

QUERY	1	10	20	30	40																																									
UniRef90_Q59030	M	V	S	V	N	L	E	A	K	K	T	V	D	V	M	I	E	K	A	D	D	L	N	I	V	A	D	V	V	K	L	E	N	G	A	T	V	L	D	C	C	G	V			
UniRef90_P94954	M	V	S	V	N	E	N	A	L	K	L	P	L	V	D	E	R	M	I	E	K	A	D	D	L	N	I	V	A	D	V	V	K	L	E	N	G	A	T	V	L	D	C	C	G	V
UniRef90_E3GXM5	M	V	S	V	N	L	R	A	K	K	L	P	L	V	D	E	R	M	I	E	K	A	D	D	L	N	I	V	A	D	V	V	K	L	E	N	G	A	T	V	L	D	C	C	G	V
UniRef90_Q9RPW8	V	S	V	N	A	H	S	Q	P	L	V	K	Y	L	I	T	Y	A	D	D	K	L	R	L	L	Q	I	I	E	S	K	L	E	N	G	A	T	V	L	D	C	C	G	V		
UniRef90_I1YJ20	S	V	N	A	S	C	Q	P	L	V	D	E	L	I	N	Q	A	D	D	A	D	L	R	L	L	Q	I	I	E	S	K	L	E	N	G	A	T	V	L	D	C	C	G	V		
UniRef90_D1JGU3	M	I	S	V	N	E	Y	G	L	D	V	F	E	E	M	D	Y	E	E	E	E	L	R	I	E	S	K	L	E	N	G	A	T	V	L	D	C	C	G	V	V					
UniRef90_D3S3E5	M	V	S	V	N	E	L	A	L	I	V	E	E	M	L	D	Y	E	E	E	E	L	R	I	E	S	K	L	E	N	G	A	T	V	L	D	C	C	G	V	V					
UniRef90_D7EAT8	M	L	S	V	N	E	K	G	L	Y	L	I	V	E	M	L	D	W	E	E	E	L	R	I	E	S	K	L	E	N	G	A	T	V	L	D	C	C	G	V	V					
UniRef90_V5BZP5	S	V	N	K	L	A	Q	P	L	V	K	A	L	L	D	N	A	E	A	L	R	R	L	L	Q	I	I	E	S	K	L	E	N	G	A	T	V	L	D	C	C	G	V			
UniRef90_Q8TQ42	M	L	S	V	N	E	M	G	S	Y	V	I	E	E	M	L	D	W	S	E	A	D	L	R	L	L	Q	I	I	E	S	K	L	E	N	G	A	T	V	L	D	C	C	G	V	
UniRef90_UPI00036EC557	S	V	L	N	Q	L	A	A	P	L	V	E	E	L	V	D	R	E	A	Q	A	K	L	R	L	L	Q	I	I	E	S	K	L	E	N	G	A	T	V	L	D	C	C	G	V	
UniRef90_Q9RQ04	S	V	L	N	Q	L	T	N	P	L	V	K	H	L	V	D	N	A	Q	A	K	L	R	L	L	Q	I	I	E	S	K	L	E	N	G	A	T	V	L	D	C	C	G	V		
UniRef90_UPI0003B3051D	S	I	N	D	N	T	R	P	L	V	E	A	L	V	R	D	A	N	K	L	R	L	L	Q	I	I	E	S	K	L	E	N	G	A	T	V	L	D	C	C	G	V				
UniRef90_D5C311	M	S	I	N	A	L	C	H	P	L	V	E	A	L	V	H	E	A	E	S	L	L	L	L	Q	I	I	E	S	K	L	E	N	G	A	T	V	L	D	C	C	G	V			
UniRef90_Y0KHI2	M	I	S	I	N	A	L	T	S	Q	P	L	V	T	Q	L	K	D	E	E	K	L	R	L	L	Q	I	I	E	S	K	L	E	N	G	A	T	V	L	D	C	C	G	V		
UniRef90_Q0W8U9	M	I	S	I	N	E	I	S	Y	S	I	V	E	E	M	L	D	F	A	E	D	Y	R	I	E	P	H	T	L	A	N	D	S	V	I	D	C	C	G	V	V					
UniRef90_I3CEK0	M	I	S	I	N	A	L	T	S	Q	P	L	V	T	Q	L	K	D	E	E	K	L	R	L	L	Q	I	I	E	S	K	L	E	N	G	A	T	V	L	D	C	C	G	V		
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UniRef90_A3CTA1	M	L	S	V	N	E	L	A	L	D	I	F	E	E	L	F	E	Y	A	E	E	L	R	L	L	Q	I	I	E	S	K	L	E	N	G	A	T	V	L	D	C	C	G	V		
UniRef90_B8EIJ8	L	S	V	N	T	L	T	G	R	L	V	D	A	M	I	A	D	A	A	K	L	R	L	L	Q	I	I	E	S	K	L	E	N	G	A	T	V	L	D	C	C	G	V			
UniRef90_Q0BU31	M	V	S	V	N	A	R	A	W	L	L	V	D	M	I	A	D	A	A	K	L	R	L	L	Q	I	I	E	S	K	L	E	N	G	A	T	V	L	D	C	C	G	V			
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UniRef90_G2DX04	S	L	N	A	L	Q	A	L	P	L	V	D	A	L	I	F	E	D	A	A	D	A	D	L	R	L	L	Q	I	I	E	S	K	L	E	N	G	A	T	V	L	D	C	C	G	V
UniRef90_J0S0W9	M	L	S	V	N	E	Q	A	L	D	I	F	N	D	I	F	E	Y	P	E	D	Y	R	N	A	A	H	L	L	E	N	G	A	T	V	L	D	C	C	G	V					
UniRef90_D7A5F7	M	V	S	V	A	A	L	S	R	P	L	V	D	E	L	I	A	K	A	D	V	L	R	L	L	Q	I	I	E	S	K	L	E	N	G	A	T	V	L	D	C	C	G	V		
UniRef90_F2KS65	M	V	S	V	N	E	R	L	A	F	S	L	I	Q	T	L	K	D	N	A	E	E	L	R	L	L	Q	I	I	E	S	K	L	E	N	G	A	T	V	L	D	C	C	G	V	
UniRef90_Q0G4J7	I	S	V	N	R	G	V	L	P	L	I	Q	T	L	K	D	N	A	E	E	L	R	L	L	Q	I	I	E	S	K	L	E	N	G	A	T	V	L	D	C	C	G	V			
UniRef90_D8JXT0	S	V	S	A	R	A	K	L	V	D	A	M	V	A	D	A	D	A	D	A	L	R	L	L	Q	I	I	E	S	K	L	E	N	G	A	T	V	L	D	C	C	G	V			
UniRef90_A2SQG9	M	V	S	V	N	T	L	G	L	D	I	F	E	E	L	F	E	Y	A	E	E	L	R	L	L	Q	I	I	E	S	K	L	E	N	G	A	T	V	L	D	C	C	G	V		
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UniRef90_Q6R960	S	V	N	A	R	A	G	L	V	D	D	L	A	N	A	Q	A	L	R	G	V	S	V	T	T	G	A	G	E	R	C	I	D	L	G	S										
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UniRef90_G2FY85	L	S	P	N	Q	Q	A	F	P	L	V	E	E	F	I	A	R	S	E	L	L	Q	I	I	E	S	K	L	E	N	G	A	T	V	L	D	C	C	G	V						
UniRef90_H0Q593	S	I	N	E	L	A	A	P	L	V	A	R	L	T	G	R	A	A	E	W	R	L	L	L	Q	I	I	E	S	K	L	E	N	G	A	T	V	L	D	C	C	G	V			
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UniRef90_C6WWF1	S	V	N	Q	L	S	A	P	L	V	K	R	L	I	E	Q	A	E	T	L	H	V	V	G	V	S	Q	H	A	S	G	C	T	L	V	D	C	C	G	V						
UniRef90_A0B5S5	M	S	I	N	E	M	G	F	E	V	F	E	E	M	L	D	L	A	D	D	L	R	V	D	V	I	E	L	E	N	G	A	T	V	L	D	C	C	G	V						
UniRef90_J7Q445	E	S	V	N	A	L	A	G	A	L	V	D	R	L	V	A	G	A	A	K	Y	R	V	V	E	R	G	G	L	G	E	L	L	D	A	G										
UniRef90_G7ZAX8	S	V	N	R	L	A	A	P	L	V	H	L	V	A	D	A	A	M	L	R	I	V	G	V	E	Q	H	P	A	G	C	T	L	V	D	C	C	G	V							
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UniRef90_Q2NEY8	E	S	M	N	I	A	A	K	K	I	A	D	K	M	V	Q	D	A	E	K	L	K	V	I	P	S	T	L	E	N	G	A	T	V	L	D	C	C	G	V						
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UniRef90_Q4JIN5	L	N																																												

