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R M I	A A G A A A H S	D H G R D V	A V L T F K K M	S E E G K A G
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R M T	A A G A A A H S	D H G R E D	A L V F K E L V	E E G A V P
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R S I	A A G A A A H S	D H G R D V	A H A F Q L I V	E E G K A P
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D D L	S V G A A A H S	D H G R E V	V V Q V L L E T	A E E G H G
R M V	A A G T A A H S	D H G R G D	I A H A L L Y N	A A K N P E
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L M I	L T G A A A H S	E H G N H I	A H A L V E M A	E G K A P D
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D T L	V T G A A A H S	D H G R D I	V E T L Y K T G	T G T G E A
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D D L	S T G A A A H S	D H G R E L	L E T L Y K T S	V G Q A Q G
R S A	T G G A A A H S	D H G R E L	A V E A L Y Q A	S V G K A P
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T M L	L T G T G A H S	E H A R H I	A E T V L E V	T E E G K A
R F V	A A G A A A H S	D H G R D V	L D T F A A V A	S G K T K D
R M A	A A G A S A H S	D H G R K V	A L L L K D V A	S S G R N T
L M L	L T G A A S H S	E H A S H M	A K T L L E I A	E E G H A P
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170 180 190 200

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G A D G I V Y V A G M L C C C C C C T G N E E V L L M R R H H I V P P T A G N F F L L L Q Q Q E E L L A L I V T T G G A
G A K G I N S V A G G L C C C C C C T G N E E V L L M R R H H I V P P T A G N F F L L L Q Q Q E E L L A L I V T T G G A
G A K G I N A V A G M L C C C C C C T G L E E V L L M R R H H I V P P I A G N F F L L L Q Q Q E E M A L I V T T G G A
G A S G I N V V G L C C C C C C T G N E E V L L M R R H H I V P P I A G N F F L L L Q Q Q E E L L A L I V T T G G A
G A K G I N A V A G L C C C C C C T G L E E V L L M R R H H I V P P I A G N F F L L L Q Q Q E E L L A L I V T T G G A
G A E G I N Q L S G L C C C C C C T G N E E V L L M R R S G I V P P I C A T H S V L Q Q Q E E L L A L I V T T G G A
G A K G I N L V A G M L C C C C C C T G N E E V L L M R R H H I V P P L A G S F F L L L Q Q Q E E L L A L I V T T G G A
G A A G I N L V A G M M C C C C C C T G N E E V L L M R R H H I V P P L A G T S F L L L Q Q Q E E L L A L I V T T G G A
G A E G I N V A G L C C C C C C T G N E E V L M V R R H H I V P P V A G N F F L L L Q Q Q E E L L A L I V T T G G A
G A E G I N D L V G M M C C C C C C T G N E E I A M R R H H I V P P M A G N F F L L L Q Q Q E E L L A L I V T T G G A
G A E G I N L A G M C C C C C C T G N E E V T M R R H H I V P P K I A G N F F L L L Q Q Q E E L L A L I V T T G G A
G A E G I N L A G V I C C C C C C T G N E E V L L M R R H H I V P P M A G N F H L M T Q E E L V L S T T G G A
G A K G I N L A G I C C C C C C T G N E E V L M V R R H H I V P P L A T N Y L S A S Q Q E E L L A L I V T T G G A
G A K G I N L A G L C C C C C C T G N E E V L L M R R Q G V I V P P L A T N F L L L Q Q Q E E L L A L I V T T G G A
G A K G I N L A G L C C C C C C T G N E E I L M R R H H I V P P I A G N F H L M T Q E E L L A L I V T T G G A
G A E G I N L A G L C C C C C C T A N E E V T M R R H H I V P P K M A G N F H Q Q Q E E L L A L I V T T G G A
