

QUERY	1	10	20	30	40
UniRef90_A8AJS0	L	A D D P Q A V A D L	S R F E N G Q E L P P G T Y R V D I Y L N N		
UniRef90_P37924	Y F N P A F L S A D A A S V A D L L S R F E K G N H Q P P G I Y R V D I W R N D D				
UniRef90_W1E1S6	L Y F N P R F L S A D T A S V A D L L S R F E K G N H Q P P G I Y R V D I W R N D D				
UniRef90_V5Z5C3	Y F N P R F L S D D P E S V A D L L S G F E K G L E A P P G T Y R V D I Y M N D E				
UniRef90_A4W7J4	Y F N P G F L S D D T A G V A D L L S R F E Q G H Q Q A P P G I Y R V D I W R N E E				
UniRef90_UPI000346FBA8	F D R S M L S G A G Q N T T D L L S R F E R G D F V P A G N Y S V D I Y L N E				
UniRef90_W0LES1	Y F N P A F L A E D V S A V A D L L S R F E K G Q Q A A G D Y R V D I W R N N D				
UniRef90_U2LKM8	L Y F N P R F L S D D P A A V A D L L S A F E K G Q E A P A G T Y R V D I Y L N D D				
UniRef90_V3POC3	L Y F N P R F L A D D P A A V A D L L S A F E K G Q E A P A G T Y R V D I Y L N D D				
UniRef90_L0M5M7	Y F N P A F L S E D T A S V A D L L S R F E Q G H Q Q A P P G V Y R V D I W R N D D				
UniRef90_E6WUU4	I E F N S D F L R G T G G Q Q V D I S R F G R G N P V L P G D Y L V D I V Q L N D D				
UniRef90_B6XK64	L Y F N P R F L A D D P S A V A D L L S A F E Q Q G E V P E G T Y R V D I V Y L N D D				
UniRef90_V0ADC6	Y F N P A F L L E N G T S V A D L L S R F E R G N H Q P A G V Y R V D I W R N D D				
UniRef90_G7HF71	F D P G F L N N G T Q G A V D L L S R F S R G N V V Q P G S Y T V D L V V G G				
UniRef90_Y1B6W0	Y F N P A F L A D G E N Q V A D L L S R F E N D G S Q A P G V Y R V D I Y L N N D				
UniRef90_B9B5U7	V E F E S A F L Q G A G A I D V S R Y G R G N V V R P G R Y T P D I V Y V D G				
UniRef90_UPI0003733584	V Y F N P S F L S S D A T N V A D L L S R F E K G E G Q P S G M Y R V E V Y V L N D D				
UniRef90_G0BBL7	L Y F N P R F L S D D P D V V A D L L S A F F S R G Q E I P P P G T Y R V D I V Y M N D				
UniRef90_A0A022GPP9	L E F E S G F L N N S G G G V D L L S K F E R S N V V P P G T Y S V D I Y V D Q				
UniRef90_E3G667	Y F N P A F L S D D E A G V A D L L S R F E K G N Q Q P A G V Y R V D I W R N E				
UniRef90_D2ZKN1	Y F N P A F L S S D P N A V A D L L S R F F S A D G Q A P G T Y R V D I W L N D				
UniRef90UPI00036106F0	V Q F D D Q F L M K P R N Q S V D D V S R F E R G N P V V P G E Y T V D L L Y V N G				
UniRef90UPI00046A190F	V Q F N S G F L E I N G A Q S A D L S L F S K G N R V L A G M Y R V D V L V N Q G				
UniRef90_A5WGG6	F D S A F L I G D A K K I D S I C K F A N G N P I L P G E Y S L D V Y V N G				
UniRef90UPI00039C228D	Y F D P A F L S E D P Q T V A D L L S A F E Q G L T A P P G T Y R V D I V F L N G				
UniRef90UPI00047BDD06	L F F N P A F L S S D P S A V A D L L S R F E E Q G K G Q V P G I Y H V D I V Y V N D				
UniRef90UPI0004136C94	Y F N P A F L A N D P A A V A D L L S R F F E G N Q Q A P G T Y R V D I V W L N D				
UniRef90_A4W7S2	Y F N P A F L S E G K G Q V A D L L S R F F E N D A G Q Q A A G T Y R V D I F L N N Q				
UniRef90_Q0JZF2	V E F N D T F L L Q Q P G G A R I D A S R F N K G N V A L P G N Y R A E I L Y V N Q				
UniRef90_G8WC19	Y F N P A F L S D D P P N A V A D L L S H F E K G D S Q A P G K Y H V D I Y L N K				
UniRef90_J2LCF6	V E F G N E F L Q F Q G A P T V D V S R F S K G N T V A P G I Y R S D I Y A N G				
UniRef90UPI0002F5577E	V E F D R S M L S G A G Q Q N T T D L S R F F S T N G Q A P G V Y R V D L W L N G				
UniRef90_Y1CY52	F N P A F L S S D P S A V A D L L S R F F S T N G Q A P G V Y R V D L W L N G				
UniRef90_Q62K8N	L E F D P A F L L E G G G Q Q G G A D L S V Y A T S N R V L P G V Y P V S V F V N G				
UniRef90_B2VGZ5	I E F N M D V L D V N D R T N I D L S Q F S R G G Y I M P G T Y N M V H I N K				
UniRef90_A0A031IS20	V I F N P A F F L F D G A N G L Q I D L A K F S S Q G N V V L P G T Y R S D I V Y L N G				
UniRef90_B5F701	Y F N P A F L S D D P S A V A D L L S T F S R N A Q A A G M Y R V D I V Y L N N D				
UniRef90UPI0004753094	Y F N P S F L L S S D A N N V A D L L S R F F E K G E Q P A G V Y R V D I V Y V N Q				
UniRef90UPI00016A475D	V E F D Q H F P Q G G S Q S V D V S R F F E K G N A V L P G T Y S V D I Y V N Q D				
UniRef90J5CMV1	V E F D T T F L L Q L D S Q R V D V A R L G R G N I V A P G A Y T T V D I S I N D				
UniRef90_A0A023CFJ2	V E F N P A F F A G G A T G H V D V A K F N H G N V V L P G S Y R T D V I H L N G				
UniRef90_L4VWN3	W F Y P A F F K D D P S M V A D L L S R F E K G Q K I L T P G V Y R V D I V L N Q				
UniRef90_H3LYC7	F N P A F L S N D P H A V A D L L S R F F Q N Q Q A P G E Y R V D I Y L N N				
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UniRef90_I2V9Q9	Y F N P A F L S G D P S L V A D L L S R F F S K G E G Q P A G I Y R V E I Y I N D				
UniRef90_F6AR28	V D F D P S F L N T G K Q T D I D V S R Y S R A N V V T A G S Y N P D I Y I N G				
UniRef90_Q1LDF5	V E F N D T F L H S P D G M R L D I D S R F F N Q G N F A T P G S Y R A D I L Y V N D				
UniRef90UPI00035F919F	V Q F D S G F L V H A D H Q Q R I D I D S R F F E K S N G V L P G D Y R V D I Y V N G				
UniRef90_H8L2Y3	F N S A F L A G R A K G L D I L G R Y A H G N P V D P G G S Y S V D I H V N G				
UniRef90_I2IH36	V Q F D S G F L A H T G G G G S I D I L T R F F E K G N I V L P G E Y S V D I V Y V N G				
UniRef90_A9IDF0	V Q F N T D M L R G F G D A P V D I I S R F F N R G N F A A P G D Y T V P I V V N D				
UniRef90_H3LX82	Y F N P A F L S D D P S A V A D L L S R F F E G N G Q A P G V Y R V D I V Y L N G				
UniRef90_D4GEJ1	V E F N T D I L D A E D R N N I D I L S R F F E A R A G Y I M P G T Y S S L T L R L N E				
UniRef90_Q13SB4	V E F D S T F L R V D P N A T V D I D V S R F F T R G N P M S E G V Y S V D V L V N G				
UniRef90_Z9JIU8	V N F N S N F L V I G Q A R S V D I D L L D M F A R G N P V M P G L Y R A D I L Y V N G				
UniRef90_G0BBE6	I Q F N M D V L D V N D R K N I D I L S Q F S R G G Y I M P G A Y S M A V H I N K				
UniRef90UPI0004672AFA	Y F N P A F L A S D P A A V A D L L S R F F E G N G Q A A G K Y R V E I W L N G				
UniRef90_V5BT46	V E F D P S F L N V D D N K S V D I I S R F F A N G A S V L P G V Y K T I V Y V N N				
UniRef90UPI000464B04AB	E F F N T S F L Q G V G G S S V D I I N L L S A N S V L P G N Y R V D I V Y S N E				
UniRef90_L0MM64	Y F N P A F L E I D D Q R G V D I I S V F E A G D T Q A P G K Y R V D I V Y V N N				
UniRef90_G7HA12	V E F Q G G F L N N A G G G G I D I V T R Y S R G N V V R A G K Y S P D I V Y V N D				
UniRef90_C4S9L2	V Y F D P A F L A D D P S K V A D L L S H F E R G D T S L P G I Y R V D I F V N D				
UniRef90_W51SA5	V R F D T D F L R N A P P G Q T V D I I T R F F E Q G S P V Q P G S Y T L L D I V Y L N D				
UniRef90_W0H617	V K F N T A F I Q G S D P P D I I Q E F L R A N S V L P G N Y A M V V Q L L N T				