QUERY UniRef90_Q59030 UniRef90_P94954 UniRef90_E3GXM5 UniRef90_Q9RPW8 UniRef90_I1YJ20 UniRef90_D1JGU3 UniRef90_D3S3E5 UniRef90_D7EAT8 UniRef90_V5BZP5 UniRef90_Q8TQ42 UniRef90_UPI00036EC557 UniRef90_Q9RQ04 UniRef90_UPI0003B3051D UniRef90_D5C311 UniRef90_Y0KH12 UniRef90_Q0W8U9 UniRef90_I3CEK0 UniRef90_UPI000370CDF4 UniRef90_A3CTA1 UniRef90_B8EIJ8 UniRef90_Q0BU31 UniRef90_Q64C60 UniRef90_G2DX04 UniRef90_J0S0W9 UniRef90_D7A5F7 UniRef90_F2KS65 UniRef90_Q0G4J7 UniRef90_D8JXT0 UniRef90_A2SQG9 UniRef90_UPI0003602D08 UniRef90_Q6R960 UniRef90_UPI00004FB1C0 UniRef90_G2FY85 UniRef90_H0Q593 UniRef90_F5RAW4 UniRef90_UPI0003B5DFFF UniRef90_C6WWF1 UniRef90_A0B5S5 UniRef90_J7Q445 UniRef90_G7ZAX8 UniRef90_F0SK26 UniRef90_UPI00036B4918 UniRef90_Q2NEY8 UniRef90_I9KVX6 UniRef90_Q4JIN5 UniRef90_UPI00045EAB27 UniRef90_C5CPW2 UniRef90_A2SJ24 UniRef90_B1Y0Z3 UniRef90_UPI00036BDFFB UniRef90_UPI00037928FA UniRef90_F4C0H5 UniRef90_H5XWY4 UniRef90_G8AVC7 UniRef90_UPI0003482C8C UniRef90_W6WQ55 UniRef90_N6YQ4 UniRef90_UPI00029A03EA UniRef90_UPI0003009783 UniRef90_H1YX98 UniRef90_B8ITX3 UniRef90_G7WQH3 UniRef90_Q2Y4N8 UniRef90_G7WFT9 UniRef90_I4BWW1 UniRef90_J3A025 UniRef90_Q4JIS9 UniRef90_D3L4W7 UniRef90_H0HRA6 UniRef90_A0A022GX31 UniRef90_D5MJV5 UniRef90_Q2FT11 UniRef90_A3CS47 UniRef90_I0HWH4 UniRef90_W0EEI3 UniRef90_M0DDK3 UniRef90_E7QZW0 UniRef90_M0H3J5 UniRef90_H5WKF6 UniRef90_R4WA57 UniRef90_M5DX0 UniRef90_B8CZF0 UniRef90_G7ZAQ5 UniRef90_UPI00016C4EC7 UniRef90_I4D9I8 UniRef90_A6CF70 UniRef90_UPI0003813BA1 UniRef90_J7ISY6 UniRef90_L0D9S7 UniRef90_A3ZXB8 UniRef90_D5SQ36

50 60 70 80

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UniRef90_N6YQ4 D V R G S T A A G V A V G A I C C L M G S L A G E V R L S V R P E A D W P T W
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UniRef90_UPI0003009783 R A L G S L E A G L R M A E A A M G G L A T V S L V M N A T A E K Y P L N F L
UniRef90_H1YX98 N V R G S Y Q A G L M Y A E A C L G G L A T A G I T T H I N G I P F F L
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UniRef90_G7WFT9 S V Q G S W E A G V L F A E I C C L G G L A Q V R I H W A D F D G F R W P A V
UniRef90_I4BWW1 N S R G S Y E A G R L F A E A C L G G L A G S V S F A V D L E L S V P S V
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UniRef90_I0HWH4 A A P G S V A A G V L V G E I C C L G G L A G R V E L A P G P D W P T W V
UniRef90_W0EEI3 N A L G G W E A G V L F A E I C M G G L A G R V D V R W A N F K G F W P S V
UniRef90_M0DDK3 N A E G G V E A G M L L S E I E T A G L A T I Q A S M D D V A G A P T P R I
UniRef90_E7QZW0 E E N G G M E A G L L L A E I Q T A G L A T I Q T R M G D V A G A P T P H V
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UniRef90_A3ZXB8 N A T G G L E A G L K M A E V C L A G L A G E V R F L P P G Q L P G V P L D V
UniRef90_D5SQ36 E A E G S L E A G Q V L S T V C M A G L A T V N L Q P Q L L G K W Q W P H V

QUERY	90	100	110	120
UniRef90_Q59030	K	L	S	L
UniRef90_P94954	K	L	S	L
UniRef90_E3GXM5	K	L	S	L
UniRef90_Q9RPW8	N	V	H	G
UniRef90_I1YJ20	U	T	H	T
UniRef90_D1JGU3	T	E	V	T
UniRef90_D3S3E5	Y	E	T	D
UniRef90_D7EAT8	Q	N	V	T
UniRef90_V5BZP5	N	Q	V	T
UniRef90_Q8TQ42	Q	V	T	D
UniRef90_UPI00036EC557	A	V	S	T
UniRef90_Q9RQ04	N	V	H	A
UniRef90_UPI0003B3051D	N	V	H	A
UniRef90_D5C311	N	V	H	A
UniRef90_Y0KHI2	K	N	V	H
UniRef90_Q0W8U9	E	V	S	T
UniRef90_I3CEK0	Q	V	T	D
UniRef90_UPI000370CDF4	Q	V	T	D
UniRef90_A3CTA1	E	V	S	T
UniRef90_B8EIJ8	S	V	A	S
UniRef90_Q0BU31	S	V	A	S
UniRef90_Q64C60	Q	V	T	D
UniRef90_G2DX04	E	V	S	T
UniRef90_J0S0W9	E	V	S	T
UniRef90_D7A5F7	T	V	S	T
UniRef90_F2KS65	K	E	Y	T
UniRef90_Q0G4J7	T	V	S	T
UniRef90_D8JXT0	V	S	T	D
UniRef90_A2SQG9	D	V	T	D
UniRef90_UPI0003602D08	U	V	T	D
UniRef90_Q6R960	V	V	T	D
UniRef90_UPI00004FB1C0	V	V	T	D
UniRef90_G2FY85	E	V	S	T
UniRef90_H0Q593	E	V	S	T
UniRef90_F5RAW4	N	V	H	S
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UniRef90_C6WWF1	A	V	S	T
UniRef90_A0B5S5	Q	V	T	D
UniRef90_J7Q445	T	Q	V	T
UniRef90_G7ZAX8	T	V	S	T
UniRef90_F0SK26	Q	V	T	D
UniRef90_UPI00036B4918	K	I	K	T
UniRef90_Q2NEY8	K	V	K	T
UniRef90_I9KVX6	D	V	H	S
UniRef90_Q4JIN5	T	V	S	T
UniRef90_UPI00045EAB27	S	V	T	D
