		
UniRef90_C5AU56		
UniRef90_UP100046E99B1	P A K L D A F V R R F A A I W D A Q N	
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UniRef90_UP100046E99B1		
UniRef90_UP100046E99B1		
UniRef90_UP100046E99B1		
UniRef90_B1ZL93	P A K V Q A F V R R F A A I W D A Q N	
UniRef90_B0UC10	E A N I Q K Y A E R Y L A I L Q F N	
UniRef90_UP10002260015	P A K L S K L L D R Y V A Q	
UniRef90_D5RG55	P A K L S K L L D R Y V A Q	
UniRef90_D5RG55	P A E L E K L E R K Y V A I S D A Q	
UniRef90_U2ZTQ8	S T K L N K M L D R F V A Q S S V	
UniRef90_H0A299		
UniRef90_UP1000470917D	P A R T D R L I R I F L A	
UniRef90_UP1000470917D		
UniRef90_UP1000470917D		
UniRef90_UP100472D3CB		
UniRef90_V7TER86		

