

1 10 20 30 40

QUERY	V V T E K Q Q M	L E Q H L Q D V R K R V Q D L E Q K M K	V V E N L Q D D F D F N	
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UniRef90_UPI000441B3AA	S E R Q R K I E L K V S E I K N S T Q L T E Q D V K Y S E	D L Q D E F D F R		
UniRef90_W5MV12	I V F E R Q R N L D N R K I A V I R S S V Q M I E Q G V K Y L	E D M Q D D F D F R		
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UniRef90_C0HA55	V A F E R Q R K N M D N R V A V I R S S V Q M M D Q A V K Y L	E D M Q D D F D F R		
UniRef90_E7FBV9	M E L E S H R Q I E K R L K D F K T R I E V V M E H S I R C	E E Q Q D E F D F K		
UniRef90_H2ZZY6	T M S Q K H L Q I N Q A F E E L R L M T Q Y T D N D L R K I	Q H T Q E Y F I I Q		
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UniRef90_F6T2X3	T M S Q K H L Q I N Q T F E E L R V I T Q E T E N G L K K I	Q Q T Q E Y F I I Q		
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UniRef90_G1KUK7	A L S Q K H L Q I N Q T F E E L R L V T Q D T E N Q L K K I	Q Q T Q E Y F I I Q		
UniRef90_T1THR32	A M S S A A A E I T Q R L D I M R S R T D E T A E D L R R M E	Q E Q E S F A L Q		
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UniRef90_G3N618	M M I E K Q R E L D H S V K A I K S K V Q E T E Q N I K N L E D L Q D E H D F K			
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UniRef90_S9Y650				
UniRef90_S9Y650				
UniRef90_W5UDF0				
UniRef90_E9G1W0				
UniRef90_H0VLZ0	V M L D K Q K E L D C K V R N V K D Q V M S I E Q E I K T L E D L Q D E Y D F K			
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UniRef90_M3ZIM3	I M M E H Q N E L V N K V N N L K M S V Q E M E K H V Q A L E D M Q D D Y D F N			
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UniRef90_O93598	Y D F K			
UniRef90_H3ADH1	Q D E Y D F K			
UniRef90_U6DW59				
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50 60 70 80

QUERY				
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UniRef90_G1KUK7	Y Q E L Q A Q L T Q L A Q L N P	R Q E R M T R E P	Q Q K R V E L A E K H Q E T	
UniRef90_T1HRS2	Y H E L Q N Q P Q N Q T N M M E Q	M L S Q K V T G	M Q Q R I S L T E K L K V T	
UniRef90_D0VYJ1	Y H Y I Q S Q Q E R T Q Q N R E M	Q Q L M Q Q R	M A L A D K H K G T	
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UniRef90_S4RD74	Y Q E C Q N K Q N I H	H N E T K C A M E Q	D N Q I T D D L K Q R L Q F V L E Q L V S I	
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UniRef90_G0ZEM6	Y Q E I Q A Q F P P	L A Q L Q	S R E T A L L Q Q K Q Q E L A E K H Q K T	
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UniRef90_T1EM34	Y R R Q K E Q Q E	Q L L N H K	M Q L K W K E L L D N Q I T T D	
UniRef90_H9KPG7	Y Q E C Q N K Q N I H	H L Q T Q M L	D N Q I T D D L K Q R L Q F V L E Q L V S I	
UniRef90_UPI00042AC2E6	Y M I F T S S L D P H	Q N Q Q Q L	D R T R K E V L D A F K S L	
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UniRef90_UPI0003AF167B	L L E L G V S A P D S	D E K P C D	R Q E A L S K M T Q I	
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UniRef90_UPI0003333CCC	Y T I L H Q K S D T H	R Q Q Q	Q L E T A N E L D K R R K E V V M D A S K A L	
UniRef90_C6ZH44	Y Q E S K V E G P	I E A K Q R	Q K V N Q R V V E L L K T R A L L A E K H K D T	
UniRef90_R7UYT8	Y Q E S K V E G P	I E A K Q R	Q K V N Q R V V E L L K T R A L L A E K H K D T	
UniRef90_B7TQ40	Y R N L Q A Q S G N I	Q S D K Q K E	T R E A N T L Q K Y R L G L A E K H Q K T	
UniRef90_S9Y650	R N L Q A Q S G N I	Q S D K Q K E	T R E A N T L Q K Y R L G L A E K H Q K T	
UniRef90_W5UDF0	R N L Q A Q S G N I	Q S D K Q K E	T R E A N T L Q K Y R L G L A E K H Q K T	
UniRef90_E9G1W0	K K T L Q S R M E V E A Q	L E E K L	R E M F L R L N K I R E A V V V M E L L N A	
UniRef90_H0VLZ0	C K T S Q N R E H N D Q K	Q E Q L L	E H K L N V K V L A E L L L Q M R M A L A E K H K E T	
UniRef90_Q4RXX3	Y Q T F M M E G P H Q	Q R E R M Q K G T A	L H R V A L S K K Y E V T R F N R V E S V D K M K D T	
UniRef90_C5J410	M K S L Q S R M P K E	I Q Q E E M A I	G P R T G L N P P S Q V L A D I G K H	
UniRef90_S4R517	M K S L Q S R M E V E A Q	L E E K L	R R M F T V Q G K I R E V V V M K E L I S N V	
UniRef90_M3ZIM3	Y Q D F T Q K E Q Q D S K	K Q M A R L	Q V M L Q N L D Q N R K Q L L Q S M T E L	
UniRef90_Q8JFS5	M K S L Q S R M E V E A Q	L E E K L	Q S L I N K L N D Y R K S T L A D L N K L	
UniRef90_Q8JFS5	F S D C Q N K E A Q	L R Q Q K	A Q M A Q E I L H L R V A L S K K Y E V T R F N R V E S V D K M K D T	
UniRef90_F8J2H6	V N S L K N R E N E M N E	K E K M G	D N R E K L M H A M F V K L N D K R I I M A I S S Q M S E V	
UniRef90_H2L389	Y Q T H M L E A E A L K K	E Q F K T	N K T Y Q S R D E E D L N R E K L M H A M F V K L N D K R I I M A I S S Q M S E V	
UniRef90_O93598	C K T L Q S R E H N E L	K Q E Q M V	D P H Q T R Q Q K L Q E T L N E L D K R R K E V V V M K I D L	
UniRef90_H3ADH1	C K T L Q S R E H N E L	K Q E Q M V	D P H Q T R Q Q K L Q E T L N E L D K R R K E V V V M K I D L	
UniRef90_U6DW59	Y H D C T K V T V N L Q Q	L S Q N L	Y H D C T K V T V N L Q Q L S Q N L N N K I A Y I F N R R V E S V D K M K D T	
UniRef90_E2AP84	Y H D C T K V T V N L Q Q	L S Q N L	Y H D C T K V T V N L Q Q L S Q N L N N K I A Y I F N R R V E S V D K M K D T	

QUERY	90	100	110	120
UniRef90_F7CW94	S A M E Y V Q K T L T D E E	A D W K R R Q Q I A C I G G P P N I C L D R L E		
UniRef90_G3UQY3	S E I D T L M N T M L L E E L L D W K R R Q Q I A C I G G P P L H S G L D Q L L E Q			
UniRef90_UPI0003C101E1	H E I D M L M S N M L T E E L L D W K R R Q Q I A C I G G P P L H G G L D Q L L Q Q			