UniRef90UPI00028A141F	V E F N T D V L D L S D R T N I D I I S R F F N Q G N V V L P G S Y R T E V I Y L N G				
UniRef90UPI0003645D19	V E F N P A F F D G A A G L Q V D I I S R F F N Q G N V V L P G S Y R T E V I Y L N G				
UniRef90UPI000464F6B6	I Q F N T D V L D V N D R Q N I D I I S Q F S R G G Y I M P G T Y G M V V H I N N				
UniRef90_V9QQN0	V E F N P A F F P D A V R G Q V D I I S K F S Q G N V V L P G S Y R I D I Y L N G				
UniRef90_B3RBW6	V E F N D T F L L Q Q P G G V V R I D I I S V R F F N K G N V A L P G T Y R A E I L Y V N G				
UniRef90_N8WAQ4	V E F D S S F L I G D A Q K I D I I S R F F K Y G N P V L P G E Y N I D I D V Y I N G				
UniRef90UPI00029A88CF	V E F E P A F L L G N G S N L P V D I I I S R F F E R R N V A S P G I Y N V D V V V N D				
UniRef90UPI0003FD2166	I Q F N T D V L D I K D R E N L D I I S H F S R G G Y I M P G T Y T T M A V F L N N G				
UniRef90_F0KPM6	E F D S A F L I G D A Q K V D I I I S R F F K Y G N P V L P G E Y N V D V Y V N G				
UniRef90_A0A023KQH7	F N P A F L L E I D H Q S G V D I I I S R F F K Y G N P V L P G N Y R T D I V Y L N G				
UniRef90UPI000345997E	F N P A F F D G A G G Q Q V D I I I T K F S Q G N I V L P G N Y R T D I V Y L N G				
UniRef90_D4E257	I F F N P S F L S G D P T A I A D L L S R F F E K D E G Q A A G Q Y H V E I Y L N G				
UniRef90_E8Y1B6	L Y F N P A F L V A S D S Q M V A D L L S R F F E K G A Q L P G N Y Q V D I Y I N G				
UniRef90_W0SUU4	I Q F N T D I L D V N D R K N I D I I L S Q F S R S G Y I M P G S Y S M V V H I N K				
UniRef90UPI0003092ECF	V Q F F S N A F V G T Q G Q S S V D I I I S R F F E Q G T T V L P G N Y S S V D I F V N E				
UniRef90_X7G529	I I Q F N T D I L D V N D R K N I D I I L S Q F F A R S G Y I M P G T Y G M A V H V N K				
UniRef90_B2UH76	L A Y N T S F L L Q G Q G Q R P A D L L S A L S S G G S S V P P G T Y R V E I V Q V N G				
UniRef90_A5W6W9	F N T T F L L Q G A Q S A V D L L Q M L L I S A N S V L P G N Y R V D L Y S N E				
UniRef90_Q1LFF8	F S S M F L R Q S P G E Q I D L L S R F F N R G N A A L A G T Y R A D L Y V N Q				
UniRef90_W2DFV1	Q F N T T F L L Q G A P S S V D I I I Q L L I A A N S V L P G N Y R V D L Y S N D				
UniRef90_U2NNQ6	V R F D P I F L S S S E A E A V D I I I S R F F E H R G A A A S P G T Y P A D I F V N G				
UniRef90_L4FRQ7	V E Y D P T F L M G G N A S S V D I I I V S R Y S D G N P T L P P G V Y D V S I V Y V N E				
UniRef90_G0ADD7	F D V G M F A N G G M A G A D F S R F E K G N V V L P G T Y R V D I V V N E				
UniRef90_D4BXP2	Y F D P S F L G T G D E N V D I I I S A F A E A G G V A E G D Y L V S V Y V N Q				
UniRef90UPI0004699776	F N P T F L K G R R D N A V D I I I S R F F E R G Q G T M P P G V Y R A D V Y V V N G				
UniRef90_L8MNG0	F N P G F F G G S D D E S V D I I I S R F F R P D A L P P G T Y R L D L Y V V N E				
UniRef90_W2DXY0	F N P A F F D G V G G R Q V D I I I A K F S Q G N V V L P G S Y R T D V Y L N G				

QUERY	50	60	70	80
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UniRef90_P37924	E F V A T Q D I	R F K T G E K S G G L M P C F D L A W I	K R L G V N T T A F P A	
UniRef90_W1E1S6	E F V A T Q D I	R F E T G D K S G G L M P C F T P E W I	K R L G V N T A A F P V	
UniRef90_V5Z5C3	G F M T T R D	V T F Q A D A Q G H G L S P C L T R G Q L L A S M G V D T G R V P G		
UniRef90_A4W7J4	G Y M T T R D	V T F E H S D D G M R L E P C L T R S Q L L A S L G V N T L I L P D		
UniRef90_UPI000346FBA8	E F I I G T Q D	V R F E T D E K S G G L S P C L T R A M L D R L G L H P A D L S K		
UniRef90_W0LES1	R P V G R N D	V R F S A P S P D A S A P C F T R A L L D Q L G L	N M R A Y P E	
UniRef90_U2LKM8	D F I A T Q D I	R F T N V D P T G G L E P C I D T D W L L K R L G L	N M R A Y P E	
UniRef90_V3POC3	A F V A T R D	V A F Q A Q E G Q Q D L T A C L T A K Q L L G F G V N T R T I P G		
UniRef90_L0M5M7	G Y M T T R D	I R F M A S E K D H S L S P C L T R G Q L L S G M G V N M T A F P A		
UniRef90_E6WUU4	E F I I G T Q D	L T F V A A P P A A G L A P C I Q R D F L Q R L G L	H P A D L S K	
UniRef90_B6XK64	H W L G R F Q	V R F I V P P G G G S A M P C I D R S I L L D Q L A L	D T A K R A A	
UniRef90_V0ADC6	G Y L L T R D	V R F V L D K N D K Q L S P C F T P D E L A K M G I N T L S I P E		
UniRef90_G7HF71	E F I I G S Q D I	V F N T G D K S G G L M P C F N Q V L L E R I S L N S S A F P E		
UniRef90_Y1B6W0	D W V G R Y D	I T F N S T P G T P D A Q P C F D E K L L R R I I G V D F Q K L P A		
UniRef90_B9B5U7	D F I T S H D	V E F Q S S S D D T G L T A C L S G K G V L D G L G I D L S I P Q D		
UniRef90_UPI0003733584	R W V G R A D	V P F K A A P N T P D A Q P C F D R A L L D R I G V D R A R L P K		
UniRef90_G0BBL7	E Y I I G T Q D	M K F E Q R K D D T G L S P C L S R S W L E K Q S V N V S I F P A G		
UniRef90_A0A022GPP9	V Y I I S T Q D	I E F Q P S K E G K L M P C L T P T Q I E S M G V N K Y S V P G		
UniRef90_E3G667	N W V G R A S	V P F K A V A G T A D A Q P C F N E A L L K Q A G V N L P H H V K		
UniRef90_D2ZKN1	E F I I G A Q D L	P A F K T K P P T A G G L A P C I T S S L L S R I L G V N R A A F P A		
UniRef90_UPI00036106F0	A F Q A T R D I	V F N P G D D D T G L T A C L T K A L D D L G V N V Q N I P A		
UniRef90_UPI00046A190F	N W I I G H P A	V N F R V I S E G V D S A T P C F D K S L V A R I L G L N Q T K L S D		
UniRef90_A5WGG6	V L M G Q E E	V R F V T A G Q G D A Q P C F C T P K Q L L A W R L N I Q A F P A		
UniRef90_UPI00039C228D	N W F G K Q R L	V F K P T P D D K S S F T C F T P K Q L L E F G I K A E L I K Q		
UniRef90_UPI00047BDD06	Q L Q G N R P	L R F I A G S D K T L Q A C C L T R G E L E K L G V R T A A F P A		
UniRef90_UPI0004136C94	E F V E T R N I	T F R E H E S D D T G L V P C I T R S Q V E S L N I N M S A F P A		
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UniRef90_Q0JZF2	D F I I A S H D	V E F K N A P D D T G L I A C L S T K T M S D L G L D L S I P A D		
UniRef90_G8WC19	V W L G R A E	V T M R Q V E D S R N V Q P C C F D R A A I E R M G V D L A R S P E		
UniRef90_J2LCF6	Q L V S T E D	V N F K A A K G G Q D L A P C C F T T G R L E Q M G V N T K A F P D		
UniRef90_UPI0002F5577E	A W L G R A E	V V F R N M G D D A G A T P C C F D R A L L D M A G V D F E A L A A		
UniRef90_Y1CY52	V W M S P R E A	V F R F A A P S A K A D A V A C L S R K M L D Q F G L H P K M G D D		
UniRef90_Q62K8N	A F V A T R D I	T F Q P Q A D D T G L T A C L S A K A L E N L G V N L I Q A F P A		
UniRef90_B2VGZ5	E A I I E R R D I	T F V S E D G R E D A I P C C L S A R M F D E W G V D L A A F A K G		
UniRef90_A0A031IS20	D D I P E Q A V	V N F Y P D D D V K D S Q P C C L S P E L I A L L G L K P E A M K G		
UniRef90_B5F701	Q W S G R E S	L T F S A M E G Q D T A Q L C L L E R E A L M R V G V D M D A I E Q		
