

1                    10                    20                    30                    40

QUERY					
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UniRef90_L8BRQ8	F Q E G K T Y I Y D Y E G L I L T G L P E E E G L S R S G L K V N S K V K I R E				
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UniRef90_Q8UW88	D F S A G K T Y V Y K Y E A S I M S G L P D E E G L A R A G L N V S S K I L I S S A				
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UniRef90_W5MPPO0					
UniRef90_M7AQ27					
UniRef90_UPI0004441923	P K K T Y E Y K Y E G E V K F G L G K A N L A E S G V R I T C K A T I T G				
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UniRef90_B0ZSJ9					
UniRef90_Q8JIF8	L N P N K I Y E Y Q Y E G W V K F G L G K P N H A E S G A R L K T I V T I M G				
UniRef90_Q2HXU2					
UniRef90_Q6BCB8					
UniRef90_F1QQQ3	L N S K K T Y E Y K Y E G L V Q V G R E L P H L V E S A L K L R C T F K I I G				
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UniRef90_R4VDM5	Q Y S P G S T Y T Y S Y E V E T K T A I L G A T E D Q S T I K I R A T A N I E V				
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UniRef90_G1NAD5					
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UniRef90_Q9PUB1					
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80

QUERY	50	60	70	80
UniRef90_G3P5Q0	H T H N Q A T L K I T Q V N L K Y F [ ] G P W P S D S F Y P [ ] T G Y D H F [ ] Q Q			
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UniRef90_A3FEM8	V A E N T Y L L K L V N P E I F E Y S G V W P K D P F V P A S K L T S V L A A Q			
UniRef90_Q1MTC4	E T E S T F L M K F S D V Q L H E Y T G I W P K D P F V P E T K L M S T M T A E			
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UniRef90_E1BYN5	V A Q N T F D L L K L M D P Q I F E Y Y S G I W P T D P F V P A A K L T E A L A A Q			
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UniRef90_UPI0003889F2C	V A Q N T F L L L K L Q D P P Q L E E Y Y T G I W P K D T F T P A A K L T S A L Y P Q			
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UniRef90_UPI000457541D	L L T Q R I H L L N I T D P P Q I Q E L L N G V W P N V P S N T A N K L T Q R L L A A D			
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UniRef90_A7E1Q7	A A Q E N I L L L Q L E N P P Q I F E Y Y S D V W P K N S F S Q I H L H A D L E A H			
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UniRef90_UPI000273B4B2	A A S Q K L Y L F L K I Q F V Q L E E Y Y T G I W P K D S F I D S P K L T T Q T I A S G			
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UniRef90_UPI0003D08DFE	L L L A G N N H I L K L V R S P P Q L E E Y Y N G I W P R D S F M P S S K L L S Q M I A A C			
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UniRef90_H2V6G9	U U K A N N A Y L K L L S D A K I F E E Y Y N G I W P K D A F S L A S K L L S S E L A D Q			
UniRef90_S4VG30	Q Q S Q D T F L L K L L E T K I Y E Y Y N G F W P N P E D Y T E S T K L T R A L A A Q			
UniRef90_UPI0003C2866D	D D Q Q T E H L L Q L D S P P Q V F E H E Y Y A G I W Q W K D T F S Q T Q L R A D L E A H			
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UniRef90_C05JS6	V V S A A Q T F F L L Q V S D V A F E D F N G F R G R N S F T A V P K L T Q R I A A A Q			
UniRef90_B9V4K8	I I I A D H T F L L K V T I L S V E I E L N G I W P R D P F I R A S K L T D R I S S Q Q			
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UniRef90_M7AQ27	A A A S P Q Q F F L L Q V S E L L A F A E E Y Y N G F E G K D D Y V P S P K V T K R I T S E			
UniRef90_UPI0004441923	A A S E Q T Y V L Q V S Q D S L A F A E E Y Y N G F P G K N G Y D A S P E L T S R I A A A Q			
UniRef90_H2LQ37	V V V S D Q V F L L Q V S Q D L D F A E E Y Y N G F P E K N D Y E A S P K L L A K R I A A A Q			
UniRef90_W8CID5	V V V S E E N H L L K L L S P P Q L E E Y Y N G I W P R D S F T K A S K L T T E I L Q Q C			
UniRef90_H9GSP1	I I I S G G N E A I I I N L R K A Q V L Q Y L G E W P A G S F Q P A P R V E E P L V R Q			
UniRef90_X2QHU6	U U U S G N E A I I I N L R K A Q V L Q Y L G E W P A G S F Q P A P R V E E P L V R Q			
UniRef90_I3J3A3	U U U S P Q A F I I L Q V S D V T F A E L N G I I S G K S D F N Q S P K L T Q R I A A Q			
UniRef90_U3LZU0	V V V S A Q T F F L L L R V S N L N L N F E E F N G I I P G K N A F D A S P K L T K R I A A E			
UniRef90_H3C6J5	V V V S G Q T F F I I L Q V S E V T F D E F N G I I P G K A N F V A S P K L A Q R I A A Q			
UniRef90_C4MQ16	V V V S E Q T F F L L L Q V S E L L E F F A E E Y Y N G F E D K N G N Y T S S P N V T K H I A A E Q			
UniRef90_H2SAZ4	S S E Q T F F L L L Q V S E L L E F F A E E Y Y N G F E D K N G N Y T S S P N V T K H I A A E Q			
UniRef90_G0ZF41	S S E Q T F F V L Q V S K L A F E E F F N G F P G K N N F A A S S K L T Q H I L S A Q			
UniRef90_G3P4L3	A A A S Q Q T F F I I L Q V S D F A F E D F N G V K G R N R F T A V P K L T E R I A S Q			
UniRef90_W5LCW9	V V V S L Q T F F L L Q I I S D V E F A E L N G I V G E S Y F Q V I S P S L S K H L T A E			
UniRef90_UPI0003F05BFC	V V V V E R G R A V L L K V Q V Y P K L Y T F N G T R P G S D F V E A P E M T S A L A P L			
UniRef90_X2QGR0	L L L D H R E A L I I T V H Q P E V L Q Y I D R W P G G F E S P I S P S A E P L I R E			
UniRef90_S6A416	A A A S A Q T F F M L Q V S D V A F E E F N G V P G K S A F V G A L K L A A R I S A Q			
UniRef90_B0ZSJ9	U U U A S Q T F F M L Q V S D V A F E E F N G V P G K S A F V G A L K L A A R I S A Q			
UniRef90_Q8JIF8	A A A Q S D T F F H L Q F S N V V V F E E F N G V P G K S D F V A V N Q L L A Q K I A A Q			
UniRef90_Q2HXU2	A A A Q S D T F F H L Q F S N V V V F E E F N G V P G K D P F N P A S K L T T A L A A Q			
UniRef90_Q6BCB8	A A A Q S D T F F H L Q F S N V V V F E E F N G V P G K D P F T R S S K I T T Q A I S S C			
UniRef90_F1QQQ3	E E S P P H T F F V L Q V S N V D F E D F N G I P G K S V F S P S K N I T K H L S A E			
UniRef90_B9V418	I I S V Q K I F F L L Q V S N L V F E E F N G I I P G K N A F Y A S P K L T Q R I A A Q			
UniRef90_R4VDM5	L L S K C E M L L Q L R D V S I E S S D P S L P I R L K A G K T S S D F S A V			
UniRef90_Q8JH36	M T E N T Y L L M K L L M D P L L I Y E Y Y A G T W P K D D F S P A T K L T S A L A A Q			
UniRef90_S4VM47	A A P S N A F R M K F S N V L F E E F N G F P G K S G F V A S D A L L A Q K I K A Q			
UniRef90_K1QFM6	L L S K C D L V L K V K N V Q L H E R N A E S P E N F I L S A M S G K F S Q Q L			
UniRef90_G1NAD5	K K T Q N L L S L L K V G K A E Y A E L H A N L G W N T E I P D N K L H W Q P M P L			
UniRef90_B1B5Z4	K K P D H T H F K I L L N F E A D T Y N A E H V D L G E H E F A Y K S N E N V G A			
UniRef90_B1B544	P P Q P D G T H F K I L L N F E A D S N F S E H I D V A H H E F N Y A A N E N L A V			
UniRef90_Q9PUB1	P P Q P D G T H F K I L L N F E A D S N F S E H I D V A H H E F N Y A A N E N L A V			
UniRef90_L7M721	K K G D L T F F F K I S D S L E V D M F H G Q T I D L T H T F T N R P H E E L S N Q			
UniRef90_E1CAY0	K K P D H T H F K I V N F E S D T F H E D H I D E H H E F H Y A S N E Q N G A			
UniRef90_A0A023FYX2				

QUERY	90	100	110	120
UniRef90_G3P5Q0	L E V P   V R F D Y S A G R   I G D   Y A P P Q   V T D T A V N   I V R G   I L N   L F Q L			
UniRef90_S6A7U3	L L T P   K F E Y N N G T V G K I   F A P D E I S T M V L N   I Y R G   I L N   V F Q L			
UniRef90_A3FEM8	F S I P   K F E Y A K G V V G K V   F A P T A V S E T V L N   V H R G   I L N   I L Q L			
UniRef90_Q1MTC4	L Q T P   K F E Y T N G V V G K V   F A P A G V S P S V L N   L Y R G   I L N   I L Q L			
UniRef90_Q589T1	L L T P   K F E Y A N G V V G K L   F A P A G I S T T V L N   I L R G   I V N   I L Q L			
UniRef90_C9WPN8	F A I P   K F E Y V N G V V G K V   F A P D G I S A V V L N   H R G   I L N   I L Q L			
UniRef90_L8BRQ8	L T K P   T F E Y S S G R V G N I   Y A P E D V S D A A L N   H R G   V L N   M L Q I			
UniRef90_Q90243	L T Q P   K F E Y R N G Q V G D I   F A S E D V S D T V L N   Q R G   I L N   M L Q I			
UniRef90_Q8UW88	L N I P   K F E Y S N G V V G K V   F A P E G V S D L V L N   F Y R G   F L N   I L Q L			
UniRef90_B9V4K2	L M T P   K F E Y A N G V V G K M   F A P E G I S T L V L N   L Y R G   V L N   I L Q L			
UniRef90_UP10003EAB6A5	L T T P   K F E Y D S G R V G R I   Y A P S E V S E T V L N   F K G   I L N   M L H			
UniRef90_Q6JXK9	L V L P   K F E Y T N G I V G K L   Y A P E Q I A T L V L N   I H R G   V L N   I L Q L			
UniRef90_Q98T86	L A T P   K F E Y A N G V V G K V   Y S P E G I S T T V L N   I F R G   V L N   I L Q L			
UniRef90_S6A926	L L T P   K F Q Y A N G V V G A I   F A P V G V S T T V L N   V F R G   V L N   I L Q L			
UniRef90_Q589G6	L L I P   K F E Y A N G V V G N V   F A P A E V S A T V L N   I H R G   I L N   I L Q L			
UniRef90_E1BYN5	F S Q A F K F E Y T E G R V G S I   Y A P E N C P   L C I N   L V R G   V L N   M M Q I			
UniRef90_B2KSI6	L V T P   K F E Y A N G V V G K I   F A P A R V S A T V L N   L H R G   I L N   I L Q L			
UniRef90_UP10003889F2C	L T Q L P   K F E Y N R G Q I G N I   Y A P K D T P V T C V N   L M R G   I L N   M L Q I			
UniRef90_B9V417	L L I P   K F E Y A N G V V G N V   F A P V G V S T T V L N   V H R G   I L N   I L Q L			
UniRef90_K7GG70	L T K P   W K F E Y S K G R V G S L   Y A P E D V P E T I V N   I V R G   I L N   L Q I			
UniRef90_UP10003C27E80	L S R P   F K F E Y Y S G R I G N V   Y A P E D C P   V L C I N   I V R G   I L N   M M Y I			
UniRef90_UP10002A4A3F2	T R I P   K F E Y S N G A V G K V   Y A P E K V S D F V L N   F Y K G F   L S F F H			
UniRef90_UP1000457541D	L T K P   V K F E Y S N G R V G N I   N A P K G L P E N I L N   I H R G   I L N   M L Q I			
UniRef90_UP1000457541D	L T K P   V K F E Y S N G R V G N I   N A P K G L P E N I L N   I H R G   I L N   M L Q I			
UniRef90_UP10003EAB427	L T Q P   K F E Y R N G H V G H I   F A P A E V S D T V V N   L H R G   I L N   M L Q M			
UniRef90_UP10004572783	L N K P   V K F E Y N R G R V G N I   Y A P A D L P E N I L N   I Y R G   I L N   I L Q I			
UniRef90_UP10003EBBC52	L S T P   K F E Y T N G V V G R V   S A P A G V S T T V L N   V Y R G   I L N   L Q I			
UniRef90_P02845	F T R L   F K F E Y S S G R I G N I   Y A P E D C P   D L C V N   V R G   I L N   M F Q M			
UniRef90_Q800N1	L S T P   V K F E Y S N G V V G K V   F A P N G V S E T V L N   I H R G   I L N   I L Q P			
UniRef90_Q589S9	L L T P   K F E Y A N G V I G K V   Y A P A G V S T A V L N   I F R G   I L N   I F Q I			
UniRef90_M3XL36	L T K R   K F E Y N N G R I G H   I E A P A D M S E T A V N   I R G   I L N   M L Q I			
UniRef90_P87498	L S I P   K F E Y S N G H V G N L   M A P D S V S D D G L N   I Y R G   I L N   I L E L			
UniRef90_H3C1V2	L S T P   K F E Y A N G L V G K V   Y A P A G V S A T V V N   I H R G   I L N   V L Q I			
UniRef90_A7E1Q7	L K T P   K F R Y N N G T V R E I   L A P E S V P T M V I   N M Y R G   I L N   V L Q L			
UniRef90_I6MR55	L T R P   V K F E Y T D G R V G N I   F T S E N V P E D V L N   I H R G   I L N   I L Q I			
UniRef90_UP10004576013	L T R P   V K F E Y V N G G R V G K I   D A P E T L P E N I L N   I H R G   I L N   L L Q I			
UniRef90_UP10003956E5F	L S Q P   F K F E Y T E G R V G S I   F A P E D C P   V L C T N   L A R G   V L N   M L Q I			
UniRef90_UP10003BD809B	L T T P   K F E Y V N G A V G K V   F A P E T V S T T V L N   I Y R G   I L N   V F Q L			
UniRef90_B3IYK0	L T Q P   F K F E Y S N G R V G N I   Y A R E D T P V T C I N   L V R G   I M M M L Q I			
UniRef90_B3DLK7	L T K P   A R F E Y S N G R V G D I   F V A D D V S D T V L N   V Y R G   I L N   L L Q V			
UniRef90_UP10003833BD9	F S Q A F K F E Y T E G R V G S I   F A P E D C P   I L C T N   L V R G   I L N   M V Q I			
UniRef90_UP10003838755	L Q I P   K F E Y T N G M V G K L   F I P S   L V P T I V N   I Y R G   I L N   I F Q L			
UniRef90_UP1000273B4B2	L M Q I   K F E Y N N G R I G N I   Y A P K D T P A I V N   V R G   I L N   M F H V			
UniRef90_Q7SZF6	L T R P   V K F E Y R N G Q V G N I   F A A E D V S E T A L N   Q R G   I L N   L L Q L			
UniRef90_A7LGD2	L L T P   K F E Y A N G V V G Q V   F A P A G V S T T V L N   I Y R G   I L N   I F Q L			
UniRef90_H3B066	L T R P   T F D Y K N G R V G N I   Y A P P D V S D M V V N   I H R G   I L N   M L Q V			
UniRef90_UP10003C42971	L R S P   V Q F E Y S G G R V G N L   M A P D N L S D D G L N   F Y R G   V I N   V L E L			
UniRef90_U5XYT4	L Q I P   K F E Y A N G V V G K V   F A P A G V S P T V L N   L H R G   I L N   I L Q I			
UniRef90_UP10003D08DFE	F T Q F F T F E Y S S G G Q V G N I   Y A P E D C P   V I C V N   L V R G   I L N   M M Q I			
UniRef90_H2V6H0	L T D P   K F E Y T N G V V G K M   M A P A S V S T L V L N   I Y R G   I L N   I L Q I			
UniRef90_H2V6G9	L M T P   K F E Y T N G L V G K V   S A P A K V S A T V L N   I C R G   I L N   V F Q M			
UniRef90_S4VG30	L Q T T   V K F E Y S S N G N V G K V   F A P A N L S T T L N   I Y K G   V I N   V F Q M			
UniRef90_UP10003C2866D	V S M P   I E F E Y S N G H V G N L   L A P D A M T E D G L N   I Y R G   I L N   V M E L			
UniRef90_S4VFU0	L R T P   K F K Y Q N G I V G D L   L A P Q S   V P T M V L N   I H R G   I L N   I F Q L			
UniRef90_C05JS6	L Q I P   K F E Y A N G V V G K V   F A P A G V S P T V L N   L H R G   I L N   I I Q L			
UniRef90_B9V4K8	L V K P   F M F D Y A S G H V G D I   R A S A E I P D S V I V   V R G   I L N   G F F Q V			
UniRef90_W5MPM0	L T Q P   K F E Y I R G Q I K D I   Y A A P N V S E T V V   V R G   I L N   F L Q V			
UniRef90_M7AQ27	L T Q P   F K F E Y S N G R V G N I   Y A P E D T P V T C V N   L V R G   I L N   L L Q I			
UniRef90_UP10004441923	L A Q P   F M F M Y T K G H V S D I   R A S A K V S T T V V N   I I R G   I L S F F Q Q V			
UniRef90_H2LQ37	L V K P   F M F E Y A N G H V G D I   R A S P E V S T T V V N   I V R G   I L D F F Q Q V			
UniRef90_W8CID5	L V K P   F M F E Y T N G V V S D I   L A S A E I S T T V V N   V R G   I L E F F Q Q V			
UniRef90_H9GSP1	F A Q V   F K F E Y R R G H V G N I   Y A P K D V G T I C V N   I I K G   I L N   L M Q I V			
UniRef90_X2QHU6	L Q N P   V K F I Y N E G D V G R I   Y A S P E M S D T A V N   I V R G   V L N   N L F Q V			
UniRef90_I3J3A3	A K P   F K F E H S N G H V G R Q I   Q A A P D V S E T T V N   I V R G   I L S F F H A			
UniRef90_U3LZU0	L S K P   F M F E Y A K G R V G D I   R T S A E I S D T T V V N   V R G   I L G F F Q V			
UniRef90_H3C6J5	F A K P   F M F N Y V G G H V S S N I   H A S S G V S D T T V V N   V R G   I L S F F H M			
UniRef90_C4MQ16	L A K P   F M F E H V N G H I D A I   R A Y A E V S T A V V N   V R G   I L D F F Q Q V			
UniRef90_H2SAZ4	L A T P   F M F D Y V G G H I S N I   R A S S E V S D M A V N   V R G   I L S F F H M			
UniRef90_G02F41	L L T P   K F E Y N N G V V G K V   F A P P H G I S T S T V L N   I Y R G   I L N   L Q L			
UniRef90_G3P4L3	L V K P   F M F D Y V G G H V S S N I   R T S A K T S D T I V N   L V R G   I L G F F H V			
UniRef90_W5LCW9	L N R P   F T F E Y S K G Q V V D I   K T G P E V S N T I V N   V R G   I L E F L I H V			
UniRef90_UP10003F05BFC	L S E P   V M F E Y V H G K V G R I   F A P A D L P D V V V N   I H R G   I I L H I			
UniRef90_X2QGR0	I Q V P   V K F K D E S L V T A V F   P A S D V S E E A L N   I R A I I I N F F N F			
UniRef90_S6A416	L A K P   F M F E Y A G G H V G N I   Q A P A G T S D T M V N   V R G   I L G F F Q Q L			
UniRef90_B0ZSJ9	L T T P   K F E Y S N G V V G K V   F A P A G V S E T V L N   I Y R G   V L N   I F Q L			
UniRef90_Q8JF8	L E K P   I G F T Y T A G N V V G E I   K A S P E V S D T V V N   V R G   I L G F F Q V			
UniRef90_Q2HXU2	L S T P   K F E Y A N G V V S V R   S A P A G V S T P V L N   I Y R G   I L N   L Q L			
UniRef90_Q6BCB8	F T R L   F K F E Y S S G R I G N I   Y A P E D C P   D L C V N   V R G   I L N   M F Q M			
UniRef90_F1QQQ3	I S Q P   I F E Y S K G Q I T D I   R T A P G V S N T V V N   V R G   I L G F L Q V			
UniRef90_B9V418	L N A P   L T F Q Y V K G R I V D I   Q A A T G V S D T I V N   V R G   I L G F L Q V			
UniRef90_R4VDM5	L Q H P   L R F S F Q D G E V N E I   C P E D D E S S W V L N   K R G   L L S A F Q N			
UniRef90_Q8JH36	L Q I P   Q F E Y A N G V V G K V   F A P A G V S P T V M N   L H R G   I L N   L Q L			
UniRef90_S4VM47	L E K A I   E F T Y S A G H V E E I   R A S P E V S D T V V N   M V R G   I L G F F Q V			
UniRef90_K1QFM6	E E N S   R F S F Q D G R I E S I   C P A D S E T P W V L N   I K R G   I L S M I Q N			
UniRef90_G1NAD5	A G K P   F E L K L K N G T V D R M Y V D K S V P T W E E N W Y K S I   A S Q L Q I			
UniRef90_B1B5Z4	L E H P   F A G K Y H E G K L E E V E I G K N E P M W V R N V K K G   I L S L F Q Q L			
UniRef90_B1B544	F T R P   F K F E Y S S G R V G S I   Y A P E G C P   D L C V N   L V R G   I L N S L Q Q L			
UniRef90_Q9PUB1	L E H P   F A G K Y H E G K L E E F V I G K N E P L F V R N L   K K G   V L S L F Q Q L			
UniRef90_L7M721	L E R P   F A G E Y K E G K F E H A E L G K G E P M W S H I K R A I   L S L F Q Q L			
UniRef90_E1CAY0	L E H P   F A A K F D E G K I E E I E M G K S E P L W V K N   L K K G   V L S L F Q Q L			
UniRef90_A0A023FYX2				

QUERY	130	140	150	160
UniRef90_G3P5Q0	S   K   K   N   Q   Q   T   F   E   L   Q   E   T   G   V   E   G   I   C   Q   T   T   Y   V   V   Q   E   G   Y   R   T   N   E   M   A   V   V   K   T			
UniRef90_S6A7U3	N   I   K   K   T   H   T   V   Y   E   L   Q   E   A   G   V   V   Q   Q   C   K   T   L   Y   A   I   S   E   D   E   Q   A   E   R   I   I   L   L   T   K   T			
UniRef90_A3FEM8	N   I   K   K   T   K   T   Q   N   I   Y   E   L   Q   E   S   G   V   Q   Q   C   K   T   H   Y   V   I   S   E   D   A   K   A   Q   R   I   H   L   T   K   S			
UniRef90_Q1MTC4	N   F   K   K   T   K   T   Q   N   I   Y   E   L   Q   E   A   G   A   Q   G   V   V   C   C   K   T   Q   Y   V   I   S   E   D   P   K   A   D   R   I   T   V   T   K   S			
UniRef90_Q589T1	N   I   K   K   T   K   T   Q   N   V   Y   E   L   Q   E   P   G   V   Q   Q   G   I   V   C   C   K   T   H   Y   V   I   S   E   D   V   M   A   E   R   I   I   L   L   T   K   T			
UniRef90_C9WPN8	N   I   K   K   T   K   T   H   K   V   Y   D   L   Q   E   V   G   T   Q   G   V   V   C   C   K   T   L   Y   S   I   S   E   D   A   R   N   E   N   I   L   L   T   K   T			
UniRef90_L8BRQ8	N   I   K   K   T   K   T   Q   N   I   Y   D   L   Q   E   V   G   V   G   Q   T   C   Q   T   T   Y   E   I   Q   E   D   R   K   A   N   K   I   I   V   T   K   S			
UniRef90_Q90243	T   I   K   T   T   T   Q   N   V   Y   G   L   Q   E   N   G   I   A   G   I   C   C   K   E   A   S   Y   V   I   Q   E   D   R   K   A   N   K   I   I   V   T   K   S			
UniRef90_Q8UW88	N   I   K   K   T   K   T   H   N   V   Y   D   L   Q   E   A   G   T   Q   G   V   V   C   C   K   T   H   Y   V   I   T   E   D   R   I   I   L   T   K   T			
UniRef90_B9V4K2	N   I   K   K   T   K   T   Q   N   V   Y   E   M   Q   E   A   G   A   G   V   V   C   C   K   T   H   Y   V   I   T   E   D   K   R   G   R   I   S   V   T   K   S			
UniRef90_UP10003EAB6A5	N   I   K   K   T   K   S   Q   N   V   Y   E   L   Q   E   D   G   V   V   C   C   K   T   L   Y   S   I   S   E   D   A   R   I   I   L   L   T   K   T			
UniRef90_Q6JXK9	N   I   K   K   T   H   K   V   Y   D   L   Q   E   V   G   T   Q   G   V   V   C   C   K   T   L   Y   S   I   S   E   D   V   K   T   E   R   L   H   L   T   K   T			
UniRef90_Q98T86	N   I   K   K   T   K   T   Q   N   V   Y   E   L   Q   E   A   G   A   Q   G   V   V   C   C   K   T   D   Y   V   I   T   E   D   K   A   D   R   I   I   L   L   T   K   T			
UniRef90_S6A926	N   I   K   K   T   Q   N   V   Y   E   L   Q   E   A   G   T   Q   G   V   V   C   C   K   T   H   Y   V   I   S   E   D   V   K   T   E   R   L   H   L   T   K   T			
UniRef90_Q589G6	N   I   K   E   T   T   Q   N   V   Y   E   L   Q   K   A   G   A   Q   G   V   V   C   C   K   T   D   Y   V   I   S   E   D   V   K   T   E   R   L   H   L   T   K   T			
UniRef90_E1BYN5	T   I   K   T   T   T   Q   N   V   Y   E   L   Q   E   A   G   I   E   G   I   V   C   Q   A   R   Y   V   I   Q   D   D   S   K   N   N   R   A   T   I   S   K   S			
UniRef90_B2KSI6	N   L   K   N   T   Q   N   V   Y   E   L   H   E   A   G   P   G   V   V   C   C   K   T   H   Y   M   I   S   E   D   E   K   T   H   Q   I   V   V   R   K   S			
UniRef90_UP10003889F2C	T   L   K   K   S   Q   N   A   Y   D   L   Q   E   A   G   I   G   G   G   V   V   C   C   H   T   R   Y   I   I   Q   E   D   K   K   S   N   R   I   T   V   F   K   T			
UniRef90_B9V417	N   L   K   K   T   Q   N   V   Y   E   L   Q   E   A   G   V   V   G   G   V   V   C   C   H   T   Y   I   I   S   E   D   V   K   A   E   R   I   I   V   V   T   K   S			
UniRef90_K7GG70	S   L   K   K   S   Q   N   A   Y   G   L   Q   E   A   G   I   E   G   G   V   V   C   C   F   T   R   Y   A   I   Q   E   D   K   R   N   N   R   V   S   I   T   K   T			
UniRef90_UP10003C27E80	T   I   K   K   S   Q   N   V   Y   D   L   Q   E   A   G   I   E   G   G   V   V   C   C   H   T   R   Y   V   I   Q   E   D   R   K   N   N   R   V   S   I   T   K   T			
UniRef90_UP10002A4A3F2	T   L   K   K   T   H   N   V   Y   D   L   Q   E   A   G   I   E   G   V   V   C   C   N   T   L   Y   S   I   N   E   D   V   K   T   D   R   I   I   L   L   T   K   T			
UniRef90_UP1000457541D	T   M   K   N   T   Q   N   V   Y   E   L   Q   E   A   G   I   E   G   G   V   V   C   C   H   T   K   Y   I   L   Q   E   N   R   K   A   N   Q   I   I   V   T   K   S			
UniRef90_UP1000457541D	T   M   K   N   T   Q   N   V   Y   E   L   Q   E   A   G   I   E   G   G   V   V   C   C   H   T   K   Y   I   L   Q   E   N   R   K   A   N   Q   I   I   V   T   K   S			
UniRef90_UP10003EAB427	T   L   K   A   T   Q   N   V   Y   E   L   Q   E   S   D   I   S   G   T   C   Q   T   S   Y   V   I   Q   Q   D   R   D   S   D   Q   I   I   V   T   K   S			
UniRef90_UP10004572783	S   I   K   K   T   Q   N   I   Y   D   L   Q   E   M   G   V   E   G   I   C   C   H   T   S   Y   L   I   Q   E   D   K   K   A   G   Q   I   T   I   T   K   S			
UniRef90_UP10003EBBC52	N   V   K   K   T   Q   N   V   Y   E   L   Q   E   S   G   A   H   G   V   V   C   C   K   T   N   Y   V   I   R   E   D   M   R   A   E   R   I   H   Y   V   T   R   T			
UniRef90_P02845	T   I   K   K   S   Q   N   V   Y   E   L   Q   E   A   G   I   G   G   G   V   V   C   C   H   A   R   Y   V   I   Q   E   D   R   K   N   S   R   I   I   Y   V   T   R   T			
UniRef90_Q800N1	N   I   K   K   T   Q   N   V   Y   E   M   Q   E   A   G   A   Q   G   V   V   C   C   K   T   H   Y   V   I   S   E   D   A   K   T   E   R   I   I   H   L   T   K   T			
UniRef90_Q589S9	N   I   K   K   T   M   N   V   Y   D   L   Q   E   T   G   V   K   G   V   V   C   C   K   T   S   Y   V   L   K   E   D   P   K   A   D   R   I   H   L   T   K   T			
UniRef90_M3XL36	T   I   K   K   S   Q   N   V   Y   E   I   Q   E   A   G   I   E   G   G   V   V   C   C   Q   T   N   Y   V   I   Q   E   D   K   R   T   N   Q   I   T   V   S   K   S			
UniRef90_P87498	S   L   K   K   M   Q   H   S   Y   S   I   S   E   A   G   I   G   G   G   V   V   C   C   N   T   T   Y   A   I   Q   E   N   K   K   A   N   L   V   D   V   T   K   S			
UniRef90_H3C1V2	N   I   K   K   N   Q   N   V   Y   D   L   Q   E   E   G   V   Q   G   V   V   C   C   K   T   H   Y   I   V   Q   N   E   D   R   K   A   E   R   I   V   L   L   I   T   K   T			
UniRef90_A7E1Q7	N   I   K   K   T   Q   N   I   Y   D   L   Q   E   E   G   V   Q   G   V   V   C   C   K   T   R   Q   Y   A   I   T   E   N   E   K   T   E   R   I   I   L   L   T   K   S			
UniRef90_16MR55	T   T   K   K   S   Q   N   F   Y   D   L   Q   E   A   G   I   E   G   G   V   V   C   C   H   A   R   Y   I   V   Q   E   D   K   R   K   E   R   I   I   I   T   K   S			
UniRef90_UP10004576013	T   T   K   K   T   Q   N   V   Y   E   L   Q   E   A   G   I   E   G   G   V   V   C   C   H   T   R   Y   I   L   Q   E   V   K   T   T   N   H   I   V   V   T   K   S			
UniRef90_UP10003956E5F	T   T   K   K   T   Q   N   V   Y   E   L   Q   E   A   G   I   E   G   G   V   V   C   C   Q   T   R   Y   V   I   Q   D   D   S   A   N   K   R   A   T   V   S   K   S			
UniRef90_UP10003BD809B	N   N   K   K   T   Q   N   V   Y   E   L   Q   E   A   G   T   Q   G   V   V   C   C   K   T   L   Y   S   I   T   E   D   T   E   A   E   R   R   V   Y   L   R   K   T			
UniRef90_B3IYK0	T   T   K   K   S   Q   N   A   Y   D   L   Q   E   A   G   I   G   G   G   V   V   C   C   L   T   R   Y   V   I   Q   E   D   R   R   N   R   V   S   M   T   K   T			
UniRef90_B3DLK7	T   T   K   K   S   Q   D   V   Y   D   L   Q   E   S   V   E   S   S   V   V   G   G   V   V   C   C   H   T   R   Y   V   I   Q   E   D   K   R   G   D   Q   I   R   I   K   S			
UniRef90_UP10003833BD9	T   T   K   K   S   Q   N   A   Y   E   L   Q   E   A   G   I   E   G   G   V   V   C   C   H   T   R   Y   V   I   Q   E   D   S   K   N   N   R   A   I   I   Y   K   S			
UniRef90_UP10003838755	N   L   K   K   T   Q   N   V   Y   E   I   Q   E   D   G   I   Q   G   V   V   C   C   Q   T   N   Y   V   I   S   E   D   E   E   N   N   H   T   T   I   I   K   S			
UniRef90_UP1000273B4B2	T   T   K   K   S   Q   N   I   Y   Y   L   Q   E   A   G   I   E   G   G   V   V   C   C   H   T   K   Y   I   L   H   E   D   K   I   N   N   Q   V   S   I   R   K   S			
UniRef90_Q7SZF6	T   T   K   K   S   Q   N   V   Y   D   L   Q   E   E   D   G   V   V   C   C   H   T   K   Y   T   I   Q   E   D   R   R   N   R   V   S   M   T   K   T			
UniRef90_A7LGD2	N   I   K   K   T   Q   N   V   Y   E   L   Q   E   P   G   A   G   Q   G   V   V   C   C   K   T   H   Y   V   I   S   E   D   A   K   A   D   R   I   I   L   L   T   K   T			
UniRef90_H3B066	T   I   K   E   K   E   N   V   Y   N   V   Q   E   T   G   I   E   G   V   C   C   E   S   N   Y   I   I   Q   E   D   K   K   A   N   K   V   V   V   S   K   T			
UniRef90_UP10003C42971	T   M   K   K   S   Q   N   I   Y   N   L   Q   E   A   G   I   D   G   V   C   C   N   T   T   Y   V   I   Q   E   D   K   K   A   N   Q   M   Y   V   T   K   S			
UniRef90_U5XYT4	N   I   K   K   T   Q   N   I   Y   E   L   Q   E   A   G   A   Q   G   V   V   C   C   H   T   R   Y   V   I   Q   E   D   P   K   A   N   H   I   T   V   T   K   S			
UniRef90_UP10003D08DFE	T   I   K   K   S   Q   N   V   Y   D   L   Q   E   A   G   I   E   G   M   C   H   T   R   Y   V   I   Q   D   N   R   K   N   N   R   V   S   K   T			
UniRef90_H2V6H0	N   I   K   K   T   H   N   V   Y   E   L   Q   E   A   G   A   Q   G   V   V   C   C   K   T   T   T   Y   A   I   F   E   E   E   K   A   E   Q   I   H   V   T   K   T			
UniRef90_H2V6G9	T   V   K   K   T   H   N   I   Y   E   L   Q   E   R   G   S   Q   G   M   C   K   T   H   Y   V   I   R   V   D   K   K   E   G   A   F   T   I   I   K   T			
UniRef90_S4VG30	N   I   K   S   T   Q   D   N   Y   D   L   Q   E   V   G   P   H   G   V   C   C   L   T   K   Y   V   I   T   E   N   K   N   E   G   N   F   I   V   T   K   I			
UniRef90_UP10003C2866D	T   L   K   K   T   Q   N   I   Y   N   L   Q   E   A   G   I   E   G   S   G   V   C   C   N   T   T   Y   V   I   Q   E   N   K   R   A   N   Q   V   Y   V   T   K   S			
UniRef90_S4VFU0	T   I   K   Q   R   Q   N   D   Y   E   L   Q   E   E   D   G   V   V   Q   G   V   C   C   K   T   H   Y   V   I   T   E   K   A   E   T   G   H   I   H   L   V   K   S			
UniRef90_C05JS6	N   L   K   K   T   Q   N   I   Y   E   L   Q   E   D   G   V   V   Q   G   V   C   C   R   T   H   Y   V   I   N   E   D   T   K   A   N   H   I   L   V   T   K   S			
UniRef90_B9V4K8	T   V   K   T   T   Q   K   Y   Y   Q   L   Q   E   E   D   G   V   V   C   C   H   G   K   C   Q   S   N   Y   A   I   E   E   N   M   E   A   K   N   V   T   I   S   Q   V			
UniRef90_W5MPPO	T   V   K   T   N   H   A   V   Y   Q   L   Q   E   E   L   G   I   G   H   G   F   C   H   T   S   Y   V   I   T   E   K   D   K   S   K   E   I   Y   T   R   S			
UniRef90_M7AQ27	T   I   K   K   S   Q   N   A   Y   D   L   Q   E   A   G   I   G   G   V   V   C   C   L   T   R   Y   V   I   Q   E   D   R   R   S   N   R   V   S   T   K   T			
UniRef90_UP10004441923	T   V   K   T   T   Q   N   I   Y   E   L   K   E   I   G   H   G   N   C   E   S   N   Y   A   I   E   E   N   E   E   T   K   D   W   I   T   K   V			
UniRef90_H2LQ37	T   V   K   T   T   Q   R   V   Y   D   L   E   E   V   G   G   H   G   K   C   Q   S   N   Y   T   I   E   E   N   M   E   A   K   N   V   T   I   S   Q   V			
UniRef90_W8CID5	T   V   K   T   T   Q   H   V   Y   E   L   Q   E   E   G   G   V   V   C   C   H   G   K   C   Q   S   N   Y   A   I   E   G   D   T   E   N   Y   W   N   I   T   Q   V			
UniRef90_H9GSP1	T   I   K   E   S   L   D   M   Y   E   L   Q   E   P   G   V   G   G   T   C   F   T   T   Y   L   I   Q   E   K   R   K   D   S   R   V   S   I   L   R   S			
UniRef90_X2QHU6	M   P   S   K   N   K   R   S   F   D   I   Q   E   A   G   I   Q   G   V   V   C   C   Q   T   R   Y   L   R   Q   E   S   S   S   D   K   I   V   I   I   K   A			
UniRef90_I3J3A3	T   V   K   T   S   P   T   V   Y   E   L   E   E   A   G   I   H   G   M   C   Q   S   N   Y   A   T   E   I   N   K   Q   T   N   N   M   I   T   Q   V			
UniRef90_U3LZU0	T   V   K   T   T   Q   R   V   Y   E   E   F   G   I   H   G   L   C   C   Q   S   T   Y   V   A   N   E   D   A   N   S   Q   E   L   S   V   T   Q   V			
UniRef90_H3C6J5	T   V   K   T   T   Q   R   I   Y   E   L   E   E   V   G   I   H   G   M   C   Q   S   S   Y   V   T   E   M   D   R   K   T   K   D   I   T   Q   V			
UniRef90_C4MQ16	T   V   K   T   T   Q   N   I   Y   D   L   E   E   T   G   I   H   G   K   C   Q   S   N   Y   A   I   E   E   N   E   G   T   N   D   W   T   I   T   Q   V			
UniRef90_H2SAZ4	T   L   K   T   T   Q   R   E   I   Y   Q   L   E   E   V   S   I   H   G   T   C   Q   S   T   Y   V   T   E   M   N   D   E   T   K   E   L   S   V   T   Q   V			
UniRef90_G0ZF41	T   N   I   K   T   T   Q   N   V   Y   D   L   Q   E   P   G   T   Q   G   V   V   C   C   K   T   H   Y   V   I   S   E   D   S   K   A   D   R   I   H   L   S   K   T			
UniRef90_G3P4L3	T   V   K   T   T   Q   R   I   Y   E   L   E   E   V   S   I   H   G   V   V   C   C   H   P   S   H   Y   A   T   E   V   N   E   E   T   K   D   M   A   V   I   Q   V			
UniRef90_W5LCW9	T   L   K   T   T   Q   R   V   Y   E   L   N   E   E   L   G   I   H   G   V   V   C   C   H   S   A   Y   A   V   E   E   N   T   A   D   K   E   L   Y   V   T   Q   V			
UniRef90_UP10003F05BFC	N   M   T   S   S   E   G   F   F   V   N   K   E   I   D   I   G   G   V   C   C   H   E   T   A   Y   S   V   V   D   K   D   V   T   T   I   V   K   T			
UniRef90_X2QGR0	S   Y   K   K   D   P   L   L   K   G   Q   E   D   G   L   G   G   V   V   C   C   H   T   S   Y   V   V   Q   E   Q   G   T   S   K   K   T   V   V   S   K   T			
UniRef90_S6A416	T   V   K   T   T   Q   N   I   Y   T   V   E   E   L   G   L   H   G   L   G   C   Q   S   H   Y   A   V   I   E   E   N   A   A   K   E   M   I   T   Q   V			
UniRef90_B0ZSJ9	N   I   K   K   T   Q   N   V   Y   E   L   Q   E   P   G   T   Q   G   V   V   C   C   K   T   H   Y   V   L   L   S   E   D   A   K   D   E   L   I   L   L   T   K   S			
UniRef90_Q8JF8	T   V   K   S   N   Q   D   I   Y   E   L   E   E   I   G   I   H   G   K   C   L   S   S   Y   A   T   K   I   N   E   Q   E   K   V   M   D   L   T   Q   V			
UniRef90_Q2HUX2	N   V   K   K   T   Q   N   V   Y   E   L   Q   E   E   S   G   V   V   C   C   K   T   Q   Y   V   I   R   E   D   A   K   A   E   R   I   Y   Y   L   T   K   S			
UniRef90_Q6BCB8	T   I   K   K   S   Q   N   V   Y   E   L   Q   E   A   G   I   G   G   G   V   V   C   C   H   A   R   Y   V   I   Q   E   D   R   K   N   S   R   I   Y   V   T   R   T			
UniRef90_F1QQQ3	T   V   K   T   T   Q   S   F   Y   E   L   E   E   L   G   I   H   G   G   L   C   C   Q   S   S   Y   T   V   D   E   D   S   N   A   K   E   L   I   V   T   R   I			
UniRef90_B9V418	T   V   K   T   T   Q   K   V   Y   E   L   E   E   Q   G   I   H   G   G   L   C   C   Q   S   S   Y   T   V   D   E   D   E   H   T   S   E   L   A   V   T   Q   V			
UniRef90_R4VDM5	T   M   D   D   D   M   D   R   Y   K   A   R   E   N   D   V   M   G   N   C   P   T   E   Y   V   L   T   Q   K   G   W   K   A   K   N   I   R   K   T			
UniRef90_Q8JH36	N   L   K   K   T   Q   N   I   Y   E   L   Q   E   A   G   A   Q   G   V   V   C   C   R   T   H   Y   V   I   N   E   D   P   K   T   N   H   I   V   T   K   S			
UniRef90_S4VM47	T   V   K   S   N   Q   D   I   Y   E   I   E   E   A   G   I   H   G   K   C   H   S   S   Y   I   A   K   R   N   N   Q   A   N   E   M   D   L   T   Q   V			
UniRef90_K1QFM6	T   M   E   N   L   Q   A   D   Q   K   V   S   E   A   D   V   T   G   T   C   D   A   D   T   V   I   S   E   N   G   W   Y   S   V   T   I   K   K   H			
UniRef90_G1NAD5	T   I   K   K   T   Q   S   N   V   Y   E   L   Q   E   P   G   T   Q   G   V   V   C   C   Q   T   R   Y   V   I   Q   D   D   S   K   N   N   R   A   T   I   S   K   S			
UniRef90_B1B5Z4	D   M   H   K   P   M   G   V   Y   K   T   M   E   D   T   V   T   G   C   C   E   T   V   Y   D   V   S   P   R   A   D   G   R   I   I   E   I   V   K   T			
UniRef90_B1B544	D   L   H   P   H   S   K   E   Y   H   V   K   E   D   G   L   H   G   V   V   C   C   D   T   L   Y   I   V   H   E   E   H   D   Y   M   E   V   T   K   V			
UniRef90_Q9PUB1	T   I   K   K   S   Q   N   V   Y   E   L   Q   E   A   G   I   H   G   G   V   V   C   C   H   A   R   Y   V   I   Q   E   D   R   K   N   S   R   I   F   V   T   K   T			
UniRef90_L7M721	D   L   H   H   D   D   K   E   Y   H   V   K   E   D   G   L   H   G   P   C   C   D   T   L   Y   I   V   H   E   E   H   G   E   I   E   V   T   K   V			
UniRef90_E1CAY0	D   L   S   K   R   S   Q   F   S   V   A   E   D   G   L   H   G   V   V   C   C   E   T   T   Y   V   V   T   E   H   E   D   R   L   E   V   T   K   M			
UniRef90_A0A023FYX2	D   L   H   H   D   Q   K   E   Y   H   V   T   E   D   S   L   H   G   Q   C   C   D   T   L   Y   I   V   H   E   E   H   E   N   Y   I   S   V   T   K   V			