UniRef90_F6UJ81	D E I D T L M G K S L T E E L L K N W K R R Q Q I A C I G G P P L H S G L D Q L L Q Q			
UniRef90_UPI000441B3AA	V R E V D A L V N N I L I E E L L D W K R R Q Q I A C I G G P P L H S G L D Q L L Q Q			
UniRef90_W5MV12	K E I D S L M N T Q L N A E L M D W K R R Q Q I A A I G G P P L L T S L L E Q L L			
UniRef90_UPI000445B45	K E I D D D L M T S Q L R P E L Q D W K R R Q Q I A C I G G P P L L T G L L E Q L L			
UniRef90_C0HA55	K E I D A D L I V S Q L N P E L M E W K R R Q Q I N C I G G P P L L T G L L E Q L L			
UniRef90_E7FBV9	D V A D T L G S S L I D E E L V D W K R R Q Q K S C I G A P V D T S L L E H L L			
UniRef90_H2ZZY6	L Q L L R K Q Q T I I L D D E L I Q W K R R Q Q L A G N G G P T E G S L D M L L			
UniRef90_UPI00045761A5	L N Q M D F L M N R Q I E E L I E W K R R Q Q I A S I G G P P L N T C L D Q L L			
UniRef90_UPI00032A0DDB	L Q L L R K Q Q T I I L D D E L I Q W K R R Q Q L A G N G G P P E G G L D I L L			
UniRef90_UPI000457245E	T K A E K L L D I L V S S E E L V D W K I R Q Q K A C I G A P L T V S L D Q L L			
UniRef90_M3XQR9	G Q L T T L V E L L P K L E E W K V Q Q Q K A C I G A P S D G G L E Q L L E Q Q			
UniRef90_K7FUG0	N I S E H T Q S A L I N E E L V E W K H R Q Q I A C I G G P P N A C L D Q L L			
UniRef90_F6T2X3	L Q L L R K Q Q T I I L D D E L I Q W K R R Q Q L A G N G G P P E G G L D L L L			
UniRef90_D6WML4	I Q L L N Q Q S N I L D D E L I R W K R E E Q Q L A G N G A N F N S N L D T I L			
UniRef90_G1KUK7	L A L L R K Q Q T I I L D D E L I Q W K R R Q Q L A G N G G P P E G P L D G L L			
UniRef90_T1HRT32	G L I V T V Q G R I L D E E L I K W K R D Q Q L A G N G A K F N N N L D T I Q			
UniRef90_D0VYJ1	I D R L L N S L Q S R I L D E E L I N W K R D Q Q M H G N G K P F N N N W D Q I Q			
UniRef90_UPI00034F49C2	G R L L T T L V E L L P K L N E W K A Q Q Q K A C I G A P L K L G L E E L L			
UniRef90_G1P7U2	G R L L T T L I V E L L P N L E Q W K V Q Q Q K T C I G A P P D G G L L E Q L L			
UniRef90_UPI000444EC9	G R L L T T L V E L L P K L E E W K V L Q Q K A C I G A P P Q Q G L E Q L L			
UniRef90_V5G239	F Q L L T Q L Q A H V L D E E L I R W K R E E Q Q L A G N G A N F N S N L D T I Q			
UniRef90_F1QWX2	A L L R K Q Q T V I V D D E L I Q W K R R Q Q L A G N G G P S E G G L D I L Q			
UniRef90_H2MH80	A L L R K Q Q T I I L D D E L I Q W K R R Q Q L A G N G G Q H E G G L D I L Q			
UniRef90_A0A026W9A1	T R I S T L Q S K I L D D E L I R W K R E E Q Q L A G N G A F N S N L D S I L			
UniRef90_A0A023GYK9	D K T K E V I D L L V R K E L V E W Q R R Q Q K A C I G A P V S V C L D Q M E			
UniRef90_UPI000333788D	G R L T T L V D L L P K L K E W Q D Q Q R Q A C I G G P P K H S L E E L L			
UniRef90_H2U8H0	D K T E E L I N L L V K K E L V E W Q R R Q Q R A C I G A P V S V C L D Q L L			
UniRef90_X2KK07	D V A E D L C V L R E E E L V Q W Q R R Q Q K A C I G A P D S T C L D Q L L			
UniRef90_H2MK17	N Q T S K I E E T L L E E E L P E W K R R Q N Q L A C I G C P T D T S L E E L L			
UniRef90_H2MK17	N Q T S K I E E T L L E E E L P E W K R R Q N Q L A C I G C P T D T S L E E L L			
UniRef90_S4RD74	G L M E S L H A V L N D E L K E W K Q R Q Q I A C I G G P P N T C L D Q L L			
UniRef90_E0VN9H	I S H L T A L Q S R I L D S E L I R W K R E E Q Q L A G N G A H F N S N L D S I L			
UniRef90_L7M9Q1	T N L L G A L Q T R V L D N E L I K W K R A A Q Q L G G G N V T F E N N L D Q I L			
UniRef90_I3MQQ8	V G R L T T L I E L L P K L D E W K A Q Q Q K A C I G A P L D Q G L E R L L			
UniRef90_S4RXL5	F Q L L T K L Q T T I L D D E L I Q W K R R Q R Q K S C I G A P D D T S L E Q L L			
UniRef90_I3Y0V5	D A T A D C L S S V L I D E E L I V D W K R R Q R Q K S C I G A P D D T S L E Q L L			
UniRef90_UPI00046B197F	G R L A T L V E L L P R V E E W K A Q Q Q K A C I G A P L D I R L E Q L L			
UniRef90_F7IHN6	H E T D L L M N N M I E E L Q D W K R R Q Q I A C I G G P P L H N V L N Q L L			
UniRef90_UPI00265157D	Y S L K I L Q S R V L E D E L I R W K R R Q Q L A G I G G P P N A C L D Q L L			
UniRef90_UPI0002C30BD3	N A T E L T Q K A L I N D E L I V E W K R R Q Q S A C I G G P P N A C L D Q L L			
UniRef90_W4X5N3	K K L N I L Q S R I L D D E L I R W K R D Q Q L A G N G A N F A N N L D S I L			
UniRef90_UPI0004422EC0	H M I E V T Q N A L I R E E L I V E W K H R Q Q M A C I G G P P N A C L D Q L L			
UniRef90_B2C3G8	Q I L L R K Q Q T I I L D D E L I Q W K R R Q Q L A G N G G P P E G S L D V L L			
UniRef90_E2BN16	S K L G N L Q S R I L D D E L I R W K R D Q Q L S G N G I Q F V N N L D S I L			
UniRef90_G0ZEM6	S A M E Y V Q K T L D E E L P D W K R R Q Q I A C I G G P P N L C L D R L L			
UniRef90_L9JWK9	Q Q R L L R K Q Q T I I L D D E L I Q W K R R Q Q L A G N G G P P E G S L D V L L			
UniRef90_T1EM34	T R L L N S L Q S R V L D D E L I R W K R D Q Q L G G G N A P F N N N L D S I L			
UniRef90_H9KPG7	U P I 0 0 0 4 2 A C 2 E 6 V G R L T T L V D L L P K L D E W R V Q Q Q R S C I G A P P E L Q L E Q L L			
UniRef90_UPI00042AC2E6	F T L L T E L L Q N Q V L D E E L I Q W K R S Q A L A Y N G V I Q E G S L D Q Q L			
UniRef90_Q676C6	D L L A E E L L N S L V G E E L P A W R R R Q Q K A C I G A P D S V C L Q Q Q L			
UniRef90_W5ML39	U P I 0 0 0 4 4 2 2 D C 6 G R S D T L R G L L L E E V V A W Q N H Q R F A C I G D T C D T S L G H L E			
UniRef90_UPI0004422DC6	U P I 0 0 0 3 A F 1 6 7 B V N E T D L M M S M V E E L Q D W K R R Q Q Q K A C I G G P L H N G L Q Q Q L			