UniRef90_UPI0004753094	T F L A T R D I	J A F Q A V K D D S G L R A C C L T P E M L K N M G V N T G A F P L		
UniRef90_UPI00016A475D	E Y I I G T Q D	M R F S A N K D D T G L I P C C L S R E W L S Q R N V N V E A V P V		
UniRef90_J5CMV1	N R I I A R A D	V P F K A V E T N V D A Q A C C F D A K L L E R V G V T P E L L A R		
UniRef90_A0A023CFJ2	N H V A R E S	V R F T A A H E G E N A R A C C L T R K M L E A Y G V D F T K L T T N		
UniRef90_L4VWN3	Q W V G R E T L	T F V A I D G Q K T A Q L C L E P E A L Q R L G I D L H S V D N N		
UniRef90_H3LYC7	T I V D T R N V	N F V F E L T P E K G I A A C C L T T E S L D A M G V N T D A F P A R		
UniRef90_UPI0002EEA082	E F V V T R S Q L	F N E V D D G T G L V P C C L K L K Y I E A L G V N T A A F D R G		
UniRef90_I2V9Q9	Q P V S E Q S V	T F Y P D D D P K G S Q A C C S P A L V E Q L G L K A T Q A A G		
UniRef90_F6AR28	E Y I I G T Q D I	R F D V L L D D N T G L V P C C L S R A W L E N Q N V N I Q A S P V		
UniRef90_Q1LDF5	N W V G R S E	V Q F K A L A G S Q D A L P C C L D K A L L E K V G I D L S R L P A		
UniRef90_UPI00035F919F	A W L G R A E	V N L R I G D D A H N V Q P C C F D H D M L E R M G V D L A K L P P		
UniRef90_H8L2Y3	D S V T R A Q V	P F R A A A D G K D A Q P C C F S R A L L E E L G V D L L K L P D		
UniRef90_I2IH36	D W I G R R S I	R F V A V P A S M T A W P C F T S G Q L D E E L G I K P A A V A G		
UniRef90_A9IDF0	N N V T R T Q I	T F R Q V G G K K D A Q P C C F G A V L L E S L G V D L Q K L P V		
UniRef90_H3LX82	R R V G R G T	V R L R Q L A G E A Y P Q P C V D T D L L T T A G V V N V Q R D A A		
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UniRef90_Q13SB4	R N I I E Q E	V V F K E K K G A E E V Q A C C L T P Q Q V E L L G L K H D A L A K		
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UniRef90_W0H617	A L S G R R D I	T F S R N E S S G L I E P C C L S P E M L E N F G L D P Q R		
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90 100 110 120

QUERY	M N L L A D D A C C V P L T T M V Q D A T A H L D V G Q Q R L N I T I P Q A F M S		
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UniRef90_D4GEJ1	L S F D H N D D C A D F S A L D G V R L R G D L S T S S Y I I S S V P P Q A W L		
UniRef90_Q13SB4	S S D A K T P A C C V D L A A T V P D A M V D F D F A E Q K I I A L S S V P P Q K Y M R		
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UniRef90_G7HAI2	E I P T A L Q G C C M R I G E V P D A S V E F D F E T Q R L E L S S I P P Q A M L		
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QUERY	N
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UniRef90_P37924	N
UniRef90_W1E1S6	N
UniRef90_V5Z5C3	N
UniRef90_A4W7J4	N
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Y F D P S L E T S G Q Q A V D L S T F S Q E N A Q L P G D Y I V
V E F N V N F I I D S A D R N N V D L S R F F S K G N P V P P G T Y K T Q
V E F N D Q F I L F N T G T N I D V S R F F S K G N P V P P G T Y K T Q
I E F N D Q F I L L N G S T N I D V S R F F A Y G N P V A P P G T Y R T R
I E F N D Q F I L D S E D K Q N I D L S R F F S Q T G Y V M P G K Y Q L T
I E F N D Q F I L V G N A Q K I D I G R F K Y G N P I L A G E Y S L D
V Q F N D A F L P E D S R N I D L G K Y Q T G N P V T P G Q Y R A D
Y F D P A A L E S P Q Q K M A D L H Y F A K S G G Q Q P G V Y S V
E F N A D L H G G I G A N L D M S R F F E R D G L L P G T Y S A D
V E F N D Q F L F N T G N S I D V S R F F S H G N P I V P G T F K T Q
Y F D P G L L S L T G G A T A D L S T F A K Q G S I P A G T Y L V
V E F N D Q F L F N T G T N I D L S M Y E S D G A Q L P G T Y R V T
F D Q S M L L G G Q Q N I D I N K F S E N N Y V P T G Q Y L V
Y F D P G L L A L G G S Q T T D L T V F E S S Q G T P P E G R Y L V
V E F N P A F L L S D S N A Q V I A D L S K L E S S Q Q L P G V Y R
V E F D A D F L F G S S K K N I D V Q R F S Y E N A V P A G E Y I A
Y F D P A L L N G T D K D S I D L S V F A R S D T V A P P G R Y I V
V E F N D Q F L F N T G T N I D L S V R F F S Q G N P V V P G T F K T Q
V E F N T D V L D A A D R D N I D L T R F F A T D N Y V P P G E Y L
I E Y D A N F L M G S S A A G I D L S R R Y S E G N P V L P G K Y N
V V F I D A Y M L A Q G A E G T I D T S R F F E R L L D I V A P P G K Y R
V F N A A H L E D G G Q A A T D L S A F E E H G G Q L P G R Y R V
I E F N D Q F L F S T G D N I D L S V R F F S K G N P V P P G T Y K T Q
V E F N D Q F L F Q T E G A P I D T S R F F E R Q G F I L P G N Y R
E F N S G F I T G S Q E N V D F D R F F N T T G I S P G K Y S V
V E F N D Q F L L N G S A N I D I N R F S H H G N P V L P G T Y R

50 60 70 80

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UniRef90_F8VME0	D L V T T L K V E F V D V K N G K T Q A C I T P R M L S Q L H R L P D D I P
UniRef90_X7GJS3	L V L P E E P V A F Y A P E D E G K S V A C I S P T L V E K L K S D A L A K
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UniRef90_I4K3Z3	Q S A G R R E I S F V S R D D K D N V Q P C V S A L E L A Q L G V V L I P P
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UniRef90_J5UMY5	N Y V D S R D I V F V S H E S D L M P V L T R A D F T Q W G V K P N A Q P N
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UniRef90_Q933P2	Q P V T F L E Q P A S V I A D G K K M Q P C L T A E M V S R M G L T E A S Q K K
UniRef90_V2J5X1	Q F I N N K D I E L R A R N D K S I Y P C C L S T E V L K S I T F N Y D K L P D
UniRef90_L6YBR9	K N T V T Q E V E F K D N G T A R A A P C I T A Q L R Q A G V D M T S L Q D
UniRef90_K8BDY3	Q A T L T S E I D V V A Q S D K T S R V C C T P D L I K T I P F N Y E T L P K
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UniRef90_UP1000465650C	Q L V S N T D I E F K A R A D K S V Y P C L T R E L K N I P F N Y G R L P P
UniRef90_I4KSZ3	Q P V S E Q T V A F Y P P E D P K G S Q A C L S P G L V E L L G L K A S D A T K
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UniRef90_F1ZEG5	Q A S A N L K I E F I E L D P K H A A Q P C I S A N T L L Q L H I R D N A I L Q
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UniRef90_S3IY18	E Q V D S K A V T F F Q T A D K G L Q P C L T V A D L A Q Y G V R V D L Y P E
UniRef90_X7HXM6	K S V A S S L T L P F V D V G K N S A Q A C L T S K N L L A Q L H I N E H A I L K
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UniRef90_H3LNN8	K P V V N Q D V R Y V A E G H G T T P C C L T P E L I T Q L P L R H E M L P D
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UniRef90_N9EWI6	E Y V V T R D I Q F V E K Q D A T G L M P C L D L K L E S F G V N M A A Y P E
UniRef90_W1H225	Q E L G Q A D I T F V D D G G Q L R P V L T P G Q L A E Y G V N V S A F P A
UniRef90_L8C0K3	K K V S Q K K T F T A N A E Q L L Q P Q F T V E Q L R E L G I K V D E P A