G A K G I N L V G L C C C C C C T G N E E V L L M R R Q G V I V P P L V T S F A S Q Q E E L L A L I V T T G G A
G A T G I N T V A G L C C C C C C T G N E E V L L M R R Q G V I V P P M A G N F H L M T Q E E L L A L I V T T G G A
G A K G I N V A G L C C C C C C T A N E E V L L M R R R Q G V I V P P V A G N M I H H Q Q E E L L A L I V T T G G A
G A K G I N L V G L C C C C C C T G N E E V L L M R R Q G V I V P P M A G N F H L M T Q E E L L A L I V T T G G A
G A S G I N I A G L C C C C C C T G N E E V L L M R R Q G V I V P P I A G N H L L M T Q E E L L A L I V T T G G A
G A S G I N L A G I C C C C C C T G N E E V L L M R R K G V I V P P I A G N M L D Q Q E E L L A L I V T T G G A
G A R G I K L A G I C C C C C C T G N E E V L L M R R Q G V I V P P L A T N F L L L Q Q Q E E L L A L I V T T G G A
G A K G I N I A G I C C C C C C T G N E E V L M V R R H H I V P P L A A N F Y L S A S Q Q E E L L A L I V T T G G A
G A A G I Q L A G I C C C C C C T G N E E V L M R R Q G V I V P P I A T G F S S Q Q E E M A L I V T T G G A
G A S G I N I A G L C C C C C C T G N E E V L L M R R Q G V I V N V A G N L L H H S S Q Q E E L L A L I V T T G G A
G A K G I K C M G I C C C C C C T G N E E V L L M R R Q G V I V P L V T S F S S Q Q E E Y A I A T T G G A
G A Q G I N V A G L C C C C C C T G N E E V L L M R R Q G V I V P M A G N H L L M T Q E E L L A L I V T T G G A
G A K G I N L A G L C C C C C C T G N E E L M M R R Q G V I V P M A G N H L L M T Q E E L L A L I V T T G G A
G A K G I N L A G M C C C C C C S A N E E V L L M R R H H I V P P T A G N Y L L Q Q Q E E L L A L I V T T G G A
G A A G I N L A G L C C C C C C T G N E E V L L M R R Q G V I V P M A G N H L L M T Q E E L L A L I V T T G G A
G A Q G I N L V G I C C C C C C T G N E E V L L M R R H H I V P P P L T H S I S Q Q E E M P I V T T G G A
G A A G I N V A G L C C C C C C T G N E E V L L M R R Q G V I V P M A G N F H L M T Q E E L L A L I V T T G G A
G A K G I N L A G L C C C C C C T A N E E V T M R R H H I V P P K M A G N F L L Q Q Q E E L A V V T T G G A
G A D G I N L C G M C C C C C C T A N E E A T M R R R G I V K L A G N F M Q Q Q E E L A V V T T G G A
G A K G I Q L G G I C C C C C C T G N E E M L Q R R H H I V P P T A G T Y L L Q Q Q E E L A V V T T G G A
G A K G I G I S G I C C C C C C T G N E E V L L M R R N G V I P I A T S F Y M A Q Q Q E E L L A L I V T T G G A
G A Q G I N V A G L C C C C C C T G N E E V L L M R R Q G V I V N V A G N E L H H S S E L V I M T T G G A
G A P G I N I V G L C C C C C C T G N E E V L L M R R R G I V P L A G N F L L Q Q Q E E L V I L T T G G A
G A N G I N V A G V L C C C C C C T S N E E V A M R R R G I P M A G N F L L Q Q Q E E N V V L T T G G A
G A E G I N L A G L C C C C C C T G N E E V L M R R K G I V P M A G N F H L I Q Q E E L V I G T T G G A
G A E G I N V C G M C C C C C C Y T G N E E I T M R R H H I V P P K M A G N F L L Q Q Q E E L A V I T T G G A
G A A A L N V A G L C C C C C C T G N E E V L L M R R Q G V I V P M A G N F L L M T Q E E L A L I V T T G G A
G A E G I N L V G M C C C C C C S G N E E Q L I R R R G L K H A G N F M Q C D A V I I T T G G A
G A Q G I N V A G V L C C C C C C T G N E E V L L M R R K G I V P V A T N Y A S Q Q E E M P I V T T G G A
G A H G I V L A G M C C C C C C T A N E E I L L C R H H G L P L A G N Y L S Q Q Q E E L A I V T T G G A