UniRef90_C5CPW2	D	V	S	T
UniRef90_A2SJ24	E	V	S	T
UniRef90_B1Y0Z3	E	V	S	T
UniRef90_UPI00036BDFFB	V	Q	I	T
UniRef90_UPI00037928FA	Q	I	T	D
UniRef90_F4C0H5	E	V	S	T
UniRef90_H5XWY4	E	V	S	T
UniRef90_G8AVC7	T	V	S	T
UniRef90_UPI0003482C8C	D	V	H	S
UniRef90_W6WQ55	D	I	A	S
UniRef90_N6YCQ4	E	V	S	T
UniRef90_UPI00029A03EA	A	V	E	T
UniRef90_UPI0003009783	Q	V	R	S
UniRef90_H1YX98	D	Q	L	T
UniRef90_B8ITX3	T	V	H	S
UniRef90_G7WQH3	Q	N	V	T
UniRef90_Q2Y4N8	N	V	T	D
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UniRef90_I4BWW1	V	E	L	S
UniRef90_J3A025	E	V	S	T
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UniRef90_H0HRA6	E	V	S	T
UniRef90_A0A022GX31	E	A	S	G
UniRef90_D5MJV5	S	V	A	T
UniRef90_Q2FT11	H	L	T	V
UniRef90_A3CS47	H	L	T	V
UniRef90_I0HWH4	Q	V	R	S
UniRef90_W0EEI3	Q	V	T	D
UniRef90_M0DDK3	E	L	Q	T
UniRef90_E7QZV0	E	L	S	T
UniRef90_M0H3J5	E	L	S	T
UniRef90_H5WKF6	E	L	S	T
UniRef90_R4WA57	E	L	S	T
UniRef90_M5DXY0	K	E	T	S
UniRef90_B8CFZ0	N	V	S	T
UniRef90_G7ZA05	A	V	H	S
UniRef90_UPI00016C4EC7	Q	V	T	D
UniRef90_I4D9I8	E	V	T	D
UniRef90_A6CF70	Q	V	T	D
UniRef90_UPI0003813BA1	D	Q	V	T
UniRef90_J7ISY6	E	V	T	D
UniRef90_L0D9S7	Q	V	T	D
UniRef90_A3ZXB8	L	V	Q	V
UniRef90_D5SQ36	V	V	E	T

QUERY	P	A	E	T	Y	E	E	I	D	Y	K	D	E	A	D	L	A	I	L	140	E	A	S	D	V	L	P	G	E	D	V	A	Q	Y	V	A	D	E	E	C	160									
UniRef90_Q59030	P	K	K	T	Y	E	E	E	I	D	Y	K	D	E	A	D	L	A	I	L	T	L	E	A	S	D	V	L	P	G	E	D	V	A	Q <td>Y<td>V<td>A</td><td>D</td><td>E</td><td>E</td><td>C</td><td>G</td> </td></td>	Y <td>V<td>A</td><td>D</td><td>E</td><td>E</td><td>C</td><td>G</td> </td>	V <td>A</td> <td>D</td> <td>E</td> <td>E</td> <td>C</td> <td>G</td>	A	D	E	E	C	G							
UniRef90_P94954	P	K	K	E	T	Y	E	E	E	I	D	Y	K	D	E	A	D	L	A	I	L	C	L	E	A	S	D	V	L	P	G	E	D	V	A	Q <td>Y<td>V<td>A</td><td>D</td><td>E</td><td>E</td><td>C</td><td>G</td> </td></td>	Y <td>V<td>A</td><td>D</td><td>E</td><td>E</td><td>C</td><td>G</td> </td>	V <td>A</td> <td>D</td> <td>E</td> <td>E</td> <td>C</td> <td>G</td>	A	D	E	E	C	G						
UniRef90_E3GXM5	P	L	I	K	E	T	Y	E	E	I	D	Y	K	D	E	A	D	L	A	I	L	C	L	E	A	S	D	V	L	P	G	E	D	V	A	Q <td>Y<td>V<td>A</td><td>D</td><td>E</td><td>E</td><td>C</td><td>G</td> </td></td>	Y <td>V<td>A</td><td>D</td><td>E</td><td>E</td><td>C</td><td>G</td> </td>	V <td>A</td> <td>D</td> <td>E</td> <td>E</td> <td>C</td> <td>G</td>	A	D	E	E	C	G						
UniRef90_Q9RPW8	V	E	E	E	L	Y	K	E	L	N	Y	R	D	K	H	T	E	T	A	J	V	M	V	V	D	D	K	V	P	P	V	E	E	V	T	D	D	E	I	A	A	R	A	N	A	K	K	G		
UniRef90_I1YJ20	E	E	E	L	F	K	E	L	I	D	Y	Q	E	D	K	A	D	A	V	V	V	V	V	V	V	D	D	K	V	P	P	V	E	E	V	T	D	D	E	I	A	A	R	A	N	A	K	K	G	
UniRef90_D1JGU3	P	K	K	E	L	Y	E	E	I	D	Y	Q	E	D	K	A	D	A	V	V	V	V	V	V	D	D	K	V	P	P	V	E	E	V	T	D	D	E	I	A	A	R	A	N	A	K	K	G		
UniRef90_D3S3E5	P	K	K	T	Y	E	E	E	I	D	Y	Q	E	D	K	A	D	A	V	V	V	V	V	V	D	D	K	V	P	P	V	E	E	V	T	D	D	E	I	A	A	R	A	N	A	K	K	G		
UniRef90_D7EAT8	P	K	S	L	Y	E	E	E	I	D	Y	K	D	E	A	D	L	A	I	L	V	V	V	V	V	D	D	K	V	P	P	V	E	E	V	T	D	D	E	I	A	A	R	A	N	A	K	K	G	
UniRef90_V5BZP5	V	E	E	L	Y	K	E	L	I	D	Y	Q	E	D	K	A	D	A	V	V	V	V	V	V	D	D	K	V	P	P	V	E	E	V	T	D	D	E	I	A	A	R	A	N	A	K	K	G		
UniRef90_Q8TQ42	P	K	E	L	Y	E	E	E	I	D	Y	Q	E	D	K	A	D	A	V	V	V	V	V	V	D	D	K	V	P	P	V	E	E	V	T	D	D	E	I	A	A	R	A	N	A	K	K	G		
UniRef90_UPI00036EC557	E	E	T	L	F	Q	E	L	I	D	Y	Q	E	D	K	A	D	A	V	V	V	V	V	V	D	D	K	V	P	P	V	E	E	V	T	D	D	E	I	A	A	R	A	N	A	K	K	G		
UniRef90_Q9RQ04	E	E	E	L	F	K	E	L	I	D	Y	Q	E	D	K	A	D	A	V	V	V	V	V	V	D	D	K	V	P	P	V	E	E	V	T	D	D	E	I	A	A	R	A	N	A	K	K	G		
UniRef90_UPI0003B3051D	E	E	E	L	F	K	E	L	I	D	Y	Q	E	D	K	A	D	A	V	V	V	V	V	V	D	D	K	V	P	P	V	E	E	V	T	D	D	E	I	A	A	R	A	N	A	K	K	G		
UniRef90_D5C311	E	E	E	L	F	T	E	I	I	D	Y	Q	E	D	K	A	D	A	V	V	V	V	V	V	D	D	K	V	P	P	V	E	E	V	T	D	D	E	I	A	A	R	A	N	A	K	K	G		
UniRef90_Y0KHI2	E	E	E	L	F	T	E	I	I	D	Y	Q	E	D	K	A	D	A	V	V	V	V	V	V	D	D	K	V	P	P	V	E	E	V	T	D	D	E	I	A	A	R	A	N	A	K	K	G		
UniRef90_Q0W8U9	P	K	H	T	Y	E	V	I	E	Y	E	D	D	Y	D	F	A	V	I	A	L	V	L	V	V	V	D	D	K	V	P	P	N	E	K	V	M	D	K	Y	I	A	S	D	E	C	C	G		
UniRef90_I3CEK0	E	E	E	D	L	F	K	E	L	I	D	Y	Q	E	D	K	A	D	A	V	V	V	V	V	V	D	D	K	V	P	P	V	E	E	V	T	D	D	E	I	A	A	R	A	N	A	K	K	G	
UniRef90_UPI000370CDF4	E	E	D	L	F	K	E	L	I	D	Y	Q	E	D	K	A	D	A	V	V	V	V	V	V	D	D	K	V	P	P	V	E	E	V	T	D	D	E	I	A	A	R	A	N	A	K	K	G		
UniRef90_A3CTA1	P	K	H	T	Y	E	V	I	E	Y	E	D	D	Y	D	F	A	V	I	A	L	V	L	V	V	V	D	D	K	V	P	P	N	E	K	V	M	D	K	Y	I	A	S	D	E	C	C	G		