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UniRef90_W0LCG1	E Q R D T Y N V E F K N S E E Q D Y L Q P C L S V E Q L K A M G V K T D L F P A
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UniRef90_K8VY98	V K I T Q P I T F F N P K Y D E K I S I S L A C V T P K L F E Y L G M R K E W D S K
UniRef90_Z5TAX6	E Q V D T Q T L D F V Q D K H G Q L T P V V T P A L L A Q W G I K I G D D A
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UniRef90_J7GEF1	T L K S T V D I I F K D N G T P R A T P C L T R L L S Q S G V D T T R A G D E
UniRef90_L0LYB1	K K I V Q R K L I S F V A N N H R L V P Q F T L A Q L R E L G I K V D E N P Q
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90 100 110 120

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 L R W W H D G Q C L D L G S L K G M T A K G D L G A A T L L Y L N S I P P Q A Y L
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 L A G H G D C A N L A A I P Q A S A E F A F E R Q Q L R L S I P P Q A A V L
 D E R S A D T Q C C R E F T Q W I P L A S S Q L D I E T L T L D V N S I P P Q A Y L
 D K L I P D N T P L N V A E L I P G A S I E F D V N S L S L L V S I P P Q A Y L
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 L T F W P G T Q C C V R L T L P D S S V V Y S P D Q N Q A L S I T I P P Q A D L
 L R W S H D G Q C L D L T S L K G M E A H G D L S T S S L L V S I P P Q A Y L
 D N N L E N N T P L D I A A L I P G A S V D F E V N Q L A L L V S I P P Q M Y V
 L T W W H D S Q C A D F S A L E G V S F R G D L S E S A L Y M A V P P Q A W L
 F K S W H N G Q C I D V M A L L K G V E V T P D L G G S G M L L S V P P Q A Y L
 W M A L D E S A T V N I S N L L P G S Q L H F Q F N E M R L E L S V P P Q E Y L
 T A K E A S H C Q S L E Q Q V E G A S S R F D F A R L R L D L S V P P Q I L L M K
 L I N D D K G C T E I I T V I P Q A S A T F N F N L Q R L L L T I P P Q A A M Q
 L R F N D N Q T C L D T S S I P P G M T I N A S L G G S G N L L L T I P P Q A Y L
 Q P L P T G E T C A P L S S Y V P G A S S V F S P S T Q Q L D V S I P P Q V A L
 A S V E S G A A C L D I A Q L I E G A S A V F S P S T Q Q L D V S I P P Q A Y L
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 L S S S N P Q C V D F I S I I D G A N S H F Q F D K Q K L L S L P Q A S L
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 V T Y W N N G Q C A D L S Q L P G V E I R P N L A E G M L Y I N M P P Q A W L
 F N Q S N V E G C C I D L Q Q Y L P E A K V N Y D S N E Q R L D I V I P P Q L Y M
 D D I D E M A C V D I K E R Y P N A S V N F D S N E Q R L E L T L P P Q I Y V
 D A F R Q G Q P C L D L E K T L P H S E I V F D S S E Q R L D S V P P Q I Y L
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 A S M V F N N A D V R N I S L P H A S F D F D F G R Q K Q L D I M I P P Q V Y
 G F L G P Q G Q C M D L V S K L P E S K V N Y D S N E Q R L D I M I P P Q V Y
 L I A W K N G E C L D T Q G L P G T E V S A D L A T S T I L N I N L P H A Y L
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 L K W S H Q G A C L D I G S P G M L V R G D L R G R G V L Y L S V P P Q E A L
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 L A H R P A E A C F D L G K L E Q A S V D Y Q P N T L A L N D L S S V P P Q I A L
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 E N I L D E Y S P V D L V G L V Q G S S V E F D V N N L A L L V S S V P P Q A Y V Q
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UniRef90_K8WGZ9	D W K G R Y E L N F F E E Q K N K Q L G V C Y T R E L L S N L G I D T E K F N P			
UniRef90_B6VL69	D K V N T R N V T F V M I N N K L L P K L T Q Q L Q D M G V K I D T F P E			
UniRef90_D4BB11	N F Y N R E T L L F S A D K Q K Q V S P C F S R E Q L V A I G I L P G S I Q A			
UniRef90_W2UY51	H R I P E Q V A F Y R D D E P N S S E V C L P E A V V E Q F G L K P D V L Q K			
UniRef90_W8UYP2	R L L P N S Y I T Y L P V D E G K S S R V C L S P E L V D L G L S P A V R E S			
UniRef90_H2J0T5	K H T G K H D V N F V E D E E K N L T P E I L L K E Y R N A G L K I N D I K E			
UniRef90_UP10004639D6D	Q L V D S R N V D F K S E K N E S V L T P C L T V A L L Q S Y G V K T D L F P K			
UniRef90_UP1000329E220	Q E I P Q Q Q I S Y V A D P Q N A H T L V C F T P Q Q L T L L A L K D E V Q P Q			
UniRef90_G9Y449	R F I Q R D S V D F V N N S A Q K E S P C L S R E F Y V Q S G V N E S A L P Q			
UniRef90_Z5UTA4	K Y V S S D S L T F I S H D A G A T A S P C L S A E Y L N S W L I N T T A Y P Q			
UniRef90_F7SUQ5	R L I Q A R Y P V Q A V P V I G D G T V F C V T P A M I D M L S L K D E A A A R E			
UniRef90_C4UP13	D F I G L N S N F I A G N N G Q L P P E V T K Q Q L I E W G V N P N S S S E			
UniRef90_V1W559	E Y V D T D V F T F K S S A S H G R L Y A C V T E E R Y S Q W G I A Q P D T S P			
UniRef90_D2ZBH2	Q L V E T K D V Q F I A G K A A D P L Q P C L S L E R L K A W G V K T A L F P A			
UniRef90_B6XAL6	N L K Y R R N M A F V K E Q D P T G L M P L L T K Q D L T E L G V N T E T S A			
UniRef90_UP1000300F700	R E R H Q E I T F V N E K G S L Q P V F S V S L L E A L G V N V R A I P A			
UniRef90_A0A022HD90	R L I K E Q Q L I F N N N P D G T G S Y A C L D N S I V S R L K E E V S R N			
UniRef90_U2NH57	Q W K G R Q D V N F S L A S P Q S L A Q P C Y D L K S L F D I A L D K L D K			
UniRef90_UP100029B475E	Q F L E N R D I R F V E A P A P V G A T P C L P M A L L G R L N L K D S Y L A D			
UniRef90_J4J7A0	Q R L S D T L I H F A P P D D P R G S L A C L A P E H V A E L L G L R Q G T I D K			
UniRef90_UP100037682F8	Q W R G T E D I E F R Q V P G K E S A Q P C Y S R E L L T R A G V V Q D P Q H V P			
UniRef90_B1YQ83	Q W R G V E D I T F R R D A R G D V L P C Y D R T L Q R A G V D L D S Q P P			
UniRef90_F5RVN6	Q K K L L T D F T F K D N G T P R A T P C F T A K L L L Q A G V K E A R L K E			
UniRef90_D2TK17	Q L I D R A R V T V R G D N E A S Q L C F N S A L L T R L N L N T T R L S E E			
UniRef90_D3VB57	N E F P E M Y P I A P P D D P K G S E A C I S P E L V K Q I V L K P E W M E K			
UniRef90_H3LU57	K K L L T Q R K I P F A A G D N H Q L I P Q F T V G Q L R E L L G F K V D E I P A			
UniRef90_A6T559	E M V D A R D V M F S K N Q D G K L E P C V T L A E L L S Q W G V D T A S F P E			
UniRef90_D3UWP8	E S I D T G N V V E F I L N D G E L R P K L T V Q K L Q D L G V V K I N A F P V			
UniRef90_W2DGX8	L P V G R H E L A F I E L P G Q A D V S P C L D W P L L A R L G V V K N K V E D			
UniRef90_S1FLF3	K A V S N S L T V P F I D V G T Q S A A C I S P E L V K Q I V L H I R Q P D N S V			
UniRef90_B4F1S9	N L I L T K N I R F D K D K N Q N Q L K P C L S V N D L L N D F G V K T T D Y P G			
UniRef90_A8AFU6	Q F L D T Q D I A F N K T P G E D A L L E P C L S G E M L L Q R Y G V V N I A Q Y P G			
UniRef90_UP1000469CA7D	E L Q G T N D V D F R M A D G K G S L Q P C L S V A Q L N A M G V V K T D L F P G			