G A T G I N I A G L C C C C C C T G N E E V L L M R R Q G V I V P M A G N F H L L M T Q E E L A L I V T T G G A
G A K G I N I A G V M C C C C C C T G N E E V A M R R H H I V P P M A G N F L L Q Q Q E E N V V L T T G G A
G A K G I N I V G M C C C C C C T G N E E M T M R R H H I V K I A G N F Y L L Q Q Q E E M C I I T T G G A
G A K G I Q L G G I C C C C C C T A N E E M L Q R R H H I V P P T A G N F L L Q Q Q E E L A I I T T G G A
G A K G I N I V G L C C C C C C T A N E E V A M R R H H I V R M A G N F L L Q Q Q E E N A I A T T G G A
G A N G I N L A G L C C C C C C T G N E E V L L M R R Q G V I V P M A G N F L L M T Q E E L A I A T T G G A
G A G G I T L S G L C C C C C C T G N E E V L L M R R Q G V I V P L V T S F S S Q Q E E L V I C T T G G A
G A D G I N L C G M C C C C C C T A N E E A A M R R H H I V K L A G N F M Q Q Q E E L A V I T T G G A
G A E G I N L V G L C C C C C C T G N E E V A M R R H H I V K L A G N F N Q Q Q E E L A I V T T G G A
G A K G I N V A G L C C C C C C T A N E E I L L A M R R H H I V R T A G D F H Q Q Q E E L A I I T T G G A
G A A G I N V A G L C C C C C C T G N E E I L L A R R K G I V P V A G N V L L M T Q E E L A V A T T G G A
G A E G I N V A G I C C C C C C T G N E E L L M R R Q G V I V P L A T N F A S Q Q E E L A I V T T G G A
G A K G V N L V G L C C C C C C T G N E E L Q M R R K G I V P M A G N H L L M T Q E E L V I A T T G G A
G A A G I N V A G L C C C C C C T G N E E V L L M R R Q G V I V P M A G N H L L M T Q E E L A I V T T G G A
G A K G I N L V G I C C C C C C T G N E E V L L M R R Q G V I V P I A T N Y A T Q E E L A I M T T G G A
G A K R V N V V G L C C C C C C T G N E E V L L M R R Q G V I V G M A G N E H S S E L L A I M T T G G A
G S A G I N L V G L C C C C C C T G N E E V L L M R R K G I V G Q A G N H L L N Q Q E E L A I A T T G G A
G A E G I N V A G M C C C C C C T G N E E I A M R R H H I V P M A G N F F L Q Q Q E E L A I M T T G G A
G A K G I N I V G V M C C C C C C T G N E E V A M R R R G I V L A G N F L S Q Q Q E E M A V I T T G G A
G A K G I N I V G M C C C C C C T G N E E M T M R R H H I V K I A G N F Y L S Q Q Q E E M A I L T T G G A
G A D G I N I V G T C C C C C C T G N E E V M M R R H H I V P L A T N Y L S Q Q Q E E M A I F T T G G A
G A K G I N I V G G C C C C C C S A N E E V L L M R R Q G V I V S V A T N Y A S Q Q E E L A I I T T G G A
G A E R I N V V G V C C C C C C T G N E E L L S M R R H H I V K L A A H N S Q Q E E L L A L I T T G G A
G A K G V N V V G M C C C C C C T G N E E I L L M R R Q G V I V S L A G N E L H H Q Q E E L A V M T T G G A
G A A G I N L V G L C C C C C C T G N E E V L L M R R R G I V P M A G N H L L M T Q E E L V L V T T G G A
G A T G I S L V G G I C C C C C C T S N E E V L L M R R H H I V P V A G N Y L L Q Q Q E E L A V I T T G G A
G A L G I Q F Y G I C C C C C C S G L S A M Y R Y G V I P L S N A I G V E L V L G T G A

QUERY	V	N	F	A	E	E	A	A	V	370	E	N	A	K	Q	L	R	L	A	I	380	D	T	F	P	N	R	R	R	K	G	K	P	V	E	I	390	P	N	S	E	D	S	M	D	L	V	400		
UniRef90_H5SP18	I	E	F	R	E	E	R	A	V	D	V	A	K	E	K	E	I	R	R	A	I	E	N	F	P	N	R	R	R	R	P	R	R	V	Q	N	I	P	N	S	E	D	S	M	D	L	V			
UniRef90_C8W085	I	E	F	D	N	A	H	E	K	A	M	E	V	A	K	E	I	V	R	L	A	I	E	N	F	S	N	R	R	P	R	R	R	V	H	I	P	N	S	E	D	S	M	D	L	V				
