

QUERY UniRef90\_Q30XN3 UniRef90\_A5GDC25 UniRef90\_C4LDC0 UniRef90\_G7UR69 UniRef90\_UPI00035F1451 UniRef90\_UPI00047EDD59 UniRef90\_UPI000467C58 UniRef90\_UPI00037926F1 UniRef90\_F8F5W9 UniRef90\_Q2SJJ8 UniRef90\_Q6LR14 UniRef90\_B2JE57 UniRef90\_M1UND8 UniRef90\_G8AYW3 UniRef90\_J5N8F8 UniRef90\_UPI00047C2091 UniRef90\_K9F2S1 UniRef90\_UPI00047832C7 UniRef90\_D5SCRV3 UniRef90\_U1ZNY9 UniRef90\_N8YB15 UniRef90\_D8IU58 UniRef90\_UPI00037AAAAB UniRef90\_Q2N8K3 UniRef90\_F9EGJ9 UniRef90\_UPI0002486646 UniRef90\_UPI0003A46D87 UniRef90\_A5GPT7 UniRef90\_R5GQW3 UniRef90\_N1WGU8 UniRef90\_R5NI77 UniRef90\_J513Y4 UniRef90\_E4TWR3 UniRef90\_M0QL61 UniRef90\_L1MDD2 UniRef90\_UPI00031AF18A UniRef90\_D3EF25 UniRef90\_D3RPS9 UniRef90\_K5BHZ7 UniRef90\_F7SIS0 UniRef90\_A6E1C7 UniRef90\_H8FMN9 UniRef90\_UPI00037CE737 UniRef90\_U4V706 UniRef90\_V7EEY5 UniRef90\_N9NWL7 UniRef90\_E4PGK3 UniRef90\_B6AYF3 UniRef90\_J1K7U6 UniRef90\_NOARF0 UniRef90\_Q2CFL7 UniRef90\_A0A059IS11 UniRef90\_U3TLF1 UniRef90\_U7KWWE2 UniRef90\_S0JYR3 UniRef90\_L0EHP8 UniRef90\_B4SQM1 UniRef90\_UPI00042A66B5 UniRef90\_UPI000372FBC9 UniRef90\_I7KJU8 UniRef90\_R5BLW1 UniRef90\_A5FYY4 UniRef90\_B9JS21 UniRef90\_UPI00037CDB38 UniRef90\_F9ZMF6 UniRef90\_I6ZD72 UniRef90\_W6T679 UniRef90\_D0V0B6 UniRef90\_UPI0003B3C180 UniRef90\_B0U605 UniRef90\_F6CP40 UniRef90\_UPI00046ECEA9 UniRef90\_A0A011Q9M0 UniRef90\_V4HCE8 UniRef90\_E1QUX1 UniRef90\_D4YHP9 UniRef90\_Q5WFJ2 UniRef90\_B7GJ19 UniRef90\_C8NB07 UniRef90\_UPI00037660BC UniRef90\_Q1N378 UniRef90\_D8JAC0 UniRef90\_K4MLR7 UniRef90\_U3K0R2 UniRef90\_U5L4V3 UniRef90\_D0L119 UniRef90\_H9JDA0 UniRef90\_Q96Y60 UniRef90\_K0B400 UniRef90\_D2EKX7 UniRef90\_C8WZZ7

1 10 20 30 40

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K I E S R K T A M E D A G V A V P V P G I T L A D D A D E E A V E V A N R I L G G L P V  
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E K D F L K K A G I P I A A Y A K I N S E D D L K N A V E T I G Y P C  
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UniRef90_E4PGK3	K F V D	D F H R	E V S I	I A A R
UniRef90_B6AYF3	G F F I	D F S C	E I S V	I A A R
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UniRef90_L0EHP8	Q F F I	R F D K	E L S V	I A A R
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UniRef90_R5BLW1	D R Y M	V G M E	V E V D	A I A D
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UniRef90_B9JS21	G F V P	F F A R	E I S I	J A A R
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UniRef90_K0B400	K F V P	F K M E	V S V I	A A R T
UniRef90_D2EKX7	K R Q R	F S K E	L S V M	V A R S
UniRef90_C8WZZ7	K F L Q	G A V E	I D V D	A L C D

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130 140 150 160

