

QUERY	1	10	20	30	40																																													
UniRef90_UPI0001E2C758	K	L	V	A	L	T	F	D	D	D	G	P	D	N	V	L	T	A	R	V	L	D	D	K	L	D	K	Y	N	V	K	A	T	F	F	M	V	V	G	Q	R	V	N	T						
UniRef90_R6TDR7	K	V	I	A	L	T	F	D	D	D	G	P	D	N	T	S	L	T	P	L	V	L	D	D	K	L	D	K	E	H	G	V	K	A	T	F	F	M	V	V	G	Q	R	V	N	T				
UniRef90_E0RR30	K	L	V	A	L	T	F	D	D	D	G	P	D	P	V	M	T	P	R	V	L	D	D	K	L	D	K	E	Y	G	V	K	A	T	F	F	F	V	I	V	G	Q	R	V	N	T				
UniRef90_UPI0002E99935	K	V	I	A	L	T	F	D	D	D	G	P	W	P	Q	S	T	P	A	I	L	D	D	K	L	D	K	K	N	N	L	K	A	T	F	F	F	I	V	V	G	Q	R	V	N	T				
UniRef90_X2H1Y4	K	I	V	A	L	T	F	D	D	D	G	P	H	P	K	Y	T	P	A	K	I	L	D	D	K	L	D	K	A	Q	Y	E	A	K	A	T	F	F	F	I	V	V	G	Q	R	V	N	T		
UniRef90_V9G4S7	K	V	I	A	L	T	F	D	D	D	G	P	W	P	N	T	T	T	Q	M	L	D	D	K	L	D	K	Q	N	D	V	K	A	T	F	F	F	W	V	V	G	Q	R	V	N	T				
UniRef90_UPI0003760B98	K	V	I	A	L	T	F	D	D	D	G	P	W	P	N	T	T	T	Q	M	L	D	D	K	L	D	K	Q	N	D	V	K	A	T	F	F	F	W	V	V	G	Q	R	V	N	T				
UniRef90_UPI00035FF7BA	K	A	J	A	L	T	F	D	D	D	G	P	N	E	S	Y	T	P	N	E	I	L	D	D	K	L	D	K	K	E	Y	D	V	K	A	T	F	F	F	F	T	V	L	V	G	Q	R	V	N	T
UniRef90_M1ZDH1	V	I	A	L	T	F	D	D	D	G	P	H	P	K	Y	T	P	N	E	I	L	D	D	K	L	D	K	K	E	Y	D	V	K	A	T	F	F	F	V	V	G	Q	R	V	N	T				
UniRef90_R9LGN9	K	Y	I	A	L	T	F	D	D	D	G	P	D	E	Q	Q	T	P	K	I	L	D	D	K	L	D	K	E	K	Y	H	A	K	A	T	F	F	F	V	V	G	Q	R	V	N	T				
UniRef90_U6SKR9	K	Y	I	A	L	T	F	D	D	D	G	P	D	E	Q	Q	T	P	K	I	L	D	D	K	L	D	K	E	K	Y	H	A	K	A	T	F	F	F	V	V	G	Q	R	V	N	T				
UniRef90_D7WUK3	K	I	A	L	T	F	D	D	D	G	P	H	P	H	R	K	Y	T	A	N	I	L	D	D	K	L	D	K	E	K	Y	N	A	K	A	T	F	F	F	V	V	G	Q	R	V	N	T			
UniRef90_M8D2Z4	K	V	V	A	L	T	F	D	D	D	G	P	D	P	K	Y	T	P	I	L	D	D	K	L	D	K	H	R	N	K	V	P	A	T	F	F	F	V	L	G	S	Q	V	D	A	S				
UniRef90_E4L5F2	K	M	V	A	L	T	F	D	D	D	G	P	D	P	A	T	T	T	P	K	V	L	D	D	K	L	D	K	S	K	Y	G	A	K	A	T	F	F	F	M	M	G	S	K	I	A	S			
UniRef90_U5P2W8	K	M	V	A	L	T	F	D	D	D	G	P	D	P	A	T	T	T	P	Q	A	L	D	D	K	L	D	K	S	K	Y	H	V	K	A	T	F	F	F	M	M	G	S	K	I	A	S			
UniRef90_F2HIQ2	K	L	I	A	L	T	F	D	D	D	G	P	D	P	N	T	T	T	P	Q	A	L	D	D	K	L	D	K	S	D	A	Q	V	P	A	T	F	F	F	A	L	G	K	Q	A	V				
UniRef90_F6B3P9	K	L	V	A	L	T	F	D	D	D	G	P	D	P	R	F	T	T	P	A	I	L	D	D	K	L	D	K	K	Q	Y	K	V	K	A	T	F	F	F	V	V	G	Q	R	V	N	T			