UniRef90_B7R5K0	I	E	F	D	K	A	E	N	A	R	E	S	A	K	E	K	E	L	K	V	A	I	E	N	F	K	N	R	R	V	K	R	V	F	S	I	P	K	E	E	K	M	E	A	C	C				
UniRef90_B1L4Y1	M	E	F	H	E	E	D	E	A	Y	A	T	A	K	E	I	V	K	A	V	I	E	N	F	P	N	R	R	R	V	K	R	V	F	S	I	P	K	E	E	K	M	E	A	C	C				
UniRef90_Q8TKW2	I	E	F	H	E	E	D	E	A	Y	A	T	A	K	E	I	V	K	A	V	I	E	N	F	P	N	R	R	R	V	K	R	V	F	S	I	P	K	E	E	K	M	E	A	C	C				
UniRef90_F2NBQ6	I	E	F	H	E	E	D	E	A	Y	A	T	A	K	E	I	V	K	A	V	I	E	N	F	P	N	R	R	R	V	K	R	V	F	S	I	P	K	E	E	K	M	E	A	C	C				
UniRef90_E1YHP0	I	E	F	H	E	E	D	E	A	Y	A	T	A	K	E	I	V	K	A	V	I	E	N	F	P	N	R	R	R	V	K	R	V	F	S	I	P	K	E	E	K	M	E	A	C	C				
UniRef90_B7R8Q7	I	E	F	H	E	E	D	E	A	Y	A	T	A	K	E	I	V	K	A	V	I	E	N	F	P	N	R	R	R	V	K	R	V	F	S	I	P	K	E	E	K	M	E	A	C	C				
UniRef90_K4LD03	I	E	F	H	E	E	D	E	A	Y	A	T	A	K	E	I	V	K	A	V	I	E	N	F	P	N	R	R	R	V	K	R	V	F	S	I	P	K	E	E	K	M	E	A	C	C				
UniRef90_I0U942	I	E	F	H	E	E	D	E	A	Y	A	T	A	K	E	I	V	K	A	V	I	E	N	F	P	N	R	R	R	V	K	R	V	F	S	I	P	K	E	E	K	M	E	A	C	C				
UniRef90_Q24P11	I	E	F	H	E	E	D	E	A	Y	A	T	A	K	E	I	V	K	A	V	I	E	N	F	P	N	R	R	R	V	K	R	V	F	S	I	P	K	E	E	K	M	E	A	C	C				
UniRef90_B8FRP8	V	Q	F	A	L	E	E	K	A	V	E	S	A	R	K	E	I	L	E	L	A	V	E	G	A	Y	Q	R	R	D	P	P	K	V	H	I	P	Q	D	Y	K	R	A	K	L	V				
UniRef90_S7USS9	R	E	F	H	P	E	N	A	R	D	L	A	R	D	L	V	K	E	A	V	I	E	N	F	G	R	R	R	G	E	K	R	V	N	I	P	V	E	P	V	P	S	G	G	A	L	V			
UniRef90_D9QPS1	I	E	F	H	E	E	D	E	A	Y	A	T	A	K	E	I	V	K	A	V	I	E	N	F	P	N	R	R	R	V	K	R	V	F	S	I	P	K	E	E	K	M	E	A	C	C				
UniRef90_G7WVPV9	M	E	Y	H	E	E	D	E	A	Y	A	T	A	K	E	I	V	K	A	V	I	E	N	F	P	N	R	R	R	V	K	R	V	F	S	I	P	K	E	E	K	M	E	A	C	C				
UniRef90_C5A514	I	K	F	D	E	R	R	A	D	E	L	A	R	E	I	V	R	T	A	V	I	E	N	F	P	N	R	R	R	V	K	R	V	F	S	I	P	K	E	E	K	M	E	A	C	C				
UniRef90_F0S2K0	I	V	K	F	D	E	M	R	A	D	E	L	A	R	E	I	V	R	T	A	V	I	E	N	F	P	N	R	R	R	V	K	R	V	F	S	I	P	K	E	E	K	M	E	A	C	C			
UniRef90_Q8R9A8	I	V	K	F	D	E	M	R	A	D	E	L	A	R	E	I	V	R	T	A	V	I	E	N	F	P	N	R	R	R	V	K	R	V	F	S	I	P	K	E	E	K	M	E	A	C	C			
UniRef90_F4C0P9	M	E	F	H	E	E	D	E	A	Y	A	T	A	K	E	I	V	K	A	V	I	E	N	F	P	N	R	R	R	V	K	R	V	F	S	I	P	K	E	E	K	M	E	A	C	C				
UniRef90_C8W5H0	I	E	F	H	E	E	D	E	A	Y	A	T	A	K	E	I	V	K	A	V	I	E	N	F	P	N	R	R	R	V	K	R	V	F	S	I	P	K	E	E	K	M	E	A	C	C				
UniRef90_Q2FP99	I	E	F	H	E	E	D	E	A	Y	A	T	A	K	E	I	V	K	A	V	I	E	N	F	P	N	R	R	R	V	K	R	V	F	S	I	P	K	E	E	K	M	E	A	C	C				
UniRef90_B8GGE9	K	E	F	R	P	E	T	A	L	D	T	A	R	E	I	V	G	M	A	I	E	N	F	A	A	R	D	P	N	R	V	R	I	P	D	R	P	V	Q	M	C	C	C	C	C	C	C	C		
UniRef90_F6BAN0	I	E	F	H	E	E	D	E	A	Y	A	T	A	K	E	I	V	K	A	V	I	E	N	F	P	N	R	R	R	V	K	R	V	F	S	I	P	K	E	E	K	M	E	A	C	C	C			
UniRef90_K7S4Q3	M	E	F	H	E	E	D	E	A	Y	A	T	A	K	E	I	V	K	A	V	I	E	N	F	P	N	R	R	R	V	K	R	V	F	S	I	P	K	E	E	K	M	E	A	C	C	C			
UniRef90_A6TPR0	I	E	F	H	E	E	D	E	A	Y	A	T	A	K	E	I	V	K	A	V	I	E	N	F	P	N	R	R	R	V	K	R	V	F	S	I	P	K	E	E	K	M	E	A	C	C	C			
UniRef90_D8FFB8	R	E	F	H	P	E	N	A	R	D	L	A	R	D	L	V	K	E	A	V	I	E	N	F	G	R	R	R	G	E	K	R	V	N	I	P	V	E	P	V	P	S	G	G	A	L	V			
UniRef90_Q20XW5	M	E	F	H	E	E	D	E	A	Y	A	T	A	K	E	I	V	K	A	V	I	E	N	F	P	N	R	R	R	V	K	R	V	F	S	I	P	K	E	E	K	M	E	A	C	C	C			
UniRef90_Q3AE44	V	P	F	T	T	E	T	A	S	E	N	A	Q	K	I	V	V	R	M	A	I	E	N	F	Y	Q	K	R	N	D	P	A	K	V	Y	Q	I	P	N	I	T	Q	A	V	M	L	V			
UniRef90_D6STM8	V	P	F	D	M	H	N	A	S	H	Q	A	K	I	V	V	Q	T	A	V	I	E	N	F	E	G	F	S	P	E	R	N	E	S	D	E	S	G	I	P	N	E	K	E	D	M	L	V		
UniRef90_M1QA63	M	E	F	H	E	E	D	E	A	Y	A	T	A	K	E	I	V	K	A	V	I	E	N	F	P	N	R	R	R	V	K	R	V	F	S	I	P	K	E	E	K	M	E	A	C	C	C			
UniRef90_T4W5M2	I	E	F	H	E	E	D	E	A	Y	A	T	A	K	E	I	V	K	A	V	I	E	N	F	P	N	R	R	R	V	K	R	V	F	S	I	P	K	E	E	K	M	E	A	C	C	C			