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UniRef90\_UPI0001E89473 K W I P F V K E I S V V A R S T T G E I K A F P V G E N H R E N I L Y K T I A  
UniRef90\_W7B9E3 R S I A G F K E I E Y E V M R D A N D V M V V C N M E N I D H T G D S I V V A P  
UniRef90\_UPI0004639B9D E R V A M R R E L A A L V A R S P F G Q G A A W P V V E V Q R D G C V I V A  
UniRef90\_UPI0003B39F69 D K Y L Q G K E I E V D A V C D G E L L I P G I M E H I E H S G D S I S V Y P  
UniRef90\_E8XP64 Q G I N F S G E V S L V I G A R G H D G K T V F Y P L T H N H Q D G L R T S V A  
UniRef90\_UPI0003743906 D R Y L T G K E I E V D A I S D G E N V I P G I M E H I E H S G D S I A V Y P  
UniRef90\_UPI00028A353B D R Y L T G K E I E V D A I S D G E T V Y I P G I M E H I E H S G D S I A V Y P  
UniRef90\_Q64E43 K F L E K A T E I D V D A V C D G E E V L L G A I M E H I E H S G D S A C V I P  
UniRef90\_UPI0002DFC2F E F V R F D R E V S L I G A R G G D G E N L A I Y P L T E N I H T D G I L S V S V  
UniRef90\_R9SNA6 K Y L E K P R H I E F Q V L A D E N G N V I H D R E C S I Q R R H Q K L L E E A  
UniRef90\_D7CNQ4 R S V A G F K E I E F E V M R D A N D N C I T I C S M E N I H T G D S I V V A P  
UniRef90\_K2H9K7 E S L L G W K E V E M E V V R D R A D N A I I V C A I E N V H T G D S I T V A P  
UniRef90\_UPI00035D0580 R F L D N A V E F D V D I V A D A Q G V L I G G I M E H I E H S G D S S C S L P  
UniRef90\_U7D4F1 E S I L G W K E Y E L E V M R D H D N V V I V C S I E N I D P M G T I H T V A P  
UniRef90\_D9QUK1 E F I P F D R E I S V L G C R G V D G E V T Y P I G E N Q H Q G L L E S K V  
UniRef90\_F7ZEE1 S Y L T G A V E L D V D A L S D G T D V H V A G V M Q H I E H S G D S A C S L P  
UniRef90\_W8SP74 G F V D F S M E I S V I A A R G Q D G V A A Y D P G Q N L H R D G I L A T T V  
UniRef90\_UPI0003B6E519 E S L L G W K E Y E M E V V R D T L D N C I V C S I E N V H T G D S I T V A P  
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UniRef90\_UPI0003B6B585 D R Y M V G K E V E V D A I S D G E T V L I P G I M E H I E H S G D S I A V Y P  
UniRef90\_R9XN35 K Y L E N P R H I E I Q V L A D T H G N A V Y E R D C S M Q R R H Q K V V E E A  
UniRef90\_Q1NL58 K S L L G W K E Y E L E V M R D N K D N V V I C S I E N V H T G D S I T V A P  
UniRef90\_UPI0003B6C334 Q S V L G W K E Y E L E V M R D K K D N C V I I C S I E N V H T G D S I T V A P  
UniRef90\_I0JM77 K N I A G F K E V E Y E V M R D K S D H A I V V C N M E N F H T G D S I V V A P  
UniRef90\_A1AXD3 S F L D H A I E V D I D A I C D G E D V V I G G I M Q H I E H S G D S A C S L P  
UniRef90\_H1G3A8 K Y L E R P R H V E I Q V I A D E H G V S L G E R D C S M Q R R H Q K V I E E A  
UniRef90\_Q84T12 K W A P F V K E L A V I V A R G R D G S M V C Y P V V E I H R S N I C H I V K A  
UniRef90\_C9RNJ8 R F L H N A L E C E A D A L S D G E H V Y I P S V M E H V E H S G D S A C I P  