UniRef90_K9PNA3	K	V	I	A	L	T	F	D	D	D	G	P	G	P	K	N	T	A	P	I	L	D	D	K	L	D	K	K	Q	N	N	I	K	A	T	F	F	F	M	I	V	G	E	M	V	K	S			
UniRef90_M4RA65	K	V	I	A	L	T	F	D	D	D	G	P	S	G	Q	Y	T	A	P	I	L	D	D	K	L	D	K	Q	Q	G	V	K	A	T	F	F	F	D	V	V	G	Q	R	V	N	T				
UniRef90_M9LQ60	K	R	J	A	L	T	F	D	D	D	G	P	P	K	N	T	A	P	I	L	D	D	K	L	D	K	K	Q	Y	D	A	R	A	T	F	F	F	V	V	G	Q	R	V	N	T					
UniRef90_D4TNS6	K	V	I	A	L	T	F	D	D	D	G	P	W	P	Q	S	T	D	P	A	I	L	D	D	K	L	D	K	K	Q	N	D	V	K	A	T	F	F	F	V	L	V	G	Q	R	V	N	T		
UniRef90_Q9WXW8	K	L	V	A	L	T	F	D	D	D	G	P	D	V	K	L	T	S	A	V	L	D	D	K	L	D	K	E	H	G	V	V	A	T	F	F	F	V	V	G	Q	R	V	N	T					
UniRef90_W4AL43	K	K	V	A	L	T	F	D	D	D	V	P	D	P	R	F	T	P	Q	V	L	D	D	K	L	D	K	K	E	Y	N	V	R	A	T	F	F	F	I	V	V	G	Q	R	V	N	T			
UniRef90_UPI00047A5D45	K	V	I	A	L	T	F	D	D	D	G	P	W	P	D	P	D	Y	T	V	K	V	L	D	D	K	L	D	K	E	K	Y	N	I	K	A	T	F	F	F	V	V	G	Q	R	V	N	T		
UniRef90_UPI000310C741	K	V	I	A	L	T	F	D	D	D	G	P	W	P	E	F	T	T	V	K	V	L	D	D	K	L	D	K	H	H	H	V	K	A	T	F	F	F	V	V	G	Q	R	V	N	T				
UniRef90_B9DSN4	K	Q	V	A	L	T	F	D	D	D	G	P	P	R	T	Y	T	P	E	I	L	D	D	K	L	D	K	K	Y	H	A	K	A	T	F	F	F	V	M	G	G	S	R	A	L	S				
UniRef90_L5N487	K	S	V	A	L	T	F	D	D	D	G	P	S	E	T	Y	T	P	E	I	L	D	D	K	L	D	K	A	K	Y	D	A	K	A	T	F	F	F	V	M	G	G	S	R	A	L	S			
UniRef90_UPI0002FC3554	K	V	I	A	L	T	F	D	D	D	G	P	W	G	E	S	T	T	E	V	L	D	D	K	L	D	K	K	N	N	I	K	A	T	F	F	F	V	V	G	Q	R	V	N	T					
UniRef90_G2MX94	K	V	V	A	L	T	F	D	D	D	G	P	P	P	E	Y	T	T	K	K	Y	I	D	D	K	L	D	K	S	M	E	V	K	A	T	F	F	F	V	I	D	G	K	N	A	S				
UniRef90_J9B8A4	K	Q	I	A	L	T	F	D	D	D	G	P	P	P	K	Y	T	P	R	E	I	L	D	D	K	L	D	K	K	E	Y	K	I	K	A	T	F	F	F	V	L	G	A	N	A	S				
UniRef90_C8W0G0	K	L	V	A	L	T	F	D	D	D	G	P	D	P	K	F	T	P	R	I	L	D	D	K	L	D	K	R	E	N	K	I	H	A	T	F	F	F	V	V	G	Q	R	V	N	T				
UniRef90_C6J4W0	K	Q	I	A	L	T	F	D	D	D	G	P	D	P	R	F	T	P	Q	L	D	D	K	L	D	K	H	E	T	F	K	G	V	K	A	T	F	F	F	V	V	G	Q	R	V	N	T			
UniRef90_G7V7U9	K	T	V	A	L	T	F	D	D	D	G	P	H	P	W	H	T	P	Q	L	D	D	K	L	D	K	E	T	F	Q	V	K	A	T	F	F	F	V	V	G	I	K	C	A	R	A				
UniRef90_C9A6X4	K	Y	V	A	L	T	F	D	D	D	G	P	D	N	D	T	S	T	L	D	L	D	K	L	D	K	E	D	N	D	V	K	A	T	F	F	F	E	L	G	Q	M	V	A	S					
UniRef90_UPI0004747BFE	K	E	I	V	A	L	T	F	D	D	D	G	P	P	A	Y	T	P	K	I	L	D	D	K	L	D	K	K	R	S	A	N	V	P	A	T	F	F	F	L	V	G	G	E	N	A	S			