170            180            190            200

QUERY	R D L N N C D H K V Y K T M G T A Y A E R C P T C Q K M N K N L R S T A V Y N Y
UniRef90_G3P5Q0	R D L N D C Q E K V V K D I G L A Y T E K C P K C Q Q Q D S K N L R G A T A Y N Y
UniRef90_S6A7U3	K D L N N C C Q E R I R K D F G L A Y T E K C V E C Q C Q R G E A L M G A T Y N Y
UniRef90_A3FEM8	K D L S H C C Q E R I T K D I G L A Y T E K C D E C T E R V K S L I E T A S Y N Y
UniRef90_Q1MTC4	R D L S H C C Q E R I V K D I G L A Y T E T C V E C T K R I K S L I E T A N Y N Y
UniRef90_Q589T1	K D L N N C C Q E R I M K D I G L A Y T E K C V E C E S R G A T L K G V A A F N Y
UniRef90_C9WPN8	R D L N N C C Q E R I T K D M G L A Y T E K C D E C Q K E S K N L R G S T T F S Y
UniRef90_L8BRQ8	K D L N N C C E E K L M K T F G M T Y A E S C G N C Q Q N K N M R G A A S Y S Y
UniRef90_Q90243	K D L N N C C N E K I K M D I G M A Y S H T C S N C R K I R K N T R G T A A Y T Y
UniRef90_Q8UW88	R D M N H C C H E R I S R E I G L A Y T E K C D E C Q K E S K N L R G S T S Y R Y
UniRef90_B9V4K2	R D L N H C C Q E K V I K D I G L A Y T E K C V K C Q Q D S K N L R G T T G Y K Y
UniRef90_UP10003EAB6A5	K D L S D C C N D K I V K D I G M E E T E H C A H C Q Q R G K S N L R G A A A Y S Y
UniRef90_Q6JXK9	R D M N N C C Q E R I M K D M G L A Y T E K C D K C Q R E S K N L R G T T T F S Y
UniRef90_Q98T86	R D L N N C C Q E K I V K D I G L A Y T E K C I E C Q K E A K N L R G A A A Y N Y
UniRef90_S6A926	K D L K H C C Q D V I Y K D I G L A Y T E K C V Q C Q A R G M A L K G A V A V N Y
UniRef90_Q589G6	K D L N N C C H E R I M K D I G M A Y T E T C A Q S Q Q R G K N L R G A A A Y N Y
UniRef90_E1BYN5	K D L T D C Q D S A V Q S T G M A Y I R P C P T C P M K V K N M K G T V L F T Y
UniRef90_B2KSI6	K D L N N C C H E R V I K D I G L S Y T E T C A E C Q Q R L R S L T G T A T F S Y
UniRef90_UP10003889F2C	K D L N N C C Q D K V V L K N I G M A Y I R P C A T C P L K E K I I K G T A A F T Y
UniRef90_B9V417	K D L N N C C Q E R I V I K D I G L A Y T E T Q L K E K I I K G T A A F T Y
UniRef90_K7GG70	K D L D N C C Q D K V V K N I G M T F I R P C P A C P L K E K I I V K G T A A F T Y
UniRef90_UP10003C27E80	K D L S N N C C Q D K V V M K N I G M S Y I R P F P S F P M K E K I I V K G T A A F T Y
UniRef90_UP10002A4A3F2	R D M N H C C Q E R I I Y K D M G L A Y T E K C D E C Q K V S K N L R G S T S Y R Y
UniRef90_UP1000457541D	K D L D N C C Q E R A L E Q I G L V Y T M L C P T C Q Q R S K N L R S M A T F T H
UniRef90_UP1000457541D	K D L D N C C Q E R A L E Q I G L V Y T M L C P T C Q Q R S K N L R S M A T F T H
UniRef90_UP10003EAB427	K D L D N C C E E K V Q K N M G M A Y I H Q C P T C T K F G R N L R G T A A S T Y
UniRef90_UP10004572783	K D L N N C C Q E K A S K T M G I P F T Q F C E S C Q L K G K N L R S F S T Y T Y
UniRef90_UP10003EBBC52	K D L N L C C Q E K I M K D I G L E H V E K C H D C Q A R G K S L K G T A A S Y N Y
UniRef90_P02845	V D L N N C C Q E K V Q K S I G M A Y I Y P C P V D V M K E R L T K G T T A F S Y
UniRef90_Q800N1	K D L N N C C Q E R I T K D F G L A Y T E N C V Q C Q Q K G K N L R G T A A Y N Y
UniRef90_Q589S9	T D L N L C C T E K I I N M D V V G M G Y T N K C E E E C V R R G K V F S G A M S L S Y
UniRef90_M3XL36	R D L D N C C H E K K M K N I G M S Y I Q V L S T R Q Q Q E K N M R G A A A Y I Y
UniRef90_P87498	K D L N S N C C E E K V Q V V T G S A T Y T Q P C Q T C Q Q R N K N S R A T A T Y N Y
UniRef90_H3C1V2	R D L S H C C N V Y K V V G L A Y T H R C P E C E A T G K S L N G A S T F S Y
UniRef90_A7E1Q7	R N L N Q C C Q E K V M K D I G L A Y T K T S H K Y Q Q D S K S L R G T T G Y T Y
UniRef90_16MR55	K D L T N C C Q E R V L K Q T G I V Y T Q L C P S C Q Q R G R N L R A S A A S T I
UniRef90_UP10004576013	K D L S N C C Q D R A M Q Q I G V A Y A Q P C I S C Q Q R G R N L R G T V A I T Q
UniRef90_UP10003956E5F	K D L T D C C Q D K A V R N L G M A Y V R P C P T C A L K A R N I K G T V T F T Y
UniRef90_UP10003BD809B	R D M N H C C Q E R I I T K D M G L A Y T E K C G K C Q E D T K N L K G V S S Y S Y
UniRef90_B3IYK0	K D L N D C C Q D K V V K D I G M T Y I R P C P S C P L K E N I V K G T A A F T Y
UniRef90_B3DLK7	T D F N N C C Q D K V S K T I G L E L A E F C H S C K Q L N R V I Q G A A T Y T Y
UniRef90_UP10003833BD9	K D L T D C C Q E K A V K N T G M S Y I R P C P T C P L K I R N M K G T V M F T Y
UniRef90_UP10003838755	K D L T S C C H K R I I M K D V G L S Y L E K C I E C Q Q K I K S Y S G A V T Y S Y
UniRef90_UP1000273B4B2	R D L N N C C Q D K A A K T G M T Y F H V F P Q F D K K A G I V K G T E T Y S Y
UniRef90_Q7SZF6	R D F D R C C E S R V E K K I G V A Y I E T C T Q C K K V Q H L R G S A T F T Y
UniRef90_A7LGD2	K D L S Q C C Q E R I I K D I G L A Y T E K C V E C E A T G K T L K G T A A F N Y
UniRef90_H3B066	R N L N N C C E D K A I Q I L G V Y L G D K C A N C E Q R N K N V Q E A A T Y S Y
UniRef90_UP10003C42971	K D L N S C C D E R V Q M V T G T A Y T C Q C P A C R E K N Y S R A T T Y Y Y
UniRef90_U5XYT4	K D L S H C C Q E R I I M K D V G L A Y T E R C H E C T E R I K S L I E T A T Y N Y
UniRef90_UP10003D08DFE	K D L S N C C Q D K V V M K N I G M T Y V R P C P T C P L K A G N I K G T A A F T Y
UniRef90_H2V6H0	R D L N Q C C Q E G F I K D M G L A Y T E R C V K C Q Q D T K S L R G S T A Y D Y
UniRef90_H2V6G9	R D L N H C C Q D R I I Y K D T G L A Y A H R Y P E S E A T K T K L K G M S T F S Y
UniRef90_S4VG30	K D L N N C C Q E R E K I V K E V G L A Y M R K Y H E S H G R S Q I L N G V T T T N Y
UniRef90_UP10003C2866D	K D L N S C C N E K A Q M T T G S A T Y T P C K T C K C Q K V S T N L R D I S G Y E Y
UniRef90_S4VFU0	R D L N Q C C Q E K V R R D I G L A Y T R T T C H C C Q K V S T N L R D I S G Y E Y
UniRef90_C05JS6	K D L N H C C Q E R I I M K D V G L A Y T E R C A E C T E R V K S L I E T A S Y N Y
UniRef90_B9V4K8	V D L N N C C Q E K A A Y S G M A S A V L D K V S K Q K G E S V I S T M R Y I Y
UniRef90_W5MPPO	T D L R N C C Q E K A E K Y I G L A N A P K C K N C E K G S Q A E E T V T Y T Y
UniRef90_M7AQ27	K D L N N C C Q D K V V K D I G T F I R P C P S C P L K E K I I V K G T A A F T Y
UniRef90_UP10004441923	V D V T N N C C K E K A A M H R G M A T A M A D K L S K E R G E S V M S T M K Y N Y
UniRef90_H2LQ37	V D V T K C C K E R A K E Y K G M A T A V V D K L S K Q R G E S V V Y S T V R N V Y
UniRef90_W8CID5	V D V T N N C C K E R A E M Y S G M A N A V E D E S R E R G K S V F S T V R Y V Y
UniRef90_H9GSP1	K D L N N C C T D K V V K D V G M T Y V R P C P T C P V N I T N T R G T V A F N Y
UniRef90_X2QHU6	R N L N N C C T K N A T L T T G A A Y T E A C P C E C K I S K N V Q S A A T I R I
UniRef90_I3J3A3	V D I D N C C R M K A A M Q N G M A S A V L D K D S K Q R G E S V I S T V Q Y L Y
UniRef90_U3LZU0	V D I D N C C K K A A I Y R G M A L A V D N K L S K E R G D E S V I S T V R Y V Y
UniRef90_H3C6J5	V D I V S N N C C R E K A A L Y T G M A M A V L D N I S K Q K G E S V V V S T V R Y V Y
UniRef90_C4MQ16	V D D V T N N C C K E K A A M Y R G T A I T V V D K L S K E R G E S V I S T M G Y N Y
UniRef90_H2SAZ4	V D I D N C C R D K A A K Y T G V A M A V L D N V S Q K Q G E S V M S T V R Y L Y
UniRef90_G0ZF41	K D L S H C C Q E R I I Y K D F G L G Y T E R C T E C E A R G K T M K G A A A I N Y
UniRef90_G3P4L3	V D I S N C C R E K A A I Y K G M A T A V L D D V G K Q R G E S I V S T V R C C V Y
UniRef90_W5LCW9	V D I S N C C I Q K A A V Y S G M T L A E E S K N S K Q R G E N V I A T V K Y A Y
UniRef90_UP10003F05BFC	K D Y E K C C I V R P A Y W N F T R S M Q Y V L E R Q A P P L R S A T F R Y
UniRef90_X2QGR0	R D L G N C C Q Q K I Y T T G A A Y T E T C P G C R M G T E H L R S T A T Y T Y
UniRef90_S6A416	V D I T V C C K E K A V L Y R G M A T A V P D Q V A K E K G E S I M A T V K Y V H
UniRef90_B0ZSJ9	K D L N K C C Q K R I I M K D I G L T Y T E R C V Q C E A R G N I L K A A A A S N Y
UniRef90_Q8JF8	V D V T N N C C R E K A K M F Q T G M A T A V E D K V S R Q R G E S V F S T V K Y T Y
UniRef90_Q2HXU2	K E L N H C C Q E R I I V K D I G L E F Q E K C H E C K A R G K A L E G T A S Y N Y
UniRef90_Q6BCB8	V D L N N C C Q E K V Q K S I G M A Y I Y P C P V D V M K E R L T K G T T A F S Y
UniRef90_F1QQQ3	V D I T N N C C Q Q P A S L Y R G M A L A P E D K L S K Q R G E S V V S T V K H T Y
UniRef90_B9V418	V D I S G C C R Q K A E V S T G M A L A I E D E I S K A K G D R I V A S V I E Y V Y
UniRef90_R4VDM5	K D F L A C M D R Q S Y E S S I R S V P L K L A S N R S L P L L K S T I L C E Q
UniRef90_Q8JH36	K D L S H C C Q E R
UniRef90_S4VM47	V D V T N N C C M E R V V C H T G L A S A I A E Q A A I K L G K A F T T V Q Y T Y
UniRef90_K1QFM6	K N L L G C C T E R H G Y Q T A L Q G T P Y V P S E I Q S L P I M K S S H D C Q Q
UniRef90_G1NAD5	K D L T D C C Q D S A V Q S T G M A Y I R P C P T C P M K V R N M K G T V L F T Y
UniRef90_B1B5Z4	R F N S E C C D Q R V A F H F G T P N W E P A G N Q M G P F M A R S S V S R V
UniRef90_B1B544	K N L E K C C E H R P Y I F Y G R V R G K P C I H C E A E D T H P Y A S S Q V Y Y
UniRef90_Q9PUB1	V D S T N N C C Q E K V E K S V G M A Y I Y P C P V D M M K R K A Y Q R A S G F L L
UniRef90_L7M721	K N L Q K C C D H H Y H Y S H G Q K G E R C L R C K E V A T L P H A T S E V Y Y
UniRef90_E1CAY0	K N L E K C C D N Q P F H V T G T L K G R P C V G C K Q R W V P L T M T S E V K Y
UniRef90_A0A023FYX2	K N H E K C E H G H Y A L F G Q M K G D I C E K C E G Y V S H P H S S S E V Y Y

210      220      230      240

QUERY	A   F D E P S G Y I   K S A H S E E	I   Q Q L S V F D   K E G N V V I E S R Q K L		
UniRef90_G3P5Q0	V L K P A A H G   L I L E A A A V N E E	L   I Q F S P F A E I N G A A Q M E T K Q S L		
UniRef90_S6A7U3	I   M K P P A A S G A L I L E A T V T E E	L   H Q F T P F N E M S G A A Q M K A K Q M L		
UniRef90_A3FEM8	I   M K P T S A G V L V S E A T V T E E	I   H Q F S P F N E I H G A A Q M E A T Q S L		
UniRef90_Q1MTC4	I   I K P S D S G A L I A E A T V K E E	V   H Q F S P F N I L N G A A Q M E A K Q V L		
UniRef90_Q589T1	V L R P A A T G A L I L E A T A T E L	I   Q F S P F N I L N G A A Q M E A K Q V L		
UniRef90_C9WPN8	I   F K P V A N A I M   Q K A E V N E E	I   Q F S P F N I L N G A A Q M E A K Q V L		
UniRef90_L8BRQ8	K L K P K I D T G T L I L Q I S T Q E E	H   Q F T P F S E K T S P A I M E A R Q K L		
UniRef90_Q90243	I   L K P T D T G T L I T Q A T S Q E E	V   H Q F T P F N E M T G A A I T E A R Q K L		
UniRef90_Q8UW88	I   L K P V P S G I M I L E A D V N E E	I   Q F S P F V S E R Y G A A Q T E T R Q T L		
UniRef90_B9V4K2	T L K E H N R G I L I L K A A V V N E E	I   Q F S P F P F E S T N G A A Q T K T K Q S L		
UniRef90_UP10003EAB6A5	I   L K P T D S D A L I L E V T A Q E L	H   Q F T P F N E M T G A A Q T K T K Q S L		
UniRef90_Q6JXK9	V L K P P S P S G V M M K A E V N E E	I   E F S P F S E T N G A A Q T K T K Q S L		
UniRef90_Q98T86	V L K P V P T G V L L Q A T V N E E	I   Q F S P F F N E L N G A A Q M N T K Q S L		
UniRef90_S6A926	I   L K P A A T G A L L I E A T A T E L	I   Q F S P F P N I L N G A A Q M E A K Q V L		
UniRef90_Q589G6	I   M K P T A A G A L I T E A T V Q G L	H   Q F T P F P F N E M T G A A Q M E A K Q V L		
UniRef90_E1BYN5	K M K Y Y G S G A L M T S A M S E Q V Y Q I S P F N E P D G V A A M E A R Q E L			
UniRef90_B2KSI6	I   M K P T E K G A L V S E A V V E E V	H   Q F S L F N T E T G A A Q M R A K Q T L		
UniRef90_UP10003889F2C	K M K Y T D A G T L I T Q A V S Q Q V Y Q I S P F S E P A G V A V M E A R Q E L			
UniRef90_B9V417	I   M K P P S A T G A L I T E A T V R E L	H   Q V T P V A E M G G V A V T D A R Q E L		
UniRef90_K7GG70	K L K Y A E A G A L I T E A R S Q Q V Y Q I S P F N E P A G V A V T E V R Q E L			
UniRef90_UP10003C27E80	K L K Y A E R G A L I T E A M S Q Q V Y Q I S P F N E H N G A A Q T K I K Q T L			
UniRef90_UP10002A4A3F2	I   L K P V P S G I M I M K A D V N E L	I   Q F S P F S E H N G A A Q T K I K Q T L		
UniRef90_UP1000457541D	I   L K P K L S G A L I V Q V E S R E I	H   Q F T P F H E L D G T A I M E A K Q H L		
UniRef90_UP1000457541D	I   L K P K L S G A L I V Q V E S R E I	H   Q F T P F H E L D G T A I M E A K Q H L		
UniRef90_UP10003EAB427	V L K P M R S S G F L V T Q V T S Q A V Y Q F T P F S E I N G A A L T E A S Q K L			
UniRef90_UP10004572783	T M Q T K Q G G G A E I V I E V N S H E T H   Q F T P F N E F D G G V L M E A R Q H L			
UniRef90_UP10003EBBC52	I   M K P A P S S G S L I M E A V A R E V I E F S P F N I L N G A A Q M E S K Q I L			
UniRef90_P02845	K L K Q S D S G T L I T D V V S S R Q V Y Q I S P F N E P T G V A V M E A R Q Q L			
UniRef90_Q800N1	I   M K P T A T G A T I I M E A T V T E L H   Q Y S P F N E M N G A A Q M E A R Q T L			
UniRef90_Q589S9	V M K P S A S G A L I L E A T A T E L L L Q Y S P F N I V N G A A Q M E A R Q N I			
UniRef90_M3XL36	M I K P K A N G A L I D K V T V R E P Q H E F T P F N E L D D A A V T E A R Q K L			
UniRef90_P87498	K I K Y T H N E A V I T Q A E V E E V H   Q F T P F H E T G G N A I V E A R Q K L			
UniRef90_H3C1V2	V L K P T A Q G S L I M M A T S E E L I   Q F S P F N I L K G A A Q M E S R Q I L			
UniRef90_A7E1Q7	K L K P V P B G G T I I E E A T G N E I I   Q F T P F N E L N G V A S M Q T L Q H L			
UniRef90_16MR55	V L K P T A L G A I I Q E A R V R E V H   Q F T P F H E L D G T I R L E A R Q S L			
UniRef90_UP10004576013	V L K P T K S G A L I T E A N S R E L H   Q F T P L H E L D G T V I L E G R Q D L			
UniRef90_UP10003956E5F	K I R Y D D S G A S L I T S A V S D Q V Y Q I S P F N E P N G A A I V E A R Q E L			
UniRef90_UP10003BD809B	I   M K P L D N G I Q I K E A S V H E L I   Q F S P F S E Q H G A A H M E T K Q S L			
UniRef90_B3IYK0	K L K Y A D S G T L I T E A V S Q Q V Y Q I S P F N E P A G V A D M E A R Q E L			
UniRef90_B3DLK7	K L K G R D Q G T V I M E V T A R Q V L L Q V T P F A E R H G A A T M E S R Q V L			
UniRef90_UP10003833BD9	M M K Y D D N E T S L I T S A A S Q Q V Y Q I S P F N E R N G A T A M E A R Q E L			
UniRef90_UP10003838755	I   L K P A P N G V M I T E A T V R E I H   Q F T P Q Q Y E I G D A T Q M E T R Q T L			
UniRef90_UP1000273B4B2	K M K Y T G R G A L I S E V T V H Q V Y Q V S P F N E E N G V G V T E T E Q E L			
UniRef90_Q7SZF6	K L Q N K D Q G A L I V E A S A K Q V Y R Y A P P Y Y E L Y G G A A V M E A R Q I L			
UniRef90_A7LGD2	V M K P T A T G T L I L E A T T E L I   Q F S P F L N I L N G A A Q M K			
UniRef90_H3B066	M I E R T R A G S T I L K V D A Q E F H   L V T P F S M K D G A A T T E T R Q K L			
UniRef90_UP10003C42971	K I K S T R E D A L I Q Q I E V Q E I H   Q F T P F H E V T G V G V I A E A S Q K L			
UniRef90_U5XYT4	I   M K P A S A G V L I T E E T V E E V H   Y F S P F H E I H D A A M M E I L Q T I			
UniRef90_UP10003D08DFE	K M K Y A E A A G L L I T Q V I S Q M Y Q I S P F S E P S G V A I V E A R Q E F			
UniRef90_H2V6H0	I   F K S H A E S V Q O L Q V K A N E V I R L A P L S E R N G A V E M Q T K Q V F			
UniRef90_H2V6G9	E M K L T D Q G S Q I K N A T T E E I I   Q F S P F N I L N G A A Q M E A K Q K L			
UniRef90_S4VG30	I   L K A T D A G S R I E E V Q T K E I I T F S P F D V V K G G A A Q M E A K Q K L			
UniRef90_UP10003C2866D	K I K S T Q D E A I V I E A D V V Q E L H   Q F T P F N E I T G G A V V V E A R Q N I			
UniRef90_S4VFU0	K L K Q V P N G H I E E A S V R E N I   Q F S P F N E L N G A A T M E T K Q H L			
UniRef90_C05JS6	I   M K P S A A G V L I A E A T V E E V H   Q F S P F N E I H G A A Q M E A K Q T L			
UniRef90_B9V4K8	T V K P T A E G G L I T K A Q G V E Q O P F N V V K G G N F K M Q A T K E M			
UniRef90_W5MPPO	T M K L T D E G A L I T E A N V Q E M H   Q F T P F N V V K E G T S L L E A T K T F			
UniRef90_M7AQ27	K L K Y A D S G T L I T E V V S Q Q V Y Q I S P F N E P A G V A V M E A R Q E L			
UniRef90_UP10004441923	T I K P T P E G G L I T T A H G F E E Q Q H F S A F N V K G G S F K M E A M K N L			
UniRef90_H2LQ37	T I K P T T E G G L I T K A E G R E R Q H F T P F N V V K G G A F K M Q A T K E L			
UniRef90_W8CID5	T V K P S A E G G L I T A A H G L E Q Q Y F S P F N V V K G G T F K M Q A M K E L			
UniRef90_H9GSP1	N L K R T D T G S L I I Q A E S Q Q I Y E I S P F N E F H G T A V M V A R			
UniRef90_X2QHU6	S L Q K S R S G E V I H R V K S T E V H A F S P F H N Q E G A A M T E T K Q T L			
UniRef90_I3J3A3	T I Q P T E E G G I V K S A Y G L E Q Q H F S P F N V V K R G S F K M E A M K N L			
UniRef90_U3LZU0	T V K P T V D G G L I K K A H A L L E R Q H F S P F N V V K G G N S K L Q A T K E L			
UniRef90_H3C6J5	W V K P T A D G G L I T K A H G L E Q Q F F S P F N V V K G G T F K M E A V K E M			
UniRef90_C4MQ16	T I K P T A E G G L I T R A H G L E Q Q H F S A F N V K G G S F K M E A M K N L			
UniRef90_H2SAZ4	S V K P T A D G G L I T K A H S L E R Q F F T P F N V V K G G N F K M Q A V K E M			
UniRef90_G0ZF41	V M K P S T T G S L I L E A T A T E L I   Q Y S P F N I L N G A A Q M E A K Q T L			
UniRef90_G3P4L3	T V K P T A D G G L I T R A H G H E Q Q N F S P F N V V K G G N F K M E A V N E M			
UniRef90_W5LCW9	T V N S T D T G G V I T K A S A E E R H H F S P F N V V K G G N T K V K A T R N I			
UniRef90_UP10003F05BFC	N L T E A G S R G Y I I K D A H S E G Q H I F T P F S E Y G G S A Q S I I K Q K L			
UniRef90_X2QGR0	T L T D S E P Q V I K Q D V E A D E I H   Q F S P F F E T E G S I V T Q G R Q K L			
UniRef90_S6A416	T V K P T A A G G V I T K A T A L E H   Q F T P F N V V K G G S F K M L A T K E L			
UniRef90_B0ZSJ9	V I K E T A T G A L L L N A S G I E I I   Q F S P F N I L N G A A Q M E A R Q N L			
UniRef90_Q8JF8	N I K A T E E A G L I T K A Q A L E L Q F F T P F N L K G G T F K M E A M K E L			
UniRef90_Q2HXU2	I   M K P T P S G S L I M E A V A T E V I Q F S P F N I L N G A A Q M Q S R Q N L			
UniRef90_Q6BCB8	K L K Q S D S G T L I T D V V S S R Q V Y Q I S P F N E P T G V A V M E A R Q Q L			
UniRef90_F1QQQ3	T V K S T A D G G Q I T K A F A Q E R Q Y F S P F N V V K G G N F R M L A L R D I			
UniRef90_B9V418	T V K A T A D G G L V T K A R A Q E Y H I F S P F T I K G G N S R L F A T K S I			
UniRef90_R4VDM5	T I A S S G Q L K E V Q C H E T H M F R P F S K E N S G A A T E I T Q K L			
UniRef90_Q8JH36	K I K A T E E A G L I D D A Q A V E L Q Y Y T P F N V K K G S F K M E A R K Q L			
UniRef90_S4VM47	E I S K G S I L K G S S C T E Q H V F R P F S R D S S G A M T E S R Q T L			
UniRef90_K1QFM6	K M K Y F D S G A L M T S A M S E Q V Y Q I S P F N E P D G I A A V E A R Q E L			
UniRef90_G1NAD5	K M K Y F D S G A L M T S A M S E Q V Y Q I S P F N E P D G I A A V E A R Q E L			
UniRef90_B1B5Z4	I I S G K I N K Y T I Q S S V T T N K V I L A P H L Y N K Q K G V A S R M N L			
UniRef90_B1B544	E L K G T P E H Y V I Q L A W A E S D N Q F K A F G E A K E H H I V L N R T L			
UniRef90_Q9PUB1	Q A K A V R Q R A L I T E I T S Q Q V R Q I S P F S E P T G V A V T E A R Q Q L			
UniRef90_L7M721	E L K G T A Q H Y V I D H A W A E S E Q L F K P H G E G K E F H V I L N R T L			
UniRef90_E1CAY0	K L K G N R Q N Y V Y I S C A C G T S D Q L F A P Y G D G K V F N V Q I N Q T A			
UniRef90_A0A023FYX2	D L E G T A Q H Y V I H H A W A E A S H V F R P H G E G K V I H I A L N R T L			

250                    260

QUERY	I L E G [Q S A P A A S Q A A S L Q N R G G L M Y K F P
UniRef90_G3P5Q0	V F I G T Q T [P V P V V A Q Y V H R G S L K Y E F
UniRef90_S6A7U3	T F V E I K K D P I I L P G G N Y V H R G F I R Y E F
UniRef90_A3FEM8	A F V E I E K T P I A P F K A D Y L A R G S L R Y E F
UniRef90_Q1MTC4	V F V E F E K A P V V P V K A D Y M P R G S L Q Y E F F
UniRef90_Q589T1	T F V D F E K [P V E P I K A A Y L P R G S L V Q Y E F F
UniRef90_C9WPN8	E F L E I K K D P I P P I N A V Y K H R G S L K Y E F F
UniRef90_L8BRQ8	V L A D I Q S T P A S T S Q L Q L K R G T V Q Y Q F
UniRef90_Q90243	V L E D A K V I H V T V P E Q E L K N R G S I I Q Y Q F
UniRef90_Q8UW88	V F L E I Q K S P I A P V S A E Y H H R G S L K Y E F F
UniRef90_B9V4K2	V F L E I T K D P I V P I Q S P Y L H R G S L K Y E F F
UniRef90_UP10003EAB6A5	I F Q E I R N S P V Q P G E S E Y Q K R G T L R Y E F F
UniRef90_Q6JXK9	V F L E I E T E K A P I Q E I K A E Y H H R G S L K Y E F F
UniRef90_Q98T86	V F L E I Q K T P I A P V N A Q Y L H R G S I I K Y E F F
UniRef90_S6A926	T Y V G I S K T P V L P I A A A Y L P R G S L Q Y E F F
UniRef90_Q589G6	T F L E I Q N A A V Q P I Q A D Y T P R G S L A Y E F F
UniRef90_E1BYN5	V L L D I K S T P I K A P D T Q L Q N Q G S L R Y H F P
UniRef90_B2KSI6	N L L E V Q N A P T A A A A G E Y A A R G S L Q Y E F F
UniRef90_UP10003889F2C	T L S D I K N S Q A S P S E I Q L Q N Y G S L R Y D F F
UniRef90_B9V417	T F L E L E K T P I V P I K A D Y V A R G S L L Y E F F
UniRef90_K7GG70	S F V E V K N E H V S P P E I H L Q N R G S T R F Q F P
UniRef90_UP10003C27E80	S L I E V R S E Q V S P P E V Q L Q N S G S L L R Y D F F P
UniRef90_UP100024A4F2	V F L E I Q N N P I T S I P V E Y H H R G S L K Y E F F
UniRef90_UP1000457541D	F L D N V I A V K V S E P Q V E L Q S R G T L K H H W
UniRef90_UP1000457541D	F L D N V I A V K V S E P Q V E L Q S R G T L K H H W
UniRef90_UP10003EAB427	I L E E T R G A R A N F L E Q Q F Q N R G R L Q Y Q F
UniRef90_UP10004572783	I F L D S T S Q S L P T T S Y H M E N R G T L L T Y Q F
UniRef90_UP10003EBBC52	T F L D I E N T P V D H A R Y T Y V Q R G S L Q Y E
UniRef90_P02845	T L V E V V R S E R G S A P D V P M Q N Y G S L R Y R F P
UniRef90_Q800N1	A F I E I K K
UniRef90_Q589S9	T F V D V K K T P L V P I K A D Y V P R G T L K Y E L
UniRef90_M3XL36	V L V D I R N T P L A L P Q I Q L Q S R G T L L Q Y Q F F
UniRef90_P87498	A L I E V V Q K Q V A E V P P K F E F Q K R G S L Q Y Q F F
UniRef90_H3C1V2	K F L N I V K T P L E P V R A D Y V P R G S L Q Y E F F
UniRef90_A7E1Q7	V F I Q V E N A P I V P I S A E Y R H R G S L K Y E F F
UniRef90_16MR55	I L E K I T T A Q M E Q I P P D M Q N R R S L L Q Y R
UniRef90_UP10004576013	T L N E I K I K A E A V P V P Q V K F L P R G S L K Y
UniRef90_UP10003956E5F	S L V G T K R P P L S E P T V Q L Q K Q G S L R Y H F
UniRef90_UP10003BD809B	M L L E V V Q T P P Y A P T T A Q Y S H R G N L T Y Q F F
UniRef90_B3IYK0	T L V E V V K N E R V S P P E I Q L Q N R G G L P Y H F P
UniRef90_B3DLK7	A W V G S K S K S Q G L T P P Q I Q L K N R G N L H Y Q F F
UniRef90_UP10003833BD9	S L V S I K R T S L S A P K I Q L Q N Q G S L R Y H F
UniRef90_UP10003838755	T F L E I I M T T D I I P I S A D Y L A R G T L Q Y E F F
UniRef90_UP1000273B4B2	S L S E V V K K E R M S S P E V Q M Q N Q G S L Q Y R F F
UniRef90_Q7SZF6	T L A E T K S N R V S E S Q V Q L T K R G G L N Y H F
UniRef90_A7LGD2	
UniRef90_H3B066	S L I D V K E E L I N T P Q V Q M Q N R G T L H Y R F
UniRef90_UP10003C42971	I L T N M Q K H A P E I P S V D F Q K R G S L R F H F
UniRef90_U5XYT4	H L M K I S D A P A Q I V E
UniRef90_UP10003D08DFE	T L I E M R I N Q A S T S E I Q L E N H G N L F Y R F
UniRef90_H2V6H0	S F V E I Q K T P I V V G S S P Y V D S G S L R Y K F P
UniRef90_H2V6G9	I L V N V L K T P L E S I R G D Y P T R G S L Q Y E F F
UniRef90_S4VG30	K F L E E T D R P V V P I S A D Y R Q H E S L Q Y E F F
UniRef90_UP10003C2866D	I L N D V Q K H S P E I P S K D F R K R G L R H Q F F
UniRef90_S4VFU0	K F L Q I K Q A R I A P A N S E Y S N R G S L K Y E F F
UniRef90_C0JS6	T F V E M E K T P V V P I K A D Y L A R G S L H Y E F F
UniRef90_B9V4K8	V L G V T D A E A L T Y G P L E S K G S L V Y K F F
UniRef90_W5MPPO	V L V N V K D A Q G K P P K I L L Q N K G N L K Y K F F
UniRef90_M7AQ27	T L V E V K S E H V S P P E M Q L Q N R G G L P Y R F P
UniRef90_UP10004441923	V L L L S V N D T H R A R T Y G P L E I K G N I V Y K F F
UniRef90_H2LQ37	V L L G V S D T A S T P T F G P M E S K G D I I F K F F
UniRef90_W8CID5	T L L S V S D T A S A I T T G P M E S K G N I V Y K F F
UniRef90_H9GSP1	E E E V Q X T Q E R M S E T P M Q N H G T L Y Y Q F F
UniRef90_X2QHU6	E L E D V V S S S N Q P I R S S S M Q E R G G I M Y M L P
UniRef90_I3J3A3	V L L I R V S E G K P A N V G Q L Q N R G D L V Y K F F
UniRef90_U3LZU0	V L L S V T D T V V T P A V G P M I S R G N L V Y K F F
UniRef90_H3C6J5	V L L L G V T E S L R A F T L G P M E S K G S L V Y K F F
UniRef90_C4MQ16	V L L L S V N T A S A I S Y G P M E S K G D I V L I K F F
UniRef90_H2SAZ4	V L L L G V T D E G R E F T L G P M E H K G D L K Y K F F
UniRef90_G0ZF41	T F L S I K K V P V E P I S A D Y L P R G S L K Y E F F
UniRef90_G3P4L3	V L L S V N D T V G A V E P G P M E S K G N L V F M F
UniRef90_W5LCW9	V L L K V M N T I L G K P V T G H V K S R G N L M Y K
UniRef90_UP10003F05BFC	R F V D K M A G D A R A P S D L P D R G N L M Y A Y P
UniRef90_X2QGR0	T L I S S E R A S Q D V R S A S Q K K R G G L D F R F P
UniRef90_S6A416	V F I S V T V N T T E A L T S G A M E P K G N I V Y K F F
UniRef90_B0ZSJ9	T F L E I K E T R S A P Y S A E Y V H R G S V Q Y E
UniRef90_Q8JF8	V L T T V K D K T Q D T P N R Q M E S R G N I V Y K
UniRef90_Q2HXU2	T F L N M E N S P V A H A R N D Y V Q H G S L Q Y E Y
UniRef90_Q6BCB8	T L V E V V R S E R G S A P D V P M Q N Y G S L R Y R F P
UniRef90_F1QQQ3	E L L K V S D T T D K V V T G Q V Q S R G N L M Y K
UniRef90_B9V418	E L L K V T D V A G N P A V P P T Q S R G N L V Y K F F
UniRef90_R4VDM5	T L I R E T S T V S S T E K D L I S R R S N L L F E
UniRef90_Q8JH36	
UniRef90_S4VM47	R L L S V K N K A Q D S S Q D S V E S R G D I M F
UniRef90_K1QFM6	K Y S N E R T G V S T A N S V T R K A D M N F E
UniRef90_G1NAD5	V L V D I K S I P I K A P D A Q L Q N K G S L R Y H F P
UniRef90_B1B5Z4	T L E S V Q P A Q G Q P Q S P V R T I K D L V Y E Y
UniRef90_B1B544	E L E A E H D A P T V E T P E D A A K E H S L L Q E F F
UniRef90_Q9PUB1	T L L E V V R S E R S S A P D V P M Q S Y G G L R Y H F P
UniRef90_L7M721	D L V E E H D A P T D T V E A G E K E H S L A Q E F F P
UniRef90_E1CAY0	T L L E E T H D S G A E I T L P D S D S Y R R L A H K F P
UniRef90_A0A023FYX2	D L V E E H E A T M E T P P E D S E K D H S L