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UniRef90\_D5MHG0 K F L E D A I E M D V D A L C D G G R E V V I G G I M E H I E H S G D S A C S L P  
UniRef90\_D3FE07 R F L E D S I E V D V D A L C D G T D V W I G G I M Q H I E H S G D S A C V L P  
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UniRef90\_M2RAQ9 K Y I E G A K E I E M D A V A Q G G K M L M H Y I L S E H V E H S G D A T L I H P  
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UniRef90\_UPI0003C1A510 R F V T F D Q E Y S V I L V R G A D G V R F W D S A A N H V D G G L L A T S T V  
UniRef90\_UPI00042A110C G F L D S A I E I D V D A L C D G D N E V Y L G G V M E H I E H S G D S A C A L P  
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UniRef90\_L0WJG9 H F L D D A I E V D V D C V F S D G K E V V I G G I M Q H I E H S G D S A C S L P  
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UniRef90\_Q47Y18 H F L D D A I E V D I D V V C D G T D V V I G G I M Q H I E H S G D S A C S L P  
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UniRef90\_UPI00037E9AC5 E S I L G W K E Y E M E V V R D R N D N C V I V C S I E N V H T G D S I T V A P  
UniRef90\_D6M6K0 Q S V A G W K E I E Y E V I R D G K D N C I I C N M E N I H T G D S I V V A P  
UniRef90\_F8A9U3 E S V L G W K E Y E L E V M R D K N D N V V I C T I E N V H T G D S I T V A P  
UniRef90\_E0TIC4 H Y L Q N A V E C D V D A I C D G T D V F V A G V M Q H V E H S G D S A C S L P  
UniRef90\_G0S1X1 K Y I E R P R H V E V Q V F A D K H G N C V G E R D C S V Q R R H Q K I L E E S  
UniRef90\_Q07MA9 K Y L Q K P R H I E I Q V L G D G R G D H L G E R D C S L Q R R H Q K V W E E G  
UniRef90\_M2MZY3 R S M K G W K E I E Y E V V R D A G Q D N C I T V C N M E N F H T G D S V V V A P  
UniRef90\_G5ZZB9 E S L L G W K E Y E M E V V R D H A D N C I I C S I E N V H T G D S I T V A P  
UniRef90\_UPI000380216D K Y L G K P R H I E V Q V L G D G G V H L G E R D C S I Q R R H Q K V W E E A  
UniRef90\_R5GZ09 R F L H H A T E C E A D A L S D G E H V F V P S V M E H I E H S G D S A C I P  
UniRef90\_M7NGC6 K F L D E A R H I E V Q I F G D S H G V H L F E R N C S V Q R R N Q K V I E E S  
UniRef90\_I0YRQ1 R W A P F V K E L A V M V G R S R E G S T R A F P V V E V H R R S L L V T E A  
UniRef90\_Q60A26 K F L E N P R H I E F Q V I A D S H G N V V H E R D C S T Q R R H Q K V V E E A  
UniRef90\_UPI0003B33BB9 E S V T G W E I L E L E V V R D S K G Q M I T V C F I E N V H T G D S F C S A P  
UniRef90\_UPI0003B48C92 R F L E N A I E V D V D A L C D G D T V W V G G I M Q H V E H S G D S A C A L P  
UniRef90\_Q8GE61 Q S V A G W K E I E Y E V M R D A D N N C I T I C N M E N F H T G D S I V V A P  
UniRef90\_B6BWT6 R F L N D A Q E I D V D A I S D G E D V V V G G I M Q H I E H S G D S A C S L P