UniRef90_E3HLJ3	Q W R G V E I I Q F R L L A G S D G S D G T P C Y D G E L L A R L G L D T D K A A R			
UniRef90_A8APL5	N Y L A S Q D I S F I D S K S G L I P V L T R A D L V Q W G V V K R N A Q P E E			
UniRef90_M4WTK6	K Y A S R A E V E F R A R G D S V E P C L S E R F L R Q L G V V R P D P K K			
UniRef90_R0F0A2	T S V G I H D I N F T L Q K D T Q T L Q P C L S I D L L A E F G I I R T D A F A K			
UniRef90_B6XAC2	E R L G N A R D I T I G A P D S L F S V C I P A V I T D Q L G L K P E A I R L			
UniRef90_E2QGQ6	E K M A S R T L D F S T A S E A Q R L I M P C L S R V Q L E E M G V R I D S F P A			
UniRef90_UP1000367CD68	E Q Q D T L D V N F I T G T D G K L Y P E L T P A L L S Q W G V K V A S L K T			
UniRef90_T7GZ45	M L P Q T L I L E W V K A D N E S G S L L C P Q F T L K E N L T S F G L N T E F I E S			
UniRef90_Y1P5B9	T Q R D E R E I A F V V D T G G T L S P V L N L A Y L Y K R L G I N L A A F S S			
UniRef90_H8L5I3	T W L G R A A V R F A I L P G H R D A V A C M S R S L L E Q L H R P P T A V A			
UniRef90_S3JYA0	S S L S Q Q R V V F Y Q Q A N P K E S E V C L S P G L I D L F G L K P E Y L R Q			
UniRef90_G0JA77	K N R G K H R I R F E L S E G E S T A E P C F T L E Q L D S I G L K I E T S D T			
UniRef90_W0ARU5	Q K M E T R T L E F K A A T E S Q R L V P C L S R T Q L A D M G V V R V E S F P A			
UniRef90_W7G111	E F F R E N R D I T F L A A P A P Q G A V P C L P V A V L V R Q L G L K D A Y L A A			
UniRef90_A0A059IB89	K H A D S R K V R F V T I Q D E T G L M P C L S V S E L L K E L G V V R A S V L M A			
UniRef90_L8XCW6	E L K D S M L E M N F V S D E A G S L P S E I S L A Q L K E W G V Q V N S S S K			
UniRef90_U2NRG0	Q S L P E E L P I F P V D D P K G S E P C L T P T R L V K M L G L R E S Y L D K			
UniRef90_A8AIY4	N K V D T R D V T F K L Q K D V K S L Q P C F S L D D L K S L G I K T K A F P R			
UniRef90_X5GKB9	H R L V S T T N I V Y V S S H E G S L I P Q L T P D M L R A W G I A I D R Y P A			
UniRef90_A4JKF1	R L L A A R A L D Y V Q G N Q P G T S V A C V P A D L V A Q I G L K Q T L L A T			
UniRef90_V6EOS0	Q P L P D D Y D Y A T E N D P N K S Y A C C L S P E L V V D Q F G L K E D I A K N			
UniRef90_S9RZU5	E L L Q R E S V F V M Q S P D P G L S Q A C C L P A T V L V D Q F G L K P A T R D A			
UniRef90_I3AKG5	E L R G K E S V R F V I P P N Q S G G E A C L T R D Q I K R I G I R V T E S G E			
UniRef90_K4H7X2	R Y L D T R T I I K F V S D N R E P A L V P C L S L K A L A E Y G V V R I K A F P E			
UniRef90_UP100016A36FB	R F I I G R E T I T V K P G E G A D G A R I C C V S R T L F D R L A I D A A Q V P A			
UniRef90_UP100032A3611	A E L L P E R S V T F M P D D P Q G S S P C L T Q D L V S A I G L T A R A M G Q			
UniRef90_D2ZH40	N K I I D T R D V T F T L Q K G E T S L Q P C F S L D D L K S L G I K T K S F P G			
UniRef90_H1RP65	N G I G Q Q D V L V Q D A Q D G R A S R Y C F K R N Q L A S G L D A A R V V S D			
UniRef90_UP10003F73AEF	Q W I G R E D I N F A P V A A T I A Q P C Y T L K L M D L G F D L D K I D K			
UniRef90_J3F857	R Y F G T R S I E F K G L D D N A Q E S Y A C L P L V L N M F G L K P D V L R D			
UniRef90_V6MMF1	N E L P D L Y T I N Y P E N D P K A S V P C I P R E L V N Q F T L K P E W L K A			
UniRef90_S5N468	E Q Q G E A Q D I A F V T G A D K K L T A Q L T P S M L K A W G V V N T A F P A L			
UniRef90_D4BZ19	I L L M D S K V I E F V K D D K S S Q L I P R I T K E E L A L L W G V V K V N S I P A D			
UniRef90_B4TK00	A L K K S T S E I T F T N E N G T P R A S A C I T P L L L T Q A G V V D P A A M R D			
UniRef90_B4EV66	E W K G K A N V Q Y L Y T D N A N T S T L C L T P E I L L S L I D V V K G T V P E			
UniRef90_R8X156	E R V G T Q D I A F E F F N V K G T L E P C F S A A D L K A L G I K L P P P D			
UniRef90_UP100046F7024	Y Y V S A R T V R F D Y V R D N T G L T A V L N R K E M E K L G V V N V S L F P A			
UniRef90_H2IQZ3	M L K G R Q D V T F I A L K D Q T S L P F T P A E W Q T L G L K T G S I A A			
UniRef90_V5Z3Y8	T F I E R A D V H F I L Q P D D K V T P C F D I R T L Q H A G I K F D S S R L L			
UniRef90_V6A2G7	Q R L D T R T L A F S L Q P D E Q R L V P C F L K W E D L Q G F G G V V D L A A F P A			
UniRef90_E0LZA2	E Q V D S R E V V F V Q Q E D M P V L Q P C L S R K Q L L R Y G I K T E D Y P A			
UniRef90_F0KWQ3	E L L D T R D V T F V S M Q M K N Q K E S L Q P C F S A K A L E I G V V K I E A F P Q			
UniRef90_K0C4X1	H P V G R M P V T F N E S E R S S D L T P C F S A Q S A E W L D I N P A Y L S A			
UniRef90_W7NNW0	E K V D A R E V L F F N K D G K N T L Q P C L S V K E L Q G Y G V V K T S L F A S K			
UniRef90_E5YK1N	Q A V S Q Q N V I Y R T A N N A D T S F V C L T P E Q V D F L A L K K E A Q E K K			
UniRef90_C4SZL3	D F L A R E S V F I A G T Q G K V A E C C L P C F S M E L L T A G I L P D G I K L S S			
UniRef90_UP100037CEEC4	Q W I G R Q E M M R F A P S P E S K V A T P C F C D V K L F E D L G V V D T A K L S S			
UniRef90_D2TQS5	Q Q I G Q E K I R Y I E A P D G K R T L Q P C I S S D L L A K L A L K E D A R L Q			
UniRef90_D4XF4N	Q F I G G A K E I E F A A V P G K E D A Q P C I L P V S L L E E I G V V N M L A F P H			
UniRef90_U2MAA7	Q R I G G N K I E F K Q K A Q P G N N Q T L Q P C Y T P G S F F S L N N A E K L L A			
UniRef90_UP10004686826	K Y L K T E S V F F E F F N N N N N E K N L Q P C I S I E L K N L G I K T E M F P E			
UniRef90_A9MGC1	A A Q G T Y D I P F S M Q K N Q Q S L Q P C I S I D M L K S F R I R T E L F P Q			
UniRef90_UP100046300A7	T K F S T Q D V E F F K L N A A G E L S P F L T P C I S I D M L K F G V V T T E N S K			
UniRef90_B4EXA1	E Y V E T K N L I F Y E S D D T G L L P C I D N K G T L T F F G I T T L T E N S K			
UniRef90_K1BMB8	R L E R R Q D I S F I V D E S P N A R P L L K F G M L R E M G V V D V E R M Q K			
UniRef90_D4BU62	N W K G R Y D L N F E E K S G Q L V V C Y T P Q M L S D F G I N I E K L N P			

	90	100	110	120
UniRef90_K8WB57	L Q D G N D Q C V N	S A I P E A K S E F E H S Q R	L Y L N I P Q I A L	
UniRef90_N3IDL4	V T Y W N N E Q C A D	S L L P G V E I R P N T A Q G M L	H N M P Q A W L	
UniRef90_X8KM62	L A A L P P E K P L N	G H Y I P M A T T D L R F S Q L	I V S I P Q A A M	
UniRef90_K8WGZ9	S I D K N S A T C L P	D E W N S D K E V K F H T S T L	R L D I S I P Q I Y	
UniRef90_B6VL69	L S L P P E T E L S D L	G Q Y I P S A N T T F N F S Q Q R	L D I S I P P Q A A L	N
UniRef90_D4BB11	K D D H D T C L R	L D E K E E L T A T Y D K E K Q Y	L A N V I P P Q A Q M	
UniRef90_W2UY51	I T F W H E Q G C A D	T E Q V Q G S S A Q F D F S L L R	L A N V I P P Q D W M	
UniRef90_W8UYP2	L T L W N D G K C V A	L D E K E E L T A T Y D K E K Q Y	L I S I S I P P Q A W L	
UniRef90_H2J0T5	L L K N K Q D T D V V T	L D K I I D G A Y T N F N F K K Q S	L N I N I P P Q A L	M N