UniRef90_B8EIJ8	E	E	E	D	L	F	K	E	L	I	D	Y	Q	E	D	K	A	D	A	V	V	V	V	V	V	D	D	K	V	P	P	V	E	E	V	T	D	D	E	I	A	A	R	A	N	A	K	K	G	
UniRef90_Q0BU31	E	K	L	F	E	E	L	I	S	T	Y	R	D	E	A	T	R	A	V	L	V	L	V	L	V	V	V	D	D	K	V	P	P	A	E	V	T	E	R	K	V	A	A	R	A	A	K	K	G	
UniRef90_Q64C60	P	K	E	L	Y	D	E	L	I	G	Y	K	D	S	S	E	R	A	L	V	L	V	L	V	V	V	D	D	K	V	P	P	N	E	K	V	M	D	K	Y	I	A	S	D	E	C	C	G		
UniRef90_G2DX04	P	K	E	L	Y	D	E	L	I	G	Y	K	D	S	S	E	R	A	L	V	L	V	L	V	V	V	D	D	K	V	P	P	N	E	K	V	M	D	K	Y	I	A	S	D	E	C	C	G		
UniRef90_J0S0W9	P	K	H	T	Y	E	V	I	E	Y	E	D	D	Y	D	F	A	V	I	A	L	V	L	V	V	V	D	D	K	V	P	P	N	E	K	V	M	D	K	Y	I	A	S	D	E	C	C	G		
UniRef90_D7A5F7	E	T	L	F	G	E	L	I	G	Y	R	D	S	A	D	H	A	C	L	V	L	V	V	V	V	D	D	K	V	P	P	D	S	L	V	Q	R	I	A	E	E	E	E	C	C	G				
UniRef90_F2KS65	P	K	K	T	Y	E	E	L	I	D	Y	Q	E	D	K	A	D	A	V	V	V	V	V	V	D	D	K	V	P	P	V	E	E	V	T	D	D	E	I	A	A	R	A	N	A	K	K	G		
UniRef90_Q0G4J7	P	K	H	T	Y	E	V	I	E	Y	E	D	D	Y	D	F	A	V	I	A	L	V	L	V	V	V	D	D	K	V	P	P	N	E	K	V	M	D	K	Y	I	A	S	D	E	C	C	G		
UniRef90_D8JXT0	V	E	E	L	F	K	E	L	I	D	Y	Q	E	D	K	A	D	A	V	V	V	V	V	V	D	D	K	V	P	P	V	E	E	V	T	D	D	E	I	A	A	R	A	N	A	K	K	G		
UniRef90_A2SQG9	P	K	H	T	Y	E	V	I	E	Y	E	D	D	Y	D	F	A	V	I	A	L	V	L	V	V	V	D	D	K	V	P	P	N	E	K	V	M	D	K	Y	I	A	S	D	E	C	C	G		
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UniRef90_Q6R960	V	E	E	L	F	K	E	L	I	D	Y	Q	E	D	K	A	D	A	V	V	V	V	V	V	D	D	K	V	P	P	V	E	E	V	T	D	D	E	I	A	A	R	A	N	A	K	K	G		
UniRef90_UPI00004FB1C0	E	E	E	L	F	K	E	L	I	D	Y	Q	E	D	K	A	D	A	V	V	V	V	V	V	D	D	K	V	P	P	V	E	E	V	T	D	D	E	I	A	A	R	A	N	A	K	K	G		
UniRef90_G2FY85	E	E	G	S	L	F	E	L	I	D	Y	Q	E	D	K	A	D	A	V	V	V	V	V	V	D	D	K	V	P	P	V	E	E	V	T	D	D	E	I	A	A	R	A	N	A	K	K	G		
UniRef90_H0Q593	E	E	P	L	F	E	E	L	I	D	Y	R	D	R	A	G	P	A	V	L	V	L	V	V	V	D	D	K	V	P	P	V	V	I	D	K	I	L	R	D	D	E	C	C	G					
UniRef90_F5RAW4	E	E	P	L	F	K	E	L	I	D	Y	Q	E	D	K	A	D	A	V	V	V	V	V	V	D	D	K	V	P	P	V	E	E	V	T	D	D	E	I	A	A	R	A	N	A	K	K	G		
UniRef90_UPI0003B5DFFF	V	E	E	L	F	K	E	L	I	D	Y	Q	E	D	K	A	D	A	V	V	V	V	V	V	D	D	K	V	P	P	V	E	E	V	T	D	D	E	I	A	A	R	A	N	A	K	K	G		
UniRef90_C6WWF1	E	E	L	F	K	E	L	I	D	Y	Q	E	D	K	A	D	A	V	V	V	V	V	V	V	D	D	K	V	P	P	V	E	E	V	T	D	D	E	I	A	A	R	A	N	A	K	K	G		
UniRef90_A0B5S5	T	K	D	L	F	E	R	I	L	S	Y	R	D	E	D	V	G	A	I	V	L	V	L	V	V	D	D	K	V	P	P	D	A	A	V	A	A	R	V	A	E	M	S	C	G					
UniRef90_J7Q445	E	K	L	F	D	E	L	I	S	Y	R	D	E	D	V	G	A	I	V	L	V	L	V	V	D	D	K	V	P	P	D	A	A	V	A	A	R	V	A	E	M	S	C	G						
UniRef90_G7ZAX8	E	P	L	F	A	E	L	I	C	Y	R	D	M	A	D	R	T	V	L	V	L	V	V	V	D	D	K	V	P	P	A	S	V	V	E	K	V	A	A	R	D	C	G							
UniRef90_F0SK26	E	A	L	F	E	Q	L	I	C	Y	R	D	M	A	D	R	T	V	L	V	L	V	V	V	D	D	K	V	P	P	G	S	D	V	V	E	C	D	I	V	A	R	K	A	G	G				
UniRef90_UPI00036B4918	P	K	S	T	Y	E	E	L	I	D	Y	Q	E	D	K	A	D	A	V	V	V	V	V	V	D	D	K	V	P	P	V	E	E	V	T	D	D	E	I	A	A	R	A	N	A	K	K	G		
UniRef90_Q2NEY8	D	N	N	I	Y	K	I	T	N	Y	I	E	D	S	D	V	A	V	I	T	L	V	L	V	V	D	D	K	V	P	P	D	E	D	I	A	N	Y	I	A	D	E	C	C	G					
UniRef90_I9KVX6	E	P	L	F	E	E	L	I	D	Y	Q	E	D	K	A	D	A	V	V	V	V	V	V	D	D	K	V	P	P	V	E	E	V	T	D	D	E	I	A	A	R	A	N	A	K	K	G			
UniRef90_Q4JIN5	E	R	E	L	F	D	R	L	I	G	Y	Q	E	D	K	A	D	A	V	V	V	V	V	V	D	D	K	V	P	P	T	D	A	V	A	T	K	W	V	A	T	K	A	G	G					
UniRef90_UPI00045EAB27	V	E	E	L	F	A	E	L	I	G	C	R	D	H	A	P	C	G	V	L	V	L	V	V	V	D	D	K	V	P	P	A	E	V	V	Q	E	V	A	S	R	C	C	G						
UniRef90_C5CPW																																																		

QUERY	V	D	V	A	N	V	F	L	L	V	A	P	T	A	S	L	V	G	S	I	V	I	A	G	R	V	V	E	N	G	T	Y	K	M	L	E	F	V	L	K						
UniRef90_Q59030	V	V	V	E	N	N	V	L	L	V	V	P	T	A	S	L	V	G	S	I	V	I	A	G	R	V	V	E	N	G	T	Y	K	M	L	E	F	V	L	K						
UniRef90_P94954	V	D	P	P	E	N	V	L	L	V	V	P	T	A	S	L	V	G	S	I	V	I	A	G	R	V	V	E	N	G	T	Y	K	M	L	E	F	V	L	K						
UniRef90_E3GXM5	V	V	S	P	E	N	V	L	L	V	V	P	T	A	S	L	V	G	S	I	V	I	A	G	R	V	V	E	N	G	T	Y	K	M	L	E	F	V	L	K						
UniRef90_Q9RPW8	L	D	P	P	E	H	L	T	V	L	L	T	P	T	S	S	L	A	G	G	M	Q	V	V	A	R	V	L	E	V	A	L	H	K	A	H	A	L	H	F						
UniRef90_I1YJ20	L	I	V	E	P	E	N	L	L	L	L	T	P	T	T	S	L	A	G	G	V	M	Q	V	V	A	R	V	L	E	V	A	L	H	K	A	H	A	L	H	F					
UniRef90_D1JGU3	V	I	A	P	E	D	L	Y	L	L	V	V	A	P	T	A	S	I	V	I	A	G	S	V	V	Q	V	V	E	T	A	I	Y	K	M	A	E	E	S	I	V	L	G	F	F	
UniRef90_D3S3E5	V	K	P	E	D	V	Y	A	L	V	V	A	P	T	A	S	I	V	I	A	G	S	V	V	Q	V	V	E	T	A	I	Y	K	M	A	E	E	S	I	V	L	G	F	F		
UniRef90_D7EAT8	V	A	P	S	D	N	Y	T	I	A	V	A	P	T	S	S	I	A	G	S	V	V	Q	V	V	S	A	R	V	L	E	V	A	M	H	K	A	H	A	L	H	F	F			
UniRef90_V5BZP5	V	I	A	P	E	N	K	L	T	I	L	V	A	P	T	S	S	I	A	G	S	C	Q	V	V	S	A	R	V	L	E	V	A	M	H	K	A	H	A	L	H	F	F			