1            10            20            30            40

UniRef90_Q17083	W K T G Q E Y T Y Q V R G R T L A A L H Q V A D Q Y T G I A L K A Q L K C Q P
UniRef90_Q90WQ0	
UniRef90_Q90WM8	
UniRef90_B7QGE2	F E T G K E Y V Y H Y N G R L Q I K N P E Q P L Q S S G F A F R S K V V A Q P
UniRef90_F6Z5E1	F K H L R K Y T Y I Y E A E S S S G V P G T A D S R S T T K I T C K V E L D V
UniRef90_T2B338	W K S G T Q Y V Y N V R G R T M T G L H Q V A D Q Y V G I V M R A K L S V Q P
UniRef90_Q9U8M0	
UniRef90_F6UCK8	E W D P N R Q Y V Y K V E S R A F T A L Q I S N Q Y A G I L M R A K L I I Q P
UniRef90_F0J8W4	F K H L R K Y V Y N Y E A E S T S G V T G T A D S R S A T K I N C K V E L E V
UniRef90_UP10001CBBED9	F E V G K E Y V Y K Y K G T L H I A N P E Q P L Q S T G Y A Y R S K I V V Q P
UniRef90_K1QKD6	Q F T P G R E Y V Y E Y E G Q V L S G L P K S S Q E F S G L R I S C K P R L Q F
UniRef90_O17428	Y K I G E T Y R F T Y E G E T K T S I N G G N K E Q S G L K F T A T A L V E V
UniRef90_H0XCJ2	W K T D T E Y Q Y A V R G R T L S A L H D V A D Q Y S G L I M R A L L T I Q P
UniRef90_L7LWI3	F K H F R K Y V Y N Y E A E S S S G V P G T A D S R S A T K I N C K V E L E V
UniRef90_Q17BE3	F E V G K E Y V Y E Y K G T M Y V L N P E Q R H Q L T G L G F R S K I V V Q P
UniRef90_I0B4C6	Y Q Q H R L Y K Y D Y A M Y V K T Q F S G S G E N S S E L H I I A V E I I D F
UniRef90_G8IIT0	E V E L G K T H R Y N Y T G D I R T S F P Q T G N E T V G Q R L Q C I V E I Y P
UniRef90_A0A023GPB4	W K V G E E Y Q Y L V R S R T L T G L Q T L S D Q Y A G I L M K A T L R I Q C
UniRef90_A0A023GP41	F E V G K E Y V Y R Y K G T M Q V F S P E Q R D Q S A G M A F R S K I V V Q P
UniRef90_UP100034FD7D8	G K E Y V Y N Y E G R I Q T L S L D Q P L H S N G F A F R S K I S M Q P
UniRef90_UP10003F18BF2	F K H L R K Y I Y S Y E A E T S S S G V P G T A D S R S A T K V S C K V E L E V
UniRef90_I7CE51	F K H L R K Y V Y N Y Q A E S S S G V P G T A D S R S A T K I C K V E L E V
UniRef90_H0V4A3	Y S P N K E Y W Y D Y E T Q V V T G I P R G S K I Y S G L K F K A I A K L Q F
UniRef90_E9HQQ7	F K H L R K Y V Y S Y E A E S S S G I P G K A D S R S I T K I N C K V E L E V
UniRef90_A0A023F7A1	Q Y S V G T V Y S Y D Y T G E T A S K I G G T S G Q E S R L H I S A Q A E F Q V
UniRef90_B2BD67	W K N G N L Y R Y E V R G R T V V G L H Q V A D Q F A G V L V K G K L T V Q P
UniRef90_M3YQN7	W K D G K E Y T Y K I R S R T L A A F N P Q S K Q Y T G I V M E A R L T V Q P
UniRef90_UP100022CA20D	F K H L R K Y V Y S Y E A E S T S G V P T A A D S R S A T R I N C K V E L E V
UniRef90_A0A034WXN6	W H V D N E Y T Y L V R S R T L T S L D E L S D Q H T G I L M K A L L T V Q V
UniRef90_B0RZD4	F E V G K E Y V Y K Y K G T L R V E N P E Q P L Q S S S G I A F K S R L V L Q P
UniRef90_Q7SYX5	Y S P N K E Y W Y D Y E T Q V V T G I P K G S K I Y S G L K F K A T A K L Q F
UniRef90_UP1000258E3F1	K F K P L R K Y V Y N Y E A A T T S G V S G T A D S Q S G S K F S C K I I E L E V
UniRef90_UP1000224705B	W K V G D E Y T Y L V R S R T L T S L D V K S S Q Y A G I L I L K G F L T V Q A
UniRef90_UP100032AFC8A	F R P G K E Y V F E Y E A T S S S G V L V I P S K A Q S S W G F S G T L I V Q V
UniRef90_H9GAF3	F K H F R K Y L Y N Y E V E S S S G V P G T A D S R S T T R I N C K V E L E V
UniRef90_UP100046C1394	D F P E G T H H Y K Y E S E T R S T V S G E S L G Q S V V K M T A D I S V H A
UniRef90_UP1000252A983	K Y G P G T Q Q N Y K Y S V N V N V R S F F N G T S R N E S D L H V E G T V T L N F
UniRef90_A0A023GJX5	W K V G N E Y T Y L V R S R T L T S L G D L S D L H T G I L I K A L L T V Q V
UniRef90_UP10004418881	Y Q P G T T Y L Y N Y A S T T E T S M Q G T T S Q K V A V H I A C Q V E I E P
UniRef90_A9ZQ48	R E Y V Y R Y M A Q T V T G I P G A S K V Y S G V K V M A N V R L Q F
UniRef90_B7Q406	F E V G K D Y V Y H Y N G K L Q V Y N P E Q P L Q S S G F A F Q S K V V A Q P
UniRef90_H3EH13	F K T G K Q Y N F K F D G Q I A S G L P I S S S D N S A S R I E S L V S L N F
UniRef90_UP10003344E27	F K P L R T Y V Y N Y E A E A S S E F P G T G D S R S T T T L T C K V E L E V
UniRef90_V9HZ08	W K N G N L Y K Y E I N G R T L T A L N Q V A D Q Y A G V L F R A N F Y V Q P
UniRef90_W5JC53	Y N V G S M Y N Y E Y S M I V K T A L A G S G D N T S E L H V S A T V T L D I
UniRef90_Q0ZUC7	W K P N T Q Y E Y A V R A R T M A A L H Q V A P Q Y V G L V L N A K L Y L Q Q
UniRef90_F7BS91	
UniRef90_UP100042A9E54	F K H L R K Y V Y N Y E A E S S S S V R G T A D S R S A T K I N C K V E L E V
UniRef90_F1KQS3	Y R T Q R I Y R Y L Y K G Q I L S N G L P L S K L S T Q N A A T R I E A Q V L V F P
UniRef90_L5KRE2	F K P L R K Y I Y N Y E A E S S S G V P R T D S R S I L R I N C K V E L E V
UniRef90_H2ZVL8	F H K G Y R Y I Y K Y S T S T S T F L Q G S S Y E R S G I S L E S T V G V E V
UniRef90_U3JG73	F K P L R K Y V Y S Y E A E T S S S G V P G T T D S R S G S K I T C K V E L E V
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UniRef90_K7HLX3	F R A G R E Y R Y L F N G Q L S A G L P I P S T P Q G I T R L Q T Q V T L Q L
UniRef90_F1VN02	F K S L R K Y V Y L Y E A E T S S S G I T G T A D S H S G S K I T C K V E L E V
UniRef90_A8XJ12	F S P K S E Y I Y Q F D G L L S G L P T T S S D A S Q T R I S C R A L I Q A
UniRef90_U1MGQ2	F T P K R E Y R Y L Y R G Q I S T S T G I P R Q S D Q H A A T R L E A Q V S L F F
UniRef90_E9FFX3	Y S P G K S Y S Y R Y E V N V A S S V D G V S E S S K S R I I H T A K V H F D V
UniRef90_UP100034F318A	F Q K G S R Y I Y S Y S T S T G T F L A E S S S A R R D L L S L E C A V H I E V
UniRef90_UP10003F05BF2	Y V Q D R T Y K Y K Y N S V T S S Y I N G T P D K S G L R V S C D V E I D V
UniRef90_V9K7B7	F K N F W K Y V Y N Y E T E T L N G V P G T A D S R S G V K L S C K V E L E V
UniRef90_UP10003D0CF09	F K H L R K Y I Y T Y E A E T A S G V S G T A D S R T G S K M N C K V E L E V
UniRef90_UP10003314983	F K Y L R K Y V Y S Y E A E G S S E F P G T T D S R S T T K I S C K V E L E V
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UniRef90_W4VR36	H T Y K Y K Y E Y S M F V K T E F Y G S G Q N T S E L H I T A N V E V S F
UniRef90_C3XU16	F R E F R H Y E Y R Y E S E A L T G T Q T P N S S Q S G V R I R A D V V L S V
UniRef90_E1CAX9	Y E I I G R E Y V Y T Y Y G H M H T V M P G M D Q Q V A G V V L K S K I V V Q A
UniRef90_W6N9I2	Y R V G S E Y R Y L F D G Q V T T G L A L P P D T Q S S A T R I Q A I V T L Q P
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UniRef90_G0M7M4	
UniRef90_UP1000359911F	

50                    60                    70                    80

K G S D A	<span style="background-color: yellow;">L</span>	S C N I Q R P Q V A E	<span style="background-color: red;">I</span>	H A Q	<span style="background-color: blue;">P</span>	W D S P	<span style="background-color: blue;">P</span>	E K K T N Y Q K F E	<span style="background-color: yellow;">L</span>
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K S D H T Y F K I T D F E V D S F N G D R I I L D D H Q F N H S T D D L R E F  
P Q P C S F I L K T S H C T L K E G Y G F N P R K T L L K K T K N S E E F G A A  
K S D S E L V L K V N N A E Y A D V H A N L G W N G Y I P D S K S Y Q Q L P I  
K T R E E L H A Q L V E V E H S Q I N K E P S G W D Q E I E H D W Q Q L S A  
P Q L C S F V L K T S Q C T L R E V Y G F N T E T E K A M L K K T K N S E E F T A A  
K P D G T H F K I L N W E G D A F N S E H I D V A H H E F N Y A S N E N V G D E  
K D E D N V I V Q L D H V K L H R L Q R E I E D P R R Q Q P L E T S L E F R R E  
L S K C E L S L K I E D A V L S G S D P N Y P K S I L T D T Q S N E F K T A L  
K S D G T L E A K V T K A R Y A Q I H T K L P W N S E I P D H K L E M K Q F P M  
P Q L C S F I M K T S Q C T L K E V Y G F N P E K A L L K K T K N S E D F A A A  
K P D H T H F K I A N F E T E T F N S E E L H L D K H E F H Y T P N N Q H D A  
P K P C Q G L L K L H S I E V R D R P L P V V E E Q D F E H P K S D A I A E D L  
L T T L W N M R L V D P T L Y E I N G T H D K P Q M V N S T K V T M E L R E L  
N S P D T L R A Q R L L K P Q Y A Q I H K K L P W D S R L S D Q M L E H K H L P I  
K A D H T H F K I A D F E S D T F N S D D I N I E R H E F N Y A S N E H V G A  
R G E L T F F K I S D F V F D Q F H G E T I D L R T H E F N H H D D A L T D Y  
P Q L C S F I L K T S Q C A L K E V Y G F N P E G R V L L K K T K T S E A F A M  
P Q L C N F I L T K T N Q C T L K E V Y G I N P E E P L L K K T K N S E E F T A M  
E T A S K V M I K M E N V Q M Y K I N D Q I P E D M F H Q L T P E T A D M V A K  
P Q L C S F V L K T S Q C T L K E L H G N L E G K A L L K K T K N S E D F A A A  
V S Q C E F V F L R K R V T L E Q S D P E D G S A K S I A P G S S Q F A A G V  
K S D E I L N L Q V H L E Q A E H T N L S S G W S T Y I E D H D L N Y K K L P I  
N G D D L L R A K I L M P R Y T Q I H T E N G W D S E I P Q N Q M N M Q T F P L  
P Q L C S F I L R T S Q C T L K E G S G F N P K G S L Q K T E N S E D F A A A M  
K D P Q M L T A K V S H A Q Y A R I L K S L P E G W D T E I S M L E L R D M P F  
K P D G T H F K L L N F E A D S F N S E H I D V A H H E F N Y V A N E N F A V  
E T A A K V L V K F D D V E M Y K I N D Q I P E D L F Q Q L S P E T A D M V E K  
P Q P C N F I L R V K Q C T L R E V Y G V E G K A L L K K S K N S D D F S N A M  
K D T N T L I A K L W K G Q Y S R I H K E L P E G W E I S D H M L E F R D L P I  
D E D A A W M Q F E S L K T K V S N G V F E L D M K N E A I E L G E S T N D  
P H L C S F I L R T S Q C M L R E V Y A F S P E K A L L R K M K S S E E F A A A  
D G P N K I F S P R D Q F A E E P K D Q F V E P P K Q D D D R L A A C  
V T P C D G L L T L S D L K L S E N P F E D G Q E T P P H A N S Q E F S D M  
K D S N V L A A K V W N G Q Y A R I Q Q S M P W D T N I S D Q M L E L R D L P I  
L G S C D F L V Q I R G A S L E E D P S R P G H R R P S P N Q V E L R D A L  
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R P D H T H F K I I D F E V D T F N G E H V H L S D H Q F H S T D A L K Q F  
E N D R Q V L V F K I N K I R V G S Q R E V E S R E F F E E T E L I E E Q K E T  
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F S D R L S L A Y I Q N A E T A Q V H A E L P S E S H I P S S Q L N Y K S M P L  
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UniRef90_U3JG73	S K N E L K F S I Q D G T K V K L Y P E K E E P L N V L N L K R G I I S A L L V																						
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UniRef90_U1MGQ2	L L Q L P L R F R Y V D G L V S E I E F D R E D K V W S K N I K R S I L N M L Q V																						
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UniRef90_UP10003F05BF2	E E R P L M F S F Q D G E I P E C S D V E E P T W S L N I K R A I L S H F Q A																						
UniRef90_V9K7B7	S Q Y E L K F T T S G D G N G I T L Y P H Q D E P T N I L N I K R G I I S T L L V																						
UniRef90_UP10003D0CF09	S Q H E L K F N M Q D G T K V Q L Y P E K H E S V N I L N I K R G I I S A L L V																						
UniRef90_UP10003314983	M R Y E L R I A V P G G K Q V V L Y P E K G E P K H I L N I K R G I V S A L L V																						
UniRef90_X2ATR8	L E R L P R F S F I D G Q V E S I C G E Q E E P V W A M N I K R G I L S S A F Q N																						
UniRef90_W4VR36	E E N E L R F S F H D G A I S E I C P H E E S S V W V Q N F K R G I L S S L Q N																						
UniRef90_C3XU16	L Q N P L W F R Y Q S G R V Q D I R P Q Q D E Q Q W V L N I K R G I L S Q F N F																						
UniRef90_E1CAX9	M D K P F T A R Y D H G K V L N I Q V T R G E P L W S I N L K K A I V S M F N L																						
UniRef90_W6N9I2	L F M P I R F V Y R H G M I S D I E F S E E D K P W S V N I K K A I L N M L Q I																						
UniRef90_Q5KQQ7	L L T P I K F E Y A N G V V G K V F A P A G I S A T V L N I L R G V L N I L Q L																						
UniRef90_V5H340	M S K P F K I R Y D H G K I R N I Q I T R G E P L W S I N M K K S I A S V F N M																						
UniRef90_D5LOB5	L K M P I R F V Y R H G M V S E I E F S E E D K P W S V N I K K A V V N M L Q I																						
UniRef90_A0A016RY77	K N Q P F Q L L L S N G V V Q K M V V D K D I P T W E L N F L K G I A S Q F Q V																						
UniRef90_Q9U5D7	Q E Y T A H F T Y N G R I G S I L L M S K N A P L H C K N I M R G M L T M L N M																						
UniRef90_UP10004418BCA	E A H P T M F A F S D G T I D H V C P Q S G D S A W S V N F K R G F L T V L Q N																						
UniRef90_T1J9X6	L R L P V R F R Y E N G M V S D I E F D R E D L P W S M N I K R V Y I N M L Q V																						
UniRef90_H3FHY5	S T H D L R F A F H D G L I S E I C P D E I E E D W V L N Y K R A I L S L F Q N																						
UniRef90_G6CQJ6	E H H P L P F S F H N G K I L K I C P L Q R E Q A W V L N I K R G I L S M L Q T																						
UniRef90_UP10003C46C13	S E K P F E L K K N G V V D K M Y V D K N L P T W E V N M L K A I A S Q L Q L																						
UniRef90_T1HD19	I H Q P V T F D Y E N G R V G N I Y A Q R D E T D E A I N I K R G V I N L L F H L																						
UniRef90_B3S1T7	S E S T L R F A F K D G I V Y E I C P D E N E K T Y P L N F K R G I L S M I Q N																						
UniRef90_U4UQE3	P R E P F V V K T K D G I V D E L V V S K D L P V W H V N V I R S I V S Q F Q I																						
UniRef90_E0VZ52	S K Y E L K F T V S D G N K V S L Y P D Q K D P T N I L N I K R G I I S A L M V																						
UniRef90_H3B136	I E L P F R V Q M R N G L I S E I Q F S T E D A E W S K N G K R S I V N L L S L																						
UniRef90_E3LCE2	L Q H P L Q F S F H D G K I L K I C P Q Q C E Q A W V L N I K R G I L S V L Q T																						
UniRef90_UP100042C1887	S N T P C S F V L K N G Q I E D L K V E E T E P Y W S V N L I K R G I L V Q L L K I																						
UniRef90_R7U4T5	E L N P L K F S Y E D G R V E N I C P S E G D S P R V L N I K K G I L S S V I Q N																						
UniRef90_B7Q381	UniRef90_Q7PQM2	UniRef90_B5ABL8	UniRef90_G0M7M4	UniRef90_UP1000359911F	UniRef90_Q9U5D7	UniRef90_UP10004418BCA	UniRef90_T1J9X6	UniRef90_H3FHY5	UniRef90_G6CQJ6	UniRef90_UP10003C46C13	UniRef90_T1HD19	UniRef90_B3S1T7	UniRef90_U4UQE3	UniRef90_E0VZ52	UniRef90_H3B136	UniRef90_E3LCE2	UniRef90_UP100042C1887	UniRef90_R7U4T5	UniRef90_B7Q381	UniRef90_Q7PQM2	UniRef90_B5ABL8	UniRef90_G0M7M4	UniRef90_UP1000359911F

130            140            150            160

UniRef90_Q17083	D T Q G E N A M Y K A M E D T	V T G E C E V L Y D I S P L P E G Q I I D I V K T	
UniRef90_Q90WQ0	N I K K T Q N V Y E L Q E P G V Q G I C K T H Y V I S E D V K A E R I L L T K T		
UniRef90_Q90WM8	N I K K T Q N V Y E L Q E P G T Q G V C K T H Y L I S E D T K A E R I M V T K S		
UniRef90_B7QGE2	D L V T G R Q N Y T T R E H G L H G N C E V L Y D I S E D T K A E R I M V T K S		
UniRef90_F6Z5E1	P P E T E E A T Q V L F L D T V Y G N C S S N F T V K T R K G N V A T E I S I E		
UniRef90_T2B338	D T Q A E N G V Y K T M E D T V A G E V E T Q Y L I Q S R P E G Q L I D I V K T		
UniRef90_Q9U8M0	N T Q T D S A V Y S I R E T T I T G E C E V E Y D V S S N V N D N V I D I E K T		
UniRef90_F6UCK8	P Q E T E E D Q Q Q L S M D T V Y G N C S S Q I T V K A R K G S T A T E M T I E		
UniRef90_F0J8W4	D L H P E D K K Y H V K E D G L H G P C C D T L Y I V H E E E H G H I E V T K V		
UniRef90_UP10001CBBED9	N I K Q D V K V M R I L E E S V S G K C C E S V Y K I S D M E S K N V M N I T K I		
UniRef90_K1QKD6	T M D T F K T E Q N L V E T D V A G K C R T K Y N L K Q E G W R S V S I V K S		
UniRef90_O17428	D T Q G E N A M F K T M E D T V G G R C C E V L Y D I N P L P E G E I I D I V K T		
UniRef90_H0XCJ2	P P E T E E D N Q V V F L D T V Y G N C S T Q L T V K T R K G N V A T E I T T D		
UniRef90_L7LW13	D L V K G R H E Y H V K E D G L H G V C C D T L Y V V R E E A H D Y I E L T K I		
UniRef90_Q17BE3	S M P R F D I D Y H T E T D V S G V C C G V T Y T M S G S K G T S L S I R K T		
UniRef90_I0B4C6	Q M E R D N V Y E V E E E G V S G T C K T L Y S V T E T R N E D D L V T I T R V		
UniRef90_G8I10	D T Q G E F A T F R V M E D C V S G K C C E V L Y D V V P L T E G E H I Y I T K T		
UniRef90_A0A023GPB4	D L H H D D K E Y H V K E D S L H G A C C D T L Y I V H K E E Q N H I A L S K V		
UniRef90_A0A023GP41	D L T K R S N E F V V T E D G L N G M C H T T Y V V S E E E G R L E V T K V		
UniRef90_UP100034FD7D8	P P E T E E A Q Q E L F L D T V Y G N C S S T H T A V K T R K G S V A T E M S T E		
UniRef90_UP10003F18BF2	P P E T E E A K Q V M F L D T V Y G N C S S D F V K T R T G N V A T E V S I E		
UniRef90_I7CE51	N L D E R Q S F Y T V L E P S V A G E C E T F Y R R M M T S E G G P Y M R L S K I		
UniRef90_H0V4A3	P P E T E E D T Q E L F L D T V Y G N C S S T R V V V K T R K G N V A T E M S T D		
UniRef90_E9HQQ7	S M R N L A A S Q L V F E T D V V G H C E T N Y T V E D L G R N G V T V S R S		
UniRef90_A0A023F7A1	D T Q Q T L G V Y K T V E D T V T G E C E T I Y D I S P G A G Q V I D I V K T		
UniRef90_B2BD67	D T Q G E N A I F K V M E D S V G G M C E V L Y D V S A R E D G D I I S L V K T		
UniRef90_M3YQN7	P L E T E A D K Q E L F L D T V Y G N C S S D L T V K T K K A N V A T E I S I E		
UniRef90_UP100022CA20D	D T L G E N G M F V M E D S V S G K C E V L Y D I T P L S E G R H I D I R K S		
UniRef90_A0A034WXN6	D L H H N D K Q Y H V K E D G L H G P C C D T L Y I V H E E A H G G I E V S K V		
UniRef90_B0RZD4	N L E E R Q T F Y T V L E P S V A G E C E T F Y R R M P L V T S N Y I R L N K I		
UniRef90_Q7SYX5	P D E T Q E T D Y V D T V Y Y G K C C T S E I K V T S R K G N T P T D V T V E		
UniRef90_UP1000258E3F1	D S Q G E N G S F K V M E D T V V G G K C E V L Y D I T P L S D G Q H I D I M K T		
UniRef90_UP1000224705B	D L A E T Q A A F H S M E M N H Y G Q C S T H V T V K T K G N V V T E M S T E		
UniRef90_H9GAF3	T M K R F D L D H S T T E E D V R G Q C P T Q Y T V R G A K E T S L I L E K T		
UniRef90_UP100046C1394	D T Q G E N A I F K A M E D S V G G K C E V L Y D I A P L S D G R H M E I I K T		
UniRef90_UP1000252A983	S M K E L E V N E D V D E L D I A G R C C P T V Y E T L P K G W S S S S V R K I		
UniRef90_A0A023GJX5	T I K S D Q K N Y N L R E N G I L E G R C C N T T Y I I Q N T E K P D E F L M T K S		
UniRef90_UP10004418881	N M E K R W T P Y A A Y E L S A S G V C R E T Y T V E D P E F N A M F V T K T		
UniRef90_A9ZQ48	D L V K G R H Q F Y V K E D G L H G N C C D T L Y I V V A E K E G H I E V T K I		
UniRef90_B7Q406	N L S K T S T F F S T H E K T L E G D C E T S Y T V V P S G E E T L R V S K S		
UniRef90_H3EH13	P L E T E E D R Q V L F L D T V H G N C S S D F S V N T R K G H V A T E V S I E		
UniRef90_UP1000344E27	D T Q G Q N G V Y K T M E D S V T G E C E T L Y D V S P L P E G Q F I D I V K T		
UniRef90_V9HZ08	T M P R F D I D F Q T T E T D V S S G I C C D V T Y K T S G R K G T Q L L F R K T		
UniRef90_W5JC53	D T Q A E N G V Y K T M E D S V S G E C E T L Y D I S P L P K G Q L I D I V K T		
UniRef90_Q0ZUC7	T I K K T Q S V Y D L Q E M G I G G C H T R Y I I Q E D K K E E S I T I S K T		
UniRef90_F7BS91	P P E T E E D K Q V L F L D T V Y Y G N C S S T Q V T V N S R K G T V A T E M S T D		
UniRef90_UP100042A9E54	N L K N R D S F T A Q E A T L E G D C E V Y Y T I Q E R G K E G P L R V T K S		
UniRef90_F1KQS3	P P E T E D A Q R V L F L D T V Y Y G N C S S S N F S V R T R K G S V A T E V S I E		
UniRef90_L5KRE2	S Y T A N E E E I A E E V D V S G K C L T T Y Q L T G S V L V K T		
UniRef90_H2ZVL8	P A E T V E N V K T P M D T V Y Y G K C C D S E V E F K S R K G N V A E D I S I T		
UniRef90_U3JG73	P P E T E E A R Q V L F L D T V Y Y G N C S S D V T V K A R G T V A T E M A I E		
UniRef90_UP1000443D786	D T D E N T A V Y K V M E D T V E G E C E V L Y D I T P L P K G Q I I D V M K S S		
UniRef90_E0VZ54	N I L K K E K H F T N V E R T L E G D C E V L Y T V V E E S K Q K E E Q R W A K S		
UniRef90_K7HLX3	P T E T E E N I K T I S M D T V Y Y G K C C D S E V E F K S R R G S V A E D I S I N		
UniRef90_F1NV02	E T E K D S R F F T V N E K T M E G D C E V A Y T I V E E G E K T I Y T K S S		
UniRef90_A8XJ12	N I K K N A D F T A H E R T I E G D C E V A Y T F N E S P Q E E I M R I T K S		
UniRef90_U1MGQ2	T M P R F D L N H E S L D T D V M G T C K V D Y V F D G A D A N A I R V L K T		
UniRef90_E9FFX3	N L K A P A A G R S I V E V D V L G R C P T S Y E L R G N S L W K R		
UniRef90_UP100034F318A	S Y L K E E K E S A F E T D V T G S C P T K Y E A E H D Y Y G K L T I Q K T		
UniRef90_UP10003F05BF2	P M E S S S D D T E T L F M D S I Y G K C C D T E V E V R T R K G S I A T D I S M N E		
UniRef90_V9K7B7	P P E T E E D T R V L F L D T V Y Y G N C S S D F T V K S R K G S T A T E I S I E		
UniRef90_UP10003D0CF09	T M E S L D E D K R V F E T D V T G I C P T E Y E N K G T L W N T R T V K K T		
UniRef90_UP10003314983	T M K R F D V D H N T T E T D V S S G T V D V S Y I L D S S K T N L I I K K N S		
UniRef90_X2ATR8	N L I Q R Q G N Y S V E E T D V V G D C R V N Y T V R T D S E Q D E M Q I R R S		
UniRef90_W4VR36	D L E G N N A I I Y R I Y E D G I Y G E C C E T L Y D I Q E N P F A N V L I N V T K I		
UniRef90_C3XU16	N M M K M K N K F F V T V E R T L E G E C E V E Y T T N D M K T E F T Q W T K S		
UniRef90_E1CAX9	N I K K T Q N V Y E L Q E P G A Q G V C K T H Y V I S E D A K A Q R I L L S K T		
UniRef90_W6N9I2	D L H E L P T N Y R I Y E D G I Y G E C E T M Y D I Q E R P Y M T V L N V T K V		
UniRef90_Q5KQQ7	N I K K T Q N V Y E L Q E A G A Q G V C K T I Y A I A E D E K A D R I L L T K T		
UniRef90_V5H340	N L V E N K N F F I A V E R T L E G E C E V E Y T T T Q S E S E K V H W T K S		
UniRef90_D5LOB5	P A K T K E D V Q T V T T D T V Y Y G Q C C P T E M T V S D R K E S T A I K I T N		
UniRef90_A0A016RY77	P I Q K H P Q I V R D L E E G I E G K C C S T R Y A I Y Y E E K R S N S I I C K K V		
UniRef90_Q9U5D7	D T E Q D S G V F T T M E E S T N G K Y E T I Y E V S V L P E G E H Y K V V K T		
UniRef90_UP10004418BCA	S P R N Q K E Y E L Q E D G I I E G E C S T R Y A I Y Y E E K R S N S I I C K K V		
UniRef90_T1J9X6	S M K S L N K N E M L E E I D V S G Q C L T K Y S I R K R S W S S T F I T K T		
UniRef90_H3FYH5	N L S Q K N T H F S A P E V T L E G D C E V V Y T V R E R R E E S E L L V T K S		
UniRef90_G6CQJ6	S M K R F D L D F K G I Q D I H G T C D V S Y T V R G Q E N T S L L I V K T		
UniRef90_UP10003C46C13	S L V A A G G G S I E E M D I L G K C P T K Y R R R K G P L I L K T		
UniRef90_T1HD19	D T Q A E N R K Y R T I E A R I Q I T C E T I Y D I S P L P Q G Q I I D I V K T		
UniRef90_B3S1T7	P I Q K H P Q I V R D L E E G I E G K C C S T R Y A I Y Y E E K R S N S I I C K K V		
UniRef90_U4UQE3	S M K R F D L D Y S G D E E D V R G V C S T T Y A V L G A K E T S L L I I E K T		
UniRef90_E0VZ52	D T D E T T A V Y K V M E D T V E G E C E T L Y D V T P L P K E D L I D I V K T		
UniRef90_H3B136	P A K T K E D V Q T V T T D T V Y Y G Q C C P T E M T V S D R K E S T A I K I T N		
UniRef90_E3LC2E	H T E K D S R F F N V H E K T M E G D C E V I A Y T I V Q E G E K T I Y T K S		
UniRef90_UP100042C1887	S P A A A G N G T V E E M D I L G K C C P T K Y Q R R K G P L V L K T		
UniRef90_R7U4T5	N L K E R D V H Y T V T E E D V L G R C S E Q Y T L R P L S P Y L R L T K V		
UniRef90_B7Q381	S M Q R L E G N E D I V E V D I S G K C C P T V Y E T L P K G W T S L T I R K T		
UniRef90_Q7PQM2	D T N T L T G V Y K T M E P S V T G E C E T L Y D V N P V P E Q H V F H V V K S		
UniRef90_B5ABL8	D L H P D K E Y H V K E D G L H G P C E T L Y V V H E E H D Y I E V T K V		
UniRef90_G0M7M4	Q L Q K D S F F F N V N E K T M E G D C E V I A Y T I V Q D G E K T I Y T K S		
UniRef90_UP1000359911F	S M D D L T K A Q N L T E T D V A G E C R T E Y K L V S D G Y Y S I S I K K S		

	170	180	190	200
UniRef90_Q17083	S N F S N C E Q R M G Y H F G T G E T D W E A G S N S M G D F L	L A K S S V S R V		
UniRef90_Q90WQ0	K D L N N R Q E R I I K D I G L A Y T E K C V E C E A R G T T L	L K G A A A F N Y		
UniRef90_Q90WM8	K D L N E C Q E R I V K D I G L A Y T E R C T E C E A R G K A L	K G A S A F H Y		
UniRef90_B7QGE2	R D L D C C D K E A H I V Y G R I K G H C V E C E A M E T H L	S S T F E V K Y		
UniRef90_F6Z5E1	R N L D K C D H F K P M S T G V S P L A L I K G M I R P L S T L	I G S S Q C Q Y		
UniRef90_T2B338	R N F S N A D Q K M A Y H Y G T G L T D W E P A S N Q M G N F L	S R S S V S R V		
UniRef90_Q9U8M0	Q N F S N C K R R P A V H Y G L A G I P D E P G Q N Q M G D F L	A R S S V S R V		
UniRef90_F6UCK8	R N L K Q C D H F S P I S G D M S P A L I R G S S N N P L S T L	L K S S Q S C Q Y		
UniRef90_F0J8W4	K N L D Q C C D H D H Y A F Y G H R W E K V C V K C E Q K T R P H	L A T S E V Y Y		
UniRef90_UP10001CBBED9	R N L D N C C E E H K E M Q K S T I S G E M D E D R E N R R N S L K S I S Q V R Y			
UniRef90_K1QKD6	K D I S T C C L N R H G F D T S M G Y I Y E V P S S L P I M N S S H E C E Q			
UniRef90_O17428	K N Y S N C C E Q R S G Y H F G I P G T N W E P S S G A S G N F L S R S S V S R V			
UniRef90_H0XCJ2	R N L L Q C C D R F K P I T T G V S P L A L I K G L T R P L S T L	I S S S Q C Q Y		
UniRef90_L7LW13	K N L E K C C D R P P Y A I L G R D V A K K C V K C E A E E T H P S S T S E V Y Y			
UniRef90_Q17BE3	K D I D S C C K R R Y K T N S L I Q T V P Y F R P N Y V A W P I N S T S Y C N I			
UniRef90_I0B4C6	R D L T N C C S K T A F N K L W T I K S G N C D D C D Q K K E N M E A T A T F K Y			
UniRef90_G8I10	R N Y D K C C E Q R M D Y Y F G S G N A N W E S D R N N D K I M K K S S T S N M			
UniRef90_A0A023GPB4	K N L E K C C D N A R V A V F G R M K G E R C D M C E D H E A H P Q A T T D V Y Y			
UniRef90_A0A023GP41	K D L E K C C D R R P F H F T G T H K G R P C V G C K E K W L P L T M T S E V K Y			
UniRef90_UP100034FD7D8	R N L Q C C S G F Q P A S T G S P L A L I K G M T R S L S T L	I S S S Q S C Q Y		
UniRef90_UP10003F18BF2	R N L E K C C D H F K P M S T G V S P L A L I K G M T R S L S T L	I S S S Q S C Q Y		
UniRef90_I7CE51	R N Y N K C C V N R P T F T N T M F N E Y I C A E C E K R T E P L R S T S E V Y Y			
UniRef90_H0V4A3	R N L Q E C C T G F Q P S S T G S P L A L I K G M T R S L S T L	V S S S Q S C Q Y		
UniRef90_E9HQQ7	K D L L A C C T G R N G Q H S A L S T P Y S S A S S I Q S P L L R S S E N E C C Q Q			
UniRef90_A0A023F7A1	K N Y S N C C E Q R M A Y H F G T G L T D W E P A S N Q M G S F L S R S S V T R V			
UniRef90_B2BD67	K N Y S N C C D Q R V S Y H F G L N R N K W E P S G N G N S K Y L S R S S V S R V			
UniRef90_M3YQN7	R N L E K C C D H F K A V I S T G V S P A L I K G M L H P F S T T L I S S N Q S C Q Y			
UniRef90_UP100022CA20D	UniRef90_A0A034WXN6	K N F D C C E Q R M N Y Q F G T G N K Q W E A G S S N K N G K F F S Q S A T S R I		
UniRef90_B0RZD4	K N L E K C C D Q H H Y S F Y G H E K G K R C L K C K E V A T N P H A T S E V Y Y			
UniRef90_Q7SYX5	R N Y N K C C V N R P A F T N T M F N E Y M C A E C E K R T E P L R S T S E V Y Y			
UniRef90_UP1000258E3F1	R N L K T C C D K F P I R D Y V S P L A I L K G L N T P L S T L I S S S Q V C Q Y			
UniRef90_UP1000224705B	K N F D C C A Q R M S Y H F G T Q S S N W E P G A N K G K F L S K Y S T S R I			
UniRef90_UP100032AFC8A	V P D R T C T G H S H R T W S N V P R M P C P S S D Q N P I L K S S E R F C Q Y			
UniRef90_H9GAF3	R N L Q C C E G F Q P V S S G V S P L A L I K G M A R P L S T L I S S S Q C Q Y			
UniRef90_UP100046C1394	K D Y S N C C D N K V Q R T I G M S Y F H L Y P K C P L K N T M V Q G T A A F V M			
UniRef90_UP1000252A983	K D L H G C C K K R A K L H S M V Q S V P Y N P E L Q Q E E K N L L K S S S R C Q M			
UniRef90_A0A023GJX5	K D F D N C C D Q R I N Y H F G M I N S R W E T G T N K N G K F F S K S S T S R I			
UniRef90_UP10004418881	K D F S Q C C R D R E S A V T A L Q A S A V E A N L R S A P V V K Q			
UniRef90_A0A034QZ48	K D L T D C C D N I A L K V V G A Y V T P C Q L C R Q K N R N F Q A T A T S N Y			
UniRef90_B7Q406	R D F K N C C H V R P A W F K T M F S A R T C A E C E A K T L L T E G A Q V R Y			
UniRef90_H3EH13	K D L N S C C Q D K V V K S S G M A Y K F T C P F C D K R D K T T K G T A S Y T Y			
UniRef90_UP10003344E27	R N L Q C C D G F Q P I S T A V S P A L I R G L V N P L A T L V K S S S Q C K Y			
UniRef90_V9HZ08	R N L K K C C D H F Q P M S M G V S P A L I R G L S R P L L N W I S S N Q S C Q Y			
UniRef90_W5JC53	T N Y S K C C E E R S A Y H F G T L T N W Q P A S N Q M G Q F L S R S N I N R V			
UniRef90_Q0ZUC7	K D L G S C C K R R Y K T T S F L Q T V P Y D R P N Y V A W P I L N S T S Y C E I I			
UniRef90_F7BS91	M N F S N C C D V P S A Y H F G T G L T N W E P A S N Q M G Q F L A R S S V S R I			
UniRef90_UP100042A9E54	K D L N S C C Q D K V V K S S G M A Y K F T C P F C D K R D K T T K G T A S Y T Y			
UniRef90_F1KQ3S	R N L Q C C D G F Q P I S T A V S P A L I R G L V N P L A T L V K S S S Q C K Y			
UniRef90_L5KRE2	I N F E K C C K R V D I R Y N L R F G E D C P T C N R E E P N T I S S T V F E F			
UniRef90_H2ZVL8	R N L K D C C D H F R P A S T G V S P L A L I R G L S R P L S T L I S S S Q C K Y			
UniRef90_U3JG73	K D L N S C C T H R S S I L V T S L Q S V A L P H I A S Q Q Q F L S S S Q Q			
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UniRef90_E0VZ54	R D L E R C E G F R P L S T G V S P L A F I Q G S H P L S T L T D S H Q A C Q Y			
UniRef90_K7HLX3	R N F S N C C E H R P G Y H F G T G L T D W E P T V N Q L G D F L A R S S V S R V			
UniRef90_F1NV02	I N F D K C C T R R P Y I H H V Q T P V C K D C K Q T E Q D K M S S T T V F N Y			
UniRef90_U18XJ12	R N L K A C C D N F P I R D Y V S P V A I V K G L N I P L S T L I S S T Q S C H Y			
UniRef90_U1MGQ2	V N F D K C C I T R P E M A Y G L R F G S E C Q Q C K E G Q F V K P Q T V Y T Y			
UniRef90_E9FFX3	I N Y D K C C T K R V D V R Y N H R F A E E C G G K C K E K E A L I P S T V I N Y			
UniRef90_UP100034F318A	H D F S S C C T N R Y G L S L S S V P Y R F F G A F E S I P L T N S T S W C E Q			
UniRef90_UP1000305BF2	K D L S Q C C S S N R V L G S T S I R S V A L P D K T Q L L D S H L	N S G Q S C T T Q		
UniRef90_V9K7B7	K D F M G C C S E R H Y E S S I Q S D I Y D P R A P T E S L I G S S Q S C T Y Y			
UniRef90_UP10003D0CF09	R D L T E C C D M Y Y P K S V K G S P F A I L G G E E F A T S S Q L G S S Q S C T Y Y			
UniRef90_UP10003314983	R N L L E K C C E H F Q P A S T G V S P A L I Q G Q L S R P L S T L I N S N Q S C Q Y			
UniRef90_X2ATR8	R N L K T C C D N F P V R E H V S P I A L I K G L D S P L S T L I K S T Q Y C Q Y			
UniRef90_W4VR36	R N L E K C C I E R N G Q S A F Q G A P F V P S D I Q T L P I M K S T H E C E Q			
UniRef90_C3XU16	K D L I G C C I E R N G Q S A F Q G A P F V P S D I Q T L P I M K S T H E C E Q			
UniRef90_E1CAX9	K N I S T C K N R Y K T H S F L Q T T P Y D F G Q N N S A W S I L L K T D S S			
UniRef90_W6N9I2	R D F S Q C C S Q R A V I S N C T L Y G N R S P N T E D L R N S T S Q T N V T L S			
UniRef90_Q5KQQ7	N N Y K N C C R N T P H I F F G V R H G S Q C V K C D G D K T H L T S N A A Y H Y			
UniRef90_V5H340	I N F K K C C N V R P C V E Y G I R P R E F K K T D N E K L F S T V F K Y			
UniRef90_D5L0B5	K D L N C C H R N T P H I F F G V K H G Y Q C N D C P G D K S F V T S N A A Y H Y			
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UniRef90_Q9U5D7	I N F Q K C C N V R P E V Q Y G I R M R G A T R T D E E K F S T V M K F			
UniRef90_UP10004418BCA	R N F S N S D H H I V Y R Y G M S H E G W S E G S N T M G N L L A R T S E S I I			
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UniRef90_H3FYH5	K D L D S C C V K R S E A N I G M Q F A P H F S N A S K P L P I L K S E A K C E Q			
UniRef90_G6CQJ6	I N F E K C C S R R V G Q R Y N F R F G D E C P S C N G E E R N I E S S T V F N Y			
UniRef90_UP10003C46C13	R D L S L C C T D R Y K Y M S I L Q T V R Y D F Q S K Q T W P V L K S E S K C R I			
UniRef90_T1HD19	K D L N H C C S H R Y S G F I S P K S I A L P D V Q S Q Q Q I L S S R L E C A Q			
UniRef90_B3S1T7	T D Y N H C C K Q R V A Y Q F G L A D W D P A S N Q L G S F L A R S S V S R I			
UniRef90_U4UQE3	R N M N N C C S C C P S R Q R S I W N L R N Q S C T E T Q S K F L R S R N V V T R Y			
UniRef90_E0VZ52	K K L D S C C T D R I K I N S V I Q M T P S T F Q S I K H E N I L Q S S S R C V L			
UniRef90_H3B136	A N E S N C C E Q R P G Y H F G T G L T D W K P T I N T K L G N F L S R S S V T R V			
UniRef90_E3LC2E	R D L S A C C D Q F P I R E Y V S P L A L I K G L N T P L S T L I R S K Q S C D Y			
UniRef90_UP100042C1887	V N F D K C C I T R P E T A Y G L R S G S E C K E C E K E G Q F V R P Q T V Y T Y			
UniRef90_R7U4T5	K D L N L C C S H R Y S G F I S L Q S I A L P D M L S M Q Q I L S S K L E C A Q			
UniRef90_B7Q381	K D L N S C C K D R E S S I T A L Q A T A E E G N L R S M P V V K G E Q			
UniRef90_Q7PQM2	R N F D H C C E Q R M G F H F G F S S D F K P N T N Q M G N I M T K S E V T Q M			
UniRef90_B5ABL8	K N L E K C C D H H H I A K I G V K V A K N C L K C H A E E P H P S S T S E V Y Y			
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210            220            230            240