UniRef90_UPI00033169B6	Q G R L T T L V D L L P K L E E W K V Q Q Q K A C I G G P L H C D L G Q Q L			
UniRef90_H2ZMV2	F T H L S Q L Q N Q I L D E E L I K W K R S Q A L A Y N G V Q H E S N L D Q L L			
UniRef90_UPI00032AE647	L G R L T T L V D L L P E E L V T W K T Q Q Q K A C I G A P P Q P G L Q L L			
UniRef90_B2BF21	L N V I Q A L I L S N L I S S E E L P E W K Q R Q Q K A C I G G P P N A C L D Q L L			
UniRef90_UPI0003F0A017	L G R L T T L V D L L P K L E E W K V Q Q Q K A C I G A P V Q R L E E K L L			
UniRef90_A3KMT9	M S V T D H T Q S A L I N E E L V E W K H R Q Q I A C I G G P P N A C L D Q L L			
UniRef90_H2L880	D R V E G L I H R L V D K E L I D W K R R R Q Q K S C I G A S D N V C L D Q M E			
UniRef90_UPI0001CBA095	F K I L E D L L N Q T I E D Q L I V Q W K R R Q Q L A S I G G P P E G S L D Q L L			
UniRef90_UPI00033441AB	L G R L T T L V E L L P R E E W K A Q Q Q K A C I G A P S E Q V L E E Q L L			
UniRef90_Q801Y2	L T L A E Q I Q F T L I S D E E L P E W K K R Q Q M A C I G G P P N A C L D Q L L			
UniRef90_UPI0002C34C9A	L Q L L R K Q Q T I I I D D E L I Q W K R R Q Q L A G N G G P P E G S L D M L L			
UniRef90_W5L336	L N L V E Q L E Y D L I S V E L P E W K R R Q Q M S C I G D L T N I C L D Q L L			
UniRef90_G3N618	L D R T D T L I D I L V K K E L V E W H R M Q K A C I G A P E N V C L D Q L L			
UniRef90_T1JJU0	F Q I L N G L Q S K V L D E E L I R W K R E E Q Q L A G N G A P F N N N L D T I L			
UniRef90_UPI0003333CCC	I G R L T T L I D L L P K L D E W K V K Q Q K A C I G A P T D L S L Q Q L			
UniRef90_C6ZH44	V V G I G S L Q G R V L D D E L I R W K R E E Q Q L A G N G V P F V N S L D I I Q			
UniRef90_R7UYT8	C N N L R A L Q S H I L D D E L I F W K R R Q Q L A G N G A P F E A S L E T L L			
UniRef90_B7TQ40	L A L L R K Q Q T V I L D D E L I Q W K R R Q Q L A G N G G P P E G G L D I L L			
UniRef90_S9Y650	L N V T E L T Q K A L I N D E L V E W K Q R Q Q S A C I I G G P P N A C L D Q L L			
UniRef90_S9Y650	L N V T E L T Q K A L I N D E L V E W K Q R Q Q S A C I I G G P P N A C L D Q L L			
UniRef90_W5UDF0	L K L A D L T Q N T L I T E K V P E W K Q R Q Q M A C I G G P P N A C L D Q L L			
UniRef90_E9G1W0	L M L I E N L Q A R V L D D E L I R W K R E E Q Q L A G N G V P F H S N L D S I L			
UniRef90_H0VLZ0	L N A T E L T Q N T L I V D D E L V E W K R R Q Q S C I I G G P P N A C L D Q L L			
UniRef90_Q4RXX3	L D K T K E V I D L L V R K E L V E W Q R R Q Q K A C I G A P V S V C L D Q M E			
UniRef90_C5J410	L T L A E Q I Q F T L I S D E E L P E W K K R Q Q M A C I G G P P N A C L D Q L L			
UniRef90_S4R517	L A L A D Y V H N K P L E E E L N E W K R R Q Q L G C I G G P P N I C L D H L E			
UniRef90_M3ZIM3	L D R A E D L I N L V R K E L V D W Q R R Q Q K S C I G A P D N V C L D Q L L			
UniRef90_Q8JFS5	F T F T L I T E E E L P E W K K R Q Q M A C I G G P P N A C L D Q L L			
UniRef90_Q8JFS5	F T F T L I T E E E L P E W K K R Q Q M A C I G G P P N A C L D Q L L			
UniRef90_F8J2H6	I V H L Q E L Q K E I I T E E E L P E W K K R Q Q M A C I G G P P N A C L D Q L L			
UniRef90_H2L389	L T V I H A L L T D L I S S E E L P E W K Q R Q Q I A C I I G G P P N A C L V C L			
UniRef90_O93598	L N L V E P V I C E L I S T E E L V E W K R R Q Q M A C I G G P P N A C L D Q L L			
UniRef90_H3ADH1	L N V T E Q T Q D A L I N D E L V D W K R R Q Q I A C I I G G P P N A C L D Q L L			
UniRef90_U6DW59	L Q G L T T L V E L L P K L E E W K V Q Q Q K A C I G A P S D G G L E Q L L			
UniRef90_E2AP84	I H R L S M L Q S R I L D E E L I S W K R R D Q Q L A G N G A T F T S N L D I I			

QUERY	130	140	150	160
UniRef90_F7CW94	S L A E S Q L Q T R Q Q I K K L E E L Q Q K V S Y K G D P I V Q H R P M			
UniRef90_G3UQY3	N C F T L L A E S L F Q V R R Q Q I E K K L D E E Q S T K V S Y E G D P I P L Q R S H			
UniRef90_UPI0003C101E1	N C F T L L A E S L F Q V R R Q Q I E K K L D E E L L T R L T Y D G D P I P V Q R P Q			
UniRef90_F6UJ81	N W F T M L A D S L F Q I R R Q Q I E K K L D E E L L N K V T Y E G D P I P P L Q R P H			
UniRef90_UPI000441B3AA	N C F T L L A E S L F Q I R R Q Q I E K K L D E E L W T K V T Y E G D P I P P L Q R P H			
UniRef90_W5MV12	N W F T L T A Q S L F Q I K R Q Q I D K K L G E L V V K V T Y E S D P I P P L Q K P Q			
UniRef90_UPI0004445B45	S W F T L T A Q S L F Q M K R Q Q I D K K L G E L I I L K V T Y E S D P I P P L Q K P Q			
UniRef90_C0HA55	N W F T L T A Q S L F Q M K R Q Q I D K K L G E L I I L K V T Y E S D P I P P L Q R P Q			
UniRef90_E7FBV9	K W F T Q I I D S M F Q L Q K F L Q K K L D E E L L G K M S Y D N D P I P I Q K P P			
UniRef90_H2ZZY6	S W C E K L A E T I W Q N R Q Q I R R A E H L R Q Q L P I P G P V E D L L T E			
UniRef90_UPI00045761A5	N W F T M L A E S L F Q V R R Q Q I K L E L L Q K V T Y E G D P I P V P L Q R P H			
UniRef90_UPI00032A0DDB	S W C E K L A E T I W Q N R Q Q I R R A E H L R Q Q L P I P G P I E E L L N E			
UniRef90_UPI000457245E	N W F T V E A E C L F Q L K R L L K K L E E L G K K V T Y E N D P F K T K I P A			
UniRef90_M3XQR9	K W F T A G A K L L F H L R Q L L K E L L R C L V S Y Q N D P I P L T R G V D L			
UniRef90_K7FUG0	N W F T M V A E S L Q Q V R R Q Q I K L E E L E Q K F T P D P I T K N K Q V			
UniRef90_F6T2X3	T W C E K L A E I I W Q N R Q Q I R R A E H L C Q Q L P I P G P V E E L L S E			
UniRef90_D6WML4	D W C E S L A E L I W I N R Q Q I K E V D R L R Q Q L S L D P P G V A D L L P Q			
UniRef90_G1KUK7	A W C E K L A E I I C Q N R Q Q I V R R A E H L C Q Q L P I P G R I E E M L V G			
UniRef90_T1THR32	E W C E N L A E I I W I N R Q Q I K G A E R L K N K N P L D N Q G V A D I L P Q			