	130													140													150													160												
UniRef90_UPI00036F7AAC	S	P	V	I	D	E	A	T	R	A	E	I	G	G	C	A	R	A	M	Q	E	L	Q	Y	I	G	A	G	T	V	E	F	L	Y	E	D	G	R	F													
UniRef90_M1YM57	A	Q	T	L	T	D	K	E	Y	Q	I	M	R	N	A	A	I	D	I	T	R	E	I	G	V	E	T	G	G	S	N	I	Q	F	P	K	T	G	E	M												
UniRef90_A0LQ78	P	I	S	L	T	P	N	R	E	H	L	E	T	I	Y	E	D	S	A	T	R	K	I	A	V	E	L	K	N	I	E	G	G	C	N	V	Q	F	A	L	D	P	H	Q	Y							
UniRef90_R5L3B9	S	Q	T	L	T	P	K	E	Y	Q	I	M	R	N	A	A	I	D	I	T	R	E	I	G	V	E	T	G	G	S	N	I	Q	F	A	L	D	P	H	Q	Y											
UniRef90_A6VLS4	P	Y	S	L	D	P	K	G	V	Q	D	E	I	R	R	Q	T	A	A	M	A	R	A	L	N	V	V	G	L	M	N	V	Q	F	A	L	D	P	H	Q	Y											
UniRef90_UPI00037B86E3	G	P	A	P	L	D	P	R	E	V	D	K	I	R	R	Q	T	A	A	M	A	R	A	L	N	V	V	G	L	M	N	V	Q	F	A	L	D	P	H	Q	Y											
UniRef90_D1C2A6	G	L	N	L	P	R	E	V	D	K	I	R	R	Q	T	A	A	M	A	R	A	L	N	V	V	G	L	M	N	V	Q	F	A	L	D	P	H	Q	Y													
UniRef90_H6SRU4	P	A	A	L	S	E	D	E	A	E	A	A	C	R	V	A	I	R	A	A	Q	A	L	D	L	V	G	L	L	N	V	Q	F	A	L	D	P	H	Q	Y												
UniRef90_G7FW73	A	G	K	N	N	D	R	V	E	A	Q	A	N	D	A	F	T	K	I	A	N	E	L	N	V	V	G	L	M	N	V	Q	F	A	L	D	P	H	Q	Y												
UniRef90_E6SJH5	A	L	T	T	Q	R	Q	L	A	R	Q	L	R	S	A	S	L	R	I	V	D	A	L	N	V	V	G	L	M	N	V	Q	F	A	L	D	P	H	Q	Y												
UniRef90_UPI0003B6BFCC	T	F	S	V	P	K	E	I	V	E	K	M	K	D	I	T	R	K	I	A	V	E	L	K	V	K	G	L	I	N	I	Q	F	A	L	D	P	H	Q	Y												
UniRef90_UPI00045EB963	C	L	D	G	D	P	M	Q	Q	A	E	D	Y	V	T	R	L	L	E	A	L	D	D	Y	V	G	V	L	A	L	E	L	F	Q	V	V	N	G	R	L												
UniRef90_UPI0002DD18E5	P	A	P	L	A	P	E	M	S	Q	R	I	Q	N	D	V	I	A	L	A	T	R	L	D	V	T	G	V	M	A	M	E	M	F	E	V	P	G	G	Y												
UniRef90_F8IFB6	P	S	P	F	V	D	E	L	R	R	R	M	G	E	A	A	L	A	I	C	R	A	L	G	Y	E	N	A	G	T	L	E	F	L	V	D	E	E	K	H												
UniRef90_A0B8K9	I	Q	T	L	S	E	H	E	L	Q	M	L	R	S	A	L	R	I	V	D	A	L	G	I	E	G	G	C	N	I	Q	F	A	L	D	P	H	Q	Y													
UniRef90_UPI000360F08E	P	A	E	I	S	E	S	K	E	D	A	V	R	S	A	L	A	Y	Q	V	M	E	V	E	G	V	G	L	F	C	N	I	E	M	F	V	T	D	E	K												
UniRef90_Q39UR9	A	Q	T	L	T	D	K	E	Y	Q	I	L	R	D	A	A	L	K	I	I	R	E	I	G	V	D	T	G	G	S	N	I	Q	F	P	R	N	D	G	R	L											
UniRef90_UPI000255BBBE	P	A	P	H	V	D	E	L	Q	T	T	A	E	E	Y	L	S	T	L	L	N	A	W	D	Y	V	G	V	L	A	M	E	Y	C	F	V	S	D	D	N	G	L										
UniRef90_V4RLM8	P	H	S	L	S	P	E	L	I	E	L	K	R	E	T	A	L	A	K	G	L	E	D	V	V	G	L	M	N	V	Q	F	A	L	D	P	H	Q	Y													
UniRef90_A8TQQ3	P	V	S	L	P	D	S	I	A	E	V	K	R	Q	T	M	L	A	H	G	L	E	G	V	V	G	L	M	N	V	Q	F	A	L	D	P	H	Q	Y													
UniRef90_H5V7Y9	F	T	H	I	H	E	Q	Q	Q	A	E	Q	M	L	S	A	I	M	H	E	L	G	Y	V	V	G	V	M	A	M	E	C	F	V	T	P	G	G	L													
UniRef90_F3XWV1	P	A	R	I	D	D	A	V	A	Q	K	A	R	A	L	A	V	Q	V	A	E	A	F	G	V	V	G	L	A	M	E	L	F	Q	T	D	G	E	L													
UniRef90_UPI0003FF7443	P	A	G	I	E	P	A	T	A	E	A	A	R	M	A	S	K	L	L	S	A	L	D	Y	V	G	V	L	I	G	V	E	F	F	V	V	A	D	G	S												
UniRef90_UPI000467C13C	P	Y	S	L	T	P	K	D	V	E	Q	N	L	M	R	T	A	K	A	M	A	L	E	G	V	I	G	L	M	N	T	Q	L	A	Y	Q	D	G	E	L												