UniRef90_P27989	I	D	Y	Q	T	A	T	A	L	E	S	A	K	T	G	I	V	R	M	A	I	E	N	F	A	F	K	E	R	K	D	P	V	Y	E	I	P	Q	Q	K	N	R	S	I	C	C	C			
UniRef90_UPI0003B379DD	F	N	F	H	P	E	N	A	R	E	S	A	R	K	I	V	R	M	A	I	E	N	F	E	D	A	F	P	K	R	D	K	S	K	V	H	I	P	G	G	V	V	A	E	A	C	C	C		
UniRef90_UPI0003B36CBD	I	Q	F	D	E	K	R	A	R	E	T	A	R	K	I	V	E	T	A	I	E	N	F	E	A	F	P	K	R	D	K	S	K	V	H	I	P	G	G	V	V	A	E	A	C	C	C			
UniRef90_E1RJM8	F	D	F	H	P	E	N	A	R	E	D	T	A	K	A	I	V	K	G	E	A	I	E	N	F	K	N	R	I	P	A	K	V	D	I	P	G	G	K	P	V	D	L	C	C	C				
UniRef90_UPI0003B548F4	V	E	F	H	Y	D	N	A	R	E	D	K	A	L	E	V	V	G	E	A	I	E	N	F	K	L	R	D	P	A	K	V	D	I	P	C	C	C	C	C	C	C	C	C	C	C				
UniRef90_K0NSJ7	M	E	L	H	P	E	T	A	F	D	T	A	N	K	I	L	K	L	A	I	E	N	F	P	N	R	N	D	Q	D	R	V	K	I	P	A	E	P	V	K	M	C	C	C	C	C				
UniRef90_D5X866	V	P	F	D	I	E	K	V	D	E	T	A	R	Q	I	V	V	R	M	A	I	E	N	F	E	A	Y	K	R	R	D	P	E	K	V	R	N	I	P	G	H	K	S	T	V	A	C	C	C	
UniRef90_B5E8C0	V	S	F	K	E	T	A	L	E	N	A	R	Q	I	V	E	T	A	I	E	N	F	E	A	Y	K	R	R	D	P	R	R	V	R	N	I	P	G	D	F	K	Q	T	V	A	C	C	C		
UniRef90_D5XEFO	V	P	F	N	V	E	T	A	M	E	D	A	K	E	I	V	R	M	A	I	E	N	F	A	N	F	K	N	R	D	Q	S	Q	V	H	I	P	N	V	K	Y	K	A	L	V	C	C	C		
UniRef90_F3Z1M0	V	P	F	T	P	E	N	A	R	D	K	A	R	E	I	V	R	M	A	I	E	N	F	E	A	F	K	N	R	D	Q	S	Q	V	H	I	P	N	V	K	Y	K	A	L	V	C	C	C		
UniRef90_Q3A8H2	I	L	D	F	E	E	H	D	A	N	A	L	A	R	R	I	V	Q	T	A	I	E	N	F	E	A	F	P	T	G	R	N	A	K	V	Y	I	P	S	Q	Q	E	T	E	E	A	C	C	C	
UniRef90_R4KE99	L	D	F	N	A	P	T	A	L	E	D	A	K	E	T	A	I	R	M	A	I	E	N	F	E	A	Y	K	L	R	D	A	N	K	V	S	I	P	S	V	T	N	K	V	I	C	C	C		
UniRef90_Q30WX4	F	D	I	H	P	H	N	A	L	E	Q	A	R	K	I	V	V	R	M	A	I	E	N	F	Q	A	Y	A	G	M	R	R	D	A	S	R	V	Q	I	P	G	G	E	P	V	N	D	I	C	C
UniRef90_M1NDP1	V	K	F	E	M	H	N	G	M	E	Q	A	R	K	I	V	V	R	M	A	I	E	N	F	Q	A	Y	A	G	M	R	R	D	A	S	R	V	Q	I	P	G	G	E	P	V	N	D	I	C	C
UniRef90_F2NIB0	I	P	M	D	E	H	H	A	L	E	I	A	R	Q	I	V	V	R	E	A	I	E	N	F	D	N	F	P	N	R	R	A	P	V	L	I	P	D	D	K	Y	P	T	Q	C	C	C			
UniRef90_UPI0003B3F9BD	I	E	F	D	E	H	Y	A	M	Q	D	A	R	E	I	V	K	M	A	I	E	N	F	D	N	F	Q	N	R	A	G	T	E	V	M	I	P	D	D	Q	K	A	T	Q	C	C	C			
UniRef90_C8X1V0	V	E	F	T	Y	T	N	A	L	E	Q	D	A	R	N																																			

QUERY	V	A	G	F	S	T	E	A	S	V	I	N	A	L	S	K	L	N	A	N	A	P	L	K	P	L	I	D	N	I	V	V	N	G	N	L	R	G	V	C	L	F				
UniRef90_H5SP18	I	A	G	F	F	T	S	E	A	V	I	N	A	L	S	K	L	N	A	N	A	P	L	K	P	L	I	D	N	I	V	V	N	G	N	L	R	G	V	C	L	F				
UniRef90_C8W085	M	A	G	F	F	S	V	E	A	I	L	S	A	L	G	G	G	R	Y	R	A	T	Y	R	P	L	L	N	A	I	K	S	D	G	R	L	K	G	A	V	G	I				
UniRef90_B7R5K0	I	A	G	F	F	S	V	E	A	I	V	S	A	L	G	G	G	L	R	A	Y	R	A	T	Y	R	P	L	L	N	A	I	K	S	D	G	R	L	K	G	A	V	G	I		
UniRef90_B1L4Y1	I	V	G	F	F	S	V	E	A	I	L	S	A	L	G	G	G	L	R	A	Y	R	A	T	Y	R	P	L	L	N	A	I	K	S	D	G	R	L	K	G	A	V	G	I		
UniRef90_Q8TKW2	M	V	G	F	F	S	A	E	A	I	L	K	A	L	G	G	S	P	A	P	L	L	E	A	L	K	S	G	G	A	I	K	A	G	G	A	K	G	L	A	G	V				
UniRef90_F2NBY6	L	V	G	F	F	S	T	E	A	I	L	K	A	L	G	G	S	L	E	Q	I	K	S	G	N	I	R	G	V	C	L	F														
UniRef90_E1YHP0	I	A	G	F	F	S	V	E	A	I	L	V	G	A	L	S	K	L	N	E	T	D	P	L	K	P	L	L	D	N	I	K	S	G	N	I	R	G	V	C	L	F				
UniRef90_B7R8Q7	V	G	G	F	F	S	V	E	A	I	L	K	A	L	G	G	G	T	W	T	L	L	E	A	I	K	S	K	K	Q	I	K	A	G	G	A	K	G	I	A	A	V				
UniRef90_K4LD03	V	A	G	F	F	S	V	E	A	I	V	L	K	A	L	G	G	S	L	N	P	D	P	L	K	P	L	L	D	H	I	A	A	G	N	I	R	G	V	C	L	F				
UniRef90_I0U942	I	A	G	F	F	S	V	E	A	I	A	G	A	L	G	S	K	L	D	P	V	Q	D	P	L	K	P	L	L	A	D	N	I	V	N	G	N	I	V	G	I	V	A	T		
UniRef90_Q24P11	I	A	G	F	F	S	V	E	A	I	A	G	A	L	G	S	K	L	D	P	V	Q	D	P	L	K	P	L	L	A	D	N	I	V	N	G	N	I	V	G	I	V	A	T		