UniRef90_D0VYJ1	E W C E A L A E I I W I N R H Q I K E C E H Q T K I P I A P P G G V D M L P T			
UniRef90_UPI00034F49C2	K W F T A G A E L F H L R Q L L K Q L K E L S D M V H Y E G D H L K E G V E L			
UniRef90_G1P7U2	K W F T D G A K L L M F H L R Q L L K E L L K D L L S Q L V S Y E N D P I I T G V G Q			
UniRef90_UPI0004444EC9	Q W F T D G A K L L F H L R Q L L K E L L K G L S A L V K Y K G D T L S Q G V S L			
UniRef90_V5G239	E W C E S L A E I I W I N R Q Q I V E V E R L K Q K Q L A L D P P G V T D V L P Q			
UniRef90_F1QWX2	A W C E K L A D M I W Q N R Q Q I R R V E H L T Q Q L P I P G P T E E L L T E			
UniRef90_H2MH80	S W C E K L A D I I W Q N R Q Q I R R C E H L T Q Q L P I P G P M E E L L R K			
UniRef90_A0A026W9A1	E W C E N L A E I I W I N R Q Q I K E A E R L K Q K F G E P P A I Q D I L P T			
UniRef90_A0A023GYK9	K W F T R V A A C L I Q V R E F L G K L D E L V V G K V T Y A D D P I K L K K P G			
UniRef90_UPI000333788D	K W F T D G A K L L F H L W Q Q L L K G L K G L S L E V N Y S K D L L A K G V C L			
UniRef90_H2U8H0	K W F T R V A V C L I Q V R D F L D K K L D E L L V V G K V S Y A N D P I K I K K P A			
UniRef90_X2KK07	K W F T T E A E C L F Q V R K F L L K K L E E L M G K V T Y E H D P I V K K Q P A			
UniRef90_H2MK17	N W F T N V A E V L L R V R E L L Q K L L Q E Q S N T Y S N D T S S F S A S V A E			
UniRef90_H2MK17	N W F T N V A E V L L R V R E L L Q K L L Q E Q S N T Y S N D T S S F S A S V A E			
UniRef90_S4RD74	S W C T S L S E G L I Q V R Q H L K K L D E L L Q Q K V S Y S G D P I P A M R P V			
UniRef90_E0VNH9	E W C E N L A E I I W I N R Q Q I K E A E R L K L Q K Q L S L D P P G L V D V L P N			
UniRef90_L7M9Q1	E W C E A L A E I I W I N R Q Q I K R V E H L A L Q V P I G G P P I A D R F K T			
UniRef90_I3MQQ8	N W F T A G A K L L F H L R Q L L K Q L N E L R H I S Y E G D P L V K G V N V			
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QUERY
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L L E K | V N F | L L Y N | L F R N S F
L E E R | V K F | L I Y N | L I R S S F
L L D R | V I C | L I L S | V F Q S S F
L L E R | N F | L L Y S | L F Q S S F
L E E R | V K Y | L I Y H | L I K S S F
M E E Q | V K Y | L I Y H | L I K S S F
M E E Q | V K Y | L I Y H | L I K S S F
L Q S R | V D T | L L T R | L I K S A F
L N A T | T D | I I S T | L V T S T F
L E E K | V N I | L I Y S | L I K S S F
L N S T | T D | I I S T | L V T S T F
L K E R | T I K | L L S S | L I K S A F
R E A Q | V M E | L L H | L L Q R A F
L Q D R | T C | S L F K Q | L I Q R
L N A T | T D | I I S A | L V T S T F
V L G D | V T Q | L L S S | L V T S T F
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L N A Q | V T E | L L Q Y | L L D R A F
Q E A Q | V T E | L L Q H | L L H R A F
L E A Q | V T E | L L Q R | L L H R A F
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L N A D | T D V | I S A | L V T S T F
L N S Q | L T Q | L L S S | L V T S T F
L Q Q K | T D K | L L H E | L I K S S F
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L Q Q K | T D K | L L H D | L L K S S F
L Q K R | V D S | L L T S | L L K S A F
I E K F | T L L | I T R | L I E N A
I E K F | T L L | I T R | L I E N A
L E E K | T N E | L F | L V K S S F
L N N | V T Q | L L S T | L V T S T F
L N A H | I T S | L L S S | L V T S T F
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L N K R | V D T | L L T N | L I K S S F
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M L E R | V T F | L I Y N | L F K N S F
L N R | C | F M A Q | L S T | L V T S T F
L W D R | T F S | L F Q Q | L I Q S S F
L N T Q | T Q F | L S S | L V T S T F
L Y E R | T L S | L F K Q | L I Q S S F
V N A T | T D | I I S A | L V T S T F
L N S Q | T Q | L L S S | L V T S T F
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L D A S | V T E | L L Q R | L L H R A F
L N A T | T A | L L S T | L V T S T F
Q N A K | I
L E N R | A L D | L F K N | L L S N S
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V N A T | T D | I I S A | L V T S T F
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L W D R | T F S | L F Q Q | L I Q R
L W D R | T F S | L F Q Q | L I Q R
L Q E Q | V L S | L F K N | L L V N S
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L Q Q K | T D K | L L H E | L I K S S F
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L N K R | V D A | L L K D | L L K S S F
L D E Q A | I S | L F K N | L I L N S
L D E Q A | I S | L F K N | L I L N S
L N D T | T G | L L S S | L V T S T F
L E A R | T L E |
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L G E R | T H | S L F K Q | L I Q R
R E A Q | V M E | L L H | L L Q R A F
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1 10 20 30 40

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UniRef90_N6TAV2	V I E S S Q Q H A I E S R I L D L K A M M E K L V K S I S Q L K D Q Q D V F C F R	Q D E Y D F K		
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UniRef90_UPI00044388BC	K D L Q G R F V N D L A E L Q R L Q C T I T N F E R A Q	Q D E Y D F K		
UniRef90_Q7QEQQ3	E E N K D L Q G R F V N E L G E L Q R I Q L A I N Q L E A D R	Q D E Y D F K		
UniRef90_H2RJA9	S A S Q H Q L V Q H D T L V M Y T K S N Q D K L S K L Q Q I L E V W L D L	Q D E Y D F K		
UniRef90_E3NFV0	R N L V K D Y E H L L L E I H E I T K N K A Q M E A I D	Q D E Y D F K		
UniRef90_Q9NAD6	K D L Q G R F V N D L A E L Q R L Q C T I T N F E R A Q	Q D E Y D F K		
UniRef90_S4RQ37	E E N K D L Q G R F V N E L G E L Q R I Q L A I N Q L E A D R	Q D E Y D F K		