UniRef90_Q8TQ42	V	A	P	E	N	N	M	I	A	V	V	A	P	T	A	S	I	A	G	S	V	V	Q	V	V	S	A	R	V	L	E	T	G	I	H	K	A	F	E	S	I	V	L	G	F	F
UniRef90_UPI00036EC557	V	A	P	P	Q	N	L	T	L	L	L	T	P	T	T	S	L	A	G	S	V	V	Q	V	V	V	A	R	V	L	E	V	A	L	H	K	A	H	A	L	H	F	F			
UniRef90_Q9RQ04	V	A	P	P	Q	N	L	T	L	L	L	T	P	T	T	S	L	A	G	S	V	V	Q	V	V	V	A	R	V	L	E	V	A	L	H	K	A	H	A	L	H	F	F			
UniRef90_UPI0003B3051D	V	M	P	E	N	L	T	F	L	L	L	T	P	T	T	S	L	A	G	T	V	Q	V	V	V	A	R	V	L	E	V	A	M	H	K	A	H	A	L	H	F	F				
UniRef90_D5C311	I	K	P	A	N	E	L	T	L	L	L	T	P	T	T	R	L	A	G	T	V	M	Q	V	V	A	R	V	L	E	V	A	L	H	K	A	H	A	L	H	F	F				
UniRef90_Y0KHI2	V	I	P	A	N	E	L	T	F	L	L	T	P	T	T	R	L	A	G	T	V	M	Q	V	V	A	R	V	L	E	V	A	L	H	K	A	H	A	L	H	F	F				
UniRef90_Q0W8U9	V	D	S	S	D	V	A	L	V	V	A	P	T	N	S	P	V	G	S	V	V	Q	V	V	A	G	R	V	L	E	M	A	L	Y	K	L	A	E	T	L	L	G	F	F		
UniRef90_I3CEK0	L	I	K	A	E	A	L	T	L	L	L	T	P	T	R	S	L	A	G	T	V	Q	V	V	V	A	R	V	L	E	V	A	M	H	K	V	L	H	A	L	H	F	F			
UniRef90_UPI000370CDF4	L	I	K	A	E	A	L	T	F	L	L	T	P	T	R	S	L	A	G	T	V	Q	V	V	V	A	R	V	L	E	V	A	M	H	K	V	L	H	A	L	H	F	F			
UniRef90_A3CTA1	V	D	V	A	N	T	C	A	V	V	A	P	T	A	S	L	V	G	S	I	V	I	A	G	R	V	V	E	T	A	V	Y	K	L	N	E	E	A	L	L	G	F	F			
UniRef90_B8EIJ8	V	S	P	E	N	L	A	F	I	F	A	P	T	Q	S	L	A	G	S	V	V	Q	V	V	V	A	R	V	L	E	V	A	L	H	K	A	H	H	E	L	L	L	G	F	F	
UniRef90_Q0BU31	V	A	P	E	N	L	T	F	L	L	L	T	P	T	T	S	L	A	G	S	V	V	Q	V	V	V	A	R	V	L	E	V	A	L	H	K	A	H	H	E	L	L	L	G	F	F
UniRef90_Q64C60	V	D	P	K	E	L	T	I	A	V	A	P	T	S	S	I	A	G	S	V	V	Q	V	V	S	A	R	V	L	E	T	G	I	H	K	M	H	D	E	L	L	G	F	F		
UniRef90_G2DX04	V	D	P	S	A	N	T	L	L	L	T	P	T	S	S	I	A	G	S	V	V	Q	V	V	S	A	R	V	L	E	T	G	I	H	K	M	H	D	E	L	L	G	F	F		
UniRef90_J0S0W9	V	D	V	A	N	T	C	A	V	V	A	P	T	S	S	I	A	G	S	V	V	Q	V	V	V	A	R	V	L	E	T	A	V	Y	K	L	N	E	E	A	L	L	G	F	F	
UniRef90_D7A5F7	V	A	P	E	R	L	T	L	L	L	T	P	T	S	S	I	A	G	T	V	Q	V	V	V	A	R	V	L	E	V	A	L	H	K	T	H	A	L	H	F	F					
UniRef90_F2KS65	V	A	P	E	D	L	T	Y	V	L	V	A	P	T	A	S	I	V	G	S	V	V	Q	V	V	S	A	R	V	L	E	M	A	L	Y	R	M	A	H	E	L	L	G	F	F	
UniRef90_Q0G4J7	V	A	P	D	K	L	T	F	A	L	L	T	P	T	T	S	L	A	G	A	V	Q	V	V	V	A	R	V	L	E	V	A	I	H	K	A	H	A	L	H	F	F				
UniRef90_D8JXT0	I	D	P	K	G	L	S	L	L	Y	A	T	T	W	S	L	A	G	T	V	Q	V	V	V	A	R	V	L	E	V	A	I	H	K	A	H	A	L	H	F	F					
UniRef90_A2SQG9	V	D	V	A	N	V	C	A	L	V	A	P	T	S	S	L	V	G	S	I	V	I	A	G	R	V	V	E	T	A	V	Y	K	L	N	E	E	A	L	L	G	F	F			
UniRef90_UPI0003602D08	V	A	A	D	R	V	A	F	I	F	A	P	T	R	S	L	A	G	G	V	V	Q	V	V	V	A	R	V	L	E	V	A	M	H	K	V	H	A	L	H	F	F				
UniRef90_Q6R960	I	K	T	S	D	L	T	V	L	Y	A	P	T	G	S	L	A	G	T	V	Q	V	V	V	A	R	V	L	E	V	A	L	H	K	A	H	A	L	H	F	F					
UniRef90_UPI00004FB1C0	L	P	A	N	K	L	T	F	L	L	T	P	T	R	S	L	A	G	S	V	V	Q	V	V	T	A	R	V	L	E	V	A	L	H	K	A	H	C	H	A	L	H	F	F		
UniRef90_G2FY85	C	D	P	A	N	K	L	Y	L	L	V	A	P	T	V	S	H	V	G	S	V	V	Q	V	V	A	R	A	L	E	T	G	L	S	K	L	M	E	A	G	L	H	F	F		
UniRef90_H0Q593	L	E	P	W	Q	L	T	L	V	L	T	P	T	T	S	L	A	G	S	T	Q	V	V	V	A	R	V	L	E	V	A	L	H	K	A	H	A	L	H	F	F					
UniRef90_F5RAW4	L	V	G	D	D	G	V	T	L	L	L	T	P	T	R	S	L	A	G	S	V	V	Q	V	V	V	A	R	V	L	E	V	A	L	H	K	V	H	A	L	H	F	F			
UniRef90_UPI0003B5DFFF	L	D	P	D	A	L	T	F	L	L	Y	A	P	T	Q	S	L	A	G	S	V	V	Q	V	V	V	A	R	V	L	E	V	A	L	H	K	A	H	H	A	L	H	F	F		
UniRef90_C6WWF1	M	S	A	E	D	L	T	T	L	L	T	P	T	T	S	V	A	G	V	V	Q	V	V	V	G	R	V	L	E	V	A	L	H	K	A	H	H	A	L	H	F	F				
UniRef90_A0B5S5	I	T	P	S	D	L	R	L	A	V	A	P	T	D	S	V	A	G	M	V	V	S	A	R	I	V	E	T	G	M	H	K	L	F	E	T	M	G	H	F	F					
UniRef90_J7Q445	V	T	P	S	D	K	V	A	F	I	F	A	P	T	Q	S	L	A	G	G	V	V	Q	V	V	V	A	R	V	L	E	V	A	L	H	K	A	H	H	E	L	L	G	F	F	
UniRef90_G7ZAX8	V	P	A	E	R	V	T	L	L	L	T	P	T	R	S	P	A	G	I	V	Q	V	V	V	A	R	V	L	E	V	G	L	H	K	L	H	H	E	A	L	L	H	F	F		
UniRef90_F0SK26	V	E	A	P	R	N	L	L	L	A	A	S	T	A	S	L	A	G	S	L	I	N	A	R	S	V	E	T	A	L	H	K	L	H	H	E	A	L	L	D	F	F				
UniRef90_UPI00036B4918	V	D	A	E	K	V	L	L	V	V	A	P	T	A	S	M	V	G	S	L	I	N	A	R	S	V	E	N	G	T	Y	K	M	L	E	A	L	L	G	F	F					
UniRef90_Q2NEY8	V	K	P	E	N	L	T	L	L	V	A	P	T	A	S	L	V	G	S	I	V	I	S	G	R	A	L	E	T	G	I	Y	K	M	Y	E	I	V	M	N	F	F				
UniRef90_I9KVX6	L	E	A	P	H	Q	L	T	V	L	L	T	P	T	T	S	L	A	G	T	T	Q	V	V	V	A	R	V	L	E	V	A	L	H	K	A	H	A	L	H	F	F				
UniRef90_Q4JIN5	V	I	A	P	E	D	A	L	T	F	I	V	A	P	T	A	S	L	A	G	G	V	V	Q	V	V	V	A	R	V	L	E	T	G	L	H	K	M	H	E	L	L	G	F	F	
UniRef90_UPI00045EAB27	V	A	P	T	A	V	T	F	L	L	T	P	T	A	S	L	A	G	T	V	Q	V	V	V	A	R	V	L	E	V	A	L	H	K	A	H	A	L	H	F	F					
UniRef90_C5CPW2	L	A	A	E	A	L	T	L	L	L	T	P	T	T	S	L	A	G	T	T	Q	V	V	V	A	R	V	L	E	V	A	L	H	K	A	H	H	E	L	L	G	F	F			
UniRef90_A2SJ24	L	R	A	P	E	Q	L	T	L	L	L	T	P	T	R	S	L	A	G	T	T	Q	V	V	V	A	R	V	L	E	V	A	L	H	K	A	H	H	E	L	L	G	F	F		