UniRef90_D2RKS4	C	Q	T	L	T	D	R	E	V	Q	M	L	R	T	A	I	D	I	V	R	E	L	G	V	E	G	A	C	N	V	Q	F	A	L	N	P	D	G	E	Y												
UniRef90_F0TB64	P	S	P	L	M	D	E	L	R	A	E	M	G	E	A	A	I	K	A	A	K	S	I	G	Y	T	N	A	G	T	V	E	F	I	Y	S	N	G	E	F												
UniRef90_UPI000463BE66	P	A	A	A	T	P	G	A	L	A	R	E	A	Q	A	H	A	C	A	E	R	K	L	D	Y	V	G	F	A	L	E	F	Q	V	R	D	G	R	L													
UniRef90_A5FWZ8	A	L	T	D	R	E	Y	Q	L	M	R	D	A	S	L	A	C	L	R	K	I	E	D	G	V	D	T	G	F	S	N	V	Q	F	P	A	D	G	R	M												
UniRef90_I1DZU1	A	V	A	G	N	E	Q	L	Q	Q	A	Q	Q	M	F	T	A	V	A	N	Q	L	N	Y	V	G	V	L	A	I	E	F	F	D	V	N	G	T	L													
UniRef90_UPI00037EB323	P	Q	T	L	S	A	G	T	K	E	Q	I	V	R	I	T	E	K	L	A	R	H	H	V	V	G	L	N	V	Q	F	L	V	S	D	D	E	Q	V													
UniRef90_C4LCU0	P	Y	S	L	K	A	D	V	L	A	E	I	R	E	Q	V	R	K	L	A	M	E	L	K	V	V	G	L	M	N	V	Q	F	A	L	D	P	H	Q	Y												
UniRef90_K2GDR2	P	A	S	L	S	D	N	E	T	R	E	I	R	K	R	T	Q	L	A	E	E	L	G	V	V	G	T	F	A	V	E	W	F	V	R	G	D	D	V													
UniRef90_B0R3T9	P	A	R	T	S	P	A	V	L	R	E	D	A	T	G	V	A	A	D	V	L	D	A	D	G	R	G	T	E	G	V	E	F	F	A	V	D	G	R	V												
UniRef90_UPI0001E89473	P	A	R	V	D	Q	L	V	R	E	M	N	A	I	Q	S	A	M	T	L	A	R	H	N	L	I	G	T	L	A	V	E	M	F	V	L	E	D	G	F												
UniRef90_W7B9E3	S	Q	T	L	S	D	R	E	Y	Q	M	L	R	D	V	S	L	R	I	I	R	A	L	E	I	E	G	G	C	N	V	Q	F	A	L	D	P	N	E	Y												
UniRef90_UPI0004639B9D	P	A	P	L	S	E	E	T	G	S	A	S	E	L	A	L	R	V	A	S	A	L	E	G	V	V	G	V	L	A	V	E	L	F	E	T	V	D	D	G	G											
UniRef90_UPI0003B39F69	A	P	T	I	S	D	K	V	R	E	T	I	V	E	Y	T	K	R	L	A	K	A	L	H	V	K	G	L	I	N	I	Q	F	I	D	M	D	E	V													
UniRef90_E8XP64	L	P	Q	P	D	V	T	L	Q	Q	A	E	N	M	L	S	A	I	M	N	E	L	N	Y	V	G	V	M	A	M	E	C	F	V	V	S	E	G	L													
UniRef90_UPI0003743906	P	V	T	L	E	S	K	H	T	E	L	D	M	L	T	D	Y	T	Q	R	L	A	L	G	N	T	I	G	L	I	N	I	Q	F	V	I	S	N	E	E	V											
UniRef90_UPI00028A353B	P	Q	T	L	S	K	D	V	K	Q	I	H	T	I	R	E	A	L	A	K	G	L	N	T	I	G	L	I	N	I	Q	F	V	V	Y	N	E	E	V													
UniRef90_Q64E43	P	Q	S	L	S	V	D	V	I	E	T	V	R	D	Y	V	R	I	A	L	G	L	Q	I	K	G	L	L	N	I	Q	M	A	V	K	D	D	V	V													
UniRef90_UPI0002DFEC2F	S	A	N	E	N	A	L	Q	A	Q	A	E	S	M	F	D	A	V	A	S	A	L	D	Y	I	G	L	L	A	I	E	F	F	D	V	N	G	T	L													
UniRef90_R9SNA6	P	S	P	I	M	D	E	L	R	E	Q	M	G	E	S	T	V	K	A	A	E	Y	I	G	Y	S	S	A	G	T	I	E	Y	L	Y	D	K	G	N	Y												
UniRef90_D7CNQ4	A	L	T	L	M	D	E	E	Y	Q	M	L	R	N	A	S	L	K	I	T	R	A	L	G	I	A	G	G	C	N	I	Q	F	A	P	F	S	S	E	Y												
UniRef90_K2H9K7	A	L	T	L	S	D	R	E	Y	Q	R	M	R	S	A	S	I	A	V	L	R	E	L	K	V	E	T	G	G	S	N	V	Q	F	P	A	D	G	R	M												
UniRef90_UPI00035D0580	P	Y	S	L	T	S	K	V	Q	N	E	L	R	A	Q	V	T	R	M	A	R	E	L	K	V	V	G	L	M	N	T	Q	F	A	L	T	D	Q	E	N	I											
UniRef90_U7D4F1	A	Q	T	L	T	D	R	Q	Y	Q	H	M	R	D	A	A	L	A	I	T	R	E	I	G	V	E	T	G	G	S	N	V	Q	F	P	E	N	G	R	L												
UniRef90_D9QUK1	P	A	D	I	S	C	Q	V	K	E	E	A	L	K	L	G	R	E	V	E	L	E	S	G	V	E	T	F	C	I	E	M	F	V	T	G	D	E	N	R												
UniRef90_F7ZEE1	P	Y	S	L	K	S	E	I	I	E	Q	V	K	E	Q	T	Y	L	A	K	A	L	N	V	V	G	L	M	N	I	Q	F	V	A	V	K	D	G	E	I												