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UniRef90_Q90WM8	T I K Q T D N G P I L   L E A N G T E   L I Q F S P P N I M N G A A Q M E S K Q L   L		
UniRef90_B7QGE2	R L D G T P Q H Y V I   K H A S A A S D T L   F Q P F G A G K   A V R V V V N R T L		
UniRef90_F6Z5E1	T L E S K R K H   V S E A I C K E Q H L   F L P F S Y K N K   G M M V Q V T Q T L		
UniRef90_T2B338	I I S G S [D R Y T I   Q S S V T T D K I   V I A P H   Y N N Q K G I V A S R M N L		
UniRef90_Q9U8M0	V I S G T L N K F T V   Q S S V T T N Q V V   M S P E M Y N S Q K G L I V S R V N V		
UniRef90_F6UCK8	T V D N R R K H   V S E V V C T E K H L   F L P F S H K N Q G M M T Q V R Q T L		
UniRef90_F0J8W4	E L K G T P E H Y V I   D H A W G E S S Q L   F K P H N E G K E   F H V L L N R T L		
UniRef90_UP10001CBBED9	N V T Y N K D N F L I   E S A I A E G Q H I   Y S P Y R D D I S N   V V T F V N Q T L		
UniRef90_K1QKD6	K I S T D G H M E S V L C H   E V H L   F K P F S Q G D S   G A M T E V T Q K L		
UniRef90_O17428	I V T G N L K S F T I   Q S S V S T T N K V I   S P N P H E N R K G M V S S R V N V		
UniRef90_H0XCJ2	T L D S R R K H   V S E A V C K E Q H L   F L P F S Y K N K   Y G M I H I T Q T L		
UniRef90_L7LW13	E L R G T A Q H Y V I   T H A W A E S G Y L   F K P H G E G K   K I H I K L N R T L		
UniRef90_Q17BE3	S V D N F V Y K E A I C Y E R H Q   L V P F F S N G Q A G A V T E S F S K L		
UniRef90_I0B4C6	N I T G T R Q R Y I   I N D V R S D A R Y V   F F S M G I K G G S V F V Q V N Q T L		
UniRef90_G8I10	V I S G N L K N F V I   Q T A V T T E   L I M K P R L V D D Q E S I V I S K M N V		
UniRef90_A0A023GPB4	E L E G T A Q Q Y V I   H H A S E E S S H L   F K P H G N   A K K I I I I I N R T L		
UniRef90_A0A023GP41	R L K G S R E N Y V I   S C A C G T S D Q V   L A P Y G N G K   T F H V Q I I N N T A		
UniRef90_UP100034FD7D8	T L L D P K R K H   V S E A T C K E Q H L   F L P F S Y K N K   G M M T Q V T Q T L		
UniRef90_UP10003F18BF2	T L L D S R R K H   V S E A I C K E Q H L   F L P F S Y K N K   G M M T H V T Q S L		
UniRef90_I7CE51	Y L R G V D R S F I   I E N A I A E S Q H I   Y T Q Y S E E G G S V A T Y I I N Q T L		
UniRef90_H0V4A3	T L L D P K R K H   V S E E A V C R E Q H L   F L P F S Y K N K   G M M T Q V T Q T L		
UniRef90_E9HQ77	T I R N Q L L   E K S S V C T E T H L   F R P F S N G Q S G A S T R I S Q T L		
UniRef90_A0A023F7A1	T V T G T L T S Y T I   Q S S V T T N K I   V L A P H   Y N N Q K G I V A S R M N L		
UniRef90_B2BD67	I V S G N L K R Y T I   Q S S V T T N K V V L   N P D Q Q E N Q Q G I V A S R M N L		
UniRef90_M3YQN7	T L L D P K K K H   V S E A I C R E Q H L   F L P F L S S K S Q G M N A Q V T Q T L		
UniRef90_UP100022CA20D	I I S G S L K C Y T I   Q S A V T T N I   M H V S P R F Y D Q G H G L V A S R M N L		
UniRef90_A0A034WXN6	E L L K G T A Q Q Y V I   D H A W A E S E Q L   F K P H G E G K Q   F H V I I N R T L		
UniRef90_B0RZD4	Y L R G M D R N F I   I E S A A E S Q H I   Y T Q Y S E E G G S V A T F I I N Q T L		
UniRef90_Q7SYX5	S M D S K R R H   I T E A S C V E T H I   F L P F S H K N Q G M N S K V T Q T L		
UniRef90_UP1000258E3F1	V I S G N L K R F T I   Q T S V T T S Q M F V T P R M Y E N H K G I V A S R M N L		
UniRef90_UP1000224705B	E I S L I D G A M K L   L S V N A T G E I Y V Q P F Q S L G E A H F L I I N N Q K I		
UniRef90_UP100032AFC8A	T L L D A R G K H   V S E A T C K E Q H L   F L P F S Y K N K   G M M V H I T Q S L		
UniRef90_H9GAF3	K L L K C D G P V S M I   I S E V E S E E V Y Q I   A P F S E A D G S G V F I T R Q K L		
UniRef90_UP100046C1394	S I S D H N I Y N E I T C E E S H V L   Q P F S N Q D A G A T T I V E Q R L		
UniRef90_UP1000252A983	V I S G S L K R F T I   Q S S V T T S K M L V S P R Y Y D Q Q N G L V V S R M N L		
UniRef90_A0A023GJX5	E C K Q V F Q N G L V D   Q S V E C K E S H V V R P F S K H E N G A R T D V T Q R L		
UniRef90_UP10004418881	R I K G L K G G N L I   I L Q A N V Q E I Q Q F I P F D E Q N G S V I M E A R Q K M		
UniRef90_B7Q406	T L L K G N R K N F V I   I S A V G E S Y V S F P Y S A E R G H F S T I I N Q T M		
UniRef90_H3EH13	R L D G T P E H Y V I   D H A C A T S E T V L R P Y G   K G K T F V V Q L I N R T L		
UniRef90_UP10003344E27	E L L N G N A K E N L   I R E V Q L R S Q Y V F T P L D G E K Q L   M G T Y V T N K L		
UniRef90_V9HZ08	A L L D P K R K H   V T E A T C R E Q H H L L P F H Q N K H G M M T R V T Q T L		
UniRef90_W5JC53	V I S G N V K Y Y T I   Q S S V S T T N K I   V I S P Q M Y E S Q K G M V I S V M N M		
UniRef90_Q0ZUC7	T V D N Y I L Y K N V L C Y E R H Q L V P F S N G L J A G A V T E T S T K L		
UniRef90_F7BS91	I I A G N L K R Y S I   Q S S V T T N K I   I A S P F L Y E K Q N G M V V I S R M N L		
UniRef90_UP100042A9E54	K M K Y A E A G A L I   T Q V K A Q Q V Y Q T A P F N E L N G V A V A E S K Q V F		
UniRef90_F1KQS3	T L L D P K R K D   V S Q A I C N E Q H L   F L P F S Y K N K   G I M T H V T Q T L		
UniRef90_L5KRE2	K I T G N R N K F L I   K I K N A E V K S Q Y L L A P L G E E D V A M R S V V V G R L		
UniRef90_H2ZVL8	T L L D P K K K H   V S E A I C K E Q H R F L P F S H K N G   M T A Q I T Q T L		
UniRef90_U3JG73	E C M Q S Y K D G V L   I E E A T C C S E S H H L L Q P F S R R G N G A K T E S H S M L		
UniRef90_UP1000443D786	N I I D A K K R H   I R D A V C C S E K H L   F L P P S S Y K N Y G I M T E V I N Q T L		
UniRef90_E0VZ54	T L L D P K R K H   V S E A R C C Q E Q H L   F L P F S Y R N K G V K T Q V T Q T L		
UniRef90_K7HLX3	I I S G S L K S Y T I   Q S S V T T N K V I   L S P E V Y Y N N Q K G E I V S R V N L		
UniRef90_F1NV02	N I I T G T P S N F L I   I N S V E L R S Q H L   F A P I T E K H Q L I S A Y T L N T L		
UniRef90_A8XJ12	S I I D A K K K H   I R D V V C C S E K H L   F L P P S S Y K N Q G G M M T E V I N Q T L		
UniRef90_U1MGQ2	T F K N Q A L E Q S E V H S V Y T L N V N G Q E V K S E T R S K I		
UniRef90_E9FFX3	R L I G N T N A F L I   K K D V D L K S Q Y I L A P L G L K G A L   R S T V A C Q L		
UniRef90_UP100034F318A	T I I A S H R   I T Q Y R C E E K H I   V R P F S N E G S G A S T K V K Q S M		
UniRef90_UP10003F05BF2	E C L Q A F R D G T L   I T E A T C C D D E S H L   V T V F S R D G N G A K T Q T R T L		
UniRef90_V9K7B7	E I I Q D D   L V K R V V C K E R H I   S R P F A N H T S G A I T K V R T S L		
UniRef90_UP10003D0CF09	S L L D G S K K H   V T E A V C C S E K H L   F L P P F Q N N N Y G L M S T V V K Q T L		
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UniRef90_X2ATR8	T L L D P K R K H   V S E A T C C Q E Q H Q L R P F S D K T K Y G M M Q V T Q T L		
UniRef90_W4VR36	K I I N G D   G L L T Q S I C T E S H V F R P F S R Q E N G A K T E I T T K L		
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UniRef90_E1CAX9	N L L S Q Q E Q N F I V A E I Q T R E Q H V I S L Y N Q Q T G A V T T N I Q Q T L		
UniRef90_W6N9I2	D I I R G T R H N F I I E R A I A D G E I M Y S P Y T P D G N V I R I L L N R T L		
UniRef90_Q5KQQ7	K V A G D K N E F L I H E V E L E S Q Y K L M P L S K K H E L I S S F V Y N K M		
UniRef90_V5H340	N I I K G T R H N F I I E K K M M A D G E I M F T P Y T P N G N I I R I L L N R T M		
UniRef90_D5L0B5	V L K P V I A G S I L I M E A S G T E L I Q F S P F S E M N G A A Q M E T K Q S L		
UniRef90_A0A016RY77	E V I S G N R D E Y L V R E V E L E S Q Y K M I P L S K K H E I T T F I I N N K M		
UniRef90_Q9U5D7	V L V S G K Y N R Y T I   Q S S V T T N E V I L A P H   Y N N Q K G I V A S R M N L		
UniRef90_UP10004418BCA	K V K R D S A G D Q I   T Q V M S E Q L Y Q F P L I N G D E G A G Y M K A Q Q F M		
UniRef90_T1J9X6	V I I D T E K H I L Q S A K C T E I H V L K P F S N G A A G G V V T T T K Q E V		
UniRef90_H3FHY5	R I I A G T P S R F V I K E V E L R S V Y S Y A P L S E Q E T F F T T F V I S G N M		
UniRef90_G6CQJ6	A V V D H H I Y K S V N C V R E R H L E F P F S G K N S G A M T T V I Q D L		
UniRef90_UP10003C46C13	S F K D G I L T E A K C C T E S S L V T P F S R K G T G A K T Q T Q S S L		
UniRef90_T1HD19	V L V T G S L K S Y T I   Q S S V T T N E V I L A P H   Y N N Q K G I V A S R M N L		
UniRef90_B3S1T7	Q L L S Q N K P Q Y D I E A V E T E A S H V F S P F R G D K G S A M T V I R Q K L		
UniRef90_U4UQE3	S I I D Q N I Y K E I L S C E E N F I L E P F S N K A A G A S T I V I Q K L		
UniRef90_E0VZ52	V L V S G N L K T Y T V H S S V T T N K V I V S P E V Y Y N N Q K G E V I S R V N V		
UniRef90_H3B136	V L V D P R R K H V S E A T C I E K H I F L P F S H K N Q G I L A Q V T Q T L		
UniRef90_E3LCE2	T F K N E Q L L E Q S E A H S V Y T L N V N G Q E V I S E T R S K M		
UniRef90_UP100042C1887	S F K D G I L T E A K C C T E S S L V T P F S R K G T G A K T Q T Q S S L		
UniRef90_R7U4T5	V L V Y T E N E R Y A I K E V V L K S T Y A F T P T Q K T S D S L V T Y T R Q S M		
UniRef90_B7Q381	E C K Q T Y K N S I L E S V E C K E K H V V R P F S R Q E N G A V T N V F Q S M		
UniRef90_Q7PQM2	Y L L T G N W Y N Y T I Q S V V S T V N K V V V I S P S L V N S Q K A M V Y A Q V N M		
UniRef90_B5ABL8	U L L K G T P Q H Y E I A H A W A E S G Y L F K P H G E G K K I H V K L N R T L		
UniRef90_G0M7M4	T F K N E R L E Q S E V V Q S L Y T L N V N G Q E V I S E V R T K I		
UniRef90_UP1000359911F	D I I Q K A G V L K S S T C T E T H V Y R P F A N G N N G G M T E V K Q T L		

250                    260

UniRef90_Q17083	T   D S   V N A A S G S P R P S E P E S T G N L   V Y S Y
UniRef90_Q90WQ0	T F V D I E K   P V E P I K A A Y L   P R G S V Q Y E F
UniRef90_Q90WM8	T F L E I E K T T F K P L Q A E Y L H R G Y L Q Y Q F
UniRef90_B7QGE2	F   D E E R A A N A D M Q P D D V G V S D E L T H S F
UniRef90_F6Z5E1	K F E D T S K   N S R F F E E G V E E V S L A F E
UniRef90_T2B338	T   E A V N S A S G S P S V S N P R T V K N L V Y E Y
UniRef90_Q9U8M0	T I K D I E E A R P   P L P G N L Q D T G D L L Y S Y
UniRef90_F6UCK8	K L E D T P K   N N R V F D E A S L P K K R L A F E
UniRef90_F0J8W4	D L E E E H D A A S T D T A E G A E K E H H L A Q E F P
UniRef90_UP10001CBBED9	K L R E S R D I S E R I E E P R D T K K N S L R Y E F P
UniRef90_K1QKD6	A F V S K S T G T T T R M A E V S R R D T L L F
UniRef90_O17428	T L V K I P S T G D W S T P A N P E S T G N L V Y N Y
UniRef90_H0XCJ2	K L E D T P K   N S
UniRef90_L7LWI3	D L L E E H D A T T D T S G D D H E K E H S L A Q E F
UniRef90_Q17BE3	T L L A D E E S Y S P E E Q T P D I Q K R S S L I Y
UniRef90_I0B4C6	K L I N V T T D P Y F E K C P T Q E T R G G L T Y K F P
UniRef90_G8I10	T L L V S V N K V V S S P   P P N P E S T G N L V Y T Y
UniRef90_A0A023GPB4	D L D E Q H D A A F H T P P E D A V K E H S L Q Q E F
UniRef90_A0A023GP41	T L L I D E H E N A A E I S L P E V E S H E R L S H V F P
UniRef90_UP100034FD7D8	T L L E D T P K   N S R F F G G G T Q K V G L A F E
UniRef90_UP10003F18BF2	K L L E D T P K   N S R F F N N E G A E K V G L A F E
UniRef90_I7CE51	M L T N T K A I I S E P M P A I Q N P K S Y A Y
UniRef90_H0V4A3	K L L E D T P K   N S
UniRef90_E9HQQ7	T Y S S E R R S D Q V P S D Y K K K K S L L F D G P
UniRef90_A0A023F7A1	T L L E A V T S S S G S P P V P N P R T V K N L V Y E Y
UniRef90_B2BD67	T L L H E V K D I S Q V P P P S N P Q S T G N L V Y N Y
UniRef90_M3YQN7	K L L E D T P K   N S R F F E E G T E V V G L A F E
UniRef90_UP100022CA20D	T L L A N V K K T N P L P K P S T P E S T G N L V Y T Y
UniRef90_A0A034WXN6	D L L E A H D A
UniRef90_B0RZD4	M L T K T N E S I T P P Q N P R S H P Y S L R
UniRef90_Q7SYX5	K L L E E V T K T N S D F D P D P S V A R G
UniRef90_UP1000258E3F1	T L L G N V N K   S N P L P P R N P E S T G N L V Y V Y
UniRef90_UP1000224705B	R L L I S E K D Q K V T I P S A N F Q T K H T Q H E L P
UniRef90_UP100032AFC8A	K L L E D I P K   N S R I F I E G T Q R V G L A F E
UniRef90_H9GAF3	N L L V E G Q K H T P Q Q S Q Q K G S I R Y E F
UniRef90_UP100046C1394	I L L G E N A V T L G E Q S E E L S R R T S L L F
UniRef90_UP1000252A983	T L L A K M E K T N P L   P T V N N P E S T G N L V Y I Y
UniRef90_A0A023GJX5	N L L R S Q R R A Q G R R A A Y N A G T E T D L L F
UniRef90_UP10004418881	E F F L E A H N R L P Q I P S D L K K Y G S L S Y N F
UniRef90_A9ZQ48	Y L L T E A M D L A D S T E I A
UniRef90_B7Q406	D L L E E V H D A N T D T Q P E D L E R V D H L S Q T L P
UniRef90_H3EH13	T L L L S V E S G V E T I R G P K S E K K E E L V Y
UniRef90_UP10003344E27	K L L E E T S K   N S
UniRef90_V9HZ08	T L L A S F H Q A N G S P R S N N Y R K V N N L V Y D Y
UniRef90_W5JC53	S F F Q E E S Y T Q E E P K D E L Q Q R S S L L Y
UniRef90_Q0ZUC7	T L L V D V K S A S S S P Q S P P S P Q V K N L V Y E Y
UniRef90_F7BS91	T L L L E I K S K Q T P P E H L R N H G N I R Y H F P
UniRef90_UP100042A9E54	S L L E D T P K   N S
UniRef90_F1KQS3	E L L L K V T K D R I R W E E P R S E N K Q S L I Y
UniRef90_L5KRE2	K L L E E T R N
UniRef90_H2ZVL8	R L L K T E N E I S S N R A N L Q Q V S N L L Y E
UniRef90_U3JG73	K L L E D T P K   T N K N F D G D A L E E K G L A L E
UniRef90_UP1000443D786	T L L E D T
UniRef90_E0VZ54	T L L T S V H S T G N V P T T Q N P Q S L K K L V Y D Y
UniRef90_K7HLX3	E L L I Y A G E Q K T E I K Q V R S E Q A S D L I Y
UniRef90_F1NV02	K L L E D Q R M M N R N P D G D E L E E K G
UniRef90_A8XJ12	V F F E E N K I N K E I K K V T G P K E S L V Y
UniRef90_U1MGQ2	Q L L L N V I E D V R N V N V E P R S E R K D T L L V Y
UniRef90_E9FFX3	E F F I E I E N S E S V A N E I K P R K R S S L L F Q
UniRef90_UP100034F318A	K L L I R I E A D M S T N K D I P G K H Y T S L L Y E
UniRef90_UP10003F05BF2	E F F V D V S S G S S S Y K L E R Q V R E K K T L V F E
UniRef90_V9KB7	K L L E
UniRef90_UP10003D0CF09	K L L E D T K S N S R T F D E A A L E K R G
UniRef90_UP10003314983	K L L E D T P K   N S
UniRef90_X2ATR8	T F F R T Q V A G V T R Q R A A V R Q R S S L L F
UniRef90_W4VR36	V L L V D T E T A D E T G K M T Y I E H R A K L T F
UniRef90_C3XU16	R L L R R V S E G D S D V R P A D L Q Q R T S L V F Q
UniRef90_E1CAX9	E L L V E T R D G V T D P I N E D L V T Y T K L A F L F
UniRef90_W6N9I2	T L L V Y A G K P E T Q I P S V R R D R K E T L I Y N F
UniRef90_Q5KQQ7	
UniRef90_V5H340	T L L M E I R D V R T D I A P G D I I T Y N R L S Y M F
UniRef90_D5LOB5	V F F V E T R A A A V V P V E A E Y L H R G S I K Y E F
UniRef90_A0A016RY77	I L L V Y A G K I E N H I P N R H H H K E S L I Y
UniRef90_Q9U5D7	T L L E D V S P L K G D S P S G N P R T V N T L V Y E Y
UniRef90_UP10004418BCA	T L L I D
UniRef90_T1J9X6	N F I I E K K S A T R N K I M P Q T V R S S M L F
UniRef90_H3FHY5	R L L I E V N K E Q K R I A A P K S E K K E T L L Y
UniRef90_G6CQJ6	V L L I D E Y N R T G S E T M A M I T K R S N I L H H
UniRef90_UP10003C46C13	K L L L Q V I E A G V L S T V N S S D L Y V S N L L Y E
UniRef90_T1HD19	T L L E A V T S S T G T P P V P N P R T V N N L I Y E Y
UniRef90_B3S1T7	K R T S Q K Q S I P L P G N L V S R G P I G F Q F
UniRef90_U4UQE3	V L L K I E Q G E K H S G E E N E I S T R T N L K F
UniRef90_E0VZ52	T L L V S V T G T S T G S G P A N P Q T L K K L V Y D F
UniRef90_H3B136	K I E S T P I I N S R Y F G E D Q S V R K D L A L E
UniRef90_E3LCE2	V F F V E E K K W N K E I K K A T G P K E D L V Y
UniRef90_UP100042C1887	K L L L Q V E A E M L K T V D S S D L Y V S N M L Y E
UniRef90_R7U4T5	V F F S E L N Q R T S L N T A K L T K E K S L I Y V V P
UniRef90_B7Q381	T L L R T Q R
UniRef90_Q7PQM2	T L L N E I T P Y D K Y P P A D D R Q V F V D L V Y S Y
UniRef90_B5ABL8	D L L E E H D A T T T P P E D V E K E H S L A Q E F P
UniRef90_G0M7M4	V L V E E K K I N R E I E Q S E T T T F D N V V F R A P
UniRef90_UP1000359911F	T F F K T S Q S G E I Q S L P I

Y E V G N V Y V Y H Y N G K L Q V Q N P E Q P L Q S S G F V F R S K V I A Q  
 F E P K T E Y H Y K L D G L V L S G L P T A S S E L S Q S R I S A R A R V Q T  
 K F N Y G Q L Y K Y Q Y T V A V R T E F A G S G D N S S D L L L K S D L E I F F  
 F R Y L R K Y L Y Q E V E T S N G V P G T A N S R S G L K M S C K V E L E V  
 F E P K T D Y L Y K F D G L V L S G L P I S G S E Q S Q T R I S A R A R I Q S  
 W E P N Q V Y W Y N V T T K T M T A L P D V T E Q W T G V L T R A K M V I N P  
 K F H P G K T Y Q Y K L E G H S V T T L P G A K D E T S K V G I A A N V E V S A  
 F K H L R K Y V Y N Y E A E T T S G V T G T A D T R S G S K I T C K V E L E V  
 F E P K T D Y H Y K F D G L V L S G L P S A S S E L S Q S R I S A R A R I Q A  
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 W E P N R E Y V V N V T S R T M T A L A D L A D Q W T G V I T R A R L I V R P  
 F E S G K E Y V Y F Y D A T S N T G V L V P S N A A S S W S L R G K L V I Q A  
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 Y A A G Q T Y T Y N F Q A R S K T W M M G T S D D E A V L E V K G Q A L V T F  
 W E K G T E Y R Y L V H S R T L T D L G E L T K E Y S G I L I K G D L I V Q A  
 Q Y D I G K T Y Q Y K Y D V T S E T S L T G S G E G A A R I E V A A T A S I H V  
 Y N V G H L Y K Y D H S M Y V K T A L V G S G D N T S E L H I S S V V E I D F  
 Y K N F R R F V Y N Y E A E T L N G V N G A T D N K S G P K I F C K V A V E E V  
 Y K N F R R F V Y N Y E A E T L N G V N G A T D N K S G P K I F C K V A V E E V  
 K Y S P G Q S Y V Y K Y S T K T E T A L E Q S S D E K S T M Y L D A E I S L V H V  
 W K N G K V Y E Y K V R S R T M T S F N K Q S K H F S G I V V M E G S L T V Q P  
 K Y E E G A S Y K Y K L D G A T V T T V A G A Q G D V S K V T I T A D V Q V S V  
 F Q P G I L Y Q Y R Y S L E V L D Y V S R L S Q G S R M R A E A L V Q V H L  
 K F S Y G K L Y Q Y E T V S L R T E F A G S G D N S S D L V L K T N L D I F F  
 Y Q E G H T Y V Y D L E G T S V T S V P E A Q N E A S L K L K G T V E L T V  
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 S A  
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 F S P K S E Y V Y K F D G L L S G L P T T F S D A S Q T L I S C R T R L Q A  
 W T N G K Q Y T Y A I N S R T I A T F N Q Q S K Y L S G I V L E A Y L T V Q P  
 W E T G N E Y H Y L I K S R T L T G L D G L A E Q Y S G I F M R G K F T I Q V  
 F E V G K E Y V Y K Y K G T L H V A N P E Q P L Q S A G F A Y R S K I I V Q P  
 F E K D T D Y H Y K L D G L L S G L P T E S S E S S Q T R I S A R A R I Q S  
 Y Q E G H T Y V Y N L E G T S V T S V T S A Q G D A T L K L A A T V E L S V  
 Y Q K G F R Y T Y K Y T A A T N T F L Q G Q A Y E S S G L L A V E S L V K V D V  
 K Y E E N V S Y W Y R Y S V D V S T N L G N V S S N E S T L R L D A D L V I R F  
 Y G H F K R F V Y Y S K Y A E T F N S V N G A S D N K S G P R V S C T V E V D V  
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 W E P N R Q Y V Y N V T S K T M T A L P D L E D Q W T G T F T R A Y L V F R P  
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 W E P Q N E Y Q Y S V F V R T L T G V D T L K Q Y T G I Q L K G V L V I Q V  
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 F Q P G T L Y Q Y H Y T L D V L E H T S M L S L Q G A C L Q A E A L V Q L H Q  
 H L P V G T R Y T Y R F S S N T S T S L R G A P L E T S G L G L Q G L A I L E V  
 Y Q P E H T Y T Y T Y S G K S H I H L K G V E G G V T G T A W S S Q V E L S W  
 W K D N T E Y V Y S V N G R T L T G L E E T A D Q Y S G V F L E A K L H L S I I  
 L K P R N E Y V F R F E G D V H S G I P L P T D T T V S R I H A M V H V Q I  
 F R S G K E Y I Y S Y N A T S S T G V L V P S N A A S S W N L N G K L V I Q A  
 W E T G N E Y Q Y S V F G R T L A G V D K L K R Q Y T G I Q Y N G I L T I Q V  
 F E P K T D Y H Y K F D G L V L S G L P I S S T E Q S Q T R I S A R A R I Q S  
 W M A G Y T Y E Y D Y A G W T S T G I M G I S T K V S G G S I K G R L T I E P  
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 UniRef90\_D4N2J9  
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 UniRef90\_Q4W8F1  
 UniRef90\_Q6QQB2  
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 UniRef90\_A0A26WD79  
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50 60 70 80

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UniRef90_E9FGV7	E K R P L S F S W Q D G T V D S L C P D Q E D P V W V W V N I K R S V L S M L Q H			
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130 140 150 160

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UniRef90_UPI0004572B34	P M E S N E D T Q T V N M D S V Y G N C T S Q L T V K N R K G D T A T D I T M G
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UniRef90_T1HDK5	S V L K E S G Y A F Q H E T D V F G N C P T N F E F V K H G K S V I V R K T
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UniRef90_G8JY38	N P S E E N T S F F T N E K T L E G D C C Q V A Y T V I R E Q K K T I I T K S
UniRef90_K7FHQ5	P T E T E D N V K T I S M D T I Y G K C C D S E V E I K D R K G N I A S V I S I N
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UniRef90_A0A26WPZ4	D L L K K E V A F H A T E I N H Y G Q C D I D Y V V S P G E E N Q H V I R K S
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UniRef90_H2VBD2	P V M E E D K N N M P T V H G V C P T D Y T V N A R E D I A T D V S V R
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UniRef90_UPI00042BE811	Q P H S G T A T E E D V V S G S C Q V T Y V V S K D S V V K T
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UniRef90_Q6UBM1	D T Q G H H T Y Y K V M E P V V T G K C K T L Y D V S R E E G Q Y F F Q V V K T
UniRef90_B5AJU1	N I K K T Q N V Y E L Q E A G A Q G V C K T H Y V I S E D A K A E R I H L T K S
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UniRef90_R9WX72	Q E K H G I E Y I T Q Q E S T A V G D C Q V A Y V I N R D S K E Q V V K L T K V
UniRef90_M4AP66	P L L E E E K N S N M V E P T I H G K C M T S Y K S N A R E D I D T D I S L H
UniRef90_J9K1J6	R M E R F D I H H I V A E R D I N G F C P T A Y T F L K S N G T Q I V V V D K V
UniRef90_A0A023GB51	D L H H G D N G Y H V K E D G L H G P C D T L Y I V H E E E H G H I E V T K V
UniRef90_W2T2G3	N L L K N K N F F V A V I E R T L E G E C C E V E Y T T T Q T E T K V Q W T K S
UniRef90_X1ZYD0	N L K V N N L H Y T V T E D G V L G R C D S Q Y T I N S M H P F V K V N K V
UniRef90_Q9U5F1	D T E G E N I Q F K T M E A S V T G K C E T L Y D F S P L L K Q E L M E V V K T
UniRef90_G1KI31	Q I H S G T V S E E D I S G S C Q V T Y T I S E K T V L K T
UniRef90_Q9U943	P N T K S S T A S E V D V F G I C P T N V R H S Q R G D V T V I S K T
UniRef90_M9TKT0	D V T G Q N A I F K A M E D S V T G K R E T H Y D V D E Q Q H Q R I I Q V V K S
UniRef90_W8EEA4	S F T S K G T Q E V Q M E T D I S G V C T T S Y Q S V I S E G D V V S I E K T
UniRef90_UPI0004422E04	P M E T E V K V Q T V S M D T V Y G K C D S S I E I K D R K S N T A T D I E I T
UniRef90_UPI0003F07785	P P D T E E A N Q V L F L D T V Y G K C A S E V T F K T S T E N V V T E I S I N
UniRef90_E7FBD3	P V L E E E H N E R M S T I H G I C K T E V T V N S R K D I D I D V S V V
UniRef90_H2WDV0	Q R E G E N Q F F T V N E K T M E G D C Q V A Y T T M I Q E Q E K V L Y T K S
UniRef90_Q2VQM5	D T Q G E N A I F K A M E D S V G G K C E V L Y E I T P L P K G H H Y E V K K L
UniRef90_S9XXF1	H P G A Q D P Q T V E E E D L G R C P T T Y Q Q R G T R R L R K T
UniRef90_T1IH98	M K E E I Q G T V Y Q Q M E P T P S G V C N S I Y S F Q K S G E S R E M I D K T
UniRef90_UPI0003871230	Q P H A G T A V I E E D I S G S C Q V T Y T V S N H S I T K T
UniRef90_UPI0004542C97	S C P G V H E S K T F E E V D I L G R C P T T Y Q S Q G D I L L K T
UniRef90_Q5CAR4	N V K K T Q N V Y E M Q E S G A H G V C P T K N Y V I R E D A R A E R I H L T M T
UniRef90_A3RKP7	S L P S N S T I Q N I T E T D V V G K C P T H Y E V E R E G H K V I V K K E
UniRef90_Q05808	D L Q G E N A V F K T M E E T V T G K T E T T I Y D I H R L P E G D L I E V I K S S
UniRef90_U6PMPS8	N L H K D N D Y Y T T T E R T I E G D C E V A Y T I L K K D F V T E I T K S S
UniRef90_E2AYB4	D L S N L E K E F H S S E I N H Y G K C C N I D Y V V S L E W N N Q R L V R K S
UniRef90_Q2VQM6	D T E S F A A T F K A M E D S V S G K C E V L Y E I T P H S D G N H Y E V V K K L
UniRef90_A8XPS2	N W T E D N T A F F T N E K T L E G E N C C Q V A Y S V V R E Q K K T I V T K S
UniRef90_Q1JUB0	Q L D A E N T V Y H A M E G S V T G E C Q C T W Y H I S R L P V E V V Y E I V K N
UniRef90_B3MUX3	T M M R F D V D S N R T E T D V S G Q C Q V Q Y S L E T S D S V Y V K I R K T
UniRef90_H3D442	P L L E E D R N K H M P T I H G K C N T H Y T I N S R G S I A T D I S L H
UniRef90_F7DZN2	Q L N P G S V S E V D V S G N C K V N Y E T R Q N Q V T K V
UniRef90_UPI000259067A	T M Q R F D M D H R T D E L D V N G I C E T T Y R L R E A K R T S L V L R K S
UniRef90_UPI0003F0C5DF	D I D E D L S T F T T Y T E T D V V G E C E T L Y D V T E G S T D D N F M N V T K V
UniRef90_B4KH15	T M M R F D V D Y N T T E T D V S G E C C D V Q Y S L E S T D D V F V T I R K T
UniRef90_U4UYR7	D L E K M E A V F Q T M E D T V T G E T E T T N Y D I H Q L P E G K I Y E V L K S
UniRef90_UPI00044365D9	S P G T T I P E T I D E I D V L G K C P T T Y T R K G S R I L L K T
UniRef90_B4JCE5	T M M R F D V D F N T T E T D V S G E C C D V Q Y T L A T D S A Y V T I R K N
UniRef90_D4N2J9	K V D T S S S W M W M T K E E G I D G I C E V T Y Q V N E L P K Q K Y Y S I V K T
UniRef90_UPI000258F1B2	A V M E E S G S T T H H E T D V M G A C L T E F N F R K D G D T V T V R K D
UniRef90_UPI0003DEAFBF	D L S N L Q K E F H S T E R N H Y G Q C N I E V Y V N P E Q K N E W L I R K F
UniRef90_A0A26WAJ5	D V Q G E N A I F T A M E D S V G G N C E V L Y D I Q F R G D G N Y F D I I K T
UniRef90_UPI000395AD75	T A P E F S A G A V V E E D V V L G I C P T K Y Q Q K G P I L V K T
UniRef90_W2THD1	N L H K D N D Y F T A T E R T I E G E C E V A Y T F I K E H V T E V T K S
UniRef90_Q9BPS0	N L K E L R K I F K V H E S S V T G R C E V L Y D I T E E N V N V L Q V M K T
UniRef90_Q4W8F1	S I P S L S T V S T V T E T D V V G G K C P T T Y Q I V E T E G E K V I V V K E
UniRef90_Q6QQB2	S L S P L S S G L T L T E T D V V G G K C P T K Y E V E P E G E K L I V T K E
UniRef90_UPI000443FB9B	P V V E D G W T G L V S T V H G R C L T T V T V H S R Q D V A T D A S A S

UniRef90\_B7QIL0  
 UniRef90\_H2WP64  
 UniRef90\_Q7KTG2  
 UniRef90\_UPI0004572B34  
 UniRef90\_G0MWJ3  
 UniRef90\_B0W351  
 UniRef90\_T1HDK5  
 UniRef90\_G1KKJ8  
 UniRef90\_G8JY38  
 UniRef90\_K7FHQ5  
 UniRef90\_B0WU63  
 UniRef90\_A0A26WPZ4  
 UniRef90\_O02024  
 UniRef90\_UPI0003444F9B  
 UniRef90\_E9FGV7  
 UniRef90\_A0A26WD79  
 UniRef90\_UPI000359E3D0  
 UniRef90\_A0NE24  
 UniRef90\_H3D443  
 UniRef90\_H2VBD2  
 UniRef90\_UPI0002657C3A  
 UniRef90\_Q698K6  
 UniRef90\_B5UHA6  
 UniRef90\_UPI00042BE811  
 UniRef90\_B4G7Z2  
 UniRef90\_E2BSS6  
 UniRef90\_Q49MG0  
 UniRef90\_Q6UBM1  
 UniRef90\_B5AJU1  
 UniRef90\_G3ULA3  
 UniRef90\_G3P557  
 UniRef90\_Q9N4J2  
 UniRef90\_K7J0R2  
 UniRef90\_F4WXZ8  
 UniRef90\_A0A023GDM3  
 UniRef90\_G0M8G7  
 UniRef90\_H2LNN9  
 UniRef90\_UPI00022CA474  
 UniRef90\_UPI000457324E  
 UniRef90\_UPI00022CAB59  
 UniRef90\_UPI00024A474  
 UniRef90\_UPI0003340CBC  
 UniRef90\_UPI00042C457D  
 UniRef90\_Q49MF9  
 UniRef90\_Q94637  
 UniRef90\_R9WX72  
 UniRef90\_M4AP66  
 UniRef90\_J9K1J6  
 UniRef90\_A0A023GB51  
 UniRef90\_W2T2G3  
 UniRef90\_X1ZYD0  
 UniRef90\_Q9U5F1  
 UniRef90\_G1KI31  
 UniRef90\_Q9U943  
 UniRef90\_M9TKT0  
 UniRef90\_W8EEA4  
 UniRef90\_UPI0004422E04  
 UniRef90\_UPI0003F07785  
 UniRef90\_E7FBD3  
 UniRef90\_H2WDV0  
 UniRef90\_Q2VQM5  
 UniRef90\_S9XXF1  
 UniRef90\_T1IH98  
 UniRef90\_UPI0003871230  
 UniRef90\_UPI0004542C97  
 UniRef90\_Q5CAR4  
 UniRef90\_A3RKP7  
 UniRef90\_Q05808  
 UniRef90\_U6PMPS8  
 UniRef90\_E2AYB4  
 UniRef90\_Q2VQM6  
 UniRef90\_A8XPS2  
 UniRef90\_Q1JUB0  
 UniRef90\_B3MUX3  
 UniRef90\_H3D442  
 UniRef90\_F7DZN2  
 UniRef90\_UPI000259067A  
 UniRef90\_UPI0003F0C5DF  
 UniRef90\_B4KH15  
 UniRef90\_U4UYR7  
 UniRef90\_UPI00044365D9  
 UniRef90\_B4JCE5  
 UniRef90\_D4N2J9  
 UniRef90\_UPI000258F1B2  
 UniRef90\_UPI0003DEAFBF  
 UniRef90\_A0A26WAJ5  
 UniRef90\_UPI000395AD75  
 UniRef90\_W2THD1  
 UniRef90\_Q9BPS0  
 UniRef90\_Q4W8F1  
 UniRef90\_Q6QQB2  
 UniRef90\_UPI000443FB9B

170            180            190            200

Detailed description: This block contains a large list of UniRef90 protein identifiers followed by a sequence alignment. The alignment is centered around positions 170, 180, 190, and 200. A vertical yellow bar runs through the alignment, highlighting a specific sequence motif that is highly conserved across all the listed proteins. The motif appears to be a cluster of hydrophobic and polar amino acids.