UniRef90_B8FRP8	I	V	G	F	F	S	A	E	A	I	V	L	G	A	L	G	G	L	D	A	H	D	P	L	K	P	L	L	D	A	V	K	D	G	R	I	R	G	A	A	G	V				
UniRef90_S7USS9	L	G	G	F	F	S	V	E	A	I	L	G	A	L	G	G	G	T	P	D	P	L	L	D	A	V	K	D	G	R	I	R	G	A	A	G	V									
UniRef90_D9QPS1	V	V	G	F	F	S	V	E	A	I	L	G	A	L	G	G	G	S	L	D	P	L	L	E	A	I	K	E	G	Q	I	K	G	G	A	K	G	I	R	G	A	A	G	I		
UniRef90_G7WVPV9	M	V	G	F	F	S	A	E	A	I	L	G	A	L	G	G	G	T	P	D	P	L	L	D	A	V	K	D	G	R	I	R	G	A	A	G	V									
UniRef90_C5A514	Y	V	G	F	F	S	V	E	A	I	L	L	E	H	F	G	G	T	L	K	P	L	L	E	E	A	I	V	E	G	K	I	K	G	V	A	G	L								
UniRef90_F0S2K0	I	G	G	F	F	S	V	E	A	I	L	L	E	A	L	G	G	T	L	K	P	L	L	E	E	A	I	V	S	G	K	I	K	G	V	A	G	L								
UniRef90_Q8R9A8	V	A	G	F	F	S	V	E	A	I	V	S	A	L	G	S	K	L	N	A	E	D	P	L	K	P	L	L	I	D	A	I	A	A	G	N	I	R	G	V	C	L	F			
UniRef90_F4C0P9	M	A	G	F	F	S	V	E	A	I	V	S	A	L	G	G	S	L	D	P	L	L	E	A	I	K	S	G	S	I	R	G	I	G	A	V										
UniRef90_C8W5H0	V	A	G	F	F	S	L	E	A	I	L	D	V	F	A	S	V	N	P	E	N	P	L	K	P	L	L	I	D	A	I	V	A	S	G	E	I	R	G	V	A	A	V			
UniRef90_Q2FP99	M	A	G	F	F	S	E	E	A	I	R	K	A	L	G	G	G	T	Y	K	P	L	L	I	D	A	V	A	G	T	I	K	G	V	V	G	V									
UniRef90_B8GGE9	M	A	G	F	F	S	E	E	A	I	R	K	A	L	G	G	G	T	Y	K	P	L	L	I	D	A	V	A	G	T	I	K	G	V	V	G	V									
UniRef90_F6BAN0	I	V	G	F	F	S	V	E	A	I	L	S	A	L	G	G	G	S	L	D	A	L	D	A	I	K	S	G	K	I	K	G	A	V	A	I										
UniRef90_K7S4Q3	F	V	G	F	F	S	N	E	A	I	V	K	Q	L	D	R	V	D	P	Q	G	T	V	K	P	L	L	A	D	V	I	K	A	G	V	L	R	G	A	A	G	I				
UniRef90_A6TPR0	I	T	G	F	F	S	N	E	A	I	V	K	Q	L	D	R	V	D	P	Q	G	T	V	K	P	L	L	A	D	V	I	K	A	G	V	L	R	G	A	A	G	I				
UniRef90_D8FFB8	I	G	G	F	F	S	T	E	A	I	V	V	A	L	G	A	T	I	N	A	A	D	P	L	K	P	L	L	I	D	N	I	V	S	G	N	I	L	G	V	V	A	T			
UniRef90_Q20XW5	I	V	G	F	F	S	T	E	A	I	V	V	A	L	G	A	T	I	N	A	A	D	P	L	K	P	L	L	I	D	N	I	V	S	G	N	I	L	G	V	V	A	T			
UniRef90_Q3AE44	V	A	G	F	F	S	V	E	A	I	V	K	A	L	A	K	L	N	P	D	D	P	L	K	P	L	L	I	D	N	I	V	S	G	N	I	L	G	V	V	A	T				
UniRef90_D6STM8	I	T	G	F	F	S	N	E	A	I	L	L	E	A	L	G	G	T	P	G	G	T	P	G	P	L	L	E	A	I	K	A	G	K	I	R	G	A	A	A	T					
UniRef90_M1QA63	V	G	G	F	F	T	T	E	S	A	L	L	E	N	F	L	G	G	T	Y	R	P	L	L	I	D	A	I	D	G	R	L	R	G	A	A	G	I								
UniRef90_T4W5M2	T	V	I	G	F	F	S	T	E	A	I	L	S	Q	L	D	Q	I	D	E	P	G	T	I	K	P	L	L	V	D	C	L	K	S	G	V	L	R	G	A	V	G	I			
UniRef90_P27989	V	A	G	F	F	S	L	E	A	I	L	T	K	L	A	T	Q	N	A	Q	N	P	I	R	V	L	N	Q	A	I	V	L	D	G	E	L	A	G	V	A	L	I				
UniRef90_UPI0003B379DD	M	T	G	F	F	S	N	E	A	I	L	L	E	A	L	G	G	S	L	D	P	L	L	D	A	I	V	L	D	A	V	L	K	A	G	T	V	I	R	G	F	V	G	V		
UniRef90_UPI0003B36CBD	V	V	G	F	F	S	V	E	E	I	L	N	M	L	G	G	G	S	P	K	P	L	L	V	D	A	I	L	E	G	K	I	K	G	V	V	G	I								
UniRef90_E1RJM8	M	A	G	F	F	S	V	E	A	I	V	E	A	L	G	G	G	T	V	K	P	L	L	I	D	V	I	A	S	G	D	V	I	R	G	V	A	V	I							
UniRef90_UPI0003B548F4	T	T	G	F	F	S	N	E	A	I	L	G	A	L	G	G	G	T	P	A	P	L	L	I	E	A	I	K	D	G	K	I	R	G	V	A	G	I								
UniRef90_K0NSJ7	V	A	G	F	F	S	V	E	A	I	K	K	A	L	G	G	G	S	L	K	P	L	L	V	D	V	I	A	S	G	K	I	R	G	A	V	I									
UniRef90_D5X866	V	A	G	F	F	S	V	E	A	I	V	V	G	A	L	A	K	L	N	A	D	N	P	L	K	P	L	L	V	D	N	I	A	N	G	N	I	L	G	A	C	G	V			
UniRef90_B5E8C0	L	V	I	G	F	F	S	L	E	A	I	Y	D	L	F	A	T	I	N	P	E	R	P	V	K	V	L	T	D	A	I	L	S	G	Q	L	K	G	V	A	L	F				
UniRef90_D5XEF0	A	A	G	F	F	S	L	E	A	I	Y	D	L	F	A	T	I	N	P	E	R	P	V	K	V	L	T	D	A	I	L	S	G	Q	L	K	G	V	A	L	F					
UniRef90_F3Z1M0	M	T	G	F	F	S	N	E	A	I	V	L	E	A	L	G	G	T	P	Q	G	T	P	Q	P	L	L	I	D	A	I	K	V	G	S	V	I	R	G	V	V	G	I			
UniRef90_Q3A8H2	M	V	I	G	F	F	S	V	E	A	I	L	L	E	A	L	G	G	T	P	D	P	L	L	V	E	V	I	A	N	G	T	I	K	G	V	V	G	I							
UniRef90_R4KE99	V	A	G	F	F	S	L	E	A	I	L	L	D	I	F	A	S	V	N	P	D	N	P	I	Q	V	L	T	D	A	I	A	S	G	E	L	K	G	V	C	L	M				