UniRef90_G3PSI1	S A S Q H Q L V Q H D T L V M Y T K S N Q D K L S K L Q Q I L E V W L D L	Q D E Y D F K		
UniRef90_UPI00032B226D	R N L V K D Y E H L L L E I H E I T K N K A Q M E A I D	Q D E Y D F K		
UniRef90_C3ZBA3	K D L Q G R F V N D L A E L Q R L Q C T I T N F E R A Q	Q D E Y D F K		
UniRef90_B8LFE5	E E N K D L Q G R F V N E L G E L Q R I Q L A I N Q L E A D R	Q D E Y D F K		
UniRef90_Q61AP6	S A S Q H Q L V Q H D T L V M Y T K S N Q D K L S K L Q Q I L E V W L D L	Q D E Y D F K		
UniRef90_H2WLH6	R N L V K D Y E H L L L E I H E I T K N K A Q M E A I D	Q D E Y D F K		
UniRef90_H2UT58	K D L Q G R F V N D L A E L Q R L Q C T I T N F E R A Q	Q D E Y D F K		
UniRef90_F6RLE9	E E N K D L Q G R F V N E L G E L Q R I Q L A I N Q L E A D R	Q D E Y D F K		
UniRef90_W5L0Q1	S A S Q H Q L V Q H D T L V M Y T K S N Q D K L S K L Q Q I L E V W L D L	Q D E Y D F K		
UniRef90_H9IWV6	R N L V K D Y E H L L L E I H E I T K N K A Q M E A I D	Q D E Y D F K		
UniRef90_H9IWV6	K D L Q G R F V N D L A E L Q R L Q C T I T N F E R A Q	Q D E Y D F K		
UniRef90_H3DQY3	E E N K D L Q G R F V N E L G E L Q R I Q L A I N Q L E A D R	Q D E Y D F K		
UniRef90_E4XUX2	S A S Q H Q L V Q H D T L V M Y T K S N Q D K L S K L Q Q I L E V W L D L	Q D E Y D F K		
UniRef90_H3F2S5	R N L V K D Y E H L L L E I H E I T K N K A Q M E A I D	Q D E Y D F K		
UniRef90_R7TRX9	K D L Q G R F V N D L A E L Q R L Q C T I T N F E R A Q	Q D E Y D F K		
UniRef90_A0A024MGU4	E E N K D L Q G R F V N E L G E L Q R I Q L A I N Q L E A D R	Q D E Y D F K		
UniRef90_B5XD08	S A S Q H Q L V Q H D T L V M Y T K S N Q D K L S K L Q Q I L E V W L D L	Q D E Y D F K		
UniRef90_G0MR23	R N L V K D Y E H L L L E I H E I T K N K A Q M E A I D	Q D E Y D F K		
UniRef90_M3ZUG6	K D L Q G R F V N D L A E L Q R L Q C T I T N F E R A Q	Q D E Y D F K		
UniRef90_UPI00045D9041	E E N K D L Q G R F V N E L G E L Q R I Q L A I N Q L E A D R	Q D E Y D F K		
UniRef90_B3DGV1	S A S Q H Q L V Q H D T L V M Y T K S N Q D K L S K L Q Q I L E V W L D L	Q D E Y D F K		
UniRef90_W8B1F1	R N L V K D Y E H L L L E I H E I T K N K A Q M E A I D	Q D E Y D F K		
UniRef90_G3NDV7	K D L Q G R F V N D L A E L Q R L Q C T I T N F E R A Q	Q D E Y D F K		
UniRef90_G3SX92	E E N K D L Q G R F V N E L G E L Q R I Q L A I N Q L E A D R	Q D E Y D F K		
UniRef90_W5K6Q8	S A S Q H Q L V Q H D T L V M Y T K S N Q D K L S K L Q Q I L E V W L D L	Q D E Y D F K		
UniRef90_X1WIH6	R N L V K D Y E H L L L E I H E I T K N K A Q M E A I D	Q D E Y D F K		
UniRef90_UPI0002657226	K D L Q G R F V N D L A E L Q R L Q C T I T N F E R A Q	Q D E Y D F K		
UniRef90_UPI00044545EA7	E E N K D L Q G R F V N E L G E L Q R I Q L A I N Q L E A D R	Q D E Y D F K		
UniRef90_H2TWM6	S A S Q H Q L V Q H D T L V M Y T K S N Q D K L S K L Q Q I L E V W L D L	Q D E Y D F K		
UniRef90_UPI0003318678	R N L V K D Y E H L L L E I H E I T K N K A Q M E A I D	Q D E Y D F K		
UniRef90_UPI0002A4CA2B	K D L Q G R F V N D L A E L Q R L Q C T I T N F E R A Q	Q D E Y D F K		
UniRef90_UPI0002C43492	E E N K D L Q G R F V N E L G E L Q R I Q L A I N Q L E A D R	Q D E Y D F K		
UniRef90_UPI000388E9BB	S A S Q H Q L V Q H D T L V M Y T K S N Q D K L S K L Q Q I L E V W L D L	Q D E Y D F K		
UniRef90_A0A034V6L5	R N L V K D Y E H L L L E I H E I T K N K A Q M E A I D	Q D E Y D F K		
UniRef90_E3NFV3	K D L Q G R F V N D L A E L Q R L Q C T I T N F E R A Q	Q D E Y D F K		
UniRef90_G3RLN8	E E N K D L Q G R F V N E L G E L Q R I Q L A I N Q L E A D R	Q D E Y D F K		
UniRef90_H2QD18	S A S Q H Q L V Q H D T L V M Y T K S N Q D K L S K L Q Q I L E V W L D L	Q D E Y D F K		
UniRef90_Q704W6	R N L V K D Y E H L L L E I H E I T K N K A Q M E A I D	Q D E Y D F K		
UniRef90_UPI0003991754	K D L Q G R F V N D L A E L Q R L Q C T I T N F E R A Q	Q D E Y D F K		
UniRef90_F6T9D3	E E N K D L Q G R F V N E L G E L Q R I Q L A I N Q L E A D R	Q D E Y D F K		
UniRef90_V8PIU3	S A S Q H Q L V Q H D T L V M Y T K S N Q D K L S K L Q Q I L E V W L D L	Q D E Y D F K		
UniRef90_UPI0003F15525	R N L V K D Y E H L L L E I H E I T K N K A Q M E A I D	Q D E Y D F K		
UniRef90_UPI0003B5A751	K D L Q G R F V N D L A E L Q R L Q C T I T N F E R A Q	Q D E Y D F K		

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 UniRef90_H0ZKL5
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 UniRef90_C6F113
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 UniRef90_R4GJS3
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 UniRef90_H2RJA9
 UniRef90_E3NFV0
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 UniRef90_S4RQ37
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 UniRef90_H2WLH6
 UniRef90_H2UT58
 UniRef90_F6RLE9
 UniRef90_W5L0Q1
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 UniRef90_R7TRX9
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 UniRef90_UPI000388E9BB
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 UniRef90_F6T9D3
 UniRef90_V8PIU3
 UniRef90_UPI0003F15525
 UniRef90_UPI0003B5A751

50 60 70 80

This figure displays a sequence alignment of UniRef90 proteins, focusing on positions 50, 60, 70, and 80. The alignment shows the distribution of different amino acid types (Red, Blue, Green, Yellow, Black) across various proteins. The positions are highlighted in yellow, and the background is white. The alignment is presented in a grid format where each row represents a protein sequence and each column represents a position in the sequence.