UniRef90_UP10004639D6D	L G G A A E Q C A N L	S A I P K A S Y D F R F N S L K L	L I S I S I P P Q A A M S	
UniRef90_UP1000329E220	L R A L S P E C L D	P K G I K F S N A A G V G L	D I L Y I P P Q A W M K	
UniRef90_G9Y449	S D E L A K S Q C K S	P E A L L K G A S W S F D Q P R L	R L D I L Y I P P Q A L L	
UniRef90_Z5UTA4	L F E A G E T C A C R	P G M T F S V S L A Q Q R I	I D F T V P P Q A A M L	
UniRef90_F7TSUQ5	L A Q V N A A Q C I D	L A T A D S R V P D Y N A E H Q S L	T L T V P P Q A W L I Q	
UniRef90_C4UP13	L A L A D E S T T D I	S T D N S Y N I H G S T T Q F D F S	S Q K L V I L S I S I P P Q A A M K	
UniRef90_V1W559	S G K E G E T C G E G	T G F I P P G A T E R L N S E Q N	L I I S I S I P P Q A Y L I S	
UniRef90_D2ZBH2	L S Q D S A D C C V N	E A I P Q A S A R F E F A A Q R L	L I I S I S I P P Q A A I	
UniRef90_B6XAL6	F T Q S E S D Q C I N	V Q L I P P N A H T E F D F P K M K L	N I I S I S I P P Q I A L S	
UniRef90_UP1000300F700	F S R L R E E T F T H	D L T S E Q S N V T Y S A D D Q S L	F L I S I S I P P Q A A M K	
UniRef90_A0A022HD90	F K V Y A G T Q C T D	A D F I P P A R T S Y D F N Q Q R L	T V P P Q A W L	
UniRef90_U2NH57	A R L Q Q G E Q C C I A L	G L G E L V P G V E G N F D S G G Q R L	P Q S L L Q P P Q A A	
UniRef90_UP100029B475E	L Q E D A E G C I A L	P A L V E G A T V E F D A G N Q L	L L V S I S V P P Q A A	
UniRef90_J4J7A0	L A W W N D G A C C L	T G S I P P G M Q V N T S L Q G Q A I	L D V S I S V P P Q A D L	L
UniRef90_UP100037682F8	D P V P E G A V C D E	S R Y I P P G A M Q V N T S L Q G Q A I	D V S I S V P P Q A Y L I Q	
UniRef90_B1YQ83	N P M P D G P I C D A	P S R Y V P G A A L S F D A A E Q K L	A Y L T V P P Q F Y M R	
UniRef90_F5RVN6	V T S E A Q E S C L T	D K A L P G S S W D Y D P G T Q E L	L L S L S V I S V P P Q I Y I I	
UniRef90_D2TK17	E S M M A R S E C C P H	E T L I P G S R A Y L N V S D M R L	P P Q A Y L N P P Q A Y L	
UniRef90_D3VB57	L S W Q Y D G K C L D	N T L P G V S A R G D L A T Y T H	D V S I S V P P Q A F V	
UniRef90_H3LU57	L A K L D D A A K V N	A Q T V P N S S S E D L N H G K L	K I Y L I P P Q I M L	
UniRef90_A6T559	L A V V S D S E C A N L	A G I P P D A F A D F Q F N R Q K L	N M S V I S V P P H A A M N	
UniRef90_D3UWP8	L M N L P S E E V I N	S E Y I P P S A S T K F D F N R Q R L	N L S I S I P P Q I A L L N	
UniRef90_W2DGX8	R P A A P G P L C G D L	Q S W L P M A S S N V D P G A L Q	D I S I S V P P Q L Y L	
UniRef90_S1FLF3	V R D S E D G D C L D	I A K S F D Q A Q V R F D G G E Q R L	T V P P Q A F V	
UniRef90_B4F1S9	L L Y S E Y T S C V N	L S A I P P E A K S E D F D S Q R L	P Q I A L L S S S R Q	
UniRef90_A8AFU6	V Q G K G D C A D L	S A I I P Q A S S E F Q F S T Q K L	P Q A A L S S S R Q	
UniRef90_UP1000469CA7D	L G D A K T Q C A N C	T G I P Q A S A F E R F S Q A Q K L	M P Q A A L S S S R Q	
UniRef90_E3HLJ3	L A L S T A T A C G E	S R Y I V P Q A G Q V K L E A A E Q K L	P Q K Y Y L L Q	
UniRef90_A8APL5	W M H M A D T A N V H	S K L L P G S Q L I F Q F D G M R L	S V P P Q E Y L L Q	
UniRef90_M4WTK6	A G R D D Q G G G C H S	S S E R L P G S T F N L D T A R L R	P Q A L L L S V P P Q A L	
UniRef90_R0F0A2	L Q D E G K C A D L	S A I Q A H D L A F E R Q Q L	D L S V P P Q A A V N	
UniRef90_B6XAC2	V K Y R D N D Q C M D	S A L I E G S T L S V D L S T L T L	S F I P P Q A V S L	
UniRef90_E2QGQ6	L K I L P P E A C V A	F D E I I P Q A T S R F D F N T Q T L	H I L T F P P Q A A M	
UniRef90_UP1000367CD68	L G I P K D T V L K N	Q R Y I P P S A T T R F D F S R Q S L	P Q D N M M N P P Q A A M	
UniRef90_T7GZ45	L Q T I A G S E C L N	S Q R Q E L T T R L D K A T M I L	N V T V P P Q A W L K	
UniRef90_Y1P5B9	F D A L H D E T F T D I	G K Y I P P D A S T H F D F T H H R	S L S V P P Q A A M	
UniRef90_H8L5I3	A A L D R P G S C V E I	G Q V F P P A A Q A V P D M A D L R	V F S I P P Q A A M	
UniRef90_S3JYA0	L S W Q V G K K C L R	V D S L I P G T E I R A D L A Q N S	P Q V Y L L V P P Q A A M	
UniRef90_G0JA77	D K A A P K D Q C C Y N	R A L I I K D S H V N Y N S G D L E L	D Q F N L V P P Q F N L	
UniRef90_W0ARU5	L N L V P A E A C V A	F D D I I P Q S S S H F D F S E Q K Q L	V M S F P P Q A A M	
UniRef90_W7G111	L D D E P T T C V D	L A A L V D G A T V S F D G G A L Q	L V T I P P Q V A	
UniRef90_A0A059IB89	Q S N A H E Q Q C L S	P G E R I L P Q A S A K F D F Q N M R L	E I S V P P Q A D M	
UniRef90_L8XCW6	L I G V P D K N T I D	P H Y F P M S S T N F D F S R Q I	L K V S S V P P Q A Y V N	
UniRef90_U2NRG0	L N W N S E Q Q C L N	L G L L A G W T V K P D L S T A T L	S V P P Q A Y L L Q	
UniRef90_A8AIY4	L L M A Q G Q K C A D L	S A I I P P A A S A T F R V N Q Q L	P Q S A L L S P P Q A A L S	
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UniRef90_UPI00046750D8	F Y F S P S S L E G D T Q Q D V D L S L F S R D N A Q L P G T Y P S R V I V M V N T				
UniRef90_U4W9W6	H F D A S L L G G A A K N A D L S L F E Q G L Q Q P G T Y R M D V L L N G				

	50	60	70	80
UniRef90_R5WL95	A F I D T R D V E F S S G K D S S T L Q P C L S V K D F R A F G I	R T D S F P N		
UniRef90_S2K5J1	Q W M G R H R M P L R V Q E Q H Q V P T P C Y S E P L L R Q L G V	D T S R E V R		
UniRef90_UPI0004690ADD	R A V G D A T L T F K L N A D G K L M P Q F T P K Q L E V W G V	N V P Q I P D		
UniRef90_V1NQ1	Q V I K D Q Q V V F N Q D L S E N S S Y A C L T Q P L I D L L A L	K D S V K S S		
UniRef90_Q8VR37	Q S I S P A S L Q I S F V E P Q K L P Q A C L T S D M V R L L M G L	T A E S L D K		
UniRef90_U9DSX9	N W V G R Q S I I R I V N L G R S T T R A C C L K P E Q L R D W G V	A E E K L A R K		
UniRef90_A0A023MW73	S Q I A Q D N V I T Y S V D D P D N T Y P C C L S P E L V S L L G L	K P E I A D K		
UniRef90_G8LLD2	Q L M A T R D I T F K D E K G N D V L R P C C L S L D Q L K Q W G V	R T T L F P Q		
UniRef90_B4F1Z0	K L I D N R Q I R F I F D D D K K V L A P E I S K Q D L L N W G V	V K G S V T D A		
UniRef90_UPI0002D33408	Q F L R S Q D I R F V N Q D D P Q I A V P C C L S P M L V R G L P L	K P A F L E A R		
UniRef90_U2FK78	R S T K R N S V V F T A A A S G E V K P V I T Y G L L K S K D L G V	D L N R L E R		
UniRef90_G5MDN4	T E I G A R N S V D F Q L S D G Q Q A L Q G C L R L Q E L L K D N G V	K T D L F P T		
UniRef90_K8QUC6	E Q Q T A K I Q F I D N H T P N A S P C C L T R E V L D E A N V	D V S K L P A		
UniRef90_Y1D6X6	E L V D T R D I E F K T P N D E G K L E P C C L T V E Q L K E W G V	V K T D L F P A		
UniRef90_S0DE64	L V E T S D I V F K L M D D A K T L Q P C C L T L E Q L K S W G V	K T Q L F P E		
UniRef90_U8MWG4	S Y A S R T R I E F R P R A G G V K P C C L F G E R F L R R T L G V	R P A S E D		
UniRef90_D4BUN3	E R V D R R D V V F S N S E G K P T L V P C C L S V A Q L S Q Y G V	K V E A F Y D		
UniRef90_K8W4A8	Q R L G A P R D I T V Y A Q N N D V E T P C I P A D M L D L L G L	K E S V R E Q		