UniRef90_K6W9W1	K	C	V	A	L	T	F	D	D	D	G	P	S	P	E	T	E	K	I	L	D	D	S	L	D	K	S	S	A	N	V	P	A	T	F	F	F	M	L	G	G	E	K	V	S					
UniRef90_R5XS18	K	V	V	A	L	T	F	D	D	D	G	P	D	E	V	F	T	P	Q	V	L	D	D	K	L	D	K	K	Y	D	V	K	A	T	F	F	F	L	I	G	E	K	V	S						
UniRef90_A0A023VH18	K	L	V	A	L	T	F	D	D	D	G	P	D	V	T	Y	T	S	Q	I	L	D	D	K	L	D	K	D	S	Y	H	A	K	A	T	F	F	F	M	L	G	G	A	T	I	S				
UniRef90_H2G4H2	K	C	V	A	L	T	F	D	D	D	G	P	G	P	Y	T	S	Q	I	L	D	D	K	L	D	K	D	S	Y	H	G	V	K	A	T	F	F	F	E	I	G	A	T	A	I					
UniRef90_UPI0003753471	K	V	A	L	T	F	D	D	D	G	P	H	P	I	Y	T	E	Q	I	L	N	T	L	D	K	L	D	E	Q	E	K	V	P	A	T	F	F	F	V	L	G	A	G	E	R	A				
UniRef90_UPI00046FA4FC	K	M	V	A	L	T	F	D	D	D	G	P	N	P	I	V	T	P	Q	I	L	N	V	L	D	K	L	D	A	K	E	H	A	K	A	T	F	F	F	V	I	G	A	H	V					
UniRef90_I4D6Z2	K	V	V	A	L	T	F	D	D	D	G	P	N	P	I	D	T	P	Q	I	M	E	I	L	D	K	L	D	A	K	E	K	V	R	A	T	F	F	F	V	L	G	A	V						
UniRef90_I4W708	K	I	A	L	T	F	D	D	D	G	P	D	P	E	W	T	P	Q	I	L	D	D	K	L	D	K	K	A	R	H	V	P	A	T	F	F	F	I	G	G	E	N	A							
UniRef90_K9W0E1	K	A	I	A	L	T	F	D	D	D	G	P	W	P	E	R	S	T	L	K	I	L	D	D	K	L	D	K	K	D	N	D	K	A	T	F	F	F	M	V	G	I	P	L						
UniRef90_UPI00034D1A0A	K	C	V	A	L	T	F	D	D	D	G	P	G	P	E	H	T	D	E	L	D	H	L	D	K	L	D	A	E	Y	D	A	K	A	T	F	F	F	V	L	G	S	I	L	V	K				
UniRef90_UPI00037815BB	K	A	V	A	L	T	F	D	D	A	P	D	N	Q	Y	T	A	Q	I	L	D	D	V	L	D	K	R	K	Y	D	V	R	A	T	F	F	F	L	I	G	S	S	A	A						
UniRef90_F5UIM6	K	A	J	A	L	T	F	D	D	D	G	P	W	P	K	T	T	Q	I	L	D	D	K	L	D	K	K	E	N	N	I	K	A	T	F	F	F	W	V	G	K	Y	L	K						
UniRef90_K9UJZ1	K	I	V	A	L	T	F	D	D	D	G	P	W	P	K	Y	T	P	Q	I	L	D	D	K	L	D	K	K	N	N	I	K	A																	

QUERY D S T A A I I R R M V N S G H E I G N H S W S Y S G M A T M S P D Q I I R K T S I A N D D D
UniRef90_UPI0001E2C758 D S T K E S V I D R M V N S S G G H E I G N H S W A Y S S G M D T M S T D A E E E I K K T S I A N D D D
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UniRef90_E0RR30 D E R T T P V L E R I V R M G C C E I G N H S W G W E S M N T E P P Q A A A F E E I L D R N E E
UniRef90_UPI0002E99935 K E H P D M G K R V V A E G H H V I A N H T W H W Y H Y M N P P Q A A A F E E I L D R N E E