210                  220                  230                  240

UniRef90_B7QIL0	S   L   D   G   T   P   E   H   Y   V   I   N   H   A   S   A   T   S   D   T   E   F   K   N   F   G   A   G   N   T   I   R   V   Q   I   N   R   T   L
UniRef90_H2WP64	V   L   E   K   N   T   L   K   E   A   E   V   R   S   V   Y   S   V   N   V   N   G   Q   E   V   M   K   T   E   T   R   S   K   L
UniRef90_Q7KTG2	T   I   D   N   N   V   Y   K   E   I   K   C   L   E   T   H   L   L   V   P   F   S   N   A   S   S   G   A   L   T   T   S   T   S   R   L
UniRef90_UPI0004572B34	S   L   D   V   K   R   K   H   V   T   E   A   T   C   N   E   K   H   F   L   P   Y   S   H   K   N   E   G   I   M   T   H   V   K   Q   T   L
UniRef90_G0MWJ3	V   L   E   K   N   I   L   K   K   S   D   V   R   S   L   Y   S   I   N   V   N   G   Q   E   L   M   K   T   E   T   R   S   K   L
UniRef90_B0W351	F   V   V   G   K   I   H   N   H   T   I   Q   S   A   S   T   T   S   K   I   L   V   S   P   S   L   V   H   T   E   K   A   M   V   L   A   Q   V   N   V
UniRef90_T1HDK5	K   L   E   G   G   L   L   Q   H   A   S   S   E   E   V   Y   N   Y   N   P   L   S   A   A   E   A   Y   K   V   Q   V   N   T   K   L
UniRef90_G1KKJ8	T   I   D   P   K   K   R   H   V   S   G   V   V   C   S   E   K   H   F   L   P   P   S   S   Y   K   N   Q   Y   G   M   M   T   V   K   Q   V   L
UniRef90_G8JY38	V   L   E   N   E   E   L   K   E   S   E   V   R   S   L   Y   T   V   N   V   N   G   Q   E   V   M   T   E   T   R   S   K   L
UniRef90_K7FHQ5	T   I   D   A   K   K   R   H   V   A   E   V   D   C   R   E   K   H   F   L   P   A   S   H   K   N   Q   Y   G   M   M   Q   V   T   Q   T   L
UniRef90_B0WU63	F   L   T   G   T   W   Y   N   Y   T   I   Q   S   S   S   T   V   N   K   V   I   V   A   P   S   M   V   D   D   Q   K   A   M   V   Y   S   Q   V   N   M
UniRef90_A0A26WPZ4	K   L   R   S   D   G   S   V   H   N   I   S   V   N   A   S   G   S   I   Y   V   T   P   F   Q   N   M   G   E   A   H   Y   H   F   V   Q   Q   T   I
UniRef90_O02024	I   L   S   G   K   L   N   R   Y   T   I   Q   S   A   V   T   T   E   K   V   L   V   A   P   H   V   Y   N   N   Q   K   G   I   V   V   S   S   M   N   I
UniRef90_UPI0003444F9B	I   C   L   Q   S   F   Q   A   G   V   L   R   E   A   S   C   T   E   L   D   T   V   G   P   L   S   E   K   A   S   A   V   Q   M   R   T   L   N   S   L
UniRef90_E9FVG7	Q   I   K   D   N   V   I   E   K   T   E   C   R   E   S   H   F   R   P   L   S   S   E   E   G   G   A   R   T   E   V   T   S   S   V
UniRef90_A0A26WD79	V   I   S   G   N   L   K   R   F   T   I   Q   S   S   S   V   T   V   D   K   M   V   A   S   H   K   T   W   T   G   T   V   H   S   R   V   N   V
UniRef90_UPI000359E3D0	I   L   V   A   A   D   G   H   L   L   I   S   S   C   T   E   A   L   T   F   R   P   F   S   K   K   E   A   G   A   G   T   K   T   Q   E   L
UniRef90_A0NE24	S   L   D   N   S   I   Y   K   S   V   A   C   Y   E   R   H   Q   L   V   P   F   S   N   G   L   J   A   G   A   V   T   E   T   Y   N   R   L
UniRef90_H3D443	K   F   D   N   Q   K   K   H   M   T   K   G   T   C   C   T   E   K   H   F   I   F   L   P   L   S   S   Q   N   E   G   I   S   T   V   M   K   Q   T   M
UniRef90_H2VBD2	R   F   D   N   N   K   K   H   M   T   R   G   L   C   C   T   E   K   H   F   I   F   L   P   L   S   Q   K   E   Y   G   L   S   T   V   V   K   Q   T   V
UniRef90_UPI0002657C3A	V   I   K   D   D   S   I   Y   Q   S   V   E   C   H   E   R   H   V   V   K   P   F   S   N   G   L   J   A   G   A   V   T   E   T   Y   N   R   L
UniRef90_Q698K6	V   I   S   G   E   L   K   K   F   H   I   Q   S   S   V   T   I   N   K   V   M   H   G   A   D   S   N   G   N   Q   L   G   M   V   A   S   K   M   N   L
UniRef90_B5UHA6	K   V   E   Q   Q   I   K   D   G   V   L   E   S   A   V   S   D   E   K   Y   Y   Y   Q   P   H   L   S   D   S   G   A   T   V   A   V   K   T   K   L
UniRef90_UPI00042BE811	S   V   Q   G   S   L   I   Q   S   V   L   S   E   E   S   H   E   V   S   P   T   L   K   S   S   I   G   T   K   I   M   S   R   Q   Q   L
UniRef90_B4G722	T   V   D   Q   R   M   Y   R   E   L   S   C   V   E   T   H   L   L   V   P   F   S   N   S   A   S   G   A   L   T   T   S   R   S   R   L
UniRef90_E2BSS6	K   I   E   Q   R   F   K   R   G   I   L   N   K   A   S   S   V   E   T   Y   Q   L   K   P   F   S   N   G   N   I   G   A   K   T   V   I   Q   T   L
UniRef90_Q49MG0	Y   L   T   G   N   W   Y   N   F   T   I   Q   S   S   S   M   V   N   K   I   A   I   A   P   S   L   V   N   K   E   P   A   L   V   Y   A   Q   V   N   L
UniRef90_Q6UBM1	Y   L   T   G   T   W   Y   N   Y   T   I   Q   S   S   S   T   V   N   K   I   A   V   A   P   S   L   I   N   K   Q   K   A   I   V   Y   A   A   V   N   C
UniRef90_B5AJU1	
UniRef90_G3ULA3	T   L   D   P   K   R   K   H   V   S   E   A   T   C   K   E   Q   H   F   L   P   F   S   Y   K   N   K   Y   G   M   M   H   V   T   Q   S   L
UniRef90_G3P557	K   F   D   N   Q   K   K   H   M   T   S   G   I   C   A   E   K   H   I   F   L   P   L   S   H   Q   N   E   G   I   S   A   L   V   K   Q   T   V
UniRef90_Q9N4J2	T   F   K   N   E   K   L   Q   E   S   E   V   H   I   Q   S   S   V   T   I   N   K   V   M   H   G   A   D   S   N   G   N   Q   L   G   M   V   A   S   K   M   N   L
UniRef90_K7J0R2	I   I   S   G   N   L   K   R   F   T   I   Q   S   S   V   T   T   N   K   V   V   H   H   A   N   Q   E   E   N   Q   Q   G   M   V   A   S   R   M   N   L
UniRef90_F4WXZ8	E   L   K   G   V   M   E   N   D   Q   L   K   E   S   E   V   R   S   V   Y   T   V   N   V   N   G   Q   E   V   L   K   T   E   S   R   S   K   L
UniRef90_A0A023GDM3	U   I   F   D   N   Q   M   K   H   M   T   S   G   S   C   C   T   E   K   H   F   V   F   L   P   F   S   Y   K   N   K   Y   G   M   M   R   V   T   Q   S   L
UniRef90_G0M8G7	V   M   E   N   D   Q   L   K   E   S   E   V   R   S   V   Y   T   V   N   V   N   G   Q   E   V   L   K   T   E   S   R   S   K   L
UniRef90_H2LNN9	T   L   K   P   V   L   S   G   V   M   I   L   E   A   D   V   N   E   L   I   Q   F   S   P   F   S   E   S   Y   G   A   A   Q   T   E   T   K   Q   T   F
UniRef90_UPI00022CA474	I   E   Q   R   F   K   R   G   I   L   T   K   A   V   S   K   E   V   Y   N   L   V   P   F   S   H   G   S   A   G   A   K   T   I   V   E   T   T   L
UniRef90_UPI000457324E	V   Q   S   F   K   D   G   G   V   L   A   V   A   T   C   C   N   E   S   N   T   F   R   P   F   S   T   E   G   N   G   A   K   T   E   T   T   L   A   L   L
UniRef90_UPI00022CA59	D   C   E   L   T   I   D   H   N   V   Y   E   K   V   C   N   E   F   H   V   L   V   P   L   S   S   G   S   T   G   A   R   T   E   S   T   T   T   L
UniRef90_UPI00024A474	K   F   D   N   Q   M   K   H   M   T   S   G   S   C   C   T   E   K   H   F   V   F   L   P   F   S   H   K   N   E   G   I   S   A   V   V   R   Q   T   V
UniRef90_UPI0003340CBC	T   C   V   Q   S   F   Q   A   G   V   L   G   E   A   S   C   M   E   L   D   T   V   G   P   L   S   G   E   A   S   A   V   Q   M   R   T   L   S   S   L
UniRef90_UPI00042C457D	Y   L   T   G   T   W   Y   N   Y   T   I   Q   S   S   S   T   V   N   K   I   A   V   A   P   S   L   V   N   K   N   K   A   F   V   Y   A   S   V   N   C
UniRef90_Q49MF9	N   I   T   G   T   P   E   E   F   L   I   N   S   V   E   L   Q   S   K   H   M   F   A   P   V   T   E   Q   K   Q   L   I   T   A   R   I   L   T   N
UniRef90_Q94637	T   L   T   G   E   D   A   G   Y   V   I   N   R   T   E   A   V   E   Q   H   V   I   T   P   L   S   Q   S   A   G   H   V   T   V   T   R   Q   I   L
UniRef90_R9WX72	K   F   D   N   E   K   K   H   M   T   S   G   S   C   T   E   E   H   L   V   I   P   F   S   H   K   G   K   Y   G   F   T   N   V   K   Q   E   L
UniRef90_M4AP66	V   C   F   Y   H   I   D   H   H   I   V   K   I   N   C   Q   E   K   H   S   F   Q   P   F   S   N   E   T   N   S   A   R   T   K   I   F   Q   T   M
UniRef90_J9K1J6	K   L   K   G   V   M   E   N   D   Q   L   K   E   S   E   V   R   S   V   Y   T   V   N   V   N   G   Q   E   V   L   K   T   E   S   R   S   K   L
UniRef90_A0A023GB51	
UniRef90_W2T2G3	D   V   T   G   N   R   D   E   Y   L   V   R   E   V   E   L   K   S   Q   Y   K   F   V   P   L   S   K   K   H   E   L   I   T   S   I   V   N   N   K   M
UniRef90_X1ZYD0	V   L   Y   T   D   K   Q   R   F   A   I   K   Q   V   E   A   K   S   T   Y   I   V   S   P   T   Q   K   T   T   D   S   L   V   T   Y   T   N   Q   R   M
UniRef90_Q9U5F1	I   M   T   G   K   R   Q   R   Y   N   L   E   S   V   E   T   V   N   E   V   I   V   S   P   N   L   Y   D   R   Q   K   G   H   V   V   S   S   V   N   M
UniRef90_G1KI31	T   V   E   G   N   L   I   K   S   A   L   S   K   E   S   H   T   I   S   L   T   L   K   S   S   V   G   V   N   I   T   S   R   Q   H   L
UniRef90_Q9U943	H   V   E   Q   Q   I   K   G   G   L   I   V   S   A   T   S   R   E   S   Y   L   F   R   P   F   S   N   Q   G   N   G   A   K   T   I   V   E   T   K   L
UniRef90_M9TKT0	I   L   S   G   Q   P   N   S   F   T   I   Q   S   S   V   T   Q   N   E   I   S   I   S   P   F   G   Y   N   K   Q   K   G   V   V   G   T   L   M   N   A
UniRef90_W8EE44	V   I   E   E   G   V   L   K   L   A   K   C   E   E   S   H   K   F   R   P   F   S   S   E   E   G   G   A   V   T   T   A   T   T   T   M
UniRef90_UPI000442E04	T   V   D   T   K   K   K   H   V   S   S   A   I   C   C   T   E   K   H   F   V   F   L   P   P   S   S   Y   K   N   Q   Y   G   M   M   K   V   V   Q   T   L
UniRef90_UPI0003F07785	T   L   D   S   K   R   K   H   V   S   S   E   A   V   C   K   E   K   H   F   I   P   F   S   H   K   D   E   G   M   M   T   Q   V   T   Q   S   L
UniRef90_E7FBD3	Q   F   D   N   R   R   K   H   M   T   E   A   Q   C   T   E   K   H   F   I   P   F   S   H   E   G   Q   G   I   S   S   E   V   K   Q   Q   S   L
UniRef90_H2WDV0	T   F   K   N   E   K   L   E   Q   A   E   V   H   S   V   Y   T   L   N   V   N   G   Q   E   V   V   K   S   E   T   R   A   K   M
UniRef90_Q2VQM5	V   I   T   G   T   L   K   S   F   T   I   Q   S   T   E   M   K   N   E   I   V   T   Q   P   E   S   S   D   S   P   I   G   T   V   Y   S   I   T   K   L
UniRef90_S9XXF1	T   C   L   Q   S   F   Q   A   D   V   L   R   E   A   S   C   V   E   L   D   T   M   G   R   L   S   Q   E   A   S   A   V   Q   M   R   T   L   S   S   L
UniRef90_T1IH98	N   V   T   L   T   N   S   K   Y   I   I   Q   E   A   L   C   D   G   I   L   K   V   N   P   F   G   Q   E   A   D   A   L   T   I   I   H   N   R   T   L
UniRef90_UPI0003871230	M   V   K   D   N   L   L   Q   S   V   L   A   E   E   S   H   V   L   S   P   A   L   R   S   T   T   S   I   K   S   S   R   Q   Q   L
UniRef90_UPI0004542C97	S   C   Q   Q   S   F   Q   A   G   V   L   H   K   A   A   C   K   E   L   H   T   A   G   P   L   F   Q   K   A   R   A   A   H   T   L   V   L   S   S   I
UniRef90_Q5CAR4	
UniRef90_A3RKP7	R   C   K   Q   E   I   T   N   G   I   Y   S   S   I   I   C   H   D   K   K   V   V   R   P   S   Y   G   A   Y   K   Y   V   E   A   K   Q   E   S   T   L
UniRef90_Q05808	I   I   L   T   G   K   P   S   R   Y   I   I   Q   S   T   Y   T   V   N   K   I   M   V   N   P   I   L   K   N   K   E   M   G   S   I   T   S   M   V   N   V
UniRef90_U6PM88	L   L   E   K   E   G   L   K   K   V   E   V   R   S   M   Y   T   I   T   V   E   N   Q   P   V   M   K   T   E   I   R   T   R   T   L
UniRef90_E2AYB4	K   L   K   T   D   G   H   I   H   D   I   L   S   V   N   T   S   G   S   I   Y   V   Q   P   F   Q   S   M   G   E   A   H   Y   H   V   Q   Q   A   I   L
UniRef90_Q2VQM6	V   I   S   G   D   L   K   R   F   T   I   Q   S   T   E   M   K   N   E   I   A   V   Q   P   E   T   S   D   S   P   I   G   N   V   Y   T   I   T   R   L
UniRef90_A8XPS2	V   L   E   N   N   E   L   K   Q   S   E   V   R   S   L   Y   T   I   N   V   N   G   Q   E   V   M   T   E   T   R   S   K   L
UniRef90_Q1JUB0	G   C   T   S   N   E   G   H   F   I   V   Q   R   I   K   S   I   D   K   L   V   V   K   P   F   S   Y   E   T   A   T   E   G   L   T   V   Q   H   L
UniRef90_B3MUX3	T   I   D   N   N   V   Y   R   E   I   S   C   L   E   T   H   L   L   V   P   F   S   H   K   D   N   V   N   S   A   S   G   A   L   T   T   S   R   S   R   L
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UniRef90_UPI0003F0C5DF	T   I   D   P   D   N   V   Y   R   E   I   S   C   M   E   S   H   L   L   V   P   F   S   N   G   S   S   G   A   L   T   T   T   K   S   S   L
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UniRef90_U4UYR7	E   C   Y   Q   S   F   R   E   G   L   L   E   E   T   K   C   T   E   S   D   V   V   G   P   F   S   E   K   G   N   G   V   E   T   R   T   Q   S   T   L
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UniRef90_UPI000395AD75	E   L   E   R   D   G   I   K   N   V   E   V   R   S   V   Y   T   I   T   V   E   N   Q   P   V   M   K   T   E   V   R   S   R   M
UniRef90_W2THD1	I   V   S   R   N   K   E   R   F   T   I   R   S   S   V   T   F   H   E   V   V   L   K   P   E   L   F   N   S   Q   Q   G   I   S   V   S   R   M   N   V
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UniRef90_Q6QQB2	Q   F   D   N   R   G   T   H   I   T   I   A   K   C   T   E   K   H   R   Y   L   P   F   S   S   G   E   N   G   I   S   S   T   V   T   Q   D   L
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UniRef90_Q7KTG2	K L D G V E S Y S A E Q N P E L V E R R A T L L V F	
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UniRef90_U4UYR7	T L V E V K S Q T K Q P Q E S S P L D I G N L V Y T Y	
UniRef90_UPI00044365D9	S L L H M K P Q A P S N K A D Y G Q F Y S N L L Y E W	
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 F Q P G I | L Y Q Y H Y S | L Q V L D Y | V S R | L S | L R G S W M R A E A | L V Q | V H L  
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 K F N Y G V L | Y K Y D Y T V | S V R T E F A G S G | D N S S D L | F L K A N | L D I | F F  
 Y K N F R K Y T Y D Y T A E S T N G | V S G T A N I | K N G P | R | T C K | V E L | E V  
 K Y Q E D V N Y | V Y T Y S V D V S T N | L G Y Q P | L S | L N S Q | H | I | D A T L | S V Q F  
 G D S Y | C A V T | L A S Q V | E L L | E V  
 E Y T Y H Y E G Q | V L T G | I G G E S N D Y S G L | K | S A D | I K L | M M  
 W K P E R E F | V F R F E S K V | D D S S I | P E R S N Q K A G V | K | L T S | L I | R V Q A  
 F T P K N E Y V Y N F N G | L L | L S G I | P T L | N S D A S Q T R | I | S C R A C L | Q A  
 H F P | E K T | L I Y K Y H | A D V K A G I | I E P A Q Y Q A S F A L | S G Q | L H | I D S  
 K Y H E D I | H Y | Y T Y S V D V S T N | L G S H | S R N D S A | L H | V D S T | L S V H F  
 E Y T Y H Y E G Q | V L T G | I G G E S N D Y S G L | K | S A D | I K L | M M  
 Y Q K G V | R Y T Y R Y S T T | L T S T L | H G S T | G R N G | L | A | D | C | L | V | D I | D V  
 Y K N F G R F | V Y N Y E A E T L | L N S V | N G A S D D K S G | P | K | V | S | C | T | V | E I | D V  
 F Q A G Q T Y N Y G | V E G S | V T | L | F | L | S G A D N Q E T | G | V | K | L | L | G | Q | V | S | V | T A  
 W Q W A G K E | H | F | H Y T G R | L | L S G I | P | G | L | R | P | H | F | S | G | I | G | E | T | E | V | H | L | Q V  
 F K N L | K K Y | V Y | Y E A E S Q N G | V | G | T | A N | L | R | N | G | P | R | I | T | C | M | V | E | L | E V  
 Y T | L | N | N | R | Y | T Y | D Y | N | V | E | I | S | S | L | F | R | G | T | S | E | N | R | S | T | L | F | K | S | Q | V | Q | L | S | F  
 R | L | Y | R | F | A | Y | T | A | E | V | Y | V | D | R | A | K | A | S | L | Q | K | S | G | Y | R | F | S | A | G | V | D | V | N | L  
 Y | K | Y | E | Y | N | A | Q | V | T | T | E | F | A | G | T | G | D | T | S | D | L | S | V | K | A | E | V | E | L | L | F  
 K | L | Y | R | Y | A | Y | T | T | E | V | L | L | D | R | A | K | G | K | L | Q | E | T | G | F | K | I | S | S | N | V | D | V | H | L  
 W R | P | G | K | Q | Y | T | Y | Q | V | R | G | R | T | L | T | G | I | H | Q | V | R | N | Q | F | S | G | V | L | L | R | A | L | L | Q | I | T | V  
 F | I | P | G | K | T | Y | S | Y | T | Y | T | G | E | S | K | V | Q | L | K | G | V | E | G | G | L | V | E | T | R | W | E | E | T | V | L | M | T | W  
 Y | Q | P | G | K | T | Y | T | Y | E | Y | S | G | K | S | R | I | Q | L | K | G | V | E | G | G | L | T | E | T | D | W | S | A | Q | V | E | L | S | W  
 N | L | Y | K | Y | E | Y | N | V | D | L | N | T | E | F | S | G | T | G | N | N | A | S | S | L | F | L | K | A | T | V | I | I | Y | F  
 F | E | E | G | Q | K | Y | F | Y | Q | Y | E | A | D | T | M | S | G | V | V | G | T | S | E | R | R | S | G | M | R | I | C | E | V | E | V | E  
 F | Q | P | R | S | L | Y | Q | Y | R | Y | T | L | D | V | L | H | T | S | T | P | S | P | W | G | A | R | L | Q | A | E | T | L | I | H | L | H | R  
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 W | Q | H | N | H | E | V | Y | V | Q | I | R | G | R | S | L | T | G | L | D | Q | I | S | S | N | H | A | G | M | L | F | K | A | K | L | W | V | R | P  
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 R | L | Y | K | L | T | Y | S | T | E | V | L | L | D | R | G | K | G | K | L | Q | D | V | G | Y | R | L | S | S | D | V | D | V | I | L  
 L | P | V | G | T | R | Y | I | Y | H | F | S | T | N | T | S | L | Q | G | A | Q | V | E | G | S | G | L | G | L | Q | G | L | V | T | L | D | V  
 F | I | L | Q | G | K | V | Y | N | V | G | V | D | G | V | V | S | I | Y | L | S | G | A | D | Q | K | E | T | S | V | K | I | S | G | Q | V | S | V | S | P  
 V | D | K | V | Y | K | Y | E | Y | T | I | D | L | K | T | E | F | S | G | T | G | N | N | A | S | S | L | F | L | K | A | T | V | E | I | N | F  
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 K | L | Y | K | F | T | Y | S | T | E | V | L | N | R | V | K | G | L | P | E | D | S | A | G | Y | R | I | S | S | G | V | D | V | N | L  
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 G | K | L | Y | K | F | S | Y | M | T | E | V | H | L | D | R | A | K | G | S | A | Q | G | S | G | Y | R | I | S | S | S | V | D | L | N | L  
 F | Q | Q | G | W | Q | H | T | F | H | Y | D | S | H | L | L | T | G | L | P | T | A | D | D | Q | Y | T | G | L | K | I | S | L | E | T | R | L | Q | F  
 Y | R | H | F | R | F | V | Y | Y | D | Y | S | G | F | I | S | T | G | M | M | G | I | S | P | M | I | S | G | G | S | L | S | G | R | L | V | V | E | P  
 F | K | H | L | R | K | Y | V | Y | S | Y | E | A | E | T | S | S | G | V | T | G | T | A | D | S | R | S | V | T | K | I | S | C | K | V | E | L | E | V  
 F | R | A | F | K | S | Y | Y | F | S | Y | D | V | E | I | L | D | S | R | I | S | G | P | S | D | Q | S | S | T | V | R | I | G | A | V | A | V | I | E | G  
 Y | A | P | E | K | T | Y | V | Y | S | Y | T | G | K | S | R | T | H | L | R | D | V | E | G | A | T | A | E | M | E | W | N | S | Q | V | E | L | S | W  
 R | L | Y | K | L | T | Y | S | T | E | V | F | L | N | R | G | K | E | K | L | Q | D | S | G | Y | R | I | S | S | N | V | E | V | V | L  
 W | E | P | G | T | Q | Y | E | Y | K | Y | V | G | R | S | A | A | G | M | Y | T | L | K | Q | Q | N | A | V | I | E | L | Q | S | R | V | I | V | Q | S  
 W | K | V | G | R | V | Y | E | Y | D | Y | S | G | F | I | S | T | G | M | M | G | I | S | P | M | I | S | G | G | S | L | S | G | R | L | V | V | E | P  
 W | E | M | M | H | E | Y | V | Y | N | I | T | S | K | T | M | T | A | L | P | D | L | D | D | Q | W | T | G | T | V | T | R | A | Y | I | V | Q | P  
 W | I | P | N | H | E | L | T | F | R | W | T | T | S | Q | I | T | G | L | E | E | L | R | A | Q | Y | G | G | M | E | L | S | S | I | R | V | Q | V  
 F | K | S | F | Q | K | Y | E | Y | T | Y | E | T | S | L | N | A | L | N | G | A | I | N | G | P | K | A | R | C | K | V | E | I | E | V  
 F | P | K | G | S | R | L | S | Y | R | Y | S | T | T | I | R | T | A | L | Q | G | P | G | A | E | N | S | S | I | T | L | D | C | L | V | T | V | D | V  
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 M | S | G | A | S | E | D | T | A | K | L | T | I | Q | T | S | A | D | V | E | V  
 W | A | A | G | S | E | Y | V | Y | R | M | H | A | I | S | V | S | D | I | P | E | L | G | P | Q | A | A | G | V | K | F | D | S | Q | L | T | V | Q | C  
 W | Q | V | G | K | A | Y | R | Y | N | V | K | S | H | T | L | A | R | L | E | E | G | P | N | S | G | T | A | F | T | A | N | F | I | I | R | V  
 Y | A | P | E | K | T | Y | V | Y | S | Y | T | G | K | S | R | I | N | L | K | D | V | E | G | A | N | T | D | I | E | W | R | S | Q | V | E | L | S | W  
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 Y | R | P | E | R | Y | V | Y | L | Y | Y | T | Q | V | V | S | G | L | P | G | L | S | A | V | Y | S | S | I | Q | V | K | A | I | V | R | A | Q | F  
 Q | K | G | V | R | Y | T | Y | R | Y | S | A | A | I | S | T | T | L | H | G | S | G | G | R | S | G | L | A | L | E | C | V | V | D | I | E | A  
 Q | L | Y | K | F | S | Y | I | S | E | V | L | L | S | T | R | G | P | K | E | N | P | A | G | Y | K | I | S | S | Q | V | D | A | N | L  
 Y | R | S | F | H | K | Y | E | Y | L | Y | E | A | S | L | N | G | A | L | N | G | P | K | A | S | C | K | V | E | I | E | V  
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 K | Y | K | E | G | T | T | Y | K | Y | N | Y | D | S | K | I | E | V | S | L | S | G | A | D | G | Q | K | S | V | T | E | V | K | A | T | V | V | L | T | Q  
 W | E | A | G | K | V | Y | R | Y | E | V | K | S | H | T | L | A | R | L | E | E | G | P | N | S | V | S | A | F | K | A | R | F | V | I | R | V | K | P  
 W | E | T | G | N | Q | Y | V | Y | N | V | G | R | S | M | V | G | I | Y | K | M | K | Q | Q | N | A | V | I | E | M | Q | S | R | V | I | V | Q | N  
 W | A | P | S | K | E | Y | V | Y | E | F | E | T | Q | M | L | T | G | L | P | E | I | R | S | Q | Y | S | G | L | K | L | S | S | K | V | R | I | Q | S  
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 F | E | V | G | K | E | Y | E | Y | A | G | G | N | M | V | H | L | A | S | Q | M | P | T | Q | N | T | G | F | A | F | R | S | N | V | R | V | Q | R  
 F | T | P | G | K | T | Y | S | Y | T | Y | T | G | K | S | Q | V | L | Q | K | G | D | V | G | V | V | D | T | R | W | E | E | Q | V | L | L | T | V  
 F | R | S | G | I | L | Y | Q | Y | R | Y | S | L | A | S | Q | L | S | L | L | R | P | T | L | Q | G | Q | S | K | F | Q | A | E | A | F | I | D | V | H | L

UniRef90\_E9ISQ2 E H D Y V T V Q L Q S L K T S M H N G N I K E K V E D D I Y D D A L E

UniRef90\_UP1000258DB2 E Q N V S T M Q L Q S L K M I V W N G E E Q I K E D Q D I P A D A D E

UniRef90\_I7DB97 T E E K V G R L Q L R K P E I A E S T F E L V S M D K L E K R E L S R E H E E L

UniRef90\_Q6KB24 UniRef90\_Q3HWF7

UniRef90\_UP100027F8E56 L G P C Q M A L R L R D F E V T S I L G S K V E L L K E S E S L S T A

UniRef90\_K7FEY7 L W R N H A G Q Q L Q I Q L A Y H D S E H E K S Q N L T G N P S T M E D N A E

UniRef90\_K7INP3 K P D C V R Q L R L K N V Q V N G A V P Q Q D

UniRef90\_U4UYX7 R P D G K L Q G K V T D S K Y A Q I Q S H L P W K E D V P N S K L S F K P L G L

UniRef90\_E2B933 E D N V V T A Q L Q S L K T S M W N G E A K N M G D N I D I I D D D A L L Q L

UniRef90\_Q9U5D8 E P D N K V T F Q F Q D A K Y A D F N E H F P E G W D L H H Y Q F S Y K S F P I

UniRef90\_Q49MF3 K P N Y V V A Y V K Q P E Y A V F N E H G Y N T E F Q S S D F K W Q P M P L

UniRef90\_UP10001CE0DAA L G P C Q M L L R L R D F R V T S I L G S E A Q L L Q D S Q S L G A T

UniRef90\_B4MVA4 P K P C E G Y L R I N D A K L D S Y N E K P K D V V D Y Y D T L S S A E N N D L

UniRef90\_W5L1B7 P Q T C S F V L R T A D C A L S E V A L T S A Q Q G Q P V P V A G S D L F Q A A M

UniRef90\_E2C0B0 T S P C E G N L R I L N A S I S H D R S T Y S A E F P D R A G S E F K A S L

UniRef90\_I3LJ81 P Q L C S F I L K T S H C S L K E V Y G F N P E K A L L K K A K N S E E F A A A A

UniRef90\_UP10002652A52 H P G N H F V M L M N S I S L E R F Q D E V D D P L R I Q K P A L F R R L V E E

UniRef90\_D4N2J8 K Q D Y S L I I K L E N P K F W T F N G I Q D Q R N D E R E Q P I P E P L K A H

UniRef90\_G0M7Q0 I D D S N I H I Q L T D V V L S A S H H V P W P Q L E S L E Q R E I S D E L K A I

UniRef90\_E2C964 T L N N A Y Y V K L Q D V K Y G M H N G M A V D H Q P V E V V H E L D E T A Q Q

UniRef90\_W4WHQ9 N S P C E G T L R I L N A S I S H N R S K Y N P E F P D R A G S E F K A N L

UniRef90\_D9IUX8

UniRef90\_Q49MF8

UniRef90\_UP100032A215E K S P D Y V V A Y V K Q P E Y T V F N E R F P Q G Y A T E F Y H D Y F K W V P M

UniRef90\_M4ATC1 V S K C H L M M Q L R N P Q K R L S P Q K E H S V Q H L K S L R E S L E R

UniRef90\_H9JUX8 P Q T C R F I V R T T D C S L S E I T D H E G N P V Y R P A A G S E D F K A A M

UniRef90\_A7TZD9 L D N C N Y Q L D V Q K L S L S G P D G K K Y E S P S G

UniRef90\_W5NKW2 K S L E D I R L N L R Q V N Y T Q V N G P W R Y V L L P Q F T Q A P I D I K K L

UniRef90\_E0V9D4 P R T C N F I M R T T D C T L S E V K L I D P Q G R L V Q S P S A A A F K S A M

UniRef90\_E1C5J0 T S P C Q G K M I V N N V A L S E D E D S T S T S S E N H A N S E N F D E A I

UniRef90\_T1PA90 L W R N L I K V M I R N V Q V E N V N V E R P T D K S I F K G K S T E K E Y L E A

UniRef90\_H2ZZL8 P K P C E G F L R I T S A Q L S D D K N G A G Q H A K T Q A L Q Q D L

UniRef90\_Q9U5D6 L W D Q L I K I M M K D V K M K N V N E H P E K K N I F D E N I L G K N N L A A

UniRef90\_R9RZN5 D T E T Q L T L Q L L D P E Y A D V N Q H M S E G W K L P E E Q V E Y K P Y P L

UniRef90\_Q9GSG2 L S P C D V A L S F K D T K V D G E A G P P G A S M L E K

UniRef90\_A0A034W413 I T P C D M V I T M K D S K T D G A T V P G A S R F L

UniRef90\_UP10001CBA42B P K P C D G I L L Q I T D V K L W D H E Y I S K D D E F S N H P K S I E L A K D L

UniRef90\_U3KDI1 P D K Y Q L S V N T P K C E L L E Q N P D S E D P Y S F R V A Q N S R E F R E M

UniRef90\_H2UES4 L W R D R G G E E L L Q L Q I H D L K Q H Q P E E Q R S Q N S A L S P E A Q A E

UniRef90\_D6W7J2 V W R D L I Q L A I S N L R I E P V S P R S E K K N I L H K S I L G K N K L A A

UniRef90\_I3KAW5 R S D G H L G A R I E P Q Y A E I H S K L S W D Q E I P D S E L S Y S P I S L

UniRef90\_J3KBH0 P Q T C S F I V R T T G C R L S E V V D T Q G N P V F A N S P S S D A F A A E M

UniRef90\_H0WRU7 L W R N L I Q I T I N N V K V E S V N Q Q R G E K S I F P P K I I G K E N L E A

UniRef90\_UP100042CDA15 L G P C Q M A L Q L Q H F Q L T S I L G S K V V V L K Q S E N L S A V

UniRef90\_G6DES6 N D N C E L S L M V K S L T I A G P D G K K Y P A P K G

UniRef90\_W8B060 P K P C D G F L R I K D V K L K E I N N S N V D D Y Y G E F T D S S G S D T E L

UniRef90\_H0YZ32 L W R N L V K I T M K D V Q V E N V N V E R P A A K N I F K G K S T E K E Y L E A

UniRef90\_K7FKI4 V W R N L I K I M I K D V K I E V N T E R P A A K N I F K G K H S E N E Y L S A

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UniRef90\_K1QMJ1 S D P N N S K R L L T D T Q S N E F K T A L

UniRef90\_W5N3E0 V W R N L I K I A M S D I R E N V T P R P E K S N V F A A S L G K E N L A D

UniRef90\_N1PB39 V D A L K V I M K L D N M R I F K V H G A L G D Q N L E P S S P E G Q V L L K H

UniRef90\_I3JFT0 P Q T C S F I L R T T E C S L S E A V G V D D E G N Y R P A A G A E A F K A A M

UniRef90\_UP1000328DE4B P Q L C S F V L R T S Q C S L R E E A S G V S P E G R L K R A R D S E E F S A T M

UniRef90\_W4YJT9 L S A C D M V I L K L S D I S I Q E K R Q D G I M V A A E T A S T F S L A L

UniRef90\_Q95P34 L S P C D M A I T M K N P S I G G G S G S A E A R F L

UniRef90\_UP10003F0F77B L W R N L I Q I T I K D V N V E N V N P K R G E K S I F P S K I I R K K N L Q A

UniRef90\_E9H8Q4 I D E N T I V V K L A D G R I K G Y V T K P G H P E E I E G E E D Q W V N P E H

UniRef90\_E9GVW1 V D H N V I N V A L S G L T G K M F N E L E E F V K A N P G S D V P L I M D K Q H

UniRef90\_T1DJQ0 K S H D Y V V V K V K Q P E Y A V F N E R L P R G H N S E V H Y K T C Q W K P C

UniRef90\_B4YAJ3 F P D Y S L R I K F E N P K F V V V N K D L P I V H G R P S Q E L P E E F R R P

UniRef90\_F1QQ87 P R I I C S Y I V H T T E C E L S D V I D V E G K P I F M S S A G A E A F K A A M

UniRef90\_UP1000454AF37 I G H C R M V L L R L Q D I H L K S S L A S K E E P L E E P L K E L E S L R V T L

UniRef90\_UP10002041CE L G L C Q M A L W N C F V Q L Q D F Q V T S I L G A K V E L L K E S E S L S A A

UniRef90\_D6W721 R S D G N L G A K I S N A Q Y A K I H E E L G W E T E I P D S Q V S Y Q Q L P L

UniRef90\_F1NPK5 L H R D D E L L Q V Q I Q D L K A Q Q K P E G P E G P P M D I A L N E E V Q S E

UniRef90\_E2A9P3 T L N N A Y Y V K L L N N V K Y G V H N G M V I N D E P V Q V V H E L E E A T L Q

UniRef90\_UP100035A2514 L S P C E F A L R L R G T R L L H D S T G T M K A A D R E S L F R R A V

UniRef90\_E9H082 R D A G S I V V K L V D V T A W N F H T D V G E S W S E L E S Q V V V E G K Y F

UniRef90\_A5A3J2 K S P G R L Q A R L E N P Q H A Q I N E Q L P Y E R D L P E N L K Y Q P I Q N

UniRef90\_S4SBK7 L S P C D M A I T M K N P S M G G G S G S S E A R F L

UniRef90\_Q7Z1M0 K S P D T I Q A V V S K T Q Y A P V H K T L E N W N D E I A D L K F D E L S M

UniRef90\_UP10004419B78 V W R N L I K I A I T D V I L E N V N E P K T K D I F Q Q K N K D E E E L L A A

UniRef90\_V4A9P1 V T A S R V K A A L E N V A L F R Y N E E L P E R I M I P I T G P I A A N T T E

UniRef90\_UP10003B59CF2 V S D C H L T M Q I R N S Q I K R M S P Q R E H S V L H L K T L R E S L

UniRef90\_H3D499 V W R D P S S K D Q L I Q A V S N T P R P E K S N I L H S L L G K T S L A A

UniRef90\_W5KYG7 P G T C H Y V V H T K E C T L S E V I D T D T D G S F R P A G S D N F K A E M

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UniRef90\_Q59IU2 N G R M Q A K L E N P Q H A Q I H E Q L P Y E R V L P D D L K Y Q P V Q N

UniRef90\_E9H8K5 I D A N T I V V K M T E N S L R R H G N Y L G N P E M I D G E E D K I P S P E I

UniRef90\_A7TZD8 F P D Y S L R V Q F V E P K F V T V N Q E I P S V P S T H S E E L P K A I Y G P

UniRef90\_E2BDX3 T E P N V L L V H L Q N V Q H T Q I L K E L Q D S W H T K V S D Q Q L H Y K N S

UniRef90\_UP10002659AA5 V D E F S Y A L K I E N F D V S F A N N R E S K M W Y H G D D E R S P D L S A V

UniRef90\_Q5XXZ5 L G P C D L A I S F K G S K V D G K T G L S G S D

UniRef90\_UP1000441A08F L W R N T Q L L Q L Q L H D L R I Y H D S E K K D Q A I S N D H K G S L N A T E

UniRef90\_G5AP62 L W D Q L I Q I K M T D V K V E D V N Q Q R G E K S I F K P K I L G K Q N L E A

UniRef90\_Q0GGP8 A W R N L L Q V Q I S N I Q V E S A G K H S R K N N I F H E S I L G K V R L E A

UniRef90\_A4IGB9 L D E C K F Y M K I S K T E L L Q K S M S Q D S F V K S A D S E N F K I A L

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UniRef90\_E2C964  
UniRef90\_W4WHQ9  
UniRef90\_D9IUX8  
UniRef90\_Q49MF8  
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UniRef90\_H9JUX8  
UniRef90\_A7TZD9  
UniRef90\_W5NKW2  
UniRef90\_E0V9D4  
UniRef90\_E1C5J0  
UniRef90\_T1PA90  
UniRef90\_H2ZZL8  
UniRef90\_Q9U5D6  
UniRef90\_R9RZN5  
UniRef90\_Q9GSG2  
UniRef90\_A0A034W413  
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UniRef90\_U3KDI1  
UniRef90\_H2UES4  
UniRef90\_D6W7J2  
UniRef90\_I3KAW5  
UniRef90\_J3KBH0  
UniRef90\_H0WRU7  
UniRef90\_UP100042CDA15  
UniRef90\_G6DES6  
UniRef90\_W8B060  
UniRef90\_H0YZ32  
UniRef90\_K7FKI4  
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UniRef90\_K1QMJ1  
UniRef90\_W5N3E0  
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UniRef90\_E9GVW1  
UniRef90\_T1DJQ0  
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UniRef90\_E9H8K5  
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UniRef90\_G5AP62  
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UniRef90\_A4IGB9  
UniRef90\_T2MHF5  
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90                    100                    110                    120