UniRef90_Q30WX4	M	T	G	F	F	S	N	E	A	I	V	L	E	A	L	G	G	S	L	D	P	L	L	V	Q	A	I	A	A	G	D	I	R	G	A	V	V	G	I							
UniRef90_M1NDP1	M	T	G	F	F	S	N	E	A	I	V	L	E	A	L	G	G	S	L	T	P	L	L	I	D	A	I	K	A	G	K	I	R	G	V	V	G	I								
UniRef90_F2NIB0	V	V	I	G	F	F	S	Y	E	T	I	Q	Y	L	L	G	G	S	I	R	G	S	Y	T	L	N	D	N	I	I	G	G	R	V	I	R	G	V	A	G	V					
UniRef90_UPI0003B3F9BD	L	A	G	F	F	S	V	E	A	I	V	E	H	L	G	G	G	T	F	R	G	S	F	Y	T	L	N	D	N	I	I	N	G	R	I	R	G	V	A	G	L					
UniRef90_C8X1V0	T	T	G	F	F	S	N	E	A	I	L	E	A	L	G	G	G	T	P	D	P	L	L	D	A	L	K	N	G	S	V	I	R	G	V	V	G	I								
UniRef90_UPI000373BE17	V	A	G	F	F	S	V	E	A	I	L	A	A	L	A	K	L	N	A	A	D	P	L	K	P	L	L	D	N	I	V	S	G	N	I	Q	G	V	V	L	F					
UniRef90_S7V905	M	T	G	F	F	S	N	E	A	I	V	L	E	A	L	G	G	G	T	L	D	P	L	L	I	D	A	L	K	S	G	A	V	I	R	G	V	A	A	T						
UniRef90_E3PXW5	M	A	G	F	F	S	T	E	A	I	V	K	Q	L	D	H	V	D	K	T	G	T	V	K	P	L	L	A	D	C	I	V	S	G	V	L	R	G	A	V	I					
UniRef90_C6PVW5	V	V	I	G	F	F	S	T	E	E	I	L	N	K	L	D	G	V	V	P	M	Q	T	T	K	P	L	G	D	V	I	V	A	G	V	L	R	G	A	A	V					
UniRef90_E1YL48	L	A	G	F	F	S	V	E	S	I	L	K	H	L	D																															

QUERY	A	G	C	N	V	K	V	P	450	Q	D	N	F	T	T	L	A	R	K	E	L	L	K	N	N	V	L	V	V	A	T	S	G	G	C	G	A	G	A	L	M	R						
UniRef90_H5SP18	V	G	G	C	N	N	N	P	K	Y	K	H	H	Q	D	Q	W	G	H	I	E	L	L	K	N	N	V	L	V	V	A	T	S	G	G	C	G	A	G	A	L	M	R					
UniRef90_C8W085	V	G	G	C	N	N	N	P	K	Y	K	H	H	Q	D	Q	W	G	H	I	E	L	L	K	N	N	V	L	V	V	A	T	S	G	G	C	G	A	G	A	L	M	R					
UniRef90_B7R5K0	V	G	G	C	N	N	N	P	K	Y	K	H	H	Q	D	Q	W	G	H	I	E	L	L	K	N	N	V	L	V	V	A	T	S	G	G	C	G	A	G	A	L	M	R					
UniRef90_B1L4Y1	V	G	G	C	T	N	N	P	K	V	R	H	H	Y	S	S	H	V	V	A	I	A	K	E	L	L	K	N	N	V	L	V	V	G	T	G	G	C	C	A	A	M	S	K				
UniRef90_Q8TKW2	V	G	G	C	N	N	N	V	K	I	Q	H	H	Y	S	S	H	V	V	A	I	A	K	E	L	L	K	N	N	V	L	V	V	T	T	G	G	C	C	A	A	M	S	K				
UniRef90_F2NBY6	V	G	G	C	N	N	N	P	K	V	R	H	H	Y	S	S	H	V	V	A	I	A	K	E	L	L	K	N	N	V	L	V	V	T	T	G	G	C	C	A	A	M	S	K				
UniRef90_E1YHP0	A	G	G	C	N	N	N	V	K	V	A	Q	D	K	N	F	T	I	A	R	L	L	K	N	N	V	L	V	V	A	T	S	G	G	C	C	A	G	A	L	M	R						
UniRef90_B7R8Q7	V	G	G	C	N	N	N	P	K	V	I	T	Q	D	Y	R	G	H	L	N	M	T	K	E	L	L	K	N	N	V	L	V	V	E	T	G	G	C	C	A	A	M	S	K				
UniRef90_K4LD03	V	G	G	C	N	N	N	P	K	I	T	Q	D	Q	N	F	I	A	M	A	R	K	E	L	L	K	N	N	V	L	V	V	A	T	S	G	G	C	C	A	G	A	L	M	R			
UniRef90_I0U942	V	G	G	C	N	N	N	V	K	I	T	Q	D	Q	N	F	I	A	M	A	R	K	E	L	L	K	N	N	V	L	V	V	A	T	S	G	G	C	C	A	G	A	L	M	R			
UniRef90_Q24P11	V	G	G	C	N	N	N	V	K	I	T	Q	D	Q	N	F	I	A	M	A	R	K	E	L	L	K	N	N	V	L	V	V	A	T	S	G	G	C	C	A	G	A	L	M	R			
UniRef90_B8FRP8	A	G	G	C	N	N	S	T	N	T	L	Q	D	R	S	F	V	E	L	A	V	E	L	L	K	N	N	V	L	V	V	A	T	S	G	G	C	C	A	G	A	L	M	R				
UniRef90_S7USS9	V	G	G	C	N	N	N	P	K	I	K	H	D	Y	G	H	V	E	L	T	R	Q	L	L	K	N	N	V	L	V	V	D	T	G	G	C	C	A	A	M	S	K	A	M				
UniRef90_D9QPS1	V	G	G	C	N	N	N	P	K	V	Q	H	D	F	G	H	V	E	L	V	A	K	E	L	L	K	N	N	V	L	V	V	G	T	G	G	C	C	A	A	M	S	K	A	M			
UniRef90_G7WVPV9	V	G	G	C	N	N	N	P	K	V	Q	H	D	F	G	H	V	E	L	V	A	K	E	L	L	K	N	N	V	L	V	V	G	T	G	G	C	C	A	A	M	S	K	A	M			
UniRef90_C5A514	V	G	G	C	N	N	N	P	K	V	K	Q	D	H	N	H	I	K	L	A	N	E	L	L	K	N	N	V	L	V	V	G	T	G	G	C	C	A	A	M	S	K	A	M				
UniRef90_F0S2K0	V	G	G	C	N	N	N	A	K	V	I	Q	D	H	N	H	I	K	L	A	N	E	L	L	K	N	N	V	L	V	V	G	T	G	G	C	C	A	A	M	S	K	A	M				
UniRef90_Q8R9A8	A	G	G	C	N	N	N	V	K	I	P	Q	D	H	N	H	I	K	L	A	N	E	L	L	K	N	N	V	L	V	V	A	T	S	G	G	C	C	A	A	M	S	K	A	M			
UniRef90_F4C0P9	V	G	G	C	N	N	N	P	K	I	T	Q	D	Q	D	F	G	H	I	G	M	V	R	E	L	L	K	N	N	V	L	V	V	T	T	G	G	C	C	A	A	M	S	K	A	M		