UniRef90_X2H1Y4 E K Y P E L V S R T Y K E G H H E I A N H T Y S H P Y K V S I P N D S R L Q E E E I L D R N E E
UniRef90_V9G4S7 E K H P D I V A R E L S E G H H E I A N H S Y T H P P F Q N I P N D S R L Q E E E I L D R N E E
UniRef90_UPI0003760B98 Q A N P D I A K R V V A E G H H A I G N H T W H H W Y Q Q M N S P A T A Q T S E E I L D R N E E
UniRef90_UPI00035FF7BA Q K N P D L A K Q M V Q Q H H E I A N H T L T H P D M R R K L T K K E R I K T E E E I L D R N E E
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UniRef90_R9LGN9 R F P D I V K M E Q A A G H H E I G N H S Y H H P S L H R L G L S A L K E E E M T E
UniRef90_U6SKR9 Q Y Y P S L V Q A V A E G H H E I G N H S M N H P D L T S I N D E K V L R G E E I L Q
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UniRef90_K9PNA3 I Y P K I A K Q V A E D G H H V I G N H T W H H W Y R N M D T I T A A S E I L N T
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UniRef90_Q9WXW8 E S T R A I L E R M I S M G C E I G N H S W N Y E P L D K K D P E T I K D Y I E
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UniRef90_UPI000310C741 R N F P Q R T K Q M Y L H G H A L G N H T W S H P Y H Q H S D S Q A A A G Q I D N
UniRef90_B9DSN4 G N E T L V K R I A D E G N E V G N H S F D H S N F T K L S H E I L V S Q I E N D
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UniRef90_J9B8A4 Q L N P S I L K R I Y D E G H H E I G N H T F K H P N V A N T S L L R T K V E I L N
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UniRef90_A0A023VH18 G N E D L V K K V K A G A G M E V G S H T W D H P N L T K L P D A Q V Q F E K
UniRef90_H2G4H2 P R F P E V L R R Q V A S G M E V G N H T V T H R Q L P L L P L A E Q Q Q F E A D
UniRef90_UPI0003753471 R R F P H L I Q R I K M D G H H E I G I H G Y H H R L P W L L L G P R T V A S S D I K
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UniRef90_I4W708 E M S P K L V Q R E V A E G H H V I G N H T F T H P N L G D S P P G V S L E I L N E
UniRef90_K9W0E1 K E Y P Q I A Q Q V V L D G H H A V A N H T W S H A R Y R R M S P A D A A R E I E E