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

130                  140                  150                  160

UniRef90_E9ISQ2	D L L N E K E F H S S E I N H Y G K C D I D Y V V S P E G D N Q R L I R K S
UniRef90_UPI000258ddb2	D L S E K A T A F H S T E L N H Y G Q C N I E Y V A N L E E E N E W L I R K F
UniRef90_I7DB97	N L N K E N G Y F T A V E K S L E G E C E M A Y T I V K D Q K K T L V T K S
UniRef90_Q6KB24	T I L K T T Q N V Y G L Q E N G I A G I C E A S Y V I Q E D R K A N K I I V T K S
UniRef90_UPI00027F8E56	H A G A C S S K T L D E V D L G R C P T T Y Q C H G D W L H K T
UniRef90_Q3HWF7	I K K K T H K V F D L Q E V G T Q G V C K T L Y S I S E D A R N E N I L L T K T
UniRef90_K7FEY7	Q L H S G T A T E E D V S G S C Q V S Y D V S K D S
UniRef90_K7INP3	T V V Q D E G S T T R H E V D I L G G C V T D F I F S K D G D A Q V V T K S
UniRef90_U4UYX7	D I E R F D A V F K T M E E T V T G K T E T I Y E I H P G E G G Y I V E I N K Y
UniRef90_E2B933	D L F N L V K T F H S S E I N H Y G K C N V D Y I I V S P E G E N Q R L I R K S
UniRef90_Q9U5D8	D V Q G Q N G F K T W E D S V N G E Y E V E Y L I E S Q P E G E F Y E L L K T
UniRef90_Q49MF3	D T N S F T G V Y K V M E P Q V T G H C E T L Y D V K R E K N Q Y F L E I S K T
UniRef90_UPI0001CE0DAA	S H P G A H G P E T L E E V D V L G R C P T T Y Q R H G H L L L K T
UniRef90_B4MVA4	T M L R F D V D F N T T E T D V S G E C Q V Q Y A L D A T D S V F V T I K K T
UniRef90_W5L1B7	P V M E E H N K K M P T I H G L C S S E L T V N S R K D I D V D V T V E
UniRef90_E2C0B0	S M K R F D V D H K L E E T D V Y Y G I C D T K Y H Y E A L R T S L I V K K S
UniRef90_I3LJ81	P P E T E E T K Q V L Y L D T V Y Y G N C S S D L T I K K G R E H V A T E I S I E
UniRef90_UPI0002652A52	D L K G E S D P Y T V M E A G V V A G E C C E A V Y N V K P Q S P Q F R L N V T K T
UniRef90_D4N2J8	D L S A D Q S Y F T V R E Q S L H G D C C Q T S Y N I H E L P Q K K Y W Q V S K T
UniRef90_G0M7Q0	Q K S A P L N Y Y N V E N K T M E G D C C E V A Y T I V Q D G E K A I Y T K S
UniRef90_E2C964	D L S Q K K H A F V T T E N T I H G T C R V A Y D V H P S G T T N V F V V T K L
UniRef90_W4WHQ9	S M R R F D V D H H G D E V D V H G I C D T H Y R L Y E A K K T S L I V K K S
UniRef90_D91UX8	N I K K T H N V Y E L Q E A G T Q G I C K T L Y A I S E D E K A E R I L L T K T
UniRef90_Q49MF8	D T R G A G G Y Y K V M E P L V T G E C E T S Y D V N R K D D D Y F I Q V V K T
UniRef90_UPI00032A215E	S P M A S K L T L E E N E T D V Y G T C C S R Y E R R G I L L L K T
UniRef90_M4ATC1	P E I N K E E T K E M P T V H G V C S S D F T I N L G S D A T T E V T I S
UniRef90_H9JUX8	E Q K P S T Q V D V F G I C P T E V S T S H E G G A V I V H R S
UniRef90_A7TZD9	K M E T S K N Y W K V S E E T I E G V C D V I Y Q V N E L P E K K F Y E I T K T
UniRef90_W5NKW2	P A D N E Q Q N E D M Q T L H G Q C C R S V V T A N S A T D V T V T
UniRef90_E0V9D4	T M M R F D V E Q D E V E T D V N G D C Q T R Y R L Q R A Q G T S L I L H K A
UniRef90_E1C5J0	Q M H S G S V R E V D I S G K C C N V T Y Q V R Q D Q V T K I
UniRef90_T1PA90	T M V R F D V D F N T T E T D V S G T C G V Q Y T L A S T A N A F V T I R K E
UniRef90_H2ZZL8	Q M N P G S T N E V D A S G D C K V A Y Q A R Q N Q V T K V
UniRef90_Q9U5D6	D T Q Q Q N G V Y K T Y E D S I N G V Y E T I Y E F Y P L P E D E V Y T V E K T
UniRef90_R9RZN5	S L P T S N S G L N L T E T D V V G T C P T R Y E V E T D G S K V V V K K E
UniRef90_Q9GSG2	S L P S N S T I Q N I T E T D V V G K C P T R Y E V E T D G S K V V V K K E
UniRef90_A0A034W413	T M L R F D V D F N T T E T D V V G K C P T R Y E V E T D G S K V V V K K E
UniRef90_UPI0001CBA42B	P N D E D L K N D R F Q A T D V H G N C T A E A Q I L E M S R R N D N I V K L D
UniRef90_U3KDI1	Q P H A G T T V E E D A S G S C Q V T Y T V S N H S I T K T
UniRef90_H2UES4	Q L K S G K V L E N D V S G R C T V A Y K V D Q H R V T R T
UniRef90_D6W7J2	D T N S S T A V F K T M E P T V T G E S E T L Y E I H P L P R G Q V I E V V K N
UniRef90_I3KA5W5	Q L S T G K V V I E N D V S G R C T V I E Y K A V K G Q V T R T
UniRef90_I3KBH0	P V L E E D K N K N M P T I H G K C K T H Y A V N A R E D I A T D V S L N
UniRef90_H0WRU7	Q L S S G T T N E V D V S G D C K V T Y Q A H Q D K V I K S
UniRef90_UPI00042CDA15	H P G V R D P H T V E E D I L G K C D S T Y T L S S F N S Y M H L S K K
UniRef90_G6DES6	E Q K S S T Q I D V F G S C P T D V S S S K E G A S V L L H R T
UniRef90_W8B060	T M L R L D V D F N T T E T D I A G E C K V K Y S L E K V N D V F I K I R K T
UniRef90_H0YZ32	Q L H S G S S R E V D I S G K C S T T Y H V R Q D Q V T K I
UniRef90_K7FK14	Q L H S G A A R E V D V S G K C N I T Y H A R E N Q V T K I
UniRef90_B4M9H4	T M L R F D V D L N T T E T D V S G D C Q V H Y A L E S T D S A Y V T I R K T
UniRef90_K1QMJ1	T M N T F E T G Q D L V I E T D V A G K C R T K Y N L K Q E G W R S V S I V K S
UniRef90_W5N3E0	Q L T S G K V V E E V D V S G K C M I D Y Q A R Q N Q V T R I
UniRef90_N1PB39	N V Q P S K S V Y T V H E E D I L G K C D S T Y T L S S F N S Y M H L S K K
UniRef90_I3JFT0	P V M E E E K N N E M P T V H G V C S T N F T V N N R Q D I A T D V T V S
UniRef90_UPI000328DE4B	P P E T E M T R R Q L F T V R F W K A G G R A P R A H T R L H T H S S
UniRef90_W4YJT9	K R T T S N N V L E A F E T G V T G T C M P V Y S P T G E M T F L K S
UniRef90_Q95P34	T L P S N S T I L N F T E T D I I G N C S T M Y E V Q H E G E K V V V T K I
UniRef90_UPI0003F0F77B	Q L S S G T T N E V D V S G D C K V T Y Q A H Q D K V T K I
UniRef90_E9H8Q4	D I E E T K T F T V F E D S I T G D C S T T I T V T R L P L S Q V H I I V K T
UniRef90_E9GVW1	Q L D A E N T V Y Y T T M E G C T S G E C C Q T W Y H I S R I P K Q Q V Y E I V K N
UniRef90_T1DJQ0	D S R Q L S G S Y I S M P E P L V T G E C W T H Y I P Q P Q L R A D G L Q V V K T
UniRef90_B4YAJ3	D L D E R P T F F T T E E S S I L G D C E T L Y T V N P L P K K T Y Y E V T K T
UniRef90_F1QQ87	P V L E E D R N R R M P T V Y G M C R T D Y S V N A R Q D I A T D V V L N
UniRef90_UPI000454AF37	H P N T T V P E T I E E V D V L G K C P T R Y E R K G S W L L K T
UniRef90_UPI0002041CE	H P G A H S P K T F D E V D I L G R C P T T Y Q R H G D W L H K T
UniRef90_D6W721	D T K S N T A V F K T M E E T V T G V C E T L Y E I H P Y P E G D V I E I V K N T
UniRef90_F1NPK5	Q P H A S T I V E E D A S G S C Q V T Y T V S N H S I V K T
UniRef90_E2A9P3	D L T H Q P H N F V T H E N T I H G T C Q V A Y D V H S N P E I N N F V V V T K L
UniRef90_UPI00035A2514	S M D D L T K S Q N L T E T D I A G Q C R T E Y K L V S D G Y Y S V S I K K S
UniRef90_E9H082	H V S G S N S V F K V F E S G V T G E C E T L Y E I R S D S K L N P M Q V V K T
UniRef90_A5A3J2	D L E Q Q Q G L F R K M E T D V T G D C E I L Y T V S P A S E E D P I E I T K S
UniRef90_S4SBK7	T L L P S N S S I N T F T E E T D I I G N C S T M Y E V V K N E G E K V V V M K M
UniRef90_Q7Z1M0	D L Q G E F G V Y K A M E D S V G G K C E V L Y S I T P V P E N F D S I V T K T
UniRef90_UPI0004419B78	Q L N S G D A S T E I D I C G K C N V T Y Q A R Q N Q I T K I
UniRef90_V4A9P1	N L E Q R F A T Y K C M D P S P M G L I E T A Y T V V P S S I P T A Y Q V V K A
UniRef90_UPI0003B59CF2	S P M V A K F R E E T E T D V H G T C T S R Y E R R G P T L L K S
UniRef90_H3D499	Q L K S G K V V N E D V S G R C T V A Y Q A E K H R V T R T
UniRef90_W5KYG7	P V L E E E R N N R M P T I F G L C K T E Y T V N A R G D I A T D V T L T
UniRef90_A0A016TLX2	N L H K D N D Y F T A N E R T I E G D C E V I A Y T I I K K K E D V T E V T K S
UniRef90_D2A691	N L K S G H E E T D V F G L C P T E V T H H K E G N M V V V Q K A S
UniRef90_Q59IU2	D L S T H R T I F R K M E T D I T G D C E T L Y T V S P A S E E D P I E I T K S
UniRef90_E9H8K5	D I T G V R H T F T V S E D S L S G D C S T I Y D I E R L P W A Q V Y T I V K T
UniRef90_A7TZD8	D L M K N V S F F H T M E R T I H G D C E T T Y T L H P L P G K Q Y F Q V T K T
UniRef90_E2BDX3	S I K A S F S E F I V D E Q S V V S G H C N T S Y N I Q P M A K S Q Y W D V M K T
UniRef90_UPI0002659AA5	N L P N D A Q T Y R S H E S T I H G D C N A Y W T L D T N P S A K V I N L T R V
UniRef90_Q5XXZ5	S L P S S N S G L N F T E T D V L G T C P T Y Y E V V Q A E G A K V L V K K E
UniRef90_UPI000441A08F	Q T H S G T M T N E V D A S G H C K V T Y Q A Q Q D K V V K I
UniRef90_G5AP62	Q L S S G T T N E V D A S G H C K V T Y Q A Q Q D K V V K I
UniRef90_Q0GGP8	T V K N T Q T I Y E L R E T G H G N C H N D Y A I E E K E G T K D W I V T Q V
UniRef90_A4IGB9	Q L K S G K M S E A D A S G K C L V E Y K V N K H Q V I R T
UniRef90_T2MHF5	E E S V V S V E S D V N G F C K T T I T Q E D G K I V K S S
UniRef90_R4KZ43	D L S A Y H H V F K K M E T D V T G D C E T L Y T V S P V A E E D P M E I T K S

170            180            190            200

UniRef90_E9ISQ2	L D P R M C I G H P N C Y W S N V P K V Q C T D E D Q N P I L K S S E R I Y		
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UniRef90_I7DB97	T N F E K C E S R A D L A Y N Q R F V S E C P E C D Y K M I V P Q T V Y N Y		
UniRef90_Q6KB24	K D L N N C N E K I K M D I G M A Y S H T C S N C R K I R K N T R G T A A Y T Y		
UniRef90_UPI00027F8E56	K D L A R C S L R R G R S S L H S Q A L P G V A P G L A S R L		
UniRef90_Q3HWF7	R D L N N C C Q E R L I K D M G L A Y T Q K C E R C Q E E T K N L R G T T F S Y		
UniRef90_K7FEY7	K D L H S C C T R P K F G F T S V N K I F R V L W Q A T S K S L Y		
UniRef90_K7INP3	R N L N Q C S N R E N I K Q G L F S G I V N P N A G I Q S T P I I A G H Q		
UniRef90_U4UYX7	K N Y S N S E V K Q S Y H H G F D M K D V D P A S N K M G E F F I R E S S S R A		
UniRef90_E2B933	L D P R M C I G H P N P R H W S N V P K V Q C T D E D Q N P V L K S S E R I Y R		
UniRef90_Q9U5D8	R N F S S S N R H L V Y R Y G F N H E G W D A G T N Q M G M F L S R T S Q S R I		
UniRef90_Q49MF3	Q N F S R C E K S L E Y H F G F S N S D F K P N S N H V G N V A S K S V V G H L		
UniRef90_UPI0001CE0DAA	K D L A R C S L R R V R A S L A S Q A V P G G Q P G L A S S L S C L Q		
UniRef90_B4MVA4	K D I G T C R H R Y A T Q S V L Q T T P Y T R D D K T I W P I L N S Q S Y C N L		
UniRef90_W5L1B7	R D L S Q C C S N F S S Q N L P T S P L S T P G L N G V S K L S S S Q T C N Y		
UniRef90_E2C0B0	K N L A D C C Q F G P R Y F S I V Q S N P Y R S P R R Q Q G Q N L K S H S E C D I		
UniRef90_I3LJ81	R N L L E K C C D R F Q P I S T G V S P L A L I R G M T R P L S T L I G S S Q C Q Y		
UniRef90_UPI0002652A52	F N F N K C C S N R Q Q N A F L L S G F P S D P S L D V S Q N L V H S T R E V S Y		
UniRef90_D4N2J8	R N F D N C C V E R P V Y Q K W T G V E P K C D V T K S G K D L T S M S T T N Y		
UniRef90_G0M7Q0	V N F D D C C I T R P E T S Y G V H F G F E C K R C E G K G P F V K P Q T V Y T Y		
UniRef90_E2C964	H D L K N C C S H F V Q R V F D H D E C E K C H V E S V D D M S A A V R R V F		
UniRef90_W4WHQ9	K Y L A D C C Q N G P K Y F S M Q S N P Y R S P R K Q H R Q H G L F N S R S		
UniRef90_D91UX8	R D M N R C C Q E K I I R D M G L A Y T E K C V K C Q D D I K N L R G T T T Y S Y		
UniRef90_Q49MF8	Q N F D R C C E Q R M G Y H F G T G Y S D F R P N T N S M G N V A S K S L V S Y M		
UniRef90_UPI00032A215E	R D L L K Q C C H Q S R L A N F W P H S V A L S E D T S M H L E		
UniRef90_M4ATC1	R D L S K C C D G F V A R R Q N T S P A L I S G M N Y P L S K L I S S T Q T C N Y		
UniRef90_H9JUX8	R D L S R C C S H R E Q G K S D I I S N V N P N A G V K D M Q V L Q S T L		
UniRef90_A7TZD9	K E I D S C C K K S A V V Y T F P A V K A E S C N S F K C L S N T F S A S S M T R Y		
UniRef90_W5NKW2	R D L L S C C D R F H P K Q D Y T S P L A L I S G M H I P L S N L I S S S T C N Y		
UniRef90_E0V9D4	K K L L D T C C D N R Y D F H T I V Q		
UniRef90_E1C5J0	K A L L D T C C E I E K T G F T S H N Q I L D V N T K A T S A T I Y		
UniRef90_T1PA90	K D I I R S C C H S R F S T H S F L I Q T V P Y A F S G G D N S V F P V L D T E S		
UniRef90_H2ZZL8	K S L L N S C C K I P R T G F T S H N K I L G V S T K A T C A T I Y		
UniRef90_Q9U5D6	R N F S S S S D Y H I V Y R Y G M N H E G W T A G T N Q M G N M L S R S S T S R I		
UniRef90_R9RZN5	K N H R L C C Q E R Y A T P D E T H M P W L K G P L P M Q E S W S V C T Q		
UniRef90_Q9GSG2	K N H R Q C C K E R Y H T P A E N P A P W L R G P F I T D E S T C		
UniRef90_A0A034W413	K N M Q T C C Q K R Y S T N S I L Q S T P Y F R D D K K L W P I I I D S I S Y C D M		
UniRef90_UPI0001CBA42B	K D L S N C C S R S N K T Y S R E S P L S L L R N I S A I E K M V N S T Q N C T Y		
UniRef90_U3KD11	K D L L S C C S K P K S G F T S L N K I F G V E W R P S S R S Q Y		
UniRef90_H2UES4	K L L E T C K T A E T G F T T M H S Q V L G V S R K S S S V T V F		
UniRef90_D6W7J2	K N F T H S K E T P S Y H F G F H G V D R F D I D N Q I G E F F S R T S V S R A		
UniRef90_I3KAW5	K N L L E T C K T E E T G F T T H S K V L G V S R K A S S V T V F		
UniRef90_J3KBB0	R D L L S R C C D K F P M R D H T S P L A L I T G M H Y P L A Q L I R S S Q C N Y		
UniRef90_H0WRU7	K D L L D S C C K I A R S G F T I P N Q V L G V S S K A S S V T T Y		
UniRef90_UPI00042CDA15	K A L A R C C S L R R V R A S L R S Q A L P A T E E Q S G L A S R L		
UniRef90_G6DES6	R D L L S R C C A Y R E Q S K N D L V T A V Y N P N S E I K S T Q L L Q S T L		
UniRef90_W8B060	K N M P T C C Q K R Y S T N S I L Q S V P Y D R N D K T M W P L L D S S S Y C V M		
UniRef90_H0YZ32	K D L L D S C C E T E K K R F T S H S R I L D V S T K A T S A T V Y Y		
UniRef90_K7FK14	K A L G T C C E I E K T G F T S Y N E L L D I S T K A T S A T I Y		
UniRef90_B4M9H4	K D I S S C C R R R Y A T Q S V L Q T T P Y T R D D K T I W P I L N S Q S Y C N L		
UniRef90_K1QMJ1	K D I N T C C L N R H G Y D T S M G Y I L Y E V P S V Q S I P L V K S S H Q C E Q		
UniRef90_W5N3E0	K A V D S C C K T A E T G F T S H S K V L G V S S K S S S T T E F		
UniRef90_N1PB39	R H L D S C C T E R P Q M E T G F I A G L K T S E G T N S A M D P M V Q A D Y		
UniRef90_I3JFT0	R D L L S R C C D D W F T A R R Q D T S P L A L I V S G M K G L S K L I R S T Q S C N Y		
UniRef90_UPI000328DE4B	R R Y K K C C D G F K A T G S G V S P L A L V R G M V R P L S T M I G S S Q C Q Y		
UniRef90_W4YJT9	N D F L M C K H R T N L N M F V D A I P V H L L A P T A S P L T S R M E C E Y		
UniRef90_Q95P34	K N H R F C C Q D L Y V N R A E T P K A W V K A P L P L E E S Y S		
UniRef90_UPI0003F0F77B	K A L D S C C K I V R S G F T T P N Q V F G V T L K A T S V T T Y		
UniRef90_E9H8Q4	K D Y N R C C Q N N P V W S T A N P S T H S C E F G K A N G D F M K R S T V F K Y		
UniRef90_E9GVW1	R D F D K C C Q N L P I F N Y I S T P G M Q C A G C Q N E W A H V D I V R I L		
UniRef90_T1DJQ0	Q D F E H C C D Q R M G F H F G T G Q S D F K P Q A N K M G D I A Q K S V I G Y M		
UniRef90_B4YAJ3	R N F D N C C R E R P V F Q Q W I G L K S S C D V S K S N C K D M F T H S S T R Y		
UniRef90_F1QQ87	R D L S N C C D K F P V K D H T S P L A L I T G M Q Y P L A Q L I R S S Q T C N Y		
UniRef90_UPI000454AF37	K N L L A Q C C S H R H T G V T S L R S E A L P G V A E P V L A S Q V A C S Q		
UniRef90_UPI00020E41CE	K D L A R C S C L R R G R S S L H S Q A L P G V A P G L T S R L		
UniRef90_D6W721	K N F T H S E Q S P S Y H A G L D G I Y G Y Q P G N K V G K F L S R T S V S Q A		
UniRef90_F1NPK5	K D L L S C C T K P K M G Y A S P N K M F G I Q W Q P S S R S L Y		
UniRef90_E2A9P3	H D P R N C C S H F V Q R V F D H V E C E K C H V E S M D D M T T A A R R V F		
UniRef90_UPI00035A2514	K D I L S C C T E R H Q Y K T I Y I Y M L S S E I Q S L P I M K T T Q E C E Q		
UniRef90_E9H082	K D Y D S K C R N K P V Y T I I A P S G W Q G C K S G V A A C G T A R S S S V N R Y		
UniRef90_A5A3J2	K N Y G H C C H R V A Y H F G I P E A E W T G T A H N P E E D Q F I R R A T V S		
UniRef90_S4SBK7	K N H R F C C Q D H F I S R A E S T K A W L K A P L P M E E S F S		
UniRef90_Q7Z1M0	K N Y N K C C E Q Q M A Y H S G I T D K M N W K L G S N D G V L S R S S T S S I		
UniRef90_UPI0004419B78	K A L N S C C K E R P S V T S R N Y T N V M R N Y F Y R K S N V A T E M C R E E H P T S Q I Y T G V S H V R Y		
UniRef90_V4A9P1	R D L R Q C C Q Q R L D R L W P H S V T L T E D T M V G M E L H		
UniRef90_UPI0003B59CF2	K L L E T C K T A E T G F T T Q S Q V L G V S R K S S S V T V F		
UniRef90_H3D499	R D L L S R C C D N R P I K D H T S P L A L I T G M N Y G L A Q L F N S K Q T C N Y		
UniRef90_W5KYG7	V N F N K C C T R R P I T K Y N F R Y L T E C R D C K E T D Y F E P S T V Y T Y		
UniRef90_A0A016TLX2	R N L N R C C A F R E N I K Q D F I A T A F N L N S E I K S S P I L N G D Y		
UniRef90_D2A691	K N F G H C C H R V D Y H Y G V P S A E W T G T A H K P E E V Q F L R R A S V S		
UniRef90_Q59IU2	K D F N R C C R K T N P A W A S A T P A S H S C E F G K G N C E F M H R T T M A R Y		
UniRef90_E9H8K5	H N F D N C C R E R P V F S A W S G I K S N C D V T R S G C D D F N S I V S T R Y		
UniRef90_A7TZD8	R N Y R D C C L S M P M Y Q F S I V K N M D H D I H E R Y L K R S T Q V N M		
UniRef90_E2BDX3	I N F D E C C V T V P Y K V Y G S L K A S M C S T C E D T M T H P L E T T R T T Y		
UniRef90_UPI0002659AA5	Q 5 X X Z 5 K N H R F C C Q E H Y P T P D E I D L P H L K G P L P I Q E S Q S I C R Q		
UniRef90_UPI000441A08F	K D L L Q S C C K R P K F G F S T V N K I F G L L W R P T S K S H Y		
UniRef90_G5AP62	K A L D S C C K I E R S G F T T Q N Q V L G V S S K A T S V T T Y		
UniRef90_Q0GGP8	V D V T N C C W E R A A M Y S G M A T E W D R L A K E R G E N V I S S M K Y N Y		
UniRef90_A4IGB9	K H L E T C K S Q E T G F T T H S P V L G I S G K C A A E T V I		
UniRef90_T2MHF5	K K L L S D C S Q R T I Q E I G F H A A T K S E S D L K V L D S N S K C V Y		
UniRef90_R4KZ43	K N Y G H C C H R V A Y H F G V P E A E W T G T A H R S E E K Q F I A Q S T V S		

210            220            230            240

UniRef90_E9ISQ2	Q   K   T   D   G   F   V   H   D   I   S   V   N   A   S   G   S   I   Y   V   Q   P   F   Q   S   M   G   E   A   H   Y   H   F   V   Q   Q   T   I
UniRef90_UPI000258ddb2	K   V   N   L   T   R   Q   L   S   E   I   L   F   V   N   A   S   G   G   I   Y   V   Q   P   F   Q   S   F   G   E   A   Q   F   H   F   T   R   Q   T   F
UniRef90_I7DB97	K   L   S   E   K   Q   I   E   E   V   V   R   S   I   Y   T   V   S   L   K   E   Q   P   L   M   K   T   E   T   R   A   R   L
UniRef90_Q6KB24	I   L   K   P   T   D   A   G   T   L   I   T   Q   A   T   S   Q   E   V   H   Q   L   T   P   F   N   E   M   T   G   A   A   I   T   E   A   R   Q   K   L
UniRef90_UPI00027F8E56	T   C   V   Q   S   F   R   A   G   V   L   Q   E   A   S   C   T   E   L   D   T   A   G   P   L   S   V   K   A   S   A   V   Q   I   R   T   L   S   S   L
UniRef90_Q3HWF7	T   L   K   P   V   A   N   A   I   M   I   L   K   V   D   V   N   E   L   I   Q   F   L   P   F   S   E   D   N   G   A   T   Q   M   R   T   K   Q   S   F
UniRef90_K7FEY7	S   V   Q   G   S   L   I   Q   S   V   L   S   E   E   S   H   L   V   S   P   A   L   K   S   S   I   G   T   K   I   I   S   R   Q   K   L
UniRef90_K7INP3	K   V   E   Q   R   F   K   G   G   V   L   D   K   A   V   S   T   E   T   Y   K   L   R   P   F   S   N   G   E   A   G   A   K   T   V   V   E   T   V   L
UniRef90_U4UYX7	I   I   T   G   K   P   S   R   H   V   I   Q   N   S   Y   T   I   N   K   M   M   V   N   P   D   L   K   N   K   E   M   G   S   V   V   S   M   V   N   V
UniRef90_E2B933	L   R   F   T   D   G   L   A   R   D   I   I   F   V   N   T   S   G   G   I   Y   V   Q   P   F   Q   S   M   G   E   A   H   Y   H   F   V   K   Q   T   M
UniRef90_Q9U5D8	I   L   S   G   K   L   N   R   F   T   I   Q   S   S   V   T   T   K   C   V   L   V   I   A   P   H   I   Y   N   S   Q   K   G   M   V   G   S   R   V   N   L
UniRef90_Q49MF3	F   L   T   G   D   W   Y   N   Y   T   I   Q   S   A   S   T   V   N   K   V   V   V   A   P   S   L   V   N   E   Q   K   A   L   V   Y   S   Q   V   N   V
UniRef90_UPI0001CE0DAA	S   F   Q   A   G   V   L   Q   E   A   S   C   E   E   L   H   S   V   A   P   L   S   E   R   A   A   G   V   H   T   R   T   L   S   S   L
UniRef90_B4MVA4	T   V   D   N   S   V   Y   K   E   I   S   C   L   E   T   H   L   L   L   P   F   S   N   A   S   S   G   A   L   T   T   S   Q   S   K   L
UniRef90_W5L1B7	Q   F   D   N   R   K   K   H   M   T   E   T   Q   C   C   R   E   K   H   V   F   I   P   F   S   H   E   D   Q   Y   G   I   V   E   V   K   Q   S   L
UniRef90_E2C0B0	T   I   D   H   N   V   Y   A   K   V   V   C   C   E   E   T   R   Q   M   Q   P   L   S   N   G   Q   Q   G   A   R   T   D   A   R   M   T   L
UniRef90_I3LJ81	T   L   D   P   K   R   K   H   V   S   E   A   L   C   C   E   Q   H   L   F   P   F   S   Y   K   N   K   Y   G   M   M   Q   V   T   Q   T   L
UniRef90_UPI0002652A52	S   I   R   G   D   Q   K   S   F   L   I   D   S   V   T   G   E   E   I   H   A   F   N   P   L   N   M   D   G   P   S   F   T   T   F   V   R   Q   E   L
UniRef90_D4N2J8	I   V   C   G   D   D   R   E   F   V   I   R   K   S   E   T   E   N   T   I   M   A   H   L   A   W   K   T   E   E   K   F   L   N   K   A   K   V   I
UniRef90_G0M7Q0	T   F   K   N   K   E   R   L   E   Q   S   E   V   H   S   L   Y   T   L   N   V   N   Q   D   D   V   R   S   E   T   R   S   K   L
UniRef90_E2C964	Q   M   E   Q   Q   D   D   G   I   L   I   K   H   L   A   A   H   S   V   I   N   Y   L   P   Y   N   A   R   S   E   A   H   Q   L   L   T   N   T   I
UniRef90_W4WHQ9	D   C   E   I   T   V   D   H   N   V   Y   E   R   V   V   C   C   N   E   V   R   I   L   Q   P   L   S   N   D   K   A   G   A   K   T   E   S   R   M   V   L
UniRef90_D9IUX8	I   L   L   K   E   V   E   G   V   E   V   Q   D   V   R   A   I   E   I   Q   F   S   P   F   S   E   K   K   G   A   A   Q   M   E   T   R   Q   S   L
UniRef90_Q49MF8	Y   L   T   G   N   W   Y   N   F   T   I   Q   S   S   M   I   V   N   K   V   A   P   A   P   S   F   V   N   K   E   S   A   F   V   Y   A   Q   V   N   M
UniRef90_UPI00032A215E	L   Q   C   A   Q   R   H   G   S   V   M   E   E   V   N   C   C   T   E   A   V   S   M   M   T   W   S   R   T   T   G   M   V   K   T   Q   T   V   S   K   L
UniRef90_M4ATC1	K   F   D   N   Q   K   K   H   V   T   S   G   S   C   C   T   E   K   H   I   F   L   P   F   S   Y   K   E   Y   G   L   S   A   V   V   S   Q   T   V
UniRef90_H9JUX8	N   V   E   S   K   V   I   N   G   V   P   E   K   V   A   A   T   E   E   Y   L   Y   K   P   F   S   I   G   E   N   G   A   R   A   K   V   H   T   K   L
UniRef90_A7TZD9	Y   A   C   G   P   R   S   N   W   I   L   Q   T   I   V   N   E   G   E   I   V   Q   R   P   V   G   V   K   S   E   T   I   T   T   G   T   R   Q   V   L
UniRef90_W5NKW2	Q   F   D   P   K   R   K   H   V   T   G   A   T   C   I   E   K   Y   I   F   L   P   F   S   Y   H   K   N   E   G   L   S   S   H   V   K   Q   T   L
UniRef90_E0V9D4	A   N   R   Y   R   F   D   H   K   I   Y   D   G   I   C   E   E   V   H   T   F   Q   P   F   S   K   G   E   N   G   S   Q   T   I   V   K   Q   S   L
UniRef90_E1C5J0	V   L   E   D   S   F   I   K   S   I   K   A   E   E   N   Y   V   F   I   L   L   N   S   R   R   K   T   G   A   K   I   V   S   K   Q   K   L
UniRef90_T1PA90	Y   C   N   L   T   I   D   N   H   I   Y   R   E   I   S   C   F   E   R   H   Q   L   I   P   F   S   K   K   Q   S   G   A   V   T   T   V   H   Y   G   L
UniRef90_H2ZZL8	R   L   E   D   N   I   I   K   S   A   L   A   E   E   N   Y   L   L   S   L   N   I   R   Q   E   T   A   A   K   I   I   S   K   Q   K   L
UniRef90_Q9U5D6	V   I   T   G   A   L   N   K   Y   T   I   Q   Y   S   D   T   I   E   K   V   L   V   S   P   H   I   S   N   S   Q   K   G   I   A   V   S   R   V   T   L
UniRef90_R9RZN5	E   V   N   N   S   G   I   I   S   S   V   K   C   C   E   D   K   K   V   V   R   P   A   Y   G   T   Y   K   F   V   E   A   E   Q   E   S   T   L
UniRef90_Q9GSG2	M   C   K   Q   E   T   R   N   G   Y   S   A   I   T   C   C   E   D   K   N   V   V   K   P   S   Y   G   A   Y   K   Y   V   E   A   K   M   M   S   T   L
UniRef90_A0A034W413	V   I   N   N   N   V   Y   D   E   I   I   C   C   E   Q   H   Q   L   I   V   F   S   N   M   M   N   T   G   A   I   T   R   V   K   S   R   L
UniRef90_UPI0001CBA42B	T   M   S   S   A   C   Y   I   K   E   V   K   C   Q   E   S   H   T   F   T   P   L   S   Y   N   N   S   G   V   Q   T   N   I   S   Q   V   M
UniRef90_U3KDD1	V   V   K   D   K   L   L   Q   S   V   L   A   E   E   S   H   E   V   A   P   A   L   R   S   R   S   R   I   K   I   S   S   R   Q   Q   L
UniRef90_H2UES4	T   F   E   D   D   G   F   I   R   S   A   V   A   E   E   T   H   T   L   A   V   N   A   R   R   S   A   A   A   D   V   V   S   R   Q   T   L
UniRef90_D6W7J2	V   I   T   G   N   L   D   S   F   T   L   Q   S   S   V   T   V   D   E   V   T   V   N   P   S   M   Q   D   K   Q   R   G   S   T   R   S   I   V   N   I
UniRef90_I3KAW5	T   L   E   N   N   G   F   I   R   S   A   E   A   E   E   T   H   S   L   A   V   N   A   R   R   S   V   A   A   K   V   V   S   K   Q   S   L
UniRef90_I3KBBH0	R   F   D   N   E   K   K   H   M   T   F   G   S   C   C   T   E   N   H   I   L   I   P   F   S   Y   K   E   Y   G   V   A   N   V   G   K   Q   E   L
UniRef90_H0WRU7	K   I   E   D   S   F   V   I   A   V   L   A   E   E   T   H   S   F   G   L   N   F   L   R   S   R   I   A   G   K   I   V   S   K   Q   K   L
UniRef90_UPI00042CDA15	T   C   I   Q   S   L   Q   A   G   V   L   R   E   A   S   C   T   Q   L   D   T   A   G   P   L   S   R   E   A   S   A   A   L   M   W   T   F   S   S
UniRef90_G6DES6	N   V   E   S   K   V   N   N   N   G   V   P   E   K   I   S   A   V   E   Q   Y   L   Y   K   P   F   S   V   G   D   N   G   A   K   A   E   V   N   T   K   L
UniRef90_W8B060	T   I   N   K   K   L   Y   Q   D   I   T   C   Y   D   Q   H   K   F   I   P   F   S   N   N   N   T   G   A   V   T   N   V   V   S   R   L
UniRef90_H0YZ32	V   L   E   D   S   F   I   K   S   I   K   A   E   E   N   F   A   V   V   N   V   R   R   K   T   G   A   K   I   V   S   K   Q   R   L
UniRef90_K7FK14	V   L   E   D   D   F   I   K   S   I   K   A   E   E   N   F   A   V   V   N   V   R   R   K   T   G   A   K   I   V   S   K   Q   K   L
UniRef90_B4M9H4	T   I   S   D   N   N   V   Y   R   E   I   S   C   C   M   E   S   H   L   V   P   F   S   N   G   S   G   A   L   T   T   A   Q   S   I   L
UniRef90_K1QMJ1	K   I   S   T   D   G   H   M   E   S   V   L   C   C   H   E   V   D   L   F   K   P   F   S   Q   G   D   S   G   A   M   T   E   V   T   Q   K   L
UniRef90_W5N3E0	I   L   Q   D   G   F   I   K   S   A   L   S   E   E   R   H   T   L   S   L   N   T   R   Q   A   I   A   R   I   V   S   R   Q   K   L
UniRef90_N1PB39	I   L   R   E   N   D   H   H   F   A   I   K   V   E   V   L   K   S   S   Y   V   F   T   P   Y   L   D   E   K   E   S   I   V   T   Y   I   W   Q   K   L
UniRef90_I3JFT0	R   F   D   N   Q   K   K   H   M   T   S   G   T   C   C   T   E   K   H   I   F   L   P   L   S   H   E   N   Q   G   I   S   A   M   V   K   Q   T   V
UniRef90_UPI000328DE4B	T   L   D   S   R   K   K   H   V   S   E   A   I   C   C   K   C   K   E   R   H   H   F   L   P   F   S   Y   K   N   Q   G   M   M   V   H   V   T   Q   S   L
UniRef90_W4YJT9	Q   M   D   S   Q   S   I   S   S   V   E   C   C   H   E   T   H   A   L   R   P   F   A   A   S   D   S   Q   P   E   I   M   V   H   T   S   L
UniRef90_Q95P34	E   C   K   Q   E   I   T   N   G   Y   T   I   S   T   S   I   C   D   K   N   I   I   K   P   C   A   Y   G   S   Y   K   Y   V   E   A   H   Q   E   S
UniRef90_UPI0003F0F77B	K   I   E   D   S   F   V   I   A   V   L   S   E   E   T   H   A   F   G   V   N   F   L   R   N   I   A   G   K   I   V   S   K   Q   K   L
UniRef90_E9H8Q4	I   A   C   G   E   W   P   K   V   T   Y   V   H   A   S   G   F   S   D   L   V   A   Q   P   F   A   T   E   T   D   A   L   T   N   S   V   I   I   D   W
UniRef90_E9GVW1	G   C   K   V   N   E   D   T   F   L   V   Q   R   I   K   T   M   D   R   L   V   A   K   P   F   L   A   Y   E   T   E   A   L   E   G   L   T   I   Q   H   F
UniRef90_T1DJQ0	Y   L   S   G   T   W   Q   N   Y   T   I   Q   S   S   A   L   I   N   K   V   A   I   S   P   S   L   T   D   N   Q   K   A   F   V   Y   S   H   V   N   L
UniRef90_B4YAJ3	I   V   C   G   S   E   E   Q   Y   F   Y   I   R   E   A   N   T   E   N   S   I   V   S   P   Q   I   G   W   N   T   E   T   K   S   T   A   R   I   T   T   L
UniRef90_F1QQ87	K   F   D   N   D   Q   K   H   M   T   S   S   A   S   C   C   S   E   K   H   M   L   L   P   F   S   Y   K   G   E   G   V   S   N   V   G   K   Q   A   L
UniRef90_UPI000454AF37	T   F   F   R   A   A   V   L   G   E   T   T   C   V   E   S   H   V   A   A   P   F   S   G   K   G   S   S   V   Q   T   Q   I   R   S   T   L
UniRef90_UPI000204E1CE	T   C   V   Q   S   F   R   A   G   V   L   R   E   A   S   C   T   E   L   D   S   V   G   P   L   S   A   K   A   S   A   V   Q   T   R   T   L   S   S   L
UniRef90_D6W721	V   I   T   G   T   L   D   K   Y   T   V   Q   S   S   V   T   V   E   Q   I   V   R   P   T   I   L   A   D   Q   K   K   G   S   V   N   S   K   L   N   V
UniRef90_F1NPK5	V   V   K   D   S   L   Q   S   V   L   A   E   E   S   H   M   L   S   L   V   L   R   S   T   T   G   V   K   I   S   S   R   Q   E   L
UniRef90_E2A9P3	Q   I   E   Q   Q   N   N   D   I   L   K   H   M   V   A   H   S   V   I   N   Y   V   P   F   N   A   L   S   Q   A   H   Y   L   L   T   N   I   T   L
UniRef90_UPI00035A2514	D   I   Q   K   A   G   V   L   K   S   S   T   C   T   E   I   H   V   Y   R   P   F   A   D   G   N   S   G   G   M   T   E   V   K   Q   T   L
UniRef90_E9H082	I   A   C   G   S   L   E   S   T   F   T   L   K   M   T   H   Q   G   E   V   R   T   S   P   Y   A   D   T   E   Q   L   R   S   L   S   L   M   K   L
UniRef90_A5A3J2	R   I   L   A   G   K   L   G   P   I   Y   K   A   E   T   S   T   V   Q   V   H   P   H   L   Y   G   K   Q   K   A   E   V   H   S   H   V   H   I
UniRef90_S4SBK7	E   C   K   Q   E   I   T   K   G   V   Y   T   S   I   T   C   K   D   K   N   I   I   R   P   A   Y   G   S   Y   K   Y   I   E   A   V   Q   E   S   T   L
UniRef90_Q7Z1M0	I   I   S   G   N   V   K   H   F   T   I   Q   S   S   L   T   S   T   E   I   F   V   R   S   K   L   H   D   T   Y   S   S   A   V   Y   D   S   V   K   L
UniRef90_UPI0004419B78	I   L   E   D   T   F   I   K   S   V   R   A   E   E   N   H   I   L   N   K   L   S   Q   L   I   N   A   K   V   V   S   K   Q   K   L
UniRef90_V4A9P1	S   I   Y   G   D   K   T   K   F   L   I   S   S   A   I   A   E   S   T   Y   T   I   P   I   H   D   R   T   N   G   R   I   E   T   S   V   N   Q   T   L
UniRef90_UPI0003B59CF2	C   V   Q   R   P   G   Q   S   M   V   E   E   V   N   C   T   E   V   V   S   L   A   T   S   L   T   P   L   G   P   V   K   T   K   S   V   S   T   L
UniRef90_H3D499	T   L   E   D   G   F   I   R   S   A   V   A   E   E   T   H   S   L   A   V   N   A   R   R   S   A   A   Q   V   V   S   R   Q   T   L
UniRef90_W5KYG7	K   F   D   N   T   L   K   H   M   T   S   S   G   C   C   T   E   N   H   L   V   P   F   S   H   E   K   Y   G   L   T   N   V   A   K   Q   T   V
UniRef90_A0A016TLX2	L   L   E   K   E   G   L   K   K   V   E   V   N   S   V   Y   T   I   T   L   E   N   Q
UniRef90_D2A691	D   A   T   L   R   I   K   N   G   I   L   D   Q   A   T   V   H   E   H   Y   L   Y   V   P   F   S   V   G   T   N   G   A   K   A   A   I   E   T   N   L
UniRef90_Q59IU2	R   I   L   G   G   K   Q   G   P   I   Y   K   A   E   T   S   T   V   Q   V   N   P   H   M   Y   G   K   Q   K   A   E   V   H   S   H   V   H   L
UniRef90_E9H8K5	V   A   C   G   K   W   S   D   L   L   M   V   H   A   N   G   F   S   D   W   V   Q   P   F   A   T   K   D   E   L   L   N   S   V   I   T   K   W
UniRef90_A7TZD8	I   I   C   G   T   P   D   L   F   V   I   R   K   A   T   T   E   N   L   I   S   L   S   P   T   G   F   N   T   E   K   L   T   S   F   S   T   V   T   L
UniRef90_E2BDX3	V   I   R   D   K   D   D   L   T   T   I   R   S   S   V   M   K   G   T   I   D   V   R   P   K   L   N   D   F   A   N   S   N   I   L   T   K   M   K   L
UniRef90_UPI0002659AA5	S   L   T   G   N   R   S   D   S   I   L   E   H   A   V   D   Y   S   K   L   H   H   A   P   Y   T   E   N   G   M   A   K   V   L   T   K   Q   E   V
UniRef90_Q5XXZ5	E   I   D   S   G   I   L   I   S   S   V   V   C   E   D   K   K   V   I   R   P   S   Y   G   M   Y   K   Y   V   E   A   K   Q   E   S   T   L
UniRef90_UPI000441A08F	I   M   E   G   G   N   L   I   K   S   A   L   S   E   E   S   H   I   L   C   Q   G   I   M   S   S   V   G   V   N   I   T   S   R   Q   H   L
UniRef90_G5AP62	K   I   E   D   S   F   V   L   A   V   V   S   E   E   I   H   T   F   V   L   N   F   L   N   T   I   K   G   R   I   V   S   Q   Q   K   L
UniRef90_Q0GGP8	T   I   K   P   T   G   D   G   G   V   I   T   R   A   Q   G   F   E   R   Q   H   F   S   A   F   N   V   K   G   G   S   F   K   M   E   A   M   K   D   L
UniRef90_A4IGB9	T   L   E   S   G   N   G   I   I   K   S   A   D   A   K   E   T   H   V   L   S   I   N   R   H   A   T   K   V   L   S   R   Q   S   L
UniRef90_T2MHF5	K   I   S   S   G   N   I   I   N   S   V   S   C   C   E   E   T   H   F   K   P   F   S   A   G   H   S   G   A   V   T   T   V   K   Q   T   L
UniRef90_R4KZ43	R   I   L   A   G   K   Q   G   P   I   Y   K   A   E   T   S   T   V   S   V   H   P   H   L   Y   G   K   Q   K   A   Q   V   H   S   Y   V   Q   L