UniRef90_W8SP74	P	A	P	I	P	A	S	L	R	T	D	A	V	L	L	A	S	R	I	L	T	D	L	N	Y	V	G	V	M	G	V	E	L	F	V	T	A	A	G	L												
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K F L E N A T E V D V D A I S D G S E V Y V A G I M E H I E H S G D S A C V L P  
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UniRef90_J9JWK2	P	A	L	L	D	A	E	V	R	A	R	L	K	H	R	A	A	V	A	A	G	O	A	V	D	Y	V	N	G	A	G	T	V	E	F	F	L	V	E	D	G	S	E	F	
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UniRef90_W4QW57	P	S	P	L	S	D	E	F	R	N	E	M	G	T	A	A	V	N	A	A	K	A	L	N	T	G	G	A	T	V	E	F	F	L	V	E	D	G	S	D	G	Y	F		
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UniRef90_K7RNP9	P	A	P	L	N	D	P	E	R	D	R	I	C	A	D	A	L	K	F	V	I	R	H	F	G	V	V	G	E	G	A	T	V	E	F	F	L	V	E	D	G	Y	F		
UniRef90_G7SUF6	D	F	Q	Q	A	Q	Q	A	S	A	E	A	M	L	S	K	I	M	H	Q	L	N	Y	V	G	V	M	A	M	E	C	F	V	V	I	G	D	D	S	L	L	L			
UniRef90_Q9ZKT2	S	Q	T	L	S	P	E	L	D	E	T	R	S	T	A	K	I	A	L	H	L	G	V	V	G	L	M	N	I	Q	F	A	V	Y	Q	N	S	L	L	L	L	L	L		
UniRef90_Q4SZL4	S	Q	T	L	N	D	H	E	Y	N	M	L	R	S	T	A	L	K	V	I	R	H	L	G	V	V	G	E	G	A	T	V	E	F	F	L	V	E	D	G	Y	F	F		
UniRef90_D5UKX2	P	A	P	L	T	D	E	Q	N	S	A	L	V	T	A	S	R	A	L	L	R	E	A	G	Y	V	G	A	G	T	V	E	F	F	L	V	G	A	D	G	T	F	F		
UniRef90_X5Z7F7	P	A	P	M	T	L	A	L	R	E	A	M	T	E	A	A	V	K	A	K	A	L	S	Y	S	G	A	G	T	V	E	F	F	L	V	E	D	A	D	R	F	F	F		
UniRef90_F6FV18	A	M	T	L	T	D	R	E	Y	Q	K	L	R	D	I	G	I	A	V	I	R	E	V	G	V	D	T	G	G	C	N	I	Q	F	A	V	D	G	R	V	V	L	L		
UniRef90_C0CVY8	C	D	I	T	Q	D	L	R	E	R	M	G	D	T	A	V	R	A	K	A	V	G	Y	E	N	A	G	T	V	E	F	F	L	L	D	K	N	D	F	F	F	F	F		
UniRef90_N1MTK7	P	A	A	L	P	D	D	R	T	A	L	E	Q	A	A	V	D	L	A	K	F	L	A	Y	R	G	A	G	T	V	E	F	F	L	V	D	A	F	D	F	F	F	F		
UniRef90_I8UDL4	P	S	P	L	S	A	E	L	R	Q	K	M	G	E	A	A	V	T	A	A	K	S	V	L	Y	R	N	A	G	T	V	E	F	F	L	V	S	E	G	F	F	F	F		
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UniRef90_W6T842	P	H	L	A	P	V	I	Q	T	K	L	I	Q	A	T	E	L	A	H	A	S	K	A	V	G	M	L	N	I	Q	F	F	V	I	T	K	D	N	D	V	V	L	L	L	
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UniRef90_R7G6J6	A	P	T	A	S	Q	K	V	K	D	T	I	V	D	Y	A	I	R	I	G	K	F	H	F	V	G	L	F	N	I	Q	F	F	V	D	K	D	E	K	L	L	L	L		
UniRef90_UPI00047BB698	P	S	Q	V	S	Q	K	L	R	D	E	I	G	K	T	L	K	R	S	L	E	A	V	G	Y	Q	N	A	G	T	V	E	F	F	L	M	D	E	S	G	K	F	L	L	
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UniRef90_U2QBP7	T	Q	T	L	A	D	K	E	F	Q	M	L	R	K	A	S	L	D	I	A	H	L	G	I	V	G	G	C	N	V	Q	L	A	L	N	P	E	E	Y	L	L	L	L	L	
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UniRef90_Q1D0T9	P	S	V	L	F	P	E	L	A	Q	K	L	F	T	A	A	V	A	A	K	A	F	G	Y	A	N	A	G	T	V	E	F	F	L	Y	S	D	G	E	V	V	V	V		
UniRef90_O74197	P	A	R	V	D	S	V	Q	H	K	A	K	L	M	A	E	N	A	K	S	P	G	C	G	I	F	G	V	E	F	F	L	L	D	D	D	S	L	L	L	L	L			
UniRef90_K2FYX2	P	S	P	V	D	A	L	R	E	R	M	G	A	A	V	Q	A	K	A	C	R	Y	V	G	A	G	T	V	E	F	F	L	A	D	N	G	D	F	F	F	F	F	F		
UniRef90_A3PW59	P	A	P	L	S	D	D	L	G	S	A	Q	Q	L	G	L	K	L	A	E	L	G	V																						

		170	180	190	200