UniRef90_B1Y0Z3	L	A	A	E	G	L	T	L	L	L	T	P	T	R	S	R	A	G	T	T	Q	V	V	V	G	R	A	L	E	V	A	L	H	K	A	H	H	E	L	L	G	F	F			
UniRef90_UPI00036BDFFB	L	S	A	D	A	L	T	F	L	L	Y	A	P	T	Q	S	L	A	G	A	T	Q	V	V	V	A	R	V	L	E	V	A	L	H	K	A	H	A	L	H	F	F				
UniRef90_UPI00037928FA	V	A	E	D	K	L	T	L	L	L	T	P	T	T	S	L	A	G	S	V	V	Q	V	V	V	A	R	V	L	E	V	A	L	H	K	A	H	H	A	L	H	F	F			
UniRef90_F4C0H5	I	D	P	A	D	L	R	I	A	I	A	P	T	D	S	V	A	G	L	V	Q	V	V	S	A	R	V	L																		

QUERY
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UniRef90_P94954
UniRef90_E3GXM5
UniRef90_Q9RPW8
UniRef90_I1YJ20
UniRef90_D1JGU3
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UniRef90_D7EAT8
UniRef90_V5BZP5
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UniRef90_D5C311
UniRef90_Y0KH12
UniRef90_Q0W8U9
UniRef90_I3CEK0
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UniRef90_A3CTA1
UniRef90_B8EIJ8
UniRef90_Q0BU31
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UniRef90_J0S0W9
UniRef90_D7A5F7
UniRef90_F2KS65
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UniRef90_A3ZXB8
UniRef90_D5SQ36

	210	220	230	240																																								
D	V	K	K	V	V	H	A	A	G	L	A	P	I	A	P	I	D	D	G	L	K	A	M	G	K	T	N	D	A	V	L	F	G	G	R	T	Y	Y						
UniRef90_Q59030	D	V	N	K	V	K	Y	A	A	G	L	A	P	I	A	P	I	D	D	D	F	A	M	M	G	A	T	N	D	M	V	L	F	G	G	R	T	Y	Y					
UniRef90_P94954	D	V	N	K	V	K	Y	A	A	G	L	A	P	I	A	P	I	D	D	D	D	G	E	A	M	G	R	T	N	D	A	V	L	F	G	G	R	T	Y	Y				
UniRef90_E3GXM5	D	V	N	K	V	K	Y	A	A	G	L	A	P	I	A	P	I	D	D	D	S	V	K	A	M	G	R	T	N	D	A	V	L	F	G	G	R	T	Y	Y				
UniRef90_Q9RPW8	P	L	E	N	I	I	D	G	T	G	C	A	P	V	A	P	P	H	P	N	F	L	K	A	M	G	R	T	N	D	A	V	L	F	G	G	R	T	V	H	L			
UniRef90_I1YJ20	P	L	E	N	I	I	V	D	G	F	G	T	P	V	A	P	P	G	G	D	F	M	T	A	M	G	R	T	N	D	A	V	L	F	G	G	R	T	V	H	L			
UniRef90_D1JGU3	D	I	L	N	C	I	E	H	A	H	G	I	P	I	A	S	P	I	V	G	D	D	V	K	A	M	G	S	T	N	D	C	L	I	L	Y	C	G	R	I	Y	Y		
UniRef90_D3S3E5	D	P	K	K	I	V	S	G	A	G	K	C	P	I	A	P	V	L	E	G	D	D	L	K	A	M	G	A	T	N	D	S	M	M	Y	Y	G	S	T	V	F	L		
UniRef90_D7EAT8	D	I	N	K	I	K	S	G	F	G	V	A	P	I	A	P	V	V	H	G	D	T	K	C	A	M	G	S	T	N	D	C	V	I	L	F	A	G	G	E	T	Y	Y	
UniRef90_V5BZP5	D	I	N	K	I	K	S	G	F	G	V	A	P	I	A	P	V	V	H	G	D	T	K	C	A	M	G	S	T	N	D	C	V	I	L	F	A	G	G	E	T	Y	Y	
UniRef90_Q8TQ42	D	I	N	C	I	K	S	G	Y	G	I	A	P	V	I	A	P	V	V	G	N	D	V	Q	C	A	M	G	S	T	N	D	C	V	I	L	F	A	G	G	E	T	N	Y
UniRef90_UPI00036EC557	P	L	E	H	I	V	D	G	M	G	T	A	P	V	L	C	P	S	P	D	F	L	V	A	M	G	R	T	N	D	A	V	L	F	G	G	R	T	V	H	L			
UniRef90_Q9RQ04	P	L	E	H	I	V	D	G	M	G	T	A	P	V	L	C	P	S	P	D	F	L	V	A	M	G	R	T	N	D	A	V	L	F	G	G	R	T	V	H	L			
UniRef90_UPI0003B3051D	P	L	E	H	I	V	D	G	M	G	T	A	P	V	L	C	P	S	P	D	F	L	V	A	M	G	R	T	N	D	A	V	L	F	G	G	R	T	V	H	L			
UniRef90_D5C311	P	L	E	H	I	V	D	G	M	G	T	A	P	V	L	C	P	S	P	D	F	L	V	A	M	G	R	T	N	D	A	V	L	F	G	G	R	T	V	H	L			
UniRef90_Y0KH12	P	L	E	H	I	V	D	G	M	G	T	A	P	V	L	C	P	S	P	D	F	L	V	A	M	G	R	T	N	D	A	V	L	F	G	G	R	T	V	H	L			
UniRef90_Q0W8U9	D	T	R	H	I	V	S	A	F	G	S	A	P	I	L	P	V	K	K	D	A	A	V	A	M	G	T	N	D	A	S	I	Y	H	G	S	V	T	L	L				
UniRef90_I3CEK0	P	L	E	R	N	I	V	D	G	M	G	S	A	P	L	P	P	A	K	D	F	V	T	A	M	G	R	T	N	D	A	V	L	F	G	G	R	T	V	H	L			
UniRef90_UPI000370CDF4	P	L	E	R	N	I	V	D	G	M	G	S	A	P	L	P	P	A	K	D	F	V	T	A	M	G	R	T	N	D	A	V	L	F	G	G	R	T	V	H	L			
UniRef90_A3CTA1	D	T	K	K	I	T	A	G	I	G	H	A	P	L	A	P	V	K	K	D	G	T	K	A	M	G	S	T	N	D	A	T	I	Y	H	G	S	I	I	M	L	Q	L	
UniRef90_B8EIJ8	P	L	E	R	N	I	V	D	G	L	A	C	A	P	L	P	P	H	P	D	F	V	E	A	M	G	R	T	N	D	A	V	L	F	G	G	R	T	V	H	L			
UniRef90_Q0BU31	P	L	E	N	I	V	D	G	M	G	T	A	P	V	L	C	P	S	P	D	F	L	V	A	M	G	R	T	N	D	A	V	L	F	G	G	R	T	V	H	L			
UniRef90_Q64C60	D	I	T	T	I	K	N	G	F	G	I	I	P	L	S	P	V	V	G	D	D	T	K	C	A	M	G	S	T	N	D	C	L	I	Y	C	G	K	T	Y	Y			
UniRef90_G2DX04	D	L	D	R	I	Q	S	G	F	G	T	A	P	L	P	P	S	P	D	F	V	T	A	M	G	R	T	N	D	A	V	L	F	G	G	R	T	V	H	L				
UniRef90_J0S0W9	D	T	R	K	I	I	S	G	F	G	T	A	P	L	P	P	V	R	G	P	K	L	A	M	G	V	T	N	D	A	V	L	F	G	G	R	T	V	H	L				
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UniRef90_F2KS65	D	V	N	T	R	V	S	A	T	G	R	A	P	L	A	P	V	L	G	D	N	L	K	A	M	G	A	T	N	D	S	L	Y	Y	G	S	T	V	H	L				
UniRef90_Q0G4J7	D	L	T	R	I	L	E	G	I	G	T	A	P	L	A	P	P	H	P	D	F	I	T	A	M	G	R	T	N	D	A	V	L	F	G	G	R	T	V	H	L			
UniRef90_D8JXT0	P	L	E	N	I	L	D	G	T	G	T	P	I	A	P	P	F	P	D	F	V	K	A	M	G	R	T	N	D	A	V	L	F	G	G	R	T	V	H	L				
UniRef90_A2SQG9	D	T	T	K	I	I	A	A	A	G	T	A	P	L	P	P	V	R	G	A	K	L	A	M	G	V	T	N	D	A	T	I	Y	H	G	Q	A	L	N	L	Q	L		