130 140 150 160

UniRef90_E9NSU3	E WC E A L S E I I W Q N R Q Q I K R V E H L A A Q V P □ S A S S I G E R F T A
UniRef90_J9P7J4	K W F T A G A K L L F H L H Q Q L L E E L K G L N H L V S Y Q D D P L T A G V D L
UniRef90_G3VBL5	S W F T A G A K I L F Q L K Q Q L L K E L E N L S N L I T Y E N D P L K T K L P L
UniRef90_UP1000395D27E	T W F T Q L G Q G L F Q L R Q Q L L R A L N D L R Q K V T Y E R D P L V A E T P L
UniRef90_V8P7P9	□ Q C E K L A E F I C Q N R Q Q V R R A E H L Y Q Q L P □ P G P I E E L L S D
UniRef90_H0ZKL5	N W F T I V A E S L Q Q V R Q Q L K K L E E L E Q K F T Y D P D P I T K N K Q F
UniRef90_G3WWX7	N W F T T I A E S L Q Q V R Q Q L K K L E E L E Q K Y T Y E L D P I P K N K D I
UniRef90_UP10003EC6058	K W F S T V A E V L L G V C E Q L K K L Q D Q N S K Y S S A D P A L P T S □ P E
UniRef90_UP10004442059	N W F T A V A E S L Q Q V R Q H L N K M L E L E Q K F T Y E N D P I S Q K K S H
UniRef90_C3Z8E7	Q W C E A L A E I I W T N R Q Q I K R V E M Q R Q Q L P □ Q Q P G P D I L P E
UniRef90_D1LXF1	Q W C E N L A D L I W Q N R Q Q I K N I D L L R Q Q L P M K C P G S D L L P Q
UniRef90_UP10003D78A53	Q W L T A G A K F L F H L R Q L L K Q L K E M S H M R Y K G D M F G Q G V D L
UniRef90_UP10002657227	A W C E S L A E L A W Q H L Q L V R R L E L L I T K I P T T G P S L K E Q F S S
UniRef90_K7S4C5	N W I T T S L A E S Q L Q T R Q Q I K K L E E L Q Q K V S Y K G D P I V Q H R P
UniRef90_UP100038BEAB6	N C S
UniRef90_V9KDD7	N W F T L V A E S L Q Q V R Q Q L K K L E E L E Q K Y S Y E G D P I T Q N K Q F
UniRef90_UP1000388C75C	T W F T G A A E V L F Q L W R L L R A L G D Q H V K L T Y Q H D P L T T Q R P L
UniRef90_W5MV00	T W F T T V A E S L Q Q V R Q Q L K K L E E L E Q K Y T Y E N D P I T Q K K N F
UniRef90_R7V959	H W C D S I L A D L V W R N F Q Q I S Q A S S L Y S H L P I E L P P E Q Q D L P L
UniRef90_H2P856	F T L L A E S L Q F L R R Q L K L E E L E Q S T K M T Y E G D P I P M Q R T H
UniRef90_G0ZEM3	E W C E L L A D L I W T T R Q Q V V N N V A R I N S K V E L R Q P H L A E M L D D
UniRef90_B5X3E8	N W F T A V A E S L Q Q V R Q Q L K E L Q E L E Q K Y T Y D N D P I K Q Q K G F
UniRef90_UP1000462DD24	K W F T T A N A E D L F H L L Q L L Q T L K D L L Q Q K L T Y D Q D Q L K M C L P Q
UniRef90_UP1000203870A	N W F T T V A E S L Q Q I H Q Q L K K L E E L E Q K F S Y E T D P I P Q Q K Q G
UniRef90_A1E9A7	E W C E L L A D L I W T T R Q Q V V N N V A R N K T V V E L R Q P H L A E M L D E
UniRef90_K7GST8	N
UniRef90_N6TAV2	D W C E S L A D T L W A N R M N I K E F E R I R S K L A L D S P S F A D P V P G