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UniRef90_K7RNP9	L I N E L A P R V H N S G H W T Q L G C A I S Q F E L H L R A L L D L P T P				P
UniRef90_G7SUF6	Y L I E V N P R A S S R T S P F L S K A L G V P L A K V A T R V M V L E D L				K E
UniRef90_Q9ZKT2	Y I I E V N A R L S R S S A L A S K A T G Y P L A Y V A A K L G L G I P L				P Q L
UniRef90_Q4SZL4	V F L E V N T R L Q V E H P V T E E I S G I D L V R E Q L R I A A G E P L				G Y T
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UniRef90_UPI0004231B8E	I V I E M N P R V S R S S A L A S K A T G F P I A K I A A K V A I G Y T L				D E I
UniRef90_D2PV94	Y V L E V N P R S S R T V P F L S K I T T G V P M S Y V A T R C V M G E S L				
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UniRef90_G8R834	K A I E L N P R V S R S S A L A S K A T G Y P I A K I A A K L A I G Y H L				D E
UniRef90_UPI00050FDB8	S V I E C N L R A S S R S V P F V S K T M G V D F I E A A A R C M V G E D V				
UniRef90_W7U5E4	Y V I E V N P R S S R T P Y L S K V S G V P V I E I A T R V A L G E K L				K D
UniRef90_H1PPX0	R V V E V N P R V S R S S A L A S K A T G Y P I A R V I A T K V A L G K R L				H E I
UniRef90_U1NKJ5	F F M E M N T R L Q V E H P V T E E V T T G I D L V E L Q L R V G A G E E L				P
UniRef90_UPI000050FDB8	F F M E M N T R L Q V E H P V T E M V T T G I D L V A E Q F R I A A G E K L				D L T
UniRef90_Q2J8V8	Y F M E V N T R I Q V E H P V T E M M T T G V D L I K E Q I K I A S G E H L				A I
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UniRef90_E3D9U6	Y V I E A N P R A S R T V P F V S K A T G V P L A K A A A R V I M A G E T I				A Q L
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UniRef90_U2NPN3	Y F M E M N T R L Q V E H P V T E M V T T G I D I V K E Q I R I A A G E P L				E I T
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UniRef90_W2VPE4	C V I E V N P R V S R S S A L A S K A T G Y P L A K V A A K I A L G Y T L				D E I
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UniRef90_R6RH50	Q
UniRef90_UPI000395C6C6	R
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UniRef90_W7IGJ0	R G H

Table of UniRef90 protein sequences with amino acid positions 1, 10, 20, 30, and 40 highlighted. Each row contains a UniRef90 ID and a sequence of amino acids where specific residues are color-coded.

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UniRef90_B4UL54	I	I K A S A G G G	G R G M T V A R S N	Q K A E L L E G L V T S	A A A A N F F P A V F L I
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UniRef90_UPI000287D27E	L	I R P S Y V I G G	G K G M I V I N D E	D E D L V S F I K D I	P E D T Y P L L L D
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UniRef90_H5UN21	V	L K T P R G G Y G	K G V M R V D S P	D A V P D C A D W F	E R A A G D E T T I V E