250                    260

UniRef90_E9ISQ2	E  L   S   S   V   K   D   T   N   K   I   A   T   N   N   L   Q   T   T   A   L   Q   H   E   L   P
UniRef90_UPI000258ddb2	N   L   I   S   V   K   D   T   N   K   I   P   I   K   N   L   H   F   K   V   L   Q   H   E   L   P
UniRef90_I7DB97	T   L   L   E   Q   S   E   R   R   E   I   Q   A   P   K   G   Q   K   E   E   L   I   Y
UniRef90_Q6KB24	V   L   E   D   A   K   V   V   H   V   T   V   P   E   Q   E   L   K   N   R   G   S   I   Q   Y   Q   F
UniRef90_UPI00027F8E56	S   L   L   H   E   M   A   D   P   A   G   T   D   P   D   D   D   M   T   P   S   G   L   L   Y   E   W
UniRef90_Q3HWF7	Q   F   L   E   I   Q   K   E   P   I   T   P   I   N   A   V   Y   R   H   R   G   S   L   K   Y   E   F
UniRef90_K7FEY7	E   L   L   S   S   S   P   G   P   A   E   T   P   G   Q   S   L   Q
UniRef90_K7INP3	T   Y   K   G   K   K   E   D   S   P   T   A   A   V   S   L   P   K   S   I   I   F   E   A   P
UniRef90_U4UYX7	T   L   S   E   V   N   E   R   T   S   Y   P   D   L   E   R   P   K   P   I   G   N   L   L   Y   V   F
UniRef90_E2B933	E   L   L   S   V   E   D   T   T   N   K   I   V   A   N   N   L   R   T   T   V   L   Q   H   E   L   P
UniRef90_Q9U5D8	T   L   L   D   Y   S   N   K   G   S   V   P   T   I   S   N   P   K   T   V   N   N   L   V   Y   E   Y
UniRef90_Q49MF3	S   L   N   S   I   Y   P   Y   E   K   Q   P   P   A   D   D   R   E   I   F   V   D   L   V   Y   S   F
UniRef90_UPI0001CE0DAA	V   L   L   S   Q   A   P   R   D   P   A   P   D   P   D   A   T   P   R   S   L   L   Y   E   W
UniRef90_B4MVA4	E   L   K   G   E   E   S   Y   S   I   S   E   F   L   E   Q   I   E   R   R   A   T   L   I   F
UniRef90_W5L1B7	V   L   Q   E   S   S   S   K   I   N
UniRef90_E2C0B0	K   L   V   Q   E   T   T   D   M   S   S   F   H   E   D   E   Y   E   N
UniRef90_I3LJ81	K   L   E   E   T   P   K   I   N   S
UniRef90_UPI0002652A52	M   R   T   R   V   M   N   V   D   T   T   R   P   L   G   S   S   Q   R   Y   T   N   L   S   F   E   F   P
UniRef90_D4N2J8	E   L   I   K   E   E   A   I   S   S   P   I   P   P   K   D   E   R   E   I   K   D   L   I   F   E   F   P
UniRef90_G0M7Q0	A   F   V   E   K   N   K   I   L   N   R   K   I   E   K   I   E   G   H   K   K
UniRef90_E2C964	S   L   E   N   V   V   P   T   T   E   T
UniRef90_W4WHQ9	Q   L   V   Q   E   T   T   E   M   S   S   I
UniRef90_D9IUX8	I   F   Q   E   Y   R   Q   S   G   M   T   P   I   S   A   Q   Y   V   H   H   G   S   L   K   Y   E   I   P
UniRef90_Q49MF8	T   L   N   D   V   R   V   Y   E   N   V   P   M   G   P   A   E   D   K   K   D   L   V   Y   S   Y
UniRef90_UPI00032A215E	L   L   L   L   R   A   Q   P   G   S   P   L   G   A   D   S   R   V   P   A   D   L   Q   F   E
UniRef90_M4ATC1	M   L   R   E   T   S   K   I   N
UniRef90_H9JUX8	T   L   T   G   K   G   K   A   V   A   P   S   S   K   C   T   D   V   N   S   I   I   F   E   N   P
UniRef90_A7TZD9	K   L   R   T   I   Q   P   I   S   S   E   V   P   P   P   Q   P   R   T   T   E   S   I   M   Y   E   Y
UniRef90_W5NKW2	T   L   L   K   D   S   T   K   I   N   I   F   E   P   S   S   E   L   E   E   Q   Q   G   L   F   M   E
UniRef90_E0V9D4	K   L   R   T   S   H   S   V   T   P   K   P   T   S   G   E   L   K   A   S   R   D   L   I   I
UniRef90_E1C5J0	E   L   L   Q   S   V   E   A   G   P   G   L   I   A   G   K   H   V
UniRef90_T1PA90	E   F   K   G   E   Q   N   Y   S   P   G   E   N   A   K   D   I   K   K   R   S   P   L   T   F
UniRef90_H2ZZL8	E   L   I   S   V   T   A   G   P   K   E   T   P   G   K   Q   V   L   S
UniRef90_Q9U5D6	A   L   Q   S   V   T   P   S   P   P   S   V   T   I   S   Q   P   R   I   I   E   K   I   V   Y   E   Y
UniRef90_R9RZN5	R   L   L   T   S   S   D   V   P   T   P   D   I   V   S   R   G   H   L   V   Y   E   T   P
UniRef90_Q9GSG2	K   Y   L   S   E   S   S   E   H   S   S   D   I   L   E   G   N   M   V   R   K   S   L   L   Y   D   Y
UniRef90_A0A034W413	I   L   I   Q   G   E   E   N   Y   N   Q   A
UniRef90_UPI0001CBA42B	T   R   T   R   E   K   I   N   R   F   A   R   K   Q   D   S   S   R   V   Y   S   E   I   A   Y   E   F
UniRef90_U3KDI1	Q   L   V   S   S   P   A   M   P   G   P   A   E   V   S
UniRef90_H2UES4	T   L   L   V   G   T   E   A   G   P   L   E   A   A   G   K   D
UniRef90_D6W7J2	T   L   L   V   S   M   D   E   Q   N   Q   E   F   E   Q   V   S   N   P   V   N   V   G   L   V   Y   H   Y
UniRef90_I3KA5W5	K   L   V   G   T   E   A   G   P   L   E   A   A   G   K   D
UniRef90_I3KBH0	T   L   L   V   K   V   S
UniRef90_H0WRU7	E   L   R   T   T   E   A   G   P   R   L   R   P   G   K   Q
UniRef90_UPI00042CDA15	S   L   L   E   V   P   L   D   P   A   V   T   E   D   G   G   D   L   T   P   S   S   L   L   Y   E   W
UniRef90_G6DES6	T   L   L   S   G   T   Y   A   G   G   I   A   G   I   C   N   K   R   R   S   I   I   F   E   N   P
UniRef90_W8B060	E   L   L   L   S   E   E   S   D   I   N   E   K   F   L   N   E   V   E   R   R   S   N   L   L   F
UniRef90_H0YZ32	E   L   L   K   S   V   Q   A   G   M   G   L   I   A   A   K   Q   V
UniRef90_K7FKI4	E   L   L   K   S   T   E   A   G   P   R   V   I   A   G   K   Q   I
UniRef90_B4M9H4	R   L   E   G   E   D   T   Y   S   I   S   E   N   I   E   L   V   E   V   R   R   S   A   L   I   F
UniRef90_K1QMJ1	T   F   V   S   S   K   S   T   G   T   T   T   R   I   A   E   V   V   N   R   R   D   T   L   L   F
UniRef90_W5N3E0	E   L   V   K   T   E   S   G   P   Q   E   S   A   G   K   D   V   G   S   I   I
UniRef90_N1PB39	T   C   I   E   A   N   E   Y   S
UniRef90_I3JFT0	T   L   L   R   A   T   A   K   I   N
UniRef90_UPI000328DE4B	K   L   E   D   T   P   K   I   N   S
UniRef90_W4YJT9	T   K   T   D   V   R   S   T   I   S   S   S   L   S   S   E   F   A   R   R   T   S   L   L   Y   E   D   P
UniRef90_Q95P34	V   L   R   F   Q   S   K   T   D   Q   I   P   P   S   V   S   Q   L   P   R   K   T   L   R   Y
UniRef90_UPI0003F0F77B	E   L   K   T   T   E   A   G   P   R   L   M   S   G   K   Q   V
UniRef90_E9H8Q4	T   L   E   K   M   E   S   I   G   S   R   A   A   P   S   S   P   K   E   H   K   T   L   S   Y   V   W
UniRef90_E9GVW1	Q   L   V   D   I   K   N   Q   N   S   E   K   V   P   A   D   V   K   H   Y   T   S   L   T   Y   A   Y
UniRef90_T1DJQ0	T   L   L   H   E   E   R   M   A   K   K   E   P   P   A   E   D   Q   K   V   F   V   N   L   V   Y   S   Y
UniRef90_B4YAJ3	V   L   L   I   K   V   K   S   G   D   F   T   P   L   P   K   P   N   Q   P   K   K   S   L   V   Y   E   Y   P
UniRef90_F1QQ87	T   L   L   V   G   V   S
UniRef90_UPI000454AF37	F   L   L   L   G   V   E   A   A   P   S   A   G   D   S   G   D   L   Y   A   T   N   L   L   Y   E
UniRef90_UPI0002041CE	S   L   L   S   H   E   M   G   T   D   P   D   D   R   D   D   E   D   M   T   P   S   S   L   L   Y   E   W
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UniRef90_E2A9P3	D   L   H   S   V   V   P   T   M   E   T   P
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UniRef90_E9H082	T   L   Q   A   V   R   H   A   S   S   S   S   P   P   K   D   L   D   S   I   G   S   L   V   Y   S   F   P
UniRef90_A5A3J2	E   L   E   S   V   E   Q   D   S   E   A   E   W   E   K   P   E   G   S   R   K   N   L   L   Y
UniRef90_S4SBK7	R   F   E   S   E   T   D   P   P   A   V   S   Q   L   P   S   R   F   I   R   K   T   L   R   Y
UniRef90_Q7Z1M0	T   L   L   D   R   M   N   Q   I   S   P   M   S   A   S   N   N   L   V   S   T   G   N   L   V   Y   I   Y
UniRef90_UPI0004419B78	E   L   L   K   S   T   E   A   G   P   R   M   K   A   G   K   Q   K
UniRef90_V4A9P1	T   L   L   I   D   A   T   D   I   K   S   S   T   P   I   P   A   V
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UniRef90_D2A691	E   L   E   S   A   E   Q   D   S   Q   P   E   W   E   K   P   E   G   N   R   H   N   L   L   Y
UniRef90_Q59IU2	S   F   E   K   K   E   A   I   R   S   W   A   A   P   S   S   P   K   K   Y   K   T   L   L   S   Y   V   W
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UniRef90_E2BDX3	T   L   L   K   S   T   K   D   V   S   E   K   E   I   A   G   D   K   Q   V   Y   Q   T   L   N   M   E   L
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UniRef90_UPI000441A08F	E   L   K   T   T   E   A   G   P   R   L   I   P   G   K   Q   V   S   I   L   Y
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UniRef90_Q0GGP8	V   L   L   S   S   M   N   R   T
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 L Q G R A H Q R S G I T L E S T A V V E V  
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UniRef90UPI00026527B6	I S N C E L L E L S V H N M V L S G	P D G K K Y P C Q G	
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UniRef90_G6DGS4	I D D A S V A F P T L T K I D A K S F	H D I E H H E F H Y A S N E H N G A	
UniRef90_C3Z5A2	M T P N T L Y G T L R E L Q Y A H K E E	H D I E H H E F H Y A S N E H N G A	
UniRef90_U6NLD9	E N I N L W T L R G E L E T P E E Y K G S	F K H D L F E S S R E S W W E F R K Q	
UniRef90_B0WKS6	S L S N A Y Y V K L L N N I K Y G L Y N G	M V I D H Q P I E V I H E L G E D A Q Q	
UniRef90_F4WXZ6	K D S N V L A K W N G Q Y A R V Q Q S M	P D G W E T I S M L E L R D L P I	
UniRef90_G9M4L6	I S N C E L L E L S V H N M V L S G	P D G K K Y P C Q G	
UniRef90_Q7PUR8	K P D H T H F K I V D F E S D T F H E D	H I D I E H H E F H Y A S N E H N G A	
UniRef90_T1HS9	M T P N T L Y G T L R E L Q Y A H K E E	H D I E H H E F H Y A S N E H N G A	
UniRef90_U3I8Z4	E N I N L W T L R G E L E T P E E Y K G S	F K H D L F E S S R E S W W E F R K Q	
UniRef90_I3N8H0	S L S N A Y Y V K L L N N I K Y G L Y N G	M V I D H Q P I E V I H E L G E D A Q Q	
UniRef90UPI0004626E3F	K P D H T H F K I V D F E S D T F H E D	H I D I E H H E F H Y A S N E H N G A	
UniRef90_F1KPM2	E N I N L W T L R G E L E T P E E Y K G S	F K H D L F E S S R E S W W E F R K Q	
UniRef90_V9KD53	S L S N A Y Y V K L L N N I K Y G L Y N G	M V I D H Q P I E V I H E L G E D A Q Q	
UniRef90UPI0003319258	K P D H T H F K I V D F E S D T F H E D	H I D I E H H E F H Y A S N E H N G A	
UniRef90UPI0004571E77	M T P N T L Y G T L R E L Q Y A H K E E	H D I E H H E F H Y A S N E H N G A	
UniRef90_H9KD98	E N I N L W T L R G E L E T P E E Y K G S	F K H D L F E S S R E S W W E F R K Q	
UniRef90_V5ICY8	S L S N A Y Y V K L L N N I K Y G L Y N G	M V I D H Q P I E V I H E L G E D A Q Q	
UniRef90_W5MCA6	K P D H T H F K I V D F E S D T F H E D	H I D I E H H E F H Y A S N E H N G A	
UniRef90UPI0002989208	M T P N T L Y G T L R E L Q Y A H K E E	H D I E H H E F H Y A S N E H N G A	
UniRef90_K7INV7	E N I N L W T L R G E L E T P E E Y K G S	F K H D L F E S S R E S W W E F R K Q	
UniRef90UPI000344698D	S L S N A Y Y V K L L N N I K Y G L Y N G	M V I D H Q P I E V I H E L G E D A Q Q	
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UniRef90_W4VW12	M T P N T L Y G T L R E L Q Y A H K E E	H D I E H H E F H Y A S N E H N G A	
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UniRef90_W4VRP6	K P D H T H F K I V D F E S D T F H E D	H I D I E H H E F H Y A S N E H N G A	
UniRef90_V9PA92	M T P N T L Y G T L R E L Q Y A H K E E	H D I E H H E F H Y A S N E H N G A	
UniRef90_C3XPX0	E N I N L W T L R G E L E T P E E Y K G S	F K H D L F E S S R E S W W E F R K Q	
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UniRef90_B4PW44	S L S N A Y Y V K L L N N I K Y G L Y N G	M V I D H Q P I E V I H E L G E D A Q Q	
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UniRef90_W5J7X7	M T P N T L Y G T L R E L Q Y A H K E E	H D I E H H E F H Y A S N E H N G A	
UniRef90_B3RVW0	E N I N L W T L R G E L E T P E E Y K G S	F K H D L F E S S R E S W W E F R K Q	
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UniRef90_T1L4N5	S L S N A Y Y V K L L N N I K Y G L Y N G	M V I D H Q P I E V I H E L G E D A Q Q	
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UniRef90_Q29CT0	M T P N T L Y G T L R E L Q Y A H K E E	H D I E H H E F H Y A S N E H N G A	

50                    60                    70                    80

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

90                  100                  110                  120

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UniRef90_H2MYR6	L T K P F L V H L K N G K T K A F Y S Y W T E P A V I K N L K R G L A S L L Q F			
UniRef90_H9GIT0	L L K R P V V L H W I R G K I K T F Y S Y E K E P A V I Q N L K R G L I S A L Q V			
UniRef90_W0M288	L L D K P F E I S V E G G R V V L G L N L P S V F Q L S H E N L K K G L I S A L Q V			
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UniRef90UPI00021A7CD5	L L L N P F L V I Y E N G H L E G V K F Q A E D E P G W S K N V K K G I V S M L Q L			
UniRef90_E9GIR4	L L E K P F K I S F L N G K I T G F D A D A S D A E W S I N I K K G L A T K L Q M			
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UniRef90UPI0003C916BB	L L Q R P V V L L H L V H G K V K E F Y S Y Q N E P V A I E N L K R G L A S L F Q M			
UniRef90_V5IBI4	L L E R P F A G T F N E G K V E H Y E L G K D E P I L W S H N I K K G V L S L F Q L			
UniRef90_T1KSY0	F S Y Q D G S I A S V C P S P E D S N W S I N I K K A I I S A L Q V			
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UniRef90_A0A026W329	I I Q D P F F V I V Y D E G K F Q G I K V P E T E N V W S K N I K Q G I A S M L Q L			
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UniRef90_Q25490	I I E K P V R V F S Y Q D G R V G E I I C A A E D D S R R S L N I K R A I I S L L Q A			
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UniRef90_L9L2M6	L L H H P L R R F V L H E G H V A R L I C P H P A E P R W A L N V K R A V L S L L V Q			
UniRef90_S4PIN1	V V R F N L E D G R V G E I I C A A E E G D S R A S L N I K R A I I S L L Q T			
UniRef90_C3YTM4	V V D L P F Y M N L L G E V V T S V S P K L D G P L H V L N L H R D L L S M L Q L			
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UniRef90_V9P1K5	L L G T P V E F S M Q N V S Q V K I S R D E P Q W S A N F K K A L I S I L K I			
UniRef90_G6DGS4	L L D K P F E I I Y I E G G R I L S V K L P F S V T L M Q E N L I K G L I G S L Q V			
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UniRef90_U6NLD9	L L E L P V L F I I Y E N G M V S G L V L S D G E Q T W S A N V N K R S I I I N M L Q L			
UniRef90_B0WKS6	L L T K P V Q F T T L S N D E L P E I C T E S D D S E F S L N V K R G I I S L L Q S			
UniRef90_F4WXZ6	S S G K P F E V T M K H G V I R D L L V I N R D I P T W E L N L K S F V S S L L Q I			
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UniRef90_Q7PUR8	I I S K P V Q F T L S N D E L P E I C T E A D D T D F S L N V K R G L I S L L F Q V			
UniRef90_T1FHS9	L L T K P V I K F Q Y D D Q G V I D I F H A S D D S D W S I N I K K G V I S A L Q L			
UniRef90_U318Z4	L L Q Q P V I F I S W S S G G K V K A L Y G D E A E G T L I S N I L K R G I I A S L L Q L			
UniRef90_I3N8H0	M S Y E L R R L G V P E G K K V F L L Y P E K G E P K H I L N I K R G I I I S A L L V			
UniRef90UPI0004626E3F	V V K D V T F Q H R N G H V E D I S A P A Q I S E F A F N I L K G I L N L H E Y			
UniRef90_F1KPM2	R R H P L R F G F D D G V V V G V C P S E G D P V W S V N L K R A V L S T F Q S			
UniRef90_V9KD53	L L Q S P V L I I H W I I N G K V V E S F Y T H S N E P L V I Q N I K R G L I A S S L F Q L			
UniRef90UPI0003319258	L L Q R P M L L H L V H G K V K E F Y S Y Q D E P V V A I Q N L K R G L I A S S L F Q T			
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UniRef90_V5ICY8	E E K Y P V L F H M E E G L I G D V R H D P S E L L P W A M N I K R A I M S M V Q M			
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UniRef90_C3Z052	L L E K V I K F R Y E E G D V K D I E A R K D E P Q W S V N F K R G V L V L L Q L			
UniRef90_E9HQJ1	L L S K P F H L L Y S S S G K V V E G A F P D D K E P L W S T N F K R A I A S I L Q V			
UniRef90_W4ZKG3	S A H D V V Y R T D K G R I I T E V V A H P D E P I H I L N A K R G I L S M I Q L			
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UniRef90_B4PW44	I I Q K P V H F T L S N G Q V E E I C T D A G D S A Y S L N I K R A I I S L L Q S			
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250    260

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

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

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 Q T A N V L A A A L V I D D I T L L N N K F L Q N K E M Y P P Y K  
 V W R N L I H L Q I D E V K F L N I S E R E E N K N I F K D I S L G Q E N V A A  
 I G T C K Y L F E V Q R C V F S S G G P P R D K R F W I Q D E D L L E L  
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 N G N C G Y T L Q V G S V K V I N T K E S V E R K I L N N  
 N E D Q L I T G K V T E A Q F S P V N T Q F G W D E S V P D E K L H W D V V P M  
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 Q S E M A A A L V I D D V T L N N S E K F L Q N K E M Y P P Y K  
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 E G N C G Y T L Q L S A V K V S A T K E A I E K K I V Q N  
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 L N I T R T S L R G M D V G N E W S H L  
  
 R W D Q I E M Q F E E A E F N V S D R R K K D N S F Y S T R R S K A L R S  
 V A P G Y L L A K L T N S V Y A Q V Q D E K V T F S V L P S D L K Y Q P V Q I  
 A R K C E G L L K I D H C D L Y D R Q P G A D V L Y N K S A K S D S F S K Q M  
 V S P C L F S F K L L S D V D L Q G V S V A N R Y A F K E A L  
 K P D G T H F K I V N F E A D P F N S D H I D V A H H E F N Y L S N E H V G D  
 L W Q N R Q Q L L L I K M Q P Q L L V I K P K G K N L F E G H P S M L D S I P  
 T A Q G L L Q A K L E E P R R A Q F H Q K L D N K M Q I P A D L K Y T N V V N  
 E G N C G Y T L Q L S A V K V L A A K E A A E K K L V Q S  
 Q S E L V L A A A L V I D D V T L N N K F L Q N K E M Y P P Y K  
 V R E G E Y L A K F T Q F T L G K Y D K I N R N I R D E T L G N L K P E Y E Q Q  
 N D Q N F T N F Q I K E F K T S E N Q Q E F P W  
 V W K N E L L G K L E I L E C K L T S A V P R N D A D N V F S G A P C N Q V T  
 S T E E Q L S L R F K I S S I A N Q L G P F T E P T E A T D P N Y G  
 P S G N G T F V Y F D Q P K V F L Y T G H L P L P V E P T D A N Y T Q Y A K Q A  
  
 L L S T K G K Q F N E D V M E K Y S E V D P G Q E V R D Q E H  
 L W R N P D G D D D Q L I Q I T  
 I I D D R Y I H L Q L T D V T Y S A S H I P W P K M E S L E Q R E L S D E L R K F  
 L T S S S M T M K F E N P T L L S L N G Q L P E D M F K P L N G E E G R L R E F  
 K E D G K L T A K L T R Q G Y F H I H S N M S R G  
 K Q G A E A I L K L S D L T L G M H N G D  
 L T P C D M A I S I K N P S I G G G S G  
 N P N A T H V R I T D L T Y K L Y N G I L D H V R E H E A H S V P V Q I H D  
 W N L C K F Y L Q L S K V T F H Q S L G E S E R F E P L P A Y D L A N R L  
 L W R N L I K I T M K N V N V E H A N E H K G G Q N I F K G K N S Q R D N L A S  
 L S T C D Y S V E L R N V A I N G I P D A R A R E E  
 G E I F R A G E T Q L L K V Q V T T A S S S F S R P E V K G E L V K L  
 T G P K F S L R E L S L L V T E F P K I W P G D S F I P S P E L I Q S L V T Q  
 T Q K C G A I L L Y V K N L E I T Q G S K T Y G H A D L R E L  
 L W R N L A Q I Q I Q D L K V Y H D S K H E K S S Q N V T G D P S L G K E D T A E  
 P H L C K F I M H T R G C T L R P A P S S D A F Q A A M  
 P T G N G T F V Y V L V D P K V Y V Y T G P L M I K G D L P Q V K T A E K S F E V  
 E P N C G Y T L Q I G A F K V S A A E I Q K K I M Q N  
 L W R N D Q E E Q L L H V K I K D L K F T T D S S D A T T K P L A V E E L D G G  
 P Q L C S F I L K T S Q C T L R E M F G V E G K R L L K K S K N S D D F A R A M  
  
 V W Q N E L L M S N P K L S I R S R K A Q Q P D G F V D H S S P L D D T E S T A  
 V W S N E L Q L H L E K P R V Q V A S K S G R V E S S S L D S L  
 V S D C E A V L R L Q N V A L D G V P N G A E L A A E L  
 N S N A T H V K I T D L S Y K L Y N G I L N H V Q E H E A H S V P L H L K E  
  
 M  
 T S S K V L G L H L G H V Q T G S F D K E V E D I E N R R V E G V S R T I D E M  
 M M Q I R N P Q K R L S P Q K E H S V Q H L K S L R E S L E R  
 K S S D T I L Q A V V S E M Q H A S V N E I L P D I S D E I T N V E F R K L S L  
 P E E I L I H G T L S S M Q Y A K I N R D L G W S E Y I P S L S V N W I N L P M  
 Q K K N R I L N M V V F D A P K N V G A D E D W K K T F V L M R G  
 L W G E S E E K L L K Q L H R S R K A P S P D G F I E H S S K L E E F  
 P D D H N A L L K L R E I R F A E R K E N F K N I E D L Q I H E I T K K H M E L  
  
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UniRef90_G3T3D1	R Y E L L R L T T P E G E Q V L L Y P E K E E P K H I L N I K R G I I S A L L V			
UniRef90_G0KUS2	L E M P V Q F V Y K N G M V A E L Q F S E K E E A W S A N I K R S V I N M L Q I			
UniRef90_B4NBA8	P F K I V L S N G T I S H I I F K E G D P I W S M N F K R A I A S I L L Q F			
UniRef90_A8R5V1	Y P L L V V A V S D G R L Q H V C A H P D D E G W A I N I K K G I A T M F Q N			
UniRef90_B4MEZ4	I Q K P V H F T V A N G Q V D Q I C T D A S D T E Y S L N I K R G I I S L L Q			
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UniRef90_UP10003F0993A	E K N S I Q F K Y I S G H V T S V K A N P S E L D W V L N M K R G I V S S L L Q V			
UniRef90_B4JT44	Y K P F K I I L R N G L I S H V F K E G D P I W S M N F K R A I A G T L Q F			
UniRef90_S4RRZ4	L Q V P T L V L I T Q N K V E G L Y V E P G E P V V V E N L K R G L V S S L L Q F			
UniRef90_T1PJ31	P F K I A L S E G A I K H L V F K E G D P I W S T N F K R A I A A S M I Q F			
UniRef90_A0A034VG14	I Q K P V H F I L V N G K V E Q L C T D P N D N Q Y A L N I K R A I I S L L Q S			
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UniRef90_B7PH02	E K Y P V L F H M E E G L I G D V R H D P S E L P W A M N V K R A I I M S M V Q I			
UniRef90_F6XQV0	I S K P L I F R W T N Q G I S E L Y V N S A E T V T S L N V K R G M L L G L L Q F			
UniRef90_A8CMX8	S D Q P F E I F V K G G R V K A F S V P K T L S V I A H E N L L K G L I S A L Q V			
UniRef90_K1PQE5	S K H S V Y F Q Y H L G E V E G I V T S E V E D P A I L N I K R A I I L S S S L Q L			
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UniRef90_T1P65	S N P V V F A L D E G R I T H F F A T S N E D I D L L N L K R G V V S S L F Q L			
UniRef90_Q25265	L D Q P F E I S F D G G R I L S L R L P E V L S V A N E N L L K G L I S T L Q V			
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UniRef90_UP1000359E3F8	L Q H P L H F S F R D G K V L K L C P V R S E Q T W A L N I K R G I L S V L Q			
UniRef90_T1K9M3	L T S E F V G N Y N N K G V K E I K V A S N D G R S A V G L K K S I S S S L F N V			
UniRef90_Q7Q4F1	F V Q P F Y V T Y D K G M V Q E V F T T K T D V L W S V N L K K G V A G M L Q L			
UniRef90_T1HM72	K F Y F E D G T I S Q I C P D E N E S I W A L N I K K G I L S S F Q N			
UniRef90_E9GVW7	L E K P F Q V K F V A G K V E T V S I G K E E P L W I V N F K R A L A A Q I Q L			
UniRef90_L5K4W2	V K N F Y S Y E N E P A A L E N L K R G L A S L F Q M			
UniRef90_E3LD15	L E L P I R V Q M R N G L I S E I I Q S S S E D A E W S K N E K R S I V N L L S L			
UniRef90_H9CCF9	L S K P V K F T Y I R G S F S N V Q T E S D D P E W S V N I K R G L L S L G V I			
UniRef90_UP1000258E3A9	W D E S I L D I V I V E E D V P N W E V V L L K S I I S Q F Q V			
UniRef90_E9GNS9	L F N T I K F L K K P D L I T G F Y V E S S D V E W S V N I K K A L A S K L Q M			
UniRef90_V9XZL5	E K Y P L V V A I T D G R V L H A C S H P E D D V W S I N L K K G I A S S G F Q N			
UniRef90_D6WJX6	L E H A F R V V Y D N G L A I G I A T N G Q E K E F S R N I K K A L A T I L Q M			
UniRef90_UP10002B47D70	T K Y P L L F Y M N E G H V I K V Q P S E S T Q P D V L N I Q R G I L S M L Q V			
UniRef90_F6RCQ3	L E K P V L L H L M H G K V M D Y V Y S P N E P V A M E N L K R G V A S S L F Q M			
UniRef90_T1K0W4	A A H P L R R F A T D G E V T D T C Q H P E D H E W A I N V K K A I V S S F Q V			
UniRef90_K1Q6R4	I K Y P I Y F E Y T D G V I G R V Y T S E V E S I F C A N V K K G L L S L F Q L			
UniRef90_F6ZUB9	L L Q P L K F R S R G W I G S R Y A P D S V S N A A L N I Y R G I L N V L E I			
UniRef90_J9JJT7	E G H P V L F S Y N N N G K V G N I C S L A K D T A A S M N L K R A I I S S S L Q V			
UniRef90_M7BTS3	L Q L P V F F L H W N N G K L T A V D A S Q E S D E D K R M I F R L S R A V F Q V			
UniRef90_UP10003AFE41F	E R N P L K F T L Q G V S N I Q L Y P D A D E A I I G I L N I K R G I V S A L M V			
UniRef90_Q16Y0C0	I K L P P F Y V T Y D K G M V H E V F T V A E D T L W S I N I K K G I A A A L Q L			
UniRef90_Q2PZ04	I Q K P V H F T M V N G K L S E L C A D G G E N S Y S L N I K R A I I S M F Q S			
UniRef90_W5KYZ7	L D Y A V I V H M N S G K I Q G V F D T T E D N T A S L N F K K G L V S S L L Q I			
UniRef90_M7ANL9	A Q Y E L K F S T Q D G K K V Q L Y S E K N E P M N I L N I K R G I I S A L I V			
UniRef90_G1N0Z2	L E K P V F I S W S S G K I K A L Y G D E T E S T L I T N L K R G V V S S L L Q L			
UniRef90_E9FU58	V Y I D W N D G K I S N I Y A F E S E S I S I L V N F K K G I A S S L F Q L			
UniRef90_U4U3N1	E N Q P F V L V L K G G K I D R L F M G K R E T V S M K N M K R G L A S S L F Q T			
UniRef90_Q8N0N0	A A K P F A F G Y F N G R I I L G V C P A D D D Q D W S L N V K K A I V S S L Q A			
UniRef90_Q9NDN7	L E H V F K I I Y D K G L A I G I V T E A Q E K E F S R N I K K A I A T I F Q M			
UniRef90_A5WUQ7	E K N P L K F T V T K G E I R L F P E K G E R A N I L N I K R G I I S A L A V			
UniRef90_I7AQAA8	I S R P V F V F S Y Q E N E V Q K L Q A P Q G M P E E I V N V Y R A I A A M F Q G			
UniRef90_UP10003BD6F9E	T R L K F S L Q R G K V T A L C L Q E G E Q V W A L N I K R A L L S M F Q T			
UniRef90_W4VW02	S E K P F E I K I K R G L I R D V L I D Q D V P T W E V N L L K S I V S Q L Q I			
UniRef90_A0A024BTN3	S G Q P F A I H L N H G E V S R L I V D E A V Q L W E V N M I K G V L S Q L Q V			
UniRef90_A7T2L9	U N I S S N P T T S P V V L N I K K A M A S V F Q V			
UniRef90_D6WXA1	S L K P F Y V T W R S G K I G K I L L P K G E P K S L A N F K K G I A S S L F Q F			
UniRef90_W2SQP9	L E L P V K F G Y R D G M V S E L Q F H S N D E T W S K N V K R S I I N M L Q L			
UniRef90_K7N7V1	U n i t e d N a t i o n s O b s e r v a t o r y			
UniRef90_V9NJZ2	F R Y P V R F V F N A G K V V K Y E V S S E V P T W A H N V Y K A L L T L L Q N			
UniRef90_V8P6J4	L K R P V F L H W I R G K I A K I A Y F G F E E G T V T G F C P A E T D D P F A W N V K A A I I L S H L Q A			
UniRef90_W6UHB7	L Q R P V L L H L I R G K V K G F W F H I F L L Q L A L E S I C E N A S L F D M			
UniRef90_UP100038BCEC2	T H R P M Y A L K F K D D E I V R V W V A S N D D P T Y L N I K K G I A S M F Q Y			
UniRef90_UP100026590E6	L E T E F Q V V L Q N N T V Q S L G Y P S N V S H W A V G V H K G M A S I F S L			
UniRef90_E9H631	S D Q P F F A H W R N G H I K N L Y V S S A N S L T E E N F K K G I A S S L F Q F			
UniRef90_J9K7B2	F E K P V V F T V I E Q L K V T T I E A P E D L P E T V V N L L Y R G L A S V L T V			
UniRef90_A8WAA7	L E K P F R V V I M N E S H P S Y M E G P E E P L W I S V N V R K G F V N I F R V			
UniRef90_Q9U572	L S R P I N F L Y V Y R G N V R E I K Q K E A D D P E W S V N V K K G L L I S I L L E V			
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UniRef90_A8DR94	L E K P F R V V M N E S G I P D H M G G P D E P V W I S N M R K A F V N I F R V			
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130                  140                  150                  160