UniRef90_B0XAD5	A W C E S L A E I I W N T K D Q I R L A M K N K Q K L N I E E P N L P D F L P Q
UniRef90_V3ZVZ7	T W C E S L A D I A W R N R Q Q I K K I D L L R Q Q L P I S P E G Q E D Q L P L
UniRef90_G6DEF2	E W C E L L A E L I W S T R Q Q V C N V G R I N S K V E L R Q P H L A E M L D D
UniRef90_W5USX5	K W F T A V I G D R M F Q Q L R K F L Q K L E E L K D K K L S Y D E D P I K T Q K P K
UniRef90_UP10003C25CB4	A W C T G V A G A L F Q Q L L R V L R T L Q E L R A K V S Y Q H D P L E M E P G L
UniRef90_UP10002657237	E W C E M L A D I A W Q H L Q L V R R L E M L L T K M P T T G A S L K E K F S S
UniRef90_UP10003EBB543	S C
UniRef90_UP100027FB374	K W L
UniRef90_B3DLJ2	G W V T K T A E C F F Q L H R I F K N L A E L P S R I S Y E G D P L K □ D P P N
UniRef90_F8J2H5	N W V E N L A E L I W Q N R Q Q I K K C S Q L Q Q H L H I M P E G T E D M L P K
UniRef90_C6F113	N W F T I V A E S L Q Q V R Q Q L K K L E E L E Q K Y T Y E H D P I T K N K Q G
UniRef90_A0A016SR95	M E F E F L A E Q N W Q L H M F A S W T L D L L T R G P Q V N D S H A S N L T T
UniRef90_R4GJS3	G W F T A L G E G L F Q Q L L Q L L R A V G E L R R Q K V T Y E Q D P L Q S E L P L
UniRef90_E4X355	E Y C E K K L A E I I W N N R R Q Q I K R C E L Q K T Q L P I S S P D V T T Q E P E
UniRef90_I3M8F2	P G C E K K L A E I I W Q N R Q Q I R R A E H L C Q Q L P I P G P P V E E M L A E
UniRef90_UP1000359BD16	Q W C E S L A D L I W Q N R Q Q I K Q S T T L Q Q Q L P I K P D G E D D L L P K
UniRef90_UP100044388BC	Y W F T T V A E S L Q Q V R Q L K K L E E L E Q K Y T F E Q D P I T K N K Q V
UniRef90_Q7QEQQ3	A W C E S L A E I I W S T K D Q I R L A I K N K S K L H V I E Q E D V P D L L P Q
UniRef90_H2RAJ9	N W F T A V A E S L Q Q V R Q H L K K L Q E L E Q K L T Y E S D P I T Q K K A I
UniRef90_E3NFV0	M E F E F L A E H N W Q L N M F A C W M C D L L R R A P Q L N D G L A Q K L T V
UniRef90_Q9NAD6	I E F E F L A D Q N W Q L N M F A C W M C D L L R R A P Q L N D G L A Q K L T A
UniRef90_S4RQ37	E W S E C M A D A V I R S R Q H L K R F E S L L Q Q L A L P G P
UniRef90_G3PSI1	N W F T S V A E S L Q Q V R Q H L K K L Q E L E Q K F T Y D S D P I T Q K K A Y
UniRef90_UP100032B226D	N C S
UniRef90_C3ZBA3	Q W F E R L L D I I L H S L Q Q V D K L D K L Q Q D M L Q D G E Q K G D L H T
UniRef90_B8LFE5	A W C E N L A E I I W N T K D Q I R L A M K N K S K L N I E E P N L P D F L P Q
UniRef90_Q61AP6	L E F E F L A D N I W Q L N M F A C W M C D L C R R A P Q L N D G L A Q K L T T