UniRef90_D9SLR9	I	I R P S Y V I G G	E A M I V R N Q E Q	F E H Y M S T A L R	V N E E P I L I D
UniRef90_H2FX59	L	L K R R T G G Y D	G R G Q H W L R E	P G R D A I P D D	W H T D R Q A L I A E
UniRef90_S7ZSE8	M	L K A Y T D G R G N	F R V N S K A D I	P E A L E A L K	I P E A L K
UniRef90_J7L0J5	A	I K A A F G G G	G R G L K V A H L	D E V I T D A Y E S	A V R F G R G E C F V I
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	90	100	110	120
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UniRef90_B4UL54	R Y I	E R P K E I	E E V Q V L G S	D D H G H G H L
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UniRef90_C6XHJ8	K Y L	E N G P R H	I E V Q I F G D	D G M G N A L H
UniRef90_A0A011R3B2	Q K L	A L D Y E E	S V L A R S D S	S G I V T S F P
UniRef90_K2H1H6	A T I	G F R R E E	S S L V L A R S	D S S R G E M A
UniRef90_F1W0P2	K M L	P L A Y E E	S V L A A R G S	H D G K S V V Y
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UniRef90_J7L0J5	R Y L	D R P R H V	E T Q C L A	D T H G V V V S
UniRef90_UPI00047DD1A8	E R V	D Y R R E L	S A V V A R S P	K Y G Q A V A Y
UniRef90_A0A059AXT3	K Y I	T R P R H I	E V Q I F G D	K Y G N H L N E
UniRef90_C7N0V7	K Y L	H P A R H V	E L Q I L A D E	T Q G N V V C N
UniRef90_M9LZH7	K W A	P F E R E V	A V M V I R S A	T G E V R A Y P
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UniRef90_Q7MZI1	Q F L	A D K P R H	I E A Q I L L A	D K H G N V V V
UniRef90_UPI00037D485F	K F L	E D A I E I	D V D A L F	D G K E V V V G
UniRef90_A0A024Q0U8	K F L	E D F R H V	E I Q V L A D E	H G N V V H H E
UniRef90_UPI000225FDBC	K F M	Q K P R H I	E I Q V L C D	T E H G T W L G
UniRef90_C3XFR9	K F L	E Y A I E L	D V D Q I S	D G S V V Y I G
UniRef90_F2J278	K L V	E R A R H V	E L I G S D G G	H G V H L Y E R
UniRef90_UPI00035DFF9F	R Y L	S H A R H V	E V Q V F A D Q	Y G N V V W D R
UniRef90_UPI00036EC257	K Y L	E K P R H I	E V Q I D R F E	R N V H L F E R
UniRef90_A3UAT7	H Y L	D G A I E A	E A D A I C D	G E N V Y I I G
UniRef90_UPI00037B19DA	K L V	L N P H H V	E F Q V F G D T	H G N A I Q E R
UniRef90_G0T1R1	R Y I	T R P R H I	E V Q V F S D S	H G N H L F E R
UniRef90_R5IMB1	Q F L	Q N A K E L	E F D A V A Q N	G E V V E Y A I
UniRef90_A5GLP0	E K L	T G W K E F	E L E V M R D L	A D N V V I V C
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UniRef90_A0A059E257	K F L	L E P R H I	E I Q V L G D K	H G N C I Y E R
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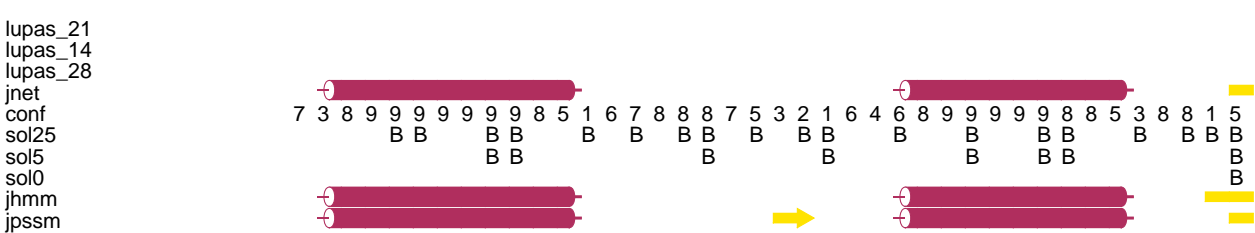
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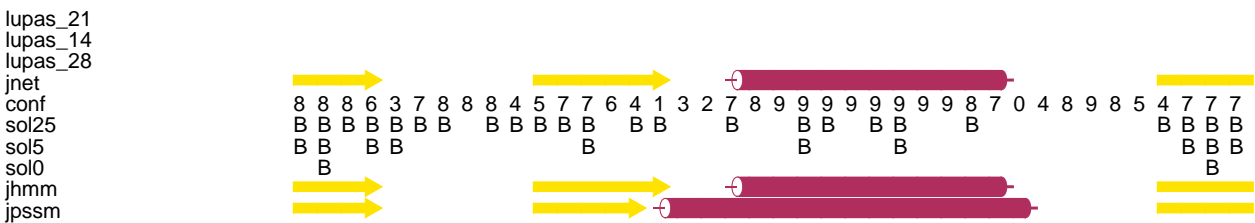
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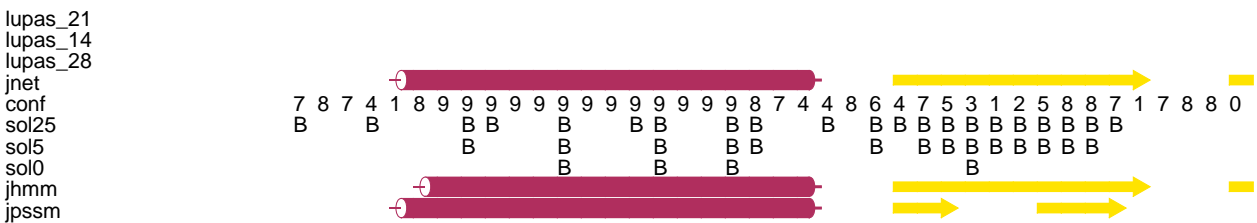


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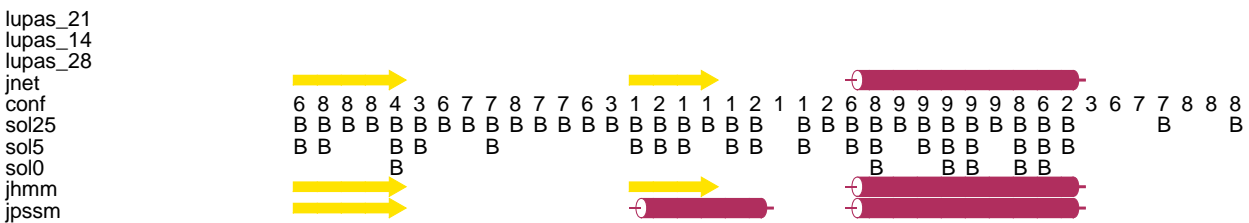




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