UniRef90_A0A038CP79	Q E I A Q Q Q V R Y I S D V D H P H T L V C L S R R Q Q L E L L A L	K E D A L K Y		
UniRef90_E2QFT2	S P L L S R T V T F K A D D E N Q L I P C C L S L A D L L S L G I	N K N A L P		
UniRef90_I2EL43	Q N H G Q H D I R F E Q Y A A E K N A R P C C L L K Q L Q E A G I	R L E I P L S		
UniRef90_D4BZS4	N I L S E Q D V N F V A N S K G L V V P E F D K T I L E N W G V	N V K A L P		
UniRef90_UPI000478347F	Q E L L A E Q E V A F Y P P D D N P G S E A C L T R K D V A A F A	K A E L L S K		
UniRef90_J7TGG7	N V I T S D E N I Y I P E Y D P E I T V P C C I T P E L F A Q L A M	K E E W Q N K		
UniRef90_V1FNW0	Q S I S P S A F T V V S V S I S D K K A L P Q A C L T T E M V D K M G L	T T A S R E K		
UniRef90_UPI000302D1CD	R Y V I N T K V A V S T D E K N T S V V C V T K A M L D Y V H F E E A T L P E			
UniRef90_V3GXT8	R L L E T E T R D I R F K D A N G S E T L Q P C C L S I G Q L L K A W G V	K T A L F P Q		
UniRef90_I6RJ56	A F I L E T G D I Q F K A D N G D A S L Q P C C L S L A Q L K R W G V	V K T A L F P A		
UniRef90_K6BS65	R Y F G Q R Q I R F I Q R P T G E G L V P C C F S S P M L E Q M G L	R V E S L A E		
UniRef90_B1Z6J6	K A R G S Y D V L F R A V P G G D V A I P C C F T L E M L E R L G V	D E E A A A A		
UniRef90_B2VL03	N P V T S Q R L R F V A A Q R E G D L T A C C L T G R D M I A F G V	N L Q R Y P L		
UniRef90_Q883W9	R Y F G Q R E L R F D A D P Q G G N L P C C L S K E L L E Q M G V	R I E S L A E		
UniRef90_V1H8Q1	K T I K E Q Q I V F Y L N S D K S S N S F A C L T P S L I D M M A L	K N E V K D N		
UniRef90_K6KP00	T L P R A Y N L E W I K S D N E N G S L L C L T Q E H L T E F G F	A D A F I L S		
UniRef90_G9WBJ6	K K M E S R T L E F K A A T E A Q R L V P C C L S R V I Q L E D M G V	V R I D S F P A		
UniRef90_C4TON7	K E R I R Q D V R V T D V E G N Q H F C F S T A D A K R W G A R L E Q L P D			
UniRef90_UPI0003648A17	K E R E V I T I N F I Q L Q N N T L S P Q L T V G D L K N L G V	N F S D F P A		
UniRef90_UPI000471E189	R V I D S R D V S F V Q G K A G L V P P Q L T V A E L L A A M G V	N V N G F S A K		
UniRef90_V7ED67	Q F L E R D Q I R F V R A G K Q V L P C C F D R P Q L T R F G L			
UniRef90_UPI0002556EDC	R F V E R R E V L F S R K D E Q S D L A P C C F T K N T L S G F G V	K V D A I K A K		
UniRef90_C4U5A6	S T L P S T Y E V S Y V P Q N T Q E T I P C C I S P E L I S H L A L	R N E W Q S K		
UniRef90_A0A028Z3A7	Q E K F S K E I S F I E V S A G K T V P V L T K E M L N D L G V	E V G H I P S		
UniRef90_L7ZJF5	R L I Q G Q T L V K A V P V I G D G T V F C V T P G M V D M L S L	K D E F R A R		
UniRef90_D2ZI80	E R L N R Q I I K F V A E D S K R V F P C C L D V S F W R E T N I	I S T F I D		
UniRef90_K8WL97	R K L G T W P I S F I P A N N T Q G V N A C M T P E M I I R F D V	D T S K L P E		
UniRef90_H5V0J1	E N V D T R D V V F T R R E G G M L E P C C L I S T E L L E G Y Y G V	K T A L L Y P G		
UniRef90_R4Y215	Q S V A K Q N I K F S T R E N K A S L E P C C I S Y E Q L E A Y Y G V	R V E A F P Q		
UniRef90_B8E3T7	R S L G E Q Q K I K V I P N D I F Q P C C L P K N I L L E L L D L K D S S K K L			
UniRef90_V3CYZ9	U N I F I Q L Q N N T L S P Q L T V G D L K N L G V N F S D F P A			
UniRef90_A0A023VED7	R S L I G E L K L L F K H V D T N P S A V L C I D A D I L L K R L D L Q P Y Y L N S T			
UniRef90_D4C0U2	E D Q G Q K E I H F S A D E Q G N I V P E I T P A L L L D E Y G V N V D S I P T K			
UniRef90_C2LMQ8	V W K G K A D L L Q Y L R T A N T G A P T L C L T P E L L S L I D L V			
UniRef90_U3T172	R Y F G Q R E L R F D A D P Q G G N L P C C F D R P Q L T R F G L			
UniRef90_B6XA63	Y P L I R Q Q V R F V A A Q A S Q G A V A C F T Y Q G L E A M Q V	R V E S L A D		
UniRef90_UPI00037AE77B	N W K G R Y D L N I T Q Q K D G N L G V C Y T P A M L N N F G I	I N A E K L L N S		
UniRef90_A0A038GFJ6	T L V K R Q D V A F R A D A E G T V K P A V T V G L L R T A G V	N V A R L E E K		
UniRef90_A0A058YVL4	Q F L L A R D I S F V V A S S D P H L A T A C L P A E L V G H L S L	K P A Y L L D A Q		
UniRef90_K8WCJ9	N N R G K R S I L F K N I T T N N K R A D A C F T P E Q I E A L G I	I P D S R N Q		
UniRef90_B1YYQ4	N W K G R F E L D F V A K Q N G Q L G A C Y T P A M L L A D F G I	N V E Q F T S		
UniRef90_A0A023Y6N6	R F F E R R E I H F F R T T N N E S A L L Q P C C F R K N T L A T F G I	K V D A I K A		
UniRef90_UPI000468A332	V W K G R T D V N L R I A G E P K N V Q P C M D R A L L E M A G V	R L S A G A D		
UniRef90_D1NZ41	N Q I S S G Q K I R W Q K A G D Q I K A C I D S S L M D K F G L	K D E V R Q S		
UniRef90_D6DPN3	R F F E R R E I D F V A G K D N D S L L Q P C C L S M D Q L K K W G V	K T A L L F P N		
UniRef90_R4WH96	U N I F I Q L Q N N T L S P Q L T V G D L K N L G V N F S D F P A			
UniRef90_B7LKQ1	G F I R N V S I E F K Q S N D K V I A C F T K E I V S L I P F N K D T Q E K			
UniRef90_A919L3	V M L G R D D V T V R E V R P D V A Q V C I G R P L L D K F N A D P R R F A P			
UniRef90_M5QYN4	K F V D E Q D L R F I F D K Q N K L V P E I A K K M L L S W G V	K N T A S Q A		
UniRef90_Y1H253	E L S G T Y R V D Y I V P D D P K A S E P C I S P I L V K Q F A L R P E W L K K			
UniRef90_D4BX47	Q L I E T S D I D F V A G K D N D S L L Q P C C L S M D Q L K K W G V	K V N A I K A		
UniRef90_U2FWX0	U N I F I Q L Q N N T L S P Q L T V G D L K N L G V N F S D F P A			
UniRef90_I0DZS9	V M L G R D D V T V R E V R P D V A Q V C I G R P L L D K F N A D P R R F A P			
UniRef90_B4EU1	K F V D E Q D L R F I F D K Q N K L V P E I A K K M L L S W G V	K N T A S Q A		
UniRef90_J7GEPO	E L S G T Y R V D Y I V P D D P K A S E P C I S P I L V K Q F A L R P E W L K K			
UniRef90_A8ARQ2	R F F E R R E I H F F R T T N N E S A L L Q P C C F R K N T L A T F G I	K V D A I K A		
UniRef90_E3G630	K W R G R G E V K F E N D K S N A V V K P C F T L K L I S T L G I	D I D K I D P		
UniRef90_M4TN59	Q L V D T R D I A F Y V V K D D P Q L A P C C L S V A L L Q S Y G V	K T A Q F P G		
UniRef90_W2DGE1	D Y Q T R E R V E L I V N P D N A N L L P L L D A A H L Q Q L G I	D A E R L A Q		
UniRef90_W5IMC0	Q L V S R Q E I R I N A D K N G G N P V C I N R K L L E L A G V	D M S A D A T		
UniRef90_UPI000469AD04	R L E R R Q D I A F K T D E E K D D A Q P V L S L G L L R E I G V	D V E R L K K		
UniRef90_A4Y249	K Y V N T Q E L F Y S D K N T H K L R P C F T D T E L A D Y G I	K P E Y Y S L		
UniRef90_D4BK13	R F V S R E L L Q F I E L S D N K V E P C I E E A I W T K A G V	R P E F M A P		
UniRef90_I2BS31	D H I L T S M V V F M T G D D G N V F V T E K V L T Q P L G V	K Y D L K G H		
UniRef90_UPI0003C77F5C	E W K G R R D L H I T R D E H G E L G V C Y T R E M L A Q F G I	A S E K L N R		
UniRef90_H2IVA4	E I V D T R E V K F D T A D G E A S L Q P C C L S V A Q L K S W G V	K T E L L F P D		