UniRef90_H2WLH6	L E F E F L A D Q N W Q L N M F T C W M D L L R R A P Q L N D G N S Q K L S A
UniRef90_H2UT58	T W C E Q L L G V N G K L R Q E L M L I G E P I P E
UniRef90_F6RLE9	K W F T Q V G D G M F Q Q L R K F L L K L E E L L D K L S Y D E D P I K D Q K P I
UniRef90_W5L0Q1	E W C E L L A D L I W T T R Q Q V V I I S E Q Q A Q L L L K S D
UniRef90_H9IWV6	E W C E L L A D L I W T T R Q Q V V I I S E Q Q A Q L L L K S D
UniRef90_H9IWV6	T W I T S L A E S Q L Q I R Q Q I K K L E E L Q Q K V S Y K G D P I I Q H R P A
UniRef90_H3DQY3	Q W Y Q S L A T I I W K S L R Q L V H L E G Q P I P N P L P N
UniRef90_E4XUX2	C D F E L L A E H N W Q M R T F A S W Q I D L L R R G P Q L T D N N A Q N L S T
UniRef90_H3F2S5	Q W Y D S I L A D L T W R N H E Q I E Q A A A L R A R L P L E M S L E Q Q I V P M
UniRef90_R7TRX9	T F E F M L A E Q N W Q L R T Y A C W Q M D L L R R G P Q I S G H V A Q N L N S
UniRef90_A0A024MGU4	I W F T A V A E G G L Q Q V R Q Q L K L Q E L E Q K Y T Y E N D P I T Q G K S A
UniRef90_B5XD08	M E F E F L A D Q N W Q L N M F A C W M S D L L R R A P Q L N D G L A E R L N A
UniRef90_G0MR23	K W F T A V A E V L I G V G E Q L Q R L Q V Q I Q R F P A P D F P L T N S V A E
UniRef90_M3ZUG6	N
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UniRef90_B3DGV1	R C V E M L V D M I A K I Q T F V S N L M L L M A D D P I L T E
UniRef90_W8B1F1	K W
UniRef90_G3NDV7	E R C E S L V D I Y F Q L Q Q E V G A A G G E L E P K I R A S
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UniRef90_W5K6Q8	T W C E K L C D L I W I T R S Q I K E A D R F R V N L G F E L P Q S C E I I I N T
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UniRef90_UP10002657226	S W
UniRef90_UP10004545EA7	S W F S S V M E M
UniRef90_H2TWM6	E R C E S L V D I Y S Q L Q Q E L G A A G G E L E P T T R A S
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UniRef90_UP1000388E9BB	M E F E F L V E H N W Q L N M F A C W M C D L L R R A P Q L N D G L A Q K L T V
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UniRef90_G3RLN8	E C
UniRef90_H2QD18	K W F T G V A E S L Q Q V R Q Q L K K L E E L E Q K Y T Y E Q D P I T K S K Q G
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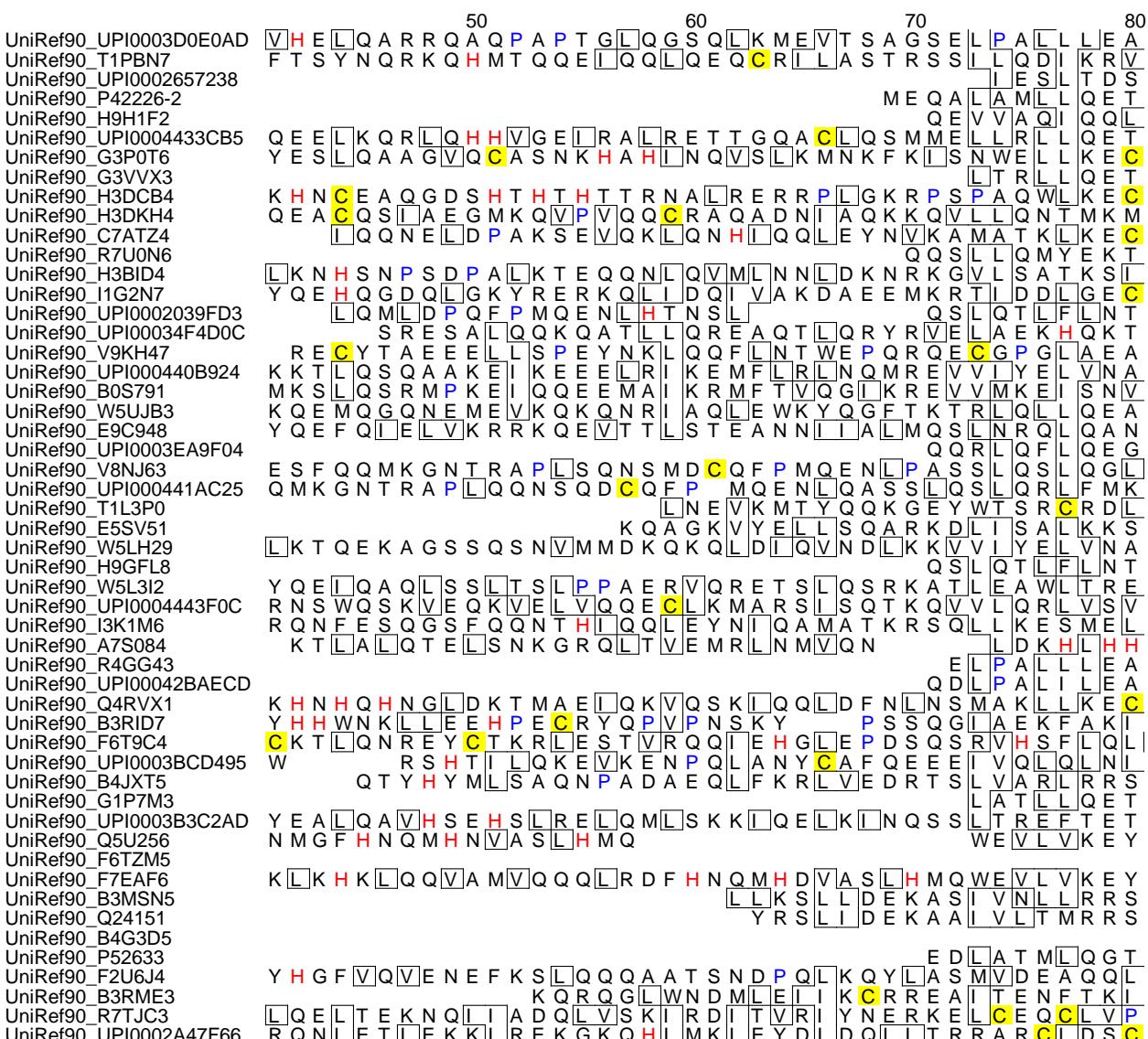
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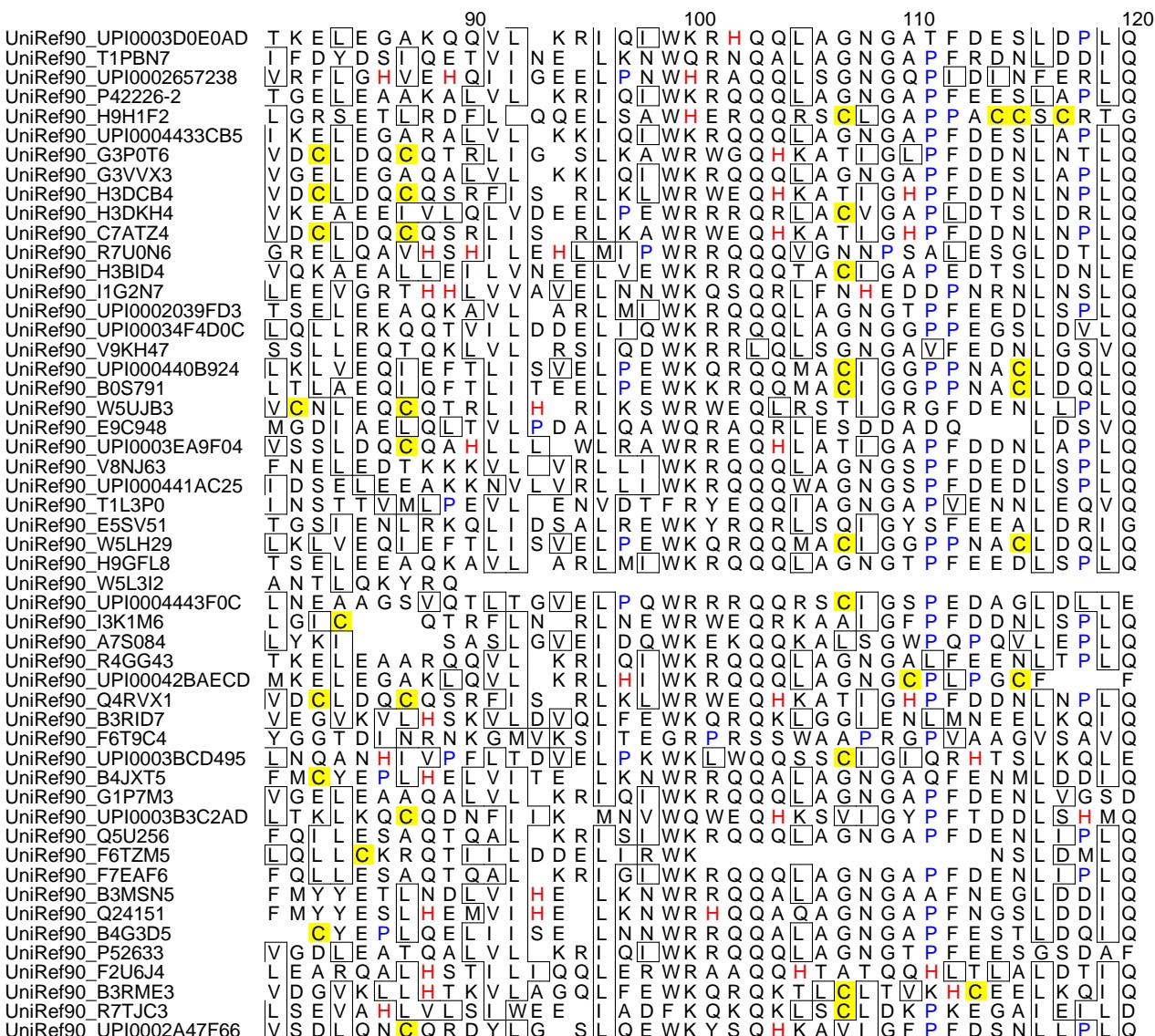
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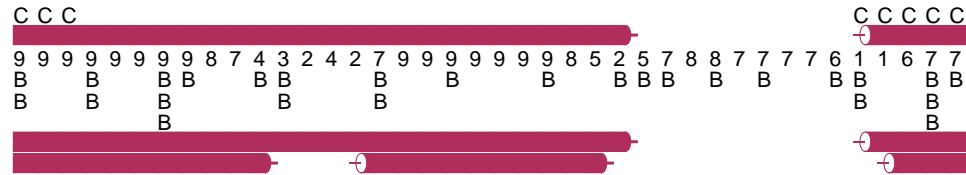
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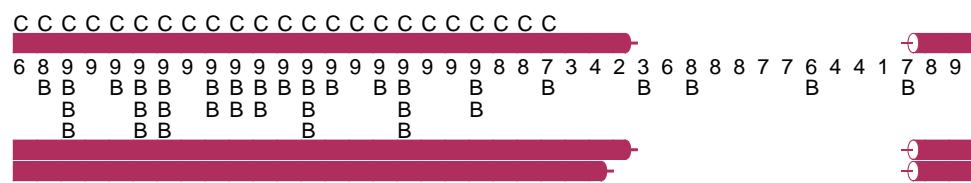


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