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UniRef90_H0Q593	P	L	Q	D	A	I	V	D	G	T	G	C	A	P	V	A	P	A	P	D	F	L	N	A	M	G	R	T	N	D	A	V	L	F	G	G	R	T	V	H	L			
UniRef90_F5RAW4	P	L	E	N	I	V	D	G	T	G	C	A	P	V	A	P	H	P	D	F	L	Q	A	M	G	R	T	N	D	A	V	L	F	G	G	R	T	V	H	L				
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UniRef90_C6WWF1	D	I	T	K	I	K	S	G	W	G	V	A	P	L	A	P	V	A	G	D	A	T	M	C	A	M	G	A	S	N	D	A	V	L	F	G	G	R	T	V	H	L		
UniRef90_A0B5S5	P	L	D	D	I	I	D	G	V	A	T	A	P	L	S	P	P	H	P	D	F	V	Q	A	M	G	R	T	N	D	A	V	L	F	G	G	R	T	V	H	L			
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UniRef90_G7ZAX8	D	V	K	K	V	K	F	A	A	G	I	A	P	V	A	P	I	I	G	D	D	L	A	M	M	G	S	T	N	D	A	V	L	F	G	G	R	T	V	H	L			
UniRef90_F0SK26	D	V	T	K	I	T	Y	A	A	G	I	T	P	I	T	P	V	D	P	D	S	L	K	A	M	G	K	T	N	D	A	V	L	F	G	G	R	T	V	H	L			
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UniRef90_Q2NEY8	D	V	T	R	V	L	S	A	A	G	T	S	P	L	P	P	T	A	R	S	D	M	R	A	I	G	R	T	N	D	A	V	L	F	G	G	R	T	V	H	L			
UniRef90_I9KVX6	P	L	E	H	I	V	D	G	I	G	S	A	P	V	A	P	S	P	D	F	L	T	A	M	G	R	T	N	D	A	V	L	F	G	G	R	T	V	H	L				
UniRef90_Q4JIN5	A	L	G	N	I	V	E	G	A	G	T	A	P	L	P	S	P	S	A	D	G	L	E	A	M	G	R	T	N	D	A	V	L	F	G	G	R	T	V	H	L			
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UniRef90_C5CPW2	A	L	G	N	I	V	E	G	A	G	T	A	P	L	P	S	P	S	A	D	G	L	E	A	M	G	R	T	N	D	A	V	L	F	G	G	R	T	V	H	L			
UniRef90_A2SJ24	P	L	E	H	I	V	D	G	V	A	S	A	P	L	P	S	P	G	A	D	G	L	E	A	M	G	R	T	N	D	A	V	L	F	G	G	R	T	V	H	L			
UniRef90_B1Y0Z3	D	L	A	H	I	V	D	G	S	A	C	A	P	L	P	A	P	V	A	D	G	V	L	A	M	G																		

QUERY UniRef90_Q59030 UniRef90_P94954 UniRef90_E3GXM5 UniRef90_Q9RPW8 UniRef90_I1YJ20 UniRef90_D1JGU3 UniRef90_D3S3E5 UniRef90_D7EAT8 UniRef90_V5BZP5 UniRef90_Q8TQ42 UniRef90_UPI00036EC557 UniRef90_Q9RQ04 UniRef90_UPI0003B3051D UniRef90_D5C311 UniRef90_Y0KHI2 UniRef90_Q0W8U9 UniRef90_I3CEK0 UniRef90_UPI000370CDF4 UniRef90_A3CTA1 UniRef90_B8EIJ8 UniRef90_Q0BU31 UniRef90_Q64C60 UniRef90_G2DX04 UniRef90_J0S0W9 UniRef90_D7A5F7 UniRef90_F2KS65 UniRef90_Q0G4J7 UniRef90_D8JXT0 UniRef90_A2SQG9 UniRef90_UPI0003602D08 UniRef90_Q6R960 UniRef90_UPI00004FB1C0 UniRef90_G2FY85 UniRef90_H0Q593 UniRef90_F5RAW4 UniRef90_UPI0003B5DFFF UniRef90_C6WWF1 UniRef90_A0B5S5 UniRef90_J7Q445 UniRef90_G7ZAX8 UniRef90_F0SK26 UniRef90_UPI00036B4918 UniRef90_Q2NEY8 UniRef90_I9KVX6 UniRef90_Q4JIN5 UniRef90_UPI00045EAB27 UniRef90_C5CPW2 UniRef90_A2SJ24 UniRef90_B1Y0Z3 UniRef90_UPI00036BDFFB UniRef90_UPI00037928FA UniRef90_F4C0H5 UniRef90_H5XWY4 UniRef90_G8AVC7 UniRef90_UPI0003482C8C UniRef90_W6WQ55 UniRef90_N6YCA4 UniRef90_UPI00029A03EA UniRef90_UPI0003009783 UniRef90_H1YX98 UniRef90_B8ITX3 UniRef90_G7WQH3 UniRef90_Q2Y4N8 UniRef90_G7WFT9 UniRef90_I4BWW1 UniRef90_J3A025 UniRef90_Q4JIS9 UniRef90_D3L4W7 UniRef90_H0HRA6 UniRef90_A0A022GX31 UniRef90_D5MJV5 UniRef90_Q2FT11 UniRef90_A3CS47 UniRef90_I0HWH4 UniRef90_W0EEI3 UniRef90_M0DDK3 UniRef90_E7QZW0 UniRef90_M0H3J5 UniRef90_H5WKF6 UniRef90_R4WA57 UniRef90_M5DX0 UniRef90_B8CFZ0 UniRef90_G7ZAQ5 UniRef90_UPI00016C4EC7 UniRef90_I4D9I8 UniRef90_A6CF70 UniRef90_UPI0003813BA1 UniRef90_J7ISY6 UniRef90_L0D9S7 UniRef90_A3ZXB8 UniRef90_D5SQ36

Y V K S E E G D D D I A A V A A Q L P S S A A D G Y G K P F F D V F K D A G F D
Y I K S D E N D D I E S L V C K A E L L P S S C A S A K E D Y Y G K P F F M E V I F K E A A D Y D F F
Y V E Y G S D D E D L P E V L V K E E L L P S S E A S S P S Y Y G K P F F M K E I F F K E E A E F D D F F
Y I Y E G S D D G D E L L E K L A N E S M P S S S S S S R S D Y Y G K P F F A E V I F F K E E A E Y D D F F
F V K G S D D E A A E Q T L A N E S M P S S S S S S R S D Y Y G K P F F A E V I F F K E E A E Y D D F F
F V N A S D D E D A Q Q L A E E S M P S S S S S S R S D Y Y G K P F F A E V I F F K E E A E Y D D F F
T I K Y D D V E D L K G Y V A E S K M P S S S S S S R S D Y Y G K P F F A E V I F F K E E A E Y D D F F
T I K S D N V E E F E D F V K K T P S S S S S S R S D Y Y G K P F F A E V I F F K E E A E Y D D F F
T V K G A D E E A A Q Q L A N D L P S S S S S S R S D Y Y G K P F F A E V I F F K E E A E Y D D F F
F V R F E E L A E L E D F V K K V P S S S S S S R S D Y Y G K P F F A E V I F F K E E A E Y D D F F
F V S G E E G A A E E L L A Q R R M P S S S S S S R S D Y Y G Q P F F A E V I F F K A A A G H D D F F