UniRef90_E1HTS4	V D K G D K A V D F I D T N K D G V G D A C L T P V L L K Q A G I	K D A G W D K		
UniRef90_F0KS89	N K I S S N G Q K I N W Q K K G D K T I P C C I N D S L V D K F G L	K P D I R Q S		
UniRef90_UPI00046820C8	Q W R A M E E I E F R A G A D A Q N S Q P C F D R S S L L Q Q L G I	N D S V L K N		
UniRef90_T5Y9D7	Q P L S D E Y D I Y V S E N D P T K N Y A C L T P E L V A A L G L	D L S K A D A		
UniRef90_H3MVV1	Q L M D T R D I T F S T V K G K Q S L Q P C C L S V D Q L K S W G V	R T Q Q F P D		
UniRef90_E8XV12	K L K I R H S I S Y L S K P D G T L E P Q I T P D I L R L G V	N V D A F P A		
UniRef90_UPI00046750D8	R A Q P E E N I R Y L S G P D G V L Q P C L S T P A M L R R W G V	Q V D N Y P V		
UniRef90_U4W9W6	E Q V D S Q D I T L R K A P S G D S L Q P C C L S V A Q L L R W G V	N T A A W P A		

90 100 110 120

UniRef90_R5WL95	L I D N T L G C A D I S V I P E A T Y E F I F N T Q T L	R F N L P Q A A L S
UniRef90_S2K5J1	E R L Q Q E E A C I A L V A S V S A A S E A L D L G N L Q L	D L Q I P P Q Q A L
UniRef90_UPI0004690ADD	L N K L P R T E R I D L A H Y I A G A K V R P D L E N L C V	D F S V P P Q V A M Q
UniRef90_V1NQ1	L L F Y P G T Q C F R L T I P D S S V V Y S P E N Q T L	S V T V P P Q A D L Q
UniRef90_Q8VR37	V V Y W H D G Q C A D F H G L P G V D I R P D T G A G V L	R I N M P P Q A W L
UniRef90_U9DSX9	P P V V E N D C L A L D R F L P E A S L E D A A E L E I	R L S I P P Q A F L
UniRef90_A0A023MW73	M I W I N A G Q C C L Q P D Q L E G M E T Q T D L S Q S T L	T V I I P P Q A Y L
UniRef90_G8LLD2	L A A N N G E C G A N L Q A I P Q A S S D F Q F G A Q R L	V I S I P P Q A A I
UniRef90_B4F1Z0	F S Q Q P D S S K I D I A R V I P N A T Y K Y D F S R A R L	S F S I P P Q I A L Y
UniRef90_UPI0002D33408	L P S E E N T C V D L P A L V E G A S T T F D S G E L Q L	S L S I P P Q A Y V Q
UniRef90_U2FK78	E G K L A D D T Q I D L A N L V E G A S S S D F Q F G A Q R L	N I S I P P Q L Y I A
UniRef90_G5MDN4	L E S E K S C V D L S A I P P G A S S Q Q F D F Q Q Q A L	M L T I P P Q L F L V
UniRef90_K8QUC6	D A D E G E S Q C Y I L A D Y Y P S S S V S Y D P N S Q I L	T I S I P P Q A A I S
UniRef90_Y1D6X6	L A V D N E R C A N L H A I P P S G S T E F Q F G A Q R L	L L S I P P Q A A I S
UniRef90_S0DE64	L A T Q S E C V K L S A I P Q Q A S A D F Q F G T Q R L	V L S I P P Q A A L
UniRef90_U8MWG4	A G V Q A P G D C L G L E E R L P G S T F N L D T A L L R L	D L S V P P Q A L L
UniRef90_D4BUN3	E G T I T E Q Q D S C A D I D V I P Q G R M G F N F N Q Q I L	N L Q V P P Q V A L R
UniRef90_K8W4A8	V T T T H D K Q C L N L S A L T G A Q L N V E L S T L S L	K M T I P Q S W M
UniRef90_A0A038CP79	T R P L A E N C L D I S R L P G I A L N N S A G V L	D I T V P P Q A W M K
UniRef90_E2QFT2	Q A A S S E N N C C L D I R I W F P D V H Y M P E L D A Q R L	K L T F P P Q A I I K
UniRef90_I2EL43	E K Q L S D E R C Y R F D E L I P K S Q V N Y N P A D F E L	T L D V P P Q I N L
UniRef90_D4BZS4	L N N L P D V K I L S L N D Y I K D A T V R V D V S K L K I	I V T V P P Q I Y M D
UniRef90_UPI000478347F	L T T W W H Q G Q C L L N I S S I A G M E V H G D L G Y A L L	T V K I P P E A W L
UniRef90_J7TGG7	V S W T A Q D Q C L D I R T I P D M Q A T G D I A D N K L	N I R I P P Q A Y M
UniRef90_F1FNW0	V T F R D N G R C F A D F S A L P G V E I R T N P A E G I L Y I N M P P Q A W L	
UniRef90_UPI000302D1CD	S E R S Q P G D C C V D L E T Y L P G G S I G Y D L S E S R L	N I S V P P Q I Y L
UniRef90_V3GXT8	L A A G E S E C A D L R A I P Q A S A D F Q F G A Q R L	A S I P P Q A A I
UniRef90_I6RJ56	L D A E K S E C C V N L Q A I P Q A S A D F Q F A Q R L	V L S I P P Q A A I
UniRef90_K6BS65	P A L L Q E Q C V D L L R L V P G S Q I E F D G G R L Q L	S L S V P P Q V A M R
UniRef90_B1Z6J6	T R G I A R E A C F T L R E T L P G S T Y A F D S A D L K L	E L T I P P Q T G M R
UniRef90_B2VL03	P A L L Q G E D S C C L S P G T F I P Q A W T A F D F R K M R L	E V S I P P Q I A L H
UniRef90_Q883W9	Q T L L Q A S C C V D L D S R L I P Q A T T K L D G G R L Q L	S I S I P P Q I A M R
UniRef90_V1H8Q1	L S F Y P R T Q C V N L T A P D R S V V Y S P D N Q T L	S V T V P P Q A D L
UniRef90_K6KP00	L L Q P L N P Q G C L D L S H K S D L V T R L D K A N M I L	T L T V P P Q A W M K
UniRef90_G9WBJ6	L K M A P P E A C V A F D D I I P Q A A S H F D F A D Q T L	I M S F P P Q A A M K
UniRef90_C4T0N7	D K L A S A G V C S S L S T L L D G G N A F D E N I Q R L	D I Q V P P Q A F L
UniRef90_UPI0003648A17	K K Q L I T G D C V D F N A V V P S G K L D I D L S E L S A S I	S V P P Q L Y L
UniRef90_UPI000471E189	L A K L P E S K P L R I G D Y I P F A S A T F D F N A M T L R I	S M P P Q A A I
UniRef90_V7ED67	T A K K L A T D P C P V I N E L I D G A T A L F S T D T Q L L D F S I	P P Q A A L R
UniRef90_UPI0002556EDC	Q E Q V A A S D C C V E V Q A L I P G A S F S M D V A E L S G T	L S I P P Q A Y
UniRef90_C4U5A6	L T E L S A E D V I D I R E Y I P Q A S T T F D F Y S Q R L	D V S I P P Q A A L
UniRef90_A0A028Z3A7	L L T N L K K D E A I E L G D F I I P D A S T H F D F A H Q Q L	N L L S I P P Q I A L
UniRef90_L7ZJF5	N P P A A E T A C L L P G R D L K D I M V N A D L S R L R L	D L L S S I P P Q A L L N
UniRef90_D2ZI80	L D R V N A E R C E A V P E L P G S A W F D G E K L A L	N V S I P P Q I Y L
UniRef90_K8WL97	T Q W S N N G Q C L K I D S I P G M T A S G S L G T E T I	A I T I P P Q A Y L
UniRef90_H5V0J1	L A A L D N N D P I D L G H Y I P A A S V T L N K T Q M R L	D I S I P P Q A S L K
UniRef90_R4Y215	L A Q V H G G P C I D L D T P D S R V V Y S A E H Q S L L	T L T V P P Q A W L Q
UniRef90_B8E3T7	E T L I I E N G Q C C V L P E S V V R G V S T K F D S E Q L R L L	D I T A I P P Q A Y L Q
UniRef90_V3CYZ9	N W K T G T G C L I L E T L I P G A T V T Y N Q D D E R L D	V T V P P Q A M L L
UniRef90_A0A023VED7	L V G N E N C A D L S A I P Q A S S E L L F S S Q K L L	S I S F P P Q A A L S
UniRef90_D4C0U2	L A Q Y Q C K P F S A F E K I I P Y A S S H F D F N Q Q R L	K L T P P Q Y W L
UniRef90_C2LMQ8	V N Y Y D S N Q C I D L S N I T G S Q M N D L S S S L S L	P P Q K F V
UniRef90_U3T172	L A Q K D C L T V K D I S P D A Y Y D F D F N T Q K L	N I S I P P Q V A M R
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 V N I G K N E P C H D L R T N Y P S A V V N P M P N S E S L E L F V P P A Q A L D
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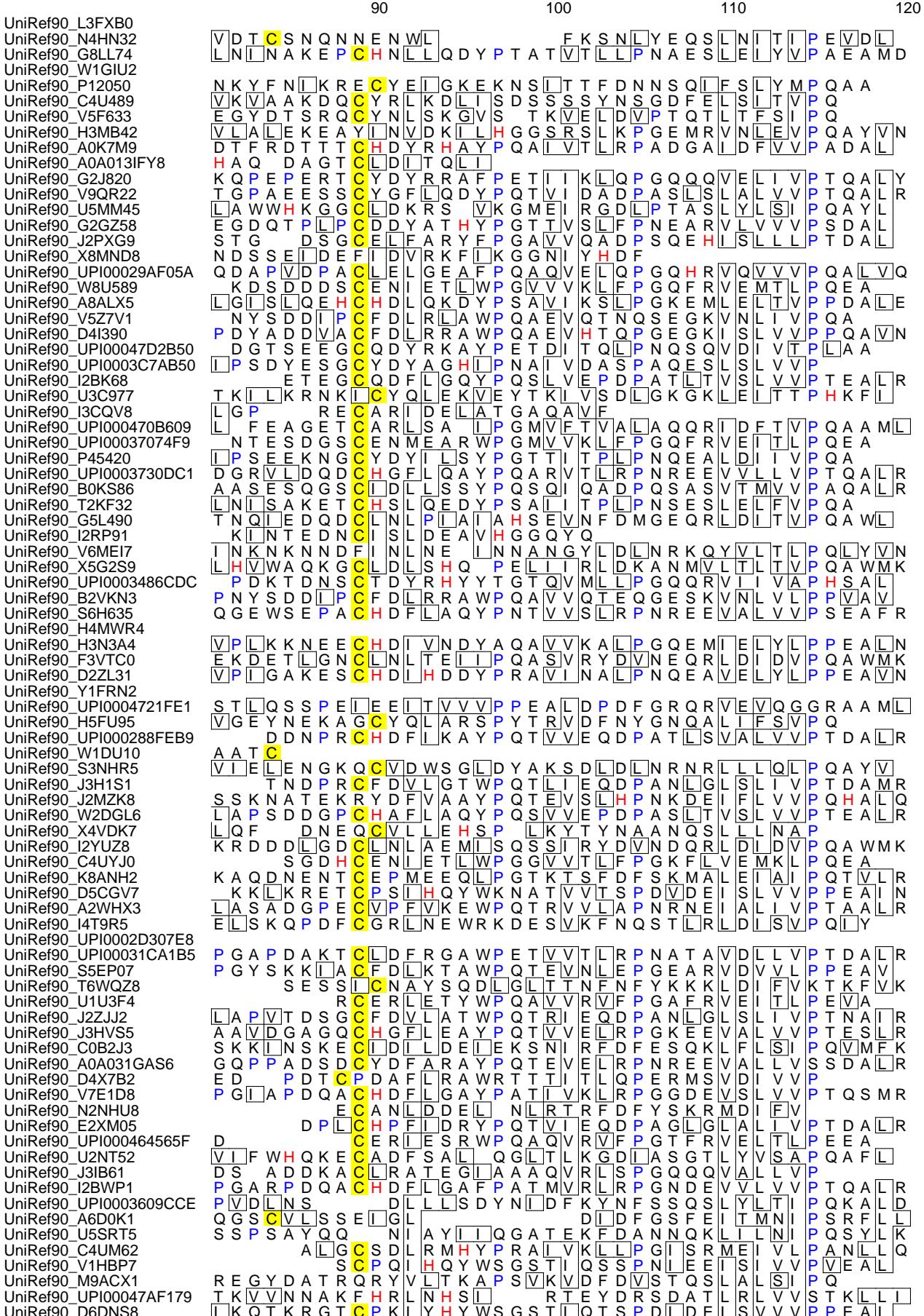
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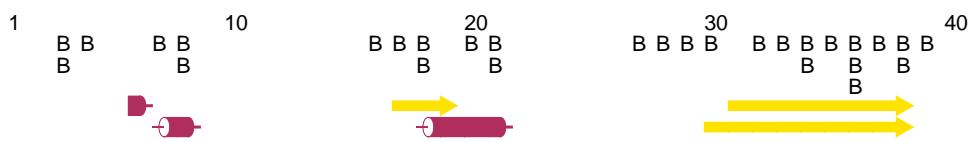


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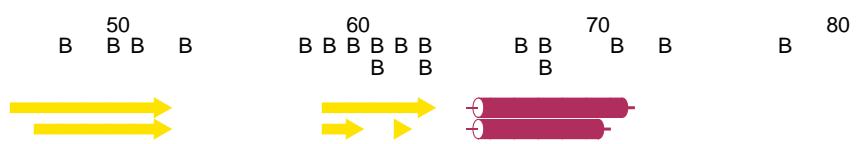
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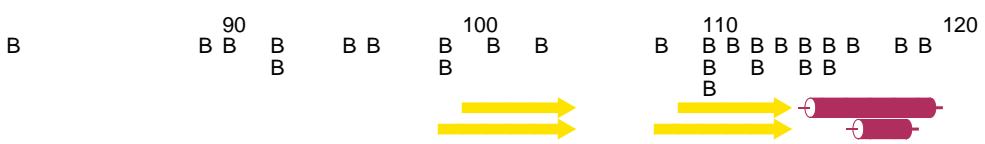
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