UniRef90_UPI00034D1A0A E K H P E L V K R I V K E G H H T V G N H S Y N H A D L T R L S D D A F R E Q V Q D
UniRef90_F5UIM6 N S P E I G Q V V A D G H H A I G N H T W N H E Y L Q Y N E D D G A A Y E I D D
UniRef90_K9UZJ1 N F P E I G K R I V A D G H H T I A N H T W H H W Y H R L S P K A A A Y E I D D
UniRef90_K4Q9A1 G N E A L V K R V S E A G H H E I G N H S W D H P N L T K L T V D Q I Q Y Q V I N
UniRef90_A0A017RXV7 E R Y P E K V K K L H E K A G H H E I G N H S T S H P F E T L N N E K I K E I F D
UniRef90_UPI00047609A6 G N E A L L K R M T E A G C E I G N H S W D H P S L S T E L N A D Q I K W Q I D
UniRef90_D2Q730 Q Y P K Q E K R M L A E G H H V I A S H S N T H P Y M P K M G R D E L R A E I T K
UniRef90_UPI000248CB58 V N H P D L V K R I H D E G H H S I G N H S W D H A N L T K L S P N Q I L K M E I K
UniRef90_X5KB03 Q N I P L V L K R I Y R E G H H E I G N H T F T H P N M A E V S S Q R S K M E M D
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90 100 110 120

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UniRef90_W6TLA1	K	V	I	Y	L	T	F	D	D	D	G	P	N	S	K	D	Q	T	V	N	E	I	L	L	D	S	L	V	A	E	A	R	N	G	V	P	A	T	F	F	F	M	V	L	G	N	G	V	A	A	
UniRef90_W7LDF2	K	T	V	T	L	T	F	D	D	D	G	P	N	S	K	D	Q	T	V	N	E	I	L	L	D	S	L	V	A	E	A	R	N	G	V	P	A	T	F	F	F	M	V	L	G	N	G	V	A	A	
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UniRef90_R4LNU6	I	A	L	T	F	D	D	G	P	N	D	P	E	S	T	G	K	L	D	D	V	L	K	N	T	N	G	V	K	A	T	F	F	F	V	I	T	N	V	E	K		
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UniRef90_S2JG74	V	F	A	L	T	F	D	D	G	P	N	D	P	E	S	T	G	K	L	D	D	V	L	K	N	T	N	G	V	K	A	T	F	F	F	V	I	T	N	V	E	K	
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UniRef90_S2JRF5	V	F	A	L	T	F	D	D	G	P	N	D	P	E	S	T	G	K	L	D	D	V	L	K	N	T	N	G	V	K	A	T	F	F	F	V	I	T	N	V	E	K	
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I I Y L T F D D G G P S Y L T L T G K I L L D L D S E N I K A T F F F V T H G G
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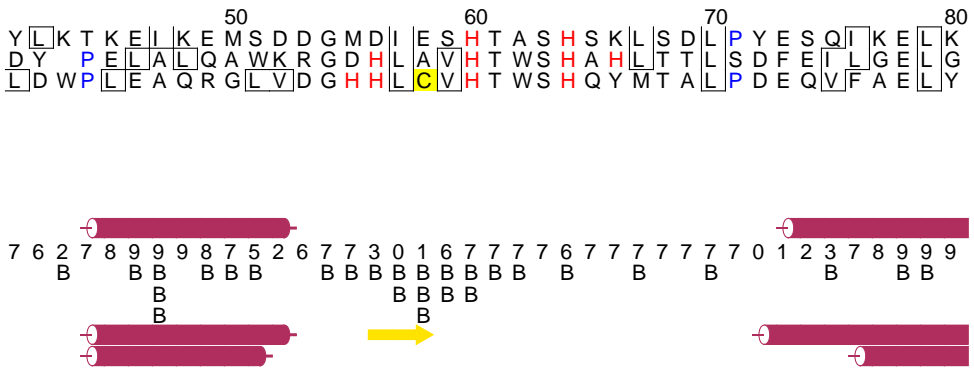
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