F V K G S D E E A A A K L A K E L L P S S S S S S R S D Y Y G R P F F A E V I F F K A A V N M D F F
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F V D C G D S E A A Q L A K S M P S S S S S S R S D Y Y G R P F F A E V I F F K A Y R Y D D F F
Y V K C T D S E A A E A L L A K S L P S S S S S S R S D Y Y G R P F F A E V I F F K A V N M D F F
T V T D G S G N I K D F V P K I L P S S S S S S R S D Y Y G K P F F A E V I F F K E A K F D D F F
F V T G D D S D A K Q L A E Q L P S S S S S S R S D Y Y G R P F F A E V I F F K D Y K Y D D F F
F V N G S D E A A K K L A E L L P S S S S S S R S D Y Y G K P F F A E V I F F K A V N M D F F
T M N A P E I K D Y L D K I L P S S N K S K G Y G K P F F A E V I F F K E A N F D D F F
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F V K G S A E E A R K L A E Q L P A S T S R R D Y Y G K P F F K D I F A A V K G D D F F
T V D Y P D I A E L T D Y V K K V P S S E T S R R D Y Y G K P F F D D T F K A A A G F D D F F
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F V T G P E S D A R E L L A E G L P S S S S S S R S D Y H G R T F F A E V I F F A Y K G D D F F
U N I R E F 9 0 _ Q 0 G 4 J 7 Y V T D G Y P S E E A K D A I L A E K L P S S C E S S S D Y Y G R P F F A E V I F F K D A D Y D D F F
U N I R E F 9 0 _ D 8 J X T 0 F V K G P D S D A K R L A D N L L P S S N T C S A Y G K P F F A E V I F F A D V N G D D F F
U N I R E F 9 0 _ A 2 S Q G 9 T M N A P E I V D Y L E K I L P S S C S S N G Y G K P F F N D I F F K E A G Y D D F F
U N I R E F 9 0 _ U P I 0 0 0 3 6 0 2 D 0 8 F V T G P A N E A K E L L A A A L P S S T T S R R D Y Y G Q P F F A Q I I F F K T Y K G D D F F
U N I R E F 9 0 _ Q 6 R 9 6 0 F V R G T D E A A K K L A A D A L P S S N T C S Y G K P F F A E V I F F A S V N G D D F F
U N I R E F 9 0 _ U P I 0 0 0 0 4 F B 1 C 0 F V N T D D A A E E Q S L A Q Q L P S S S S S S R D Y Y G R P F F A E V I F F K A V N M D F F
U N I R E F 9 0 _ G 2 F Y 8 5 N L R D D E E N L D S L V K Q V P S S C A S S R E Y G R P F F K E V Y K A D Y G N F
U N I R E F 9 0 _ H 0 Q 5 9 3 T V A G D D D A A R E L A N K L P S S S T S R R D Y Y G R S F A D I F R D Y D Y D D F F
U N I R E F 9 0 _ F 5 R A W 4 Y V D C E D A A A D L A A E L L P S S S S S R R D Y Y G R P F F A E V I F F K E V K Y D D F F
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U N I R E F 9 0 _ C 6 W W F 1 Q V K G D D A A A A K L A Q D L P S S S A S S K D Y Y G K T F F A E V I F F K F Y E M D D F F
U N I R E F 9 0 _ A 0 B 5 S 5 T I E Y E N L E E E L K D Y V R K M P S S S A S S R D Y Y G V P F F A S A F K A A G F D D F F
U N I R E F 9 0 _ J 7 Q 4 4 5 F V K G S A A A A K E L A E K L P S S M T S R R D Y Y G R P F F A E V I F F K A Y K G D D F F
U N I R E F 9 0 _ G 7 Z A X 8 L V D G P D D D A A D L A A R L P S S S A S A D Y Y G R P F F A E V I F F A A S G F D D F F
U N I R E F 9 0 _ F 0 S K 2 6 Y I T G D D D A S I E K I L P Q V P S S S A A K G Y G Q T F F K Q V V F K E A G H D D F F
U N I R E F 9 0 _ U P I 0 0 0 3 6 B 4 9 1 8 Y I E P D E G E D L E E L C K A L P Q V P S S C S A S D N Y G Q S F F L E D V F K E A N Y D D F F
U N I R E F 9 0 _ Q 2 N E Y 8 T V N T D D D K A R A L A N D L P S S M R S P D Y Y G R P F F A D I F F K E V E Y D D F F
U N I R E F 9 0 _ I 9 K V X 6 N I R R A D D E E J A D L A R K L P A S A S R D Y Y G T P F F Y D I F F R E Y N D D F F
U N I R E F 9 0 _ Q 4 J I N 5 F V R G S S E A A Q D L A K R L P S L A S R R D Y Y G R S P F G E I F A G Y D C D D F F
U N I R E F 9 0 _ U P I 0 0 0 4 5 E A B 2 7 T V R G D D A A A R E L L A R L P S S R N S R R D Y H G R S F A E V I F F K E V E Y D D F F
U N I R E F 9 0 _ C 5 C P W 2 T V R G G D D A A R E L L A K E L L P S S L N S R R D Y Y G R G F A D I F F K A A E Y D D F F
U N I R E F 9 0 _ A 2 S J 2 4 C V T G T A E A A R D L A Q R L P S S S G S R R D H G R P F F A E V I F F K A A E Y D D F F
U N I R E F 9 0 _ B 1 Y 0 Z 3 F V E A D E A D A K Q L A E Q L P S S T T S A D D H G A P F F A E V I F F G R V N G D D F F
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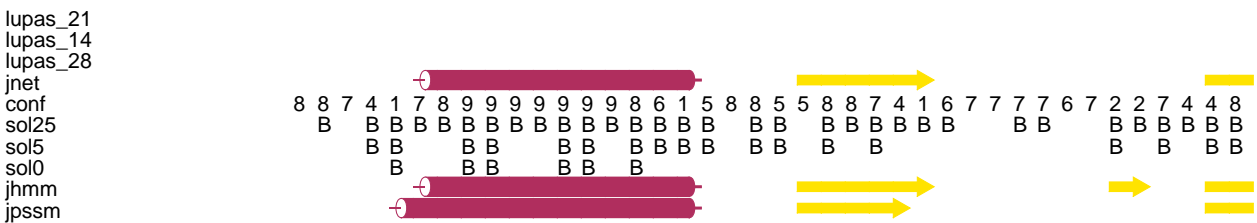
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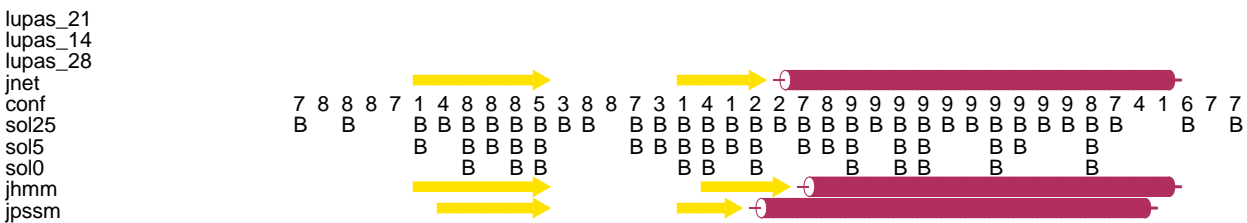
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