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UniRef90_B4JZN6	D T G S D V A S E V D V Y G C P T H T S S S K S G N A E T V I K V		
UniRef90_O76823	V V D E D K K V Y R V F E S T V T G R C E A L Y E V D H L Y P T T Y L R I M K T		
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UniRef90_G0KUS2	N L H K E N D F F N A N E R T I E G D C E V A Y T V L K K K D D I T E V T K S		
UniRef90_B4NBA8	Q M K S S G A F V I D E L G I H G K C Q T E Y F I S N K T N Y I S I R K T		
UniRef90_A8R5V1	S L P S L T Q I N N F T E S D V V G R C P T R Y E V E G E G Q K V V V R K E		
UniRef90_B4MEZ4	S E T G T D V T N E V D V F G Q C P T H T S T S K S G N V E T V T K V		
UniRef90_T1J6R0	T I N T G R K R R H R N D V D I F G N C P T L F T I Q P G W K T T L I N R E		
UniRef90_B4L7C7	S H T G T E S A S E I D V F G S C P T H S S T A T S G N G E I L T K V		
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UniRef90_S4RRZ4	Q L S S G E A T E I D V S G K C K V T Y E V V N S G Q V T K V		
UniRef90_T1PJ31	Q T K K S G A F V V D E M G I H G E C Q T E Y F I S N K T N Y I S I R K T		
UniRef90_A0A034VG14	N T E D G A E V D V F G Q C T T H T S V S N V A G S K V V T K V		
UniRef90_K7IXR4	P R T T L D A N S I V S E T D I F G T C E T K Y S P A N G G I L K K S		
UniRef90_A0A044VFR3	Q T H T G Q R K E D D P S G S C L V S Y V T D G T E V Q K I		
UniRef90_B7PH02	D L E S F Q G Q F K K V E A D L S G E C E T L Y T V S P A S E E A P E V I K S		
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UniRef90_A8CMX8	P R T A I D A N S I V S E T D V F G T C E T R Y T P G N V G R S G G T V T K S		
UniRef90_K1PQE5	D L H H D E K K Y R V K E D G L H G L F E H D V Q Q V T G E T T T		
UniRef90_A0A023G6U3	Q Q V T G E T Q E I D A S G K C S V H Y K I S G K N S E D G I L F S K F E T D V T G D C E T V Y S V V S P A S D S A P I Q I T K S		
UniRef90_A0A023G2N9	N S E D G I L F S K F E T D V T G D C E T V Y S V V S P A S D S A P I Q I T K S		
UniRef90_T1P65	N S E D G I L F S K F E T D V T G D C E T V Y S V V S P A S D S A P I Q I T K S		
UniRef90_Q25265	N S E D G I L F S K F E T D V T G D C E T V Y S V V S P A S D S A P I Q I T K S		
UniRef90_W8BIF3	N S E D G I L F S K F E T D V T G D C E T V Y S V V S P A S D S A P I Q I T K S		
UniRef90_Q9VF24	N S E D G I L F S K F E T D V T G D C E T V Y S V V S P A S D S A P I Q I T K S		
UniRef90_UP10002659406	N S E D G I L F S K F E T D V T G D C E T V Y S V V S P A S D S A P I Q I T K S		
UniRef90_J9KIR8	N S E D G I L F S K F E T D V T G D C E T V Y S V V S P A S D S A P I Q I T K S		
UniRef90_UP10001CBB3A6	N S E D G I L F S K F E T D V T G D C E T V Y S V V S P A S D S A P I Q I T K S		
UniRef90_UP1000359E3F8	N S E D G I L F S K F E T D V T G D C E T V Y S V V S P A S D S A P I Q I T K S		
UniRef90_T1K9M3	N S E D G I L F S K F E T D V T G D C E T V Y S V V S P A S D S A P I Q I T K S		
UniRef90_Q7Q4F1	N S E D G I L F S K F E T D V T G D C E T V Y S V V S P A S D S A P I Q I T K S		
UniRef90_T1HM72	N S E D G I L F S K F E T D V T G D C E T V Y S V V S P A S D S A P I Q I T K S		
UniRef90_E9GVW7	N S E D G I L F S K F E T D V T G D C E T V Y S V V S P A S D S A P I Q I T K S		
UniRef90_L5K4W2	N S E D G I L F S K F E T D V T G D C E T V Y S V V S P A S D S A P I Q I T K S		
UniRef90_E3LD15	N S E D G I L F S K F E T D V T G D C E T V Y S V V S P A S D S A P I Q I T K S		
UniRef90_H9CCF9	N S E D G I L F S K F E T D V T G D C E T V Y S V V S P A S D S A P I Q I T K S		
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UniRef90_E9GNS9	N S E D G I L F S K F E T D V T G D C E T V Y S V V S P A S D S A P I Q I T K S		
UniRef90_V9XZL5	N S E D G I L F S K F E T D V T G D C E T V Y S V V S P A S D S A P I Q I T K S		
UniRef90_D6WJX6	N S E D G I L F S K F E T D V T G D C E T V Y S V V S P A S D S A P I Q I T K S		
UniRef90_UP10002B47D70	N S E D G I L F S K F E T D V T G D C E T V Y S V V S P A S D S A P I Q I T K S		
UniRef90_F6RCQ3	N S E D G I L F S K F E T D V T G D C E T V Y S V V S P A S D S A P I Q I T K S		
UniRef90_T1K0W4	N S E D G I L F S K F E T D V T G D C E T V Y S V V S P A S D S A P I Q I T K S		
UniRef90_K1Q6R4	N S E D G I L F S K F E T D V T G D C E T V Y S V V S P A S D S A P I Q I T K S		
UniRef90_F6ZUB9	N S E D G I L F S K F E T D V T G D C E T V Y S V V S P A S D S A P I Q I T K S		
UniRef90_J9JJT7	N S E D G I L F S K F E T D V T G D C E T V Y S V V S P A S D S A P I Q I T K S		
UniRef90_M7BTS3	N S E D G I L F S K F E T D V T G D C E T V Y S V V S P A S D S A P I Q I T K S		
UniRef90_UP10003AFE41F	P D T E D Q Q G G R T S T V H G Q C V T L V N S S S D V A T G V T L V		
UniRef90_Q16Y0C0	P V D K K P V V F S T V E E S V Y G S V N V T Y D V E S V H D H I V V T K S		
UniRef90_Q2PZ04	N P E A K H E I D I F G E C P T R S S A K V G S I K I V N K S		
UniRef90_W5KYZ7	Q S T Y G L I T E D D A T G R C Q V L Y H T L K D D I T K V		
UniRef90_M7ANL9	P M E T E D N L K T V S M N S P L S T L L		
UniRef90_G1N0Z2	Q A H T G T I V E E D A S G S C Q V T Y T V S N N S I V V K T		
UniRef90_E9FU58	Q T S A V E L N E L D A S G S C T A T Y T N L G G R S F L K I		
UniRef90_U4U3N1	Q T D Q G G L E E T D V A G H C N V T Y T S S S V K A T K S		
UniRef90_Q8N0N0	Q L S D G N V E K A E E I D F S G R C P T E Y R K I R S Q D D N T V V I E K R		
UniRef90_Q9NDN7	Q V H H H P H S F V I K E H S I Y G H F D V D Y T I K P H Q N E I E V H K L		
UniRef90_A5WUQ7	P L L E E D R K K N T P S I Y G L C M T E Y T V L D T A T A V T L N		
UniRef90_I7AQAA8	A D H D Q W R H Y R R Y E Q G I A G T F E T I Y E L L S S P K Q N Q Q V T K T		
UniRef90_UP10003BD6F9E	S P M A S K L T L E N E T D V Y G T C I S R Y E R R G H I L K T		
UniRef90_W4VW02	D T E Q S F S E F K V M E D S V D T I Q G T C N T T Y Y P G T G S D S G L T I T K E		
UniRef90_A0A024BTN3	S K H K S M H R Y T V N E A L V T G R C K T L Y D I S D R T D R G S A Q I V K T		
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UniRef90_D6WXA1	Q I L D V E T T E N D A S G S C K T V Y H T I D T T K F R K T		
UniRef90_W2SQP9	N L H K M G R T E E M M R M E R Y E N V R E N D N D Y F T A T E		
UniRef90_K7N7V1	D Y Y K V M E P S V V G D C E T S Y Y I E T D E N D K Y M Y L T K V		
UniRef90_V9NJZ2	Q P P E V P A V A S Y Y E D G V S G Y C R V T Y E V Q S L T K N K V Y N V T K T		
UniRef90_V8P6J4	D I C G K C N V T Y Q I R Q N Q I T K V		
UniRef90_W6UHB7	D L K S L K L P S E S V E E D I S G R C L T R Y E V V S S D E E G I T F E K H		
UniRef90_UP100038BCEC2	Q L T S G K T D E E D V S G N C K V T Y Q A H Q D K V I K I		
UniRef90_UP100026590E6	Q T S S Q I K H S Q V D V S G K C K V T L K A D G S H V K K I		
UniRef90_E9H631	R Y P E S S K T Y S S M E E E V T G R C A N W Y A L E D D G K A G R Y Q L Y K T		
UniRef90_J9K7B2	Q L S N Q H A V E Y S T L G E C N V T Y S K I N E N S V S K R		
UniRef90_A8WAA7	S P D D E V V V Y K V F E H D L V G H C E T T Y H V L S D V H D S V L N L T K T		
UniRef90_Q9U572	P L H S T K L N Y G A V E E T L V G R C Q N W Y T S M K L P V N L A E E V N V Q		
UniRef90_A8VLS5	N L D K E D S M Y K V M E P S L G G E C E T L Y K V S P H T S S S D M Y L T K V		
UniRef90_F4WFP2	R T L D D E V R Q R D A S G F C D V T Y L M S G D N V I E K R K T		
UniRef90_C3ZJ90	T M K S T E K L F R I M E Q D V S G Q C E T Q Y D I R E S R Q K N L F E V T K T		
UniRef90_A8DR94	P L H S T K L N Y G S L E E T M V G R C Q N W Y S S L K Y P I A E E I N V Q R E		
UniRef90_UP1000258E524	K V F D G E V V Q E R D A S G L C N V T Y H S L G P M T V G K R		
UniRef90_I7AZ27	Q V Q R P P Y D Y K Y E D G V I A G N C K V Q Y E V F S Q P E Q G V L N I T K T		
UniRef90_W4VR27	D W H K F N T Y Y T N E E Y T T F G H V N M T Y D V Y P K S T G Y V I H K T		
UniRef90_A7TZE0	N M D K H E H F H S Q E Q S I F G D C D T L Y T V N D H K I V K S V T H T K		
UniRef90_S5GFP7	G K P E T P I V Y R R Q E E G I T G F N F E T I Y E I L S N P E N Q Q L N L T K T		
UniRef90_Q4S285	P V K N E K R S L V H T I H G H C L T N Y L V N A R T D M A T Y V T M S		

170

180

190

200

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

230

240

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UniRef90_Q8N0N0	K F D K C E Q E H M T S A I C T E K H V L V P F S H K G E Y G V T N T K Q V L
UniRef90_Q9NDN7	T L E Q G G K L G L I H E V H A L D K K V V P L R H Q Q I M T I S V M K L
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UniRef90_W2SPQ9	V S Y Y N V S E N L L E S A L F D S L T V L P V L N A G E V V V R T R L Q F
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250                    260

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UniRef90_D6REL9	UniRef90_A0A026W332	W E T G S E Y L F D Y S G L L V T G I E D A D H Q S A A V Q I I A K L T V Q S			
UniRef90_A0A026W332	UniRef90_Q7Q0P1	F P A N S E I V Y R L E A D V T L D L S A K S N Y V W T M V G Q L H V Q R Y D			
UniRef90_W8BRL5	UniRef90_T1HG10	R L Y K L T Y S T E V L L D R G K G K L Q D S G Y R I S S N V D V A L			
UniRef90_T1HG10	UniRef90_U5ELW9	F R V G T E E T F F D F S N V V H V G N G K N A T V P F G Y Q T H A T V I V G S			
UniRef90_U5ELW9	UniRef90_T1GCS0	P P P K S Q H F Y E L T N V V M H D L Q R S N A E E A S Y I F R A Q L K V N S			
UniRef90_T1GCS0	UniRef90_F4WHG3	F P V Q K E L T Y F W Q V E V V S S G T V I P T V L D V S W N L E A L V T V Q Q			
UniRef90_F4WHG3	UniRef90_G7YQT5	F E L G T E R T Y S Y V N D V S I G N V E N P N K F V G Y L L K A G M K V G T			
UniRef90_G7YQT5	UniRef90_A0A023G639	Y I S G S V Y Y Y E F E S D L K T T R Q G D A D E T N A K I T G T A K I Y S			
UniRef90_A0A023G639	UniRef90_Q177S4	W E H G P E Y T F Q V Q V N C T A I P E E G I Y G S R L N L V S K L I C Q P			
UniRef90_Q177S4	UniRef90_UPI000258DD64	Q F E L G T T Y K Y S L Q S D V F L A A P R P A G K T S G L R A A A A V T C L W			
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UniRef90_UPI0002034E08	UniRef90_I3M7X3	R L Y K L T Y S T E V L L D G G K G K L Q D V V G Y R I S S N V D V V L			
UniRef90_I3M7X3	UniRef90_B3MU72	E S S S Q E T G Y I F E T D L H V N S			
UniRef90_B3MU72	UniRef90_G3UU60	T S Y N F D V D V T V L L N D V N R T D K E I G Y K I K A T L G V T P			
UniRef90_G3UU60	UniRef90_UPI00034F77D4	W I H G P E Y T F H V Q V N S T A I P E E G S Y I S I L N V A S K L V C Q P			
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UniRef90_H9KLW3	UniRef90_A9B2X2	T Y D V L V N T S L A N I V Q E N D N F C A M I A T E L K C R P			
UniRef90_A9B2X2	UniRef90_S4PH14	T Y D V L V N T S L A N I V Q E N D N F C A M I A T E L K C R P			
UniRef90_S4PH14	UniRef90_G5E7M7	Y R V G S Q Y D Y T W S M D V T T S G T S Q N Q T G S R I V G S V T I I P P			
UniRef90_G5E7M7	UniRef90_W4WQZ3	Y D V E S T V L L N E L E R K E K E V S Y K V K A K L N V I P P			
UniRef90_W4WQZ3	UniRef90_W4WQZ3	D S S S A E T S Y T F E T H K I N S			
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UniRef90_G6DMC5	UniRef90_E2BC25	F K T N A K I G I S L			
UniRef90_E2BC25	UniRef90_U5EQ14	I A T E L K C R P			
UniRef90_U5EQ14	UniRef90_B4LUM7	E F V P G R S Y E Y L Y Q T Q V K L S R H Q Q T N K Y S G Y K A Y T K F K V A S			
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UniRef90_UPI00042C25B4	UniRef90_UPI0003F0D8DE	F K P G F E Y E Y K I E S T S T V K N L G D F L L K A K V V E E R			
UniRef90_UPI0003F0D8DE	UniRef90_E2A017	D Q R A S Y Q L E T N L K I N S			
UniRef90_E2A017	UniRef90_T1ENH9	T F K Y E L N S I H Y V H D P H L A K T I L R I N S D I I Y L K P			
UniRef90_T1ENH9	UniRef90_UPI00022C9AD6	P Q D T E Y V Y K Y V D R T E M K H L G V F T T Q V K L S I M L L D K Q			
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UniRef90_V4A704	UniRef90_B4MV71	F K K G V D Y K Y R I D T E S K L S N V E N P F H L G A Q V S F Q H L L D T			
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UniRef90_B4J8D6	UniRef90_K7IW80	T F K Y E L N S I H Y V H D P H L A K T I L R I N S D I I Y L K P			
UniRef90_K7IW80	UniRef90_H9K974	I A F E L K C R A S			
UniRef90_H9K974	UniRef90_B4KL02	P T G S Q Q F Y Q L S S E V S			
UniRef90_B4KL02	UniRef90_C3Y7N4	L E A E Q V S Y T F D T Q L S I N S			
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UniRef90_UPI000258DE71	UniRef90_UPI00034FC964	E P N R Q Y I Y F I K A N V S S T T L A P K R S G S Y W T L E G K L Y V R A			
UniRef90_UPI00034FC964	UniRef90_Q29LY6	P P N S Q Q I F K L Q N T V S L G L S G T E E T R Y T F E T E L K I N S			
UniRef90_Q29LY6	UniRef90_E2BC26	G A E C T Y D V L V M M S L E N I V R P D D N F C S T I A S E L K C R P			
UniRef90_E2BC26	UniRef90_UPI000258E379	W K H G P E Y V F D V E M N T S T P M N H D G V Q R F N H T A M N L F C R P			
UniRef90_UPI000258E379	UniRef90_UPI000258DEAE	Y Q I G Q E F V F S V D A R H A D S L T L Q P G G G S I A L M N S T V V Y Q C			
UniRef90_UPI000258DEAE	UniRef90_L8H3W2	M T H A S S E E T S Y T F K T L L K V N S			
UniRef90_L8H3W2	UniRef90_UPI0003C3A070	W K H G P E Y V F D V E M N T S T P M N H D G V Q R F N H T A M N L F C R P			
UniRef90_UPI0003C3A070	UniRef90_H9KQA4	W K H G P E Y V F D V E M N T S T P M N H D G V Q R F N H T A M N L F C R P			

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50                    60                    70                    80

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

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

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

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

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

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

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

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

L T E T D Y V A K F L N F T L V K F D K V L G D V H H F E P H G Q E V D Y F Q Y

P T A K T A K L L V K L L N V T S V Y D K E V H D L T A P V P G L Y H H Y L Q H

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

V W G D D L L R I E L D P T L Y T P G D V K R R T S S S S

K T G R S L V L Q L L N V T S T L Y D K E V E D Q T E P V P G V Y H Q P L P V

M H G K K P V E K S F V P I V K E A E V

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

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

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

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

T E Q N S T F F K I T L L N N R T T I E D A A A

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

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

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

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

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

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

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

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

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

V W S R Q E D Q L L E I F I S E S R V L A S G K D R S I T A I

V W K S D D S E F L L K F D L R H L R G K H P T A E F L P R P S P L D S Y S E A

L D Y K A G P K

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

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

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

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

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

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

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

V W S G D D D Q L L E V F I L S G S K V D A S G K A R S I T R I

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

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

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

K I D L S P D Y Y P D Q E A I K S

V W S K D E E Q L L E I E L S K S R V S A T A Q Q K E R E I D S L

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

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

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

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

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

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

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

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

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

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

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

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

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

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

V W N D E Q D Q L L E I K L S E S H V K A Q Q R L R P I L S L

V E D D T E T G Q V C L L T V H S M I W H H G T E S A I A T Q H Y D

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

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

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

V W S Q G E D Q L L E V S F S G S R V S A P G L D H Q V E R P I S Q I

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

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

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

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

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

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

	90	100	110	120
UniRef90_V8NQB4	M Q Y E   L   K   V   K   I   Q   D   D   R   N   V   E   L   Y   P   V   D   N   E   A   T   H   I   L   N   I   K   R   G   I   I   S   A   L   L   V			
UniRef90_U6IB47	L   E   H   R   T   F   F   G   F   D   G   E   K   V   T   G   F   C   P   S   K   S   E   K   P   F   A   W   N   I   K   A   A   I   L   S   H   L   Q   A			
UniRef90_UPI0003EC602F	L   R   C     D   G   A   V   V   G   W   C   G   G   G   M   V   R   W   C   G   G   G   M   V   G   W   C   G   G   A   V   V			
UniRef90_A0A034WTV5	F   R   L   P   V   K   F   V   L   S   A   G   V   V   K   Y   E   V   S   P   E   V   P   V   D   S   V   F   C   T   N   I   K   K   G   I   A   A   F   F   Q   V			
UniRef90_E2B8X1	G   E   K   P   F   F   V   T   W   R   H   G   D   V   Q   A   L   Y   M   D   V   T   E   S   V   S   F   M   N   L   K   R   G   L   A   S   L   F   Q   Y			
UniRef90_V4B6R2	L   K   Y   P   F   Y   F   E   L   S   E   D   S   V   N   H   V   Y   V   V   V   E   H   D   S   V   F   C   T   N   I   K   K   G   I   A   A   F   F   Q   V			
UniRef90_H9KGR1	S   K   N   P   L   L   L   V   W   R   N   G   E   V   Q   S   I   F   T   D   P   A   E   S   V   S   S   A   N   L   K   R   G   L   A   S   L   L   Q   Y			
UniRef90_Q16TB5	F   Y   V   Y   W   N   L   G   Y   L   K   K   I   Y   F   G   Q   Q   E   D   A   S   L   A   N   F   K   K   G   I   A   S   L   F   Q   Y			
UniRef90_E0VGP3	V   I   H   P   F   L   V   H   W   K   N   G   K   I   N   G   V   Y   I   Y   E   K   E   N   L   S   F   E   N   F   N   K   G   I   A   S   L   F   Q   Y			
UniRef90_A0A026WL08	V   E   K   P   F   L   V   V   W   R   Y   G   D   V   Q   A   V   Y   M   D   P   D   E   S   V   S   S   A   N   L   K   R   G   L   A   S   L   F   Q   Y			
UniRef90_E5SUR6	Q   K   H   A   T   H   F   S   F   D   N   G   A   V   G   S   I   C   P   E   P   S   E   P   V   W   V   V   N   L   K   R   G   I   L   S   A   I   Q   H			
UniRef90_E1FGV3	L   R   F   D   D   G   E   V   G   K   S   I   C   P   E   P   S   E   P   V   W   V   V   N   L   K   R   G   I   L   S   A   F   Q			
UniRef90_A0A026VY54	N   E   D   Q   F   E   I   S   F   N   E   R   G   V   D   G   L   V   V   V   E   N   I   Q   P   R   E   L   D   M   I   R   M   I   V   G   Q   M   S   V			
UniRef90_V5H5G2	S   P   L   P   L   F   V   L   Q   Q   S   N   E   V   V   K   V   W   S   H   Q   E   S   L   D   S   V   N   V   K   K   A   V   A   S   M   L   Q   Y			
UniRef90_UP100021A7DAC	A   Q   K   P   L   L   I   F   W   R   N   G   N   V   N   S   I   F   M   D   T   A   E   S   V   S   S   A   N   L   K   R   G   L   A   S   L   F   Q   Y			
UniRef90_K7HMB5	L   S   M   P   V   E   F   D   Y   E   H   G   L   I   G   E   L   R   F   T   H   G   D   Q   A   W   S   E   N   I   K   R   A   V   I   N   I   Q   Q   S			
UniRef90_F1KQP6				
UniRef90_B6ZIV7	Q   K   W   V   Y   L   K   F   A   G   T   K   V   V   G   F   Y   G   T   E   G   V   P   E   S   V   L   N   V   Y   R   A   I   A   S   V   L   T   L			
UniRef90_C6K151	R   V   Q   R   V   C   S   H   P   F   D   D   T   W   A   V   N   I   K   K   G   I   A   S   A   L   Q   N			
UniRef90_Q5EG54	F   R   Y   P   V   K   F   V   L   S   A   G   K   V   V   K   Y   E   V   G   P   E   V   S   T   L   A   H   N   V   I   K   K   G   I   V   A   L   F   Q   V			
UniRef90_UPI0003598636	L   A   L   P   V   Y   F   Q   V   A   G   D   V   D   R   L   H   F   V   S   R   D   T   T   F   S   R   N   I   K   K   G   I   V   A   L   F   Q   V			
UniRef90_B7QJ67	V   Q   Y   P   V   W   F   S   L   K   Q   G   K   V   V   E   F   G   V   A   Q   E   V   R   E   G   A   L   N   V   Y   K   A   V   L   T   L   L   Q   S			
UniRef90_V9NNJ9	L   E   K   P   V   V   F   F   N   V   E   E   L   K   V   V   S   L   L   E   V   P   V   D   V   P   E   P   V   V   N   L   Y   R   G   L   A   S   V   L   S   V			
UniRef90_7QPYN7	L   L   Q   P   F   R   I   A   I   A   N   D   T   I   L   S   I   Q   F   K   L   N   E   P   L   W   S   A   N   I   K   R   A   L   A   S   L   L   Q   A			
UniRef90_B0W9T8	E   A   P   F   Y   V   Y   W   N   L   G   Y   V   K   K   I   Y   L   K   D   K   E   N   D   A   S   L   F   R   K   G   V   A   A   L   F   Q   Y			
UniRef90_B7Q7E5	F   E   S   P   V   V   L   K   L   V   D   H   S   V   E   S   L   E   V   P   V   G   V   P   E   E   V   V   N   L   Y   R   G   L   A   S   S   V   L   T   L			
UniRef90_B0W4H7	F   K   L   P   F   Y   V   T   Y   D   K   G   F   V   Q   E   V   F   T   V   P   E   P   D   V   Q   W   S   V   N   I   K   K   G   I   A   S   S   V   L   Q   L			
UniRef90_UP10002247A76	P   K   D   P   I   L   L   L   R   S   G   K   I   T   N   V   F   A   N   S   A   E   S   L   S   S   S   L   N   L   K   R   G   F   A   S   I   F   Q   Y			
UniRef90_E2A7J6	A   E   K   P   F   F   V   L   W   R   G   D   I   V   A   I   Y   I   D   S   D   D   D   N   A   S   S   A   N   L   K   R   G   L   A   S   L   F   Q   Y			
UniRef90_E9JDB1	A   E   N   P   F   F   V   W   R   H   G   D   I   Q   G   V   Y   M   D   P   T   E   S   T   S   S   A   N   F   K   R   G   L   A   S   L   F   Q   Y			
UniRef90_E9G6F7	K   I   T   N   L   V   V   I   S   E   E   P   T   W   S   V   N   M   K   K   A   V   A   S   N   L   Q   L			
UniRef90_B0W4C5	L   M   E   P   F   R   V   V   I   N   D   S   T   V   L   S   I   L   F   K   E   H   E   T   I   W   S   S   N   I   K   R   A   L   A   S   L   L   Q   A			
UniRef90_D6REL9	L   Q   R   P   T   L   L   H   L   I   H   G   K   V   K   E   F   P   Y   S   Q   N   E   A   V   A   E   N   I   K   R   G   L   A   S   L   F   Q   T			
UniRef90_A0A026W332	M   K   R   G   I   L   S   L   L   Q   N			
UniRef90_Q7Q0P1	E   S   P   F   P   Y   A   W   W   N   L   G   Q   I   K   E   V   Y   F   E   A   S   D   A   L   P   V   R   N   F   K   K   G   I   C   A   L   F   Q   Y			
UniRef90_W8BRL5	P   D   R   P   F   Y   V   S   L   I   N   G   K   P   N   K   V   I   A   H   T   S   R   D   Q   S   L   N   L   E   R   G   F   A   S   L   L   Q   L			
UniRef90_T1HG10	M   Q   L   S   F   C   G   T   F   D   N   G   D   F   T   T   I   T   V   S   K   K   D   E   L   W   S   I   N   M   K   R   A   L   L   T   L   L   Q   L			
UniRef90_U5ELW9	F   Y   A   Y   W   Q   Q   G   T   M   K   E   M   F   L   N   T   K   E   N   L   S   V   K   N   L   K   K   S   L   I   S   S   L   F   Q   Y			
UniRef90_T1GCS0	E   E   V   P   V   K   F   N   M   N   G   G   V   I   S   Q   I   C   V   D   A   S   D   N   D   Y   S   L   N   L   K   R   S   I   I   S   S   L   F   A   S			
UniRef90_F4WHG3	N   E   D   Q   F   E   I   K   F   N   K   R   G   L   D   S   L   V   V   N   E   N   I   Q   P   R   E   L   D   M   I   R   M   I   V   G   Q   L   S   V			
UniRef90_G7YQT5	S   D   K   A   V   Q   F   C   Y   D   N   G   R   I   Q   K   V   W   M   M   D   E   D   S   T   Q   L   S   N   L   K   R   A   I   L   S   H   L   Q   L			
UniRef90_A0A023G639	S   Q   L   P   L   Y   V   L   Q   Q   S   N   E   I   V   K   V   V   W   S   H   K   E   S   P   T   S   V   N   I   K   K   A   V   A   S   M   L   Q   Y			
UniRef90_Q177S4	L   L   E   P   F   R   V   A   L   N   D   S   S   V   L   S   V   L   F   K   E   N   E   P   L   W   S   G   N   I   K   R   A   V   A   S   L   L   Q			
UniRef90_UP1000258DD64	N   Q   D   Q   F   E   I   K   F   S   E   Q   G   L   D   S   L   V   V   V   N   E   N   I   Q   P   R   E   L   D   M   I   R   V   V   D   Q   L   N   I			
UniRef90_K7JYK6	A   E   E   A   F   E   I   T   F   T   P   N   G   V   G   K   I   L   V   N   R   T   V   S   P   G   D   L   N   M   I   R   A   I   V   N   Q   L   N   I			
UniRef90_UP10002034E08	H   E   L   K   F   S   T   Q   D   G   T   K   V   K   L   Y   P   K   K   E   E   P   L   N   V   L   N   L   K   R   G   I   I   S   A   L   L   A			
UniRef90_I3M7X3	L   Q   R   P   V   L   L   H   L   I   R   G   K   V   K   G   F   W   F   H   I   F   L   L   Q   L   A   V   F   L   P   F   V   R   Y			
UniRef90_B3MU72	P   D   R   P   F   Y   V   S   L   V   K   G   Q   P   D   K   V   I   A   H   S   G   R   D   Q   S   L   N   L   E   R   G   I   A   S   L   L   Q   L			
UniRef90_G3UU60	R   H   E   L   K   F   S   T   Q   D   G   T   K   V   K   L   Y   P   K   K   E   E   P   L   N   V   L   N   L   K   R   G   I   I   S   A   L   L   A			
UniRef90_UP100034F77D4	P   F   Y   A   L   W   N   G   T   V   E   T   L   Y   L   D   P   K   E   M   K   D   V   Y   N   L   K   K   A   L   A   S   L   L   F   Q   F			
UniRef90_S4NLY5	L   D   K   P   I   E   I   L   L   S   G   G   R   V   K   S   L   R   L   P   S   S   V   P   L   A   Q   E   N   L   I   K   G   L   I   G   A   L   Q   V			
UniRef90_H9KLW3	N   Q   D   Q   F   E   I   R   F   T   E   Q   G   L   D   S   L   V   V   N   E   N   V   Q   P   R   E   L   D   M   I   R   V   V   G   Q   L   N   I			
UniRef90_A9B2X2	L   A   R   P   F   Y   F   Q   Q   R   N   G   T   I   Y   G   L   Y   F   D   S   A   D   T   E   D   V   Q   N   I   K   R   A   A   L   S   Q   L   Q   M			
UniRef90_S4PH14	P   H   S   T   F   Y   A   H   W   K   E   G   L   Q   Q   V   Y   L   D   P   D   E   L   L   D   I   Q   N   F   K   R   S   L   I   S   S   L   F   Q   F			
UniRef90_G5E7M7	R   H   E   L   K   F   S   T   Q   D   G   T   K   V   K   L   Y   P   K   K   E   E   P   L   N   V   L   N   L   K   R   G   I   I   S   A   L   L   A			
UniRef90_W4WQZ3	G   D   E   P   F   E   I   R   F   N   S   K   G   I   E   N   L   V   V   H   R   S   I   P   R   W   R   L   D   M   I   K   S   I   V   S   Q   L   N   V			
UniRef90_A9W8L1	G   D   E   P   F   E   I   R   F   N   S   K   G   I   E   N   L   V   V   H   R   S   I   P   R   W   R   L   D   M   I   K   S   I   V   S   Q   L   N   V			
UniRef90_G6CW67	S   H   S   T   F   Y   A   H   W   K   L   G   L   I   E   T   A   Y   L   D   P   K   D   P   V   A   I   Q   N   F   K   R   S   L   M   S   V   F   Q   F			
UniRef90_Q961S9	P   D   R   P   F   Y   I   S   L   V   R   N   S   K   G   I   E   N   L   V   V   P   R   N   I   S   R   W   S   L   D   M   I   R   V   V   G   Q   L   N   V			
UniRef90_UP100021A659A	N   E   E   P   F   E   I   R   F   N   S   K   G   I   E   N   L   V   V   P   R   N   I   S   R   W   S   L   D   M   I   R   V   V   G   Q   L   N   V			
UniRef90_G6DMC5	L   E   E   P   W   K   I   Y   Q   N   G   F   I   S   A   I   Q   H   P   P   H   E   R   V   W   V   T   N   L   K   R   A   I   S   V   N   F			
UniRef90_E2BC25	N   E   D   Q   F   E   I   K   F   N   E   K   G   L   D   S   L   L   V   N   E   N   I   Q   P   R   E   L   D   M   I   R   L   I   V   G   Q   L   N   F			
UniRef90_U5EQ14	I   L   T   P   F   S   I   V   T   I   N   D   S   T   V   Q   S   I   L   L   K   A   N   E   P   L   W   S   S   N   I   K   R   G   I   A   S   L   L   Q   V			
UniRef90_B4LUM7	P   D   R   P   F   Y   V   A   L   V   Q   Q   P   Q   Q   V   I   A   H   T   S   R   D   Q   S   L   N   L   E   R   G   I   A   S   L   L   Q   L			
UniRef90_UP100042C25B4				
UniRef90_UP10003F0D8DE	M   T   K   W   F   S   F   V   M   T   H   G   E   V   T   A   V   Y   Y   P   E   T   E   N   M   E   V   L   T   F   K   K   M   F   V   G   L   F   T   S			
UniRef90_E2A017	G   E   E   P   F   E   I   R   F   N   P   R   G   I   E   N   L   V   V   Y   R   S   I   P   R   W   R   L   D   M   I   K   V   I   V   S   Q   L   N   I			
UniRef90_T1ENH9	L   K   S   P   F   Y   H   W   N   N   G   L   V   Q   Y   I   Y   T   H   V   T   P   S   G   E   L   N   M   L   K   S   L   I   D   T   F   Q   L			
UniRef90_UP100022C9AD6	S   E   E   P   F   E   I   K   F   S   E   N   G   I   D   R   L   T   V   N   D   Q   V   E   V   E   H   N   N   I   K   L   I   A   E   R   F   N   I			
UniRef90_V4A704	F   S   F   L   I   S   R   N   G   E   I   R   S   V   F   Y   D   Q   R   E   D   D   E   I   L   A   I   K   K   G   M   A   A   M   F   A   G			
UniRef90_B4MV71	P   D   R   P   F   Y   I   S   V   V   K   G   Q   P   H   Q   V   I   A   H   T   G   R   D   Q   S   L   L   N   L   E   R   G   I   A   S   L   L   Q   I			
UniRef90_F4WHG2	G   D   E   P   F   E   I   R   F   N   S   K   G   I   E   N   L   V   V   H   R   S   I   P   R   W   R   L   D   M   I   K   S   I   V   S   Q   L   N   V			
UniRef90_UP10003F07510	L   D   E   W   F   S   F   V   M   S   H   G   E   I   H   T   V   Y   Y   S   V   D   D   D   P   E   V   I   V   S   K   K   G   F   A   A   L   F   A   S			
UniRef90_K1Q5F6	W   F   S   F   V   I   S   R   G   E   I   F   N   V   W   Y   P   P   D   E   K   P   E   V   I   N   I   K   K   G   I   V   S   F   F   A   G			
UniRef90_C3Y7P0	V   E   V   P   F   Y   F   Q   H   T   T   G   E   V   V   G   M   Y   F   D   R   T   D   S   E   E   V   V   R   N   M   K   R   A   A   V   S   Q   L   A   M			
UniRef90_A9AX29	P   D   R   P   F   Y   I   A   L   V   K   G   Q   P   Q   Q   L   I   A   H   T   S   R   D   Q   S   L   L   N   L   E   R   G   I   A   S   L   L   Q   L			
UniRef90_B4JD86	L   R   P   F   V   V   V   Y   D   D   G   L   L   K   H   I   T   V   H   R   T   E   A   D   L   S   V   N   L   K   L   L   S   N   L   L   Q   V			
UniRef90_K7IW80	D   E   Q   P   F   E   I   R   F   N   A   R   G   L   E   N   L   V   V   S   R   D   I   A   R   W   R   L   D   A   M   R   A   I   V   S   Q   L   N   V			
UniRef90_H9K974	P   D   R   P   F   Y   I   V   A   L   V   K   G   Q   P   K   Q   V   I   A   H   T   S   R   D   Q   S   L   L   N   L   E   R   G   I   A   S   L   L   F   Q   L			
UniRef90_B4KL02	F   S   Q   W   F   S   F   E   I   S   R   G   E   I   T   V   R   W   Y   P   P   Q   E   V   I   E   V   I   N   I   K   K   G   I   V   S   F   L   A   A			
UniRef90_C3Y7N4	D   E   E   P   F   E   I   R   F   N   A   R   G   I   E   N   L   V   V   S   R   D   I   A   R   W   R   L   D   M   M   R   A   I   L   G   Q   L   N   V			
UniRef90_UP1000252B05B	G   N   A   S   F   E   I   L   F   N   E   D   G   I   E   N   Y   K   F   E   N   D   D   R   Q   Y   L   V   N   M   Y   R   L   I   A   N   H   L   S   V			
UniRef90_UP1000258DE71	L   D   Y   M   E   G   G   L   I   K   T   I   S   V   G   Q   P   E   V   P   W   C   T   N   L   K   R   A   L   S   V   N   F			
UniRef90_UP100034FC964	P   D   R   P   F   Y   I   S   L   V   Q   G   Q   P   H   Q   V   I   A   H   T   G   R   D   Q   S   V   L   N   L   E   R   G   I   A   S   L   L   Q   L			
UniRef90_Q29LY6	D   E   E   P   F   E   I   R   F   N   S   R   G   I   E   N   L   V   V   S   R   S   I   A   R   W   R   L   D   M   I   K   V   I   V   S   Q   L   N   I			
UniRef90_E2BC26	S   E   E   P   F   E   I   K   F   N   E   Y   G   I   D   Y   L   L   V   N   D   Q   I   P   V   P   V   K   N   L   N   D   I   K   L   A   E   R   L   N   I			
UniRef90_UP1000258E379	D   E   Q   P   F   E   V   R   F   N   S   R   G   I   E   N   L   V   V   S   R   S   I   A   R   W   R   L   D   M   I   R   A   I   T   G   Q   L   N   V			
UniRef90_UP1000258DEAE	L   G   D   N   M   Y   F   Q   L   K   T   G   E   I   V   K   I   W   Y   N   T   G   D   S   P   Y   F   V   N   V   K   A   G   A   I   N   Q   F   Q   T			
UniRef90_L8H3W2	P   D   R   P   F   Y   I   G   F   E   G   H   G   P   T   K   V   L   A   H   S   Y   K   D   Q   S   L   L   N   L   E   K   G   I   V   S   F   L   A   A			
UniRef90_UP10003C3A070	S   S   E   P   F   E   I   K   F   N   E   H   G   V   D   Y   L   I   V   N   D   R   I   Q   V   E   F   L   N   D   V   K   L   I   S   E   R   F   N   I			
UniRef90_H9KQA4				

130                  140                  150                  160

UniRef90_V8NQB4	P M E T E N N Q T L P M D T V Y G E C D S S I E V K N R K S N N L A N I E T		
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UniRef90_H9KGR1	R V F D N D V E E R D A S G L C T V I Y H S L G P E T V G K R		
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UniRef90_A0A026WL08	R T L D D E V R Q Q D A S G L C D V L Y V S S D E R T I K K Q		
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UniRef90_V5H5G2	Q L T P E D K Q Q V R V D V S G K C Q V S F K T N G N H V T K T		
UniRef90_UPI00021A7DAC	T V F D S D V E E R D A S G L C K V T Y Y S L G P R T M G K R		
UniRef90_K7HMB5	P E Q K K W V K Q I E Q A P E H E		
UniRef90_F1KQP6	D N A D F F T A H E R T I E G D C E V A Y T F N E S P Q E E I M R I T K S		
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UniRef90_Q5EG54	Q V E T P Q E V P T S Y E D G V S G Y C R V T Y E V H S L T K N L Y T E A T K T		
UniRef90_UPI0003598636	K E S A G Q R T E V D V S G E C Q V T Y T S P Q A G F I D R L K T		
UniRef90_B7QJ67	Q P E T F Q E L P A V Y E D G V S G Y C R V N Y E L Q S L T G V N V L N V T K T		
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UniRef90_B0W9T8	Q I L D G Q Y V I E D P S G K C D V Q Y T S H S T T R Y H K A		
UniRef90_B7Q7E5	S L K D D V V V Y K V Y E D D L V G T C E T V Y N V L S S P H D E Y V L F T K T		
UniRef90_B0W4H7	P V D K V P V Q F H V V I E E S I L Y G K V N V T Y D V E T V K E S I V V T K S		
UniRef90_UPI0002247A76	K T Y D G A L Q E T D A S G V C N V T Y K S H N P K		
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UniRef90_E9JDB1	R T L D D E V R Q R D A S G L C D V T Y V T S G E N V V E K Q K T		
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UniRef90_T1HG10	K I P E E E L S F I D E E A G I Y G K C T V E Y G V V D Y G Y K K V H K N		
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UniRef90_G7YQT5	S I D S L E L P T Y T I E N D I S G R C L T E F H P V K E E T T S V T I M K T		
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UniRef90_UPI000258DD64	G V L P G K Y R E T L M E N Y T L G E C M T D F D V D R N K D G Q V L Q I R K R		
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UniRef90_G6CW67	E A V G K E L N E T D V S G T C H V Q Y E T T S A N T V R K Y		
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210                    220                    230                    240

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

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

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

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 S R E K M Y S F T E S K G V M R T L N R P R T M R M H Q K V G L

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

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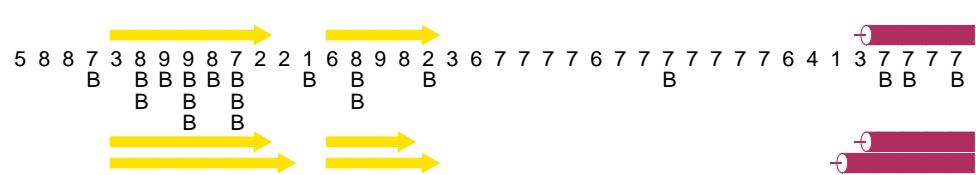
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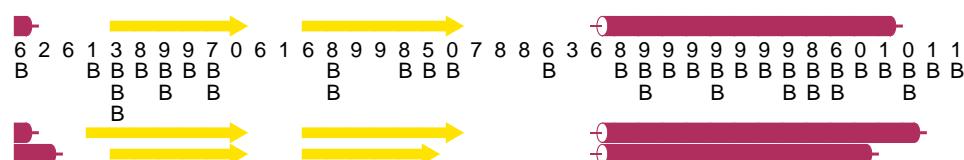
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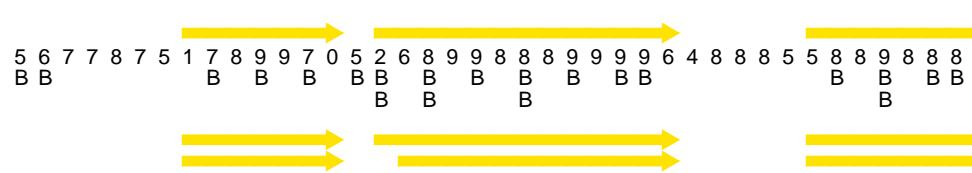
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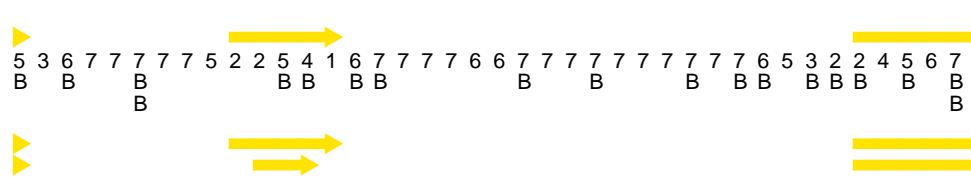
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K R K | G M P Q F M A R E N T S M G D C A T M Y R I T R  
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