UniRef90_C8W5H0	I	G	G	C	N	N	S	N	L	K	T	M	Q	D	E	A	H	I	E	L	V	A	K	E	L	L	K	N	N	V	L	V	V	F	S	G	G	C	C	A	A	M	S	K	A	M		
UniRef90_Q2FP99	V	G	G	C	N	N	N	P	R	I	K	Q	D	S	G	H	V	E	L	A	K	E	L	L	K	N	N	V	L	V	V	E	T	G	G	C	C	A	A	M	S	K	A	M				
UniRef90_B8GGE9	V	G	G	C	N	N	N	P	K	I	K	Q	D	S	G	H	V	E	L	A	K	E	L	L	K	N	N	V	L	V	V	E	T	G	G	C	C	A	A	M	S	K	A	M				
UniRef90_F6BAN0	V	G	G	C	N	N	N	P	K	V	K	H	D	Y	A	H	V	E	L	T	K	E	L	L	K	N	N	V	L	V	V	Q	T	G	G	C	C	A	A	M	S	K	A	M				
UniRef90_K7S4Q3	V	G	G	C	N	N	N	H	K	V	L	H	D	K	G	H	V	E	L	A	K	E	L	L	K	N	N	V	L	V	V	T	T	G	G	C	C	A	A	M	S	K	A	M				
UniRef90_A6TPR0	V	G	G	C	N	N	N	I	K	T	K	H	D	Y	S	H	I	E	L	M	K	K	L	L	K	N	N	V	L	V	V	T	T	G	G	C	C	A	A	M	S	K	A	M				
UniRef90_D8FFB8	V	G	G	C	N	N	N	P	K	I	K	Q	D	Y	S	H	V	E	L	T	A	R	S	L	L	K	N	N	V	L	V	V	D	T	G	G	C	C	A	A	M	S	K	A	M			
UniRef90_Q20XW5	A	G	G	C	N	N	N	T	K	I	Q	D	Y	S	A	Y	I	E	L	A	R	S	L	L	K	N	N	V	L	V	V	A	T	S	G	G	C	C	A	A	M	S	K	A	M			
UniRef90_Q3AE44	V	G	G	C	N	N	N	V	K	V	K	H	D	W	F	H	I	E	L	V	A	K	E	L	L	K	N	N	V	L	V	V	T	T	G	G	C	C	A	A	M	S	K	A	M			
UniRef90_D6STM8	V	G	G	C	N	N	N	P	K	Y	R	Q	D	Y	G	N	H	T	E	M	A	K	E	L	L	K	N	N	V	L	V	V	V	T	G	G	C	C	A	A	M	S	K	A	M			
UniRef90_M1QA63	V	G	G	C	N	N	N	P	E	T	C	H	D	Y	N	H	T	E	M	A	K	E	L	L	K	N	N	V	L	V	V	S	T	G	G	C	C	A	A	M	S	K	A	M				
UniRef90_T4W5M2	V	G	G	C	N	N	N	P	K	T	V	G	D	E	S	H	I	T	V	M	K	E	L	L	K	N	N	V	L	V	V	A	T	S	G	G	C	C	A	A	M	S	K	A	M			
UniRef90_P27989	C	G	G	C	N	N	N	L	K	G	F	G	D	D	S	H	L	V	M	K	E	L	L	K	N	N	V	L	V	V	A	T	S	G	G	C	C	A	A	M	S	K	A	M				
UniRef90_UPI0003B379DD	V	G	G	C	N	N	N	P	K	I	K	H	D	S	A	N	I	G	L	M	K	A	E	L	L	K	N	N	V	L	V	V	A	T	S	G	G	C	C	A	A	M	S	K	A	M		
UniRef90_UPI0003B36CBD	V	G	G	C	N	N	N	P	K	V	K	H	D	S	F	H	I	A	L	T	K	E	L	L	K	N	N	V	L	V	V	G	T	G	G	C	C	A	A	M	S	K	A	M				
UniRef90_E1RJM8	V	G	G	C	N	N	N	P	K	V	K	H	D	S	F	H	I	A	L	T	K	E	L	L	K	N	N	V	L	V	V	C	V	E	T	G	G	C	C	A	A	M	S	K	A	M		
UniRef90_UPI0003B548F4	V	G	G	C	N	N	N	P	K	V	K	H	D	S	F	H	I	A	L	T	K	E	L	L	K	N	N	V	L	V	V	A	T	S	G	G	C	C	A	A	M	S	K	A	M			
UniRef90_K0NSJ7	V	G	G	C	N	N	N	P	K	I	K	H	D	Y	G	H	V	E	L	A	K	E	L	L	K	N	N	V	L	V	V	E	T	G	G	C	C	A	A	M	S	K	A	M				
UniRef90_D5X866	V	G	G	C	N	N	N	A	K	V	V	Q	D	S	S	F	V	A	L	V	A	K	E	L	L	K	N	N	V	L	V	V	A	T	S	G	G	C	C	A	A	M	S	K	A	M		
UniRef90_B5E8C0	A	G	G	C	N	N	S	T	Q	V	V	Q	D	S	S	F	V	T	M	A	K	E	L	L	K	N	N	V	L	V	V	A	T	S	G	G	C	C	A	A	M	S	K	A	M			
UniRef90_D5XEFO	A	G	G	C	N	N	N	L	K	G	V	Q	D	E	N	H	T	G	I	L	E	L	L	K	N	N	V	L	V	V	F	V	I	S	T	G	G	C	C	A	A	M	S	K	A	M		
UniRef90_F3Z1M0	V	G	G	C	N	N	N	P	K	L	T	H	D	Y	C	H	L	S	L	A	K	E	L	L	K	N	N	V	L	V	V	V	T	G	G	C	C	A	A	M	S	K	A	M				
UniRef90_Q3A8H2	V	G	G	C	N	N	N	A	K	R	V	Q	D	F	F	H	L	S	L	T	R	E	L	L	K	N	N	V	L	V	V	G	T	G	G	C	C	A	A	M	S	K	A	M				
UniRef90_R4KE99	A	G	G	C	N	N	N	V	K	R	Q	D	D	S	H	I	S	T	I	A	K	E	L	L	K	N	N	V	L	V	V	F	V	I	G	T	G	G	C	C	A	A	M	S	K	A	M	
UniRef90_Q30WX4	V	G	G	C	N	N	N	P	K	F	Q	D	S	S	M	N	V	G	L	A	K	E	L	L	K	N	N	V	L	V	V	V	T	G	G	C	C	A	A	M	S	K	A	M				
UniRef90_M1NDP1	V	G	G	C	N	N	N	P	K	Y	K	H	D	Y	C	H	N	V	N	V	L	A	K	E	L	L	K	N	N	V	L	V	V	V	T	T	T	A	A	A	G	K	A	M	S	K	A	M
UniRef90_F2NIB0	V	G	G	C	N	N	N	C	R	T	P	H	D	S	A	H	L	A	M	T	K	E	L	L	K	N	N	V	L	V	V	V	T	G	G	C	C	A	A	M	S	K	A	M				
UniRef90_UPI0003B3F9BD	V	G	G	C	N	N	N	A	R	T	K	H	N	E	N	H	L	T	V	L	A	K	E	L	L	K	N	N	V	L	V	V	S	T	G	G	C	C	A	A	M	S	K	A	M			
UniRef90_C8X1V0	V	G	G	C	N	N	N	P	K	L	K	H	D	H	C	H	V	N	L	A	R	E	L	L	K	N	N	V	L	V	V	A	T	S	G	G	C	C	A	A	M	S	K	A	M			
UniRef90_UPI000373BE17	A	G	G	C	N	N	N	V	K	V	P	Q	D	H	N	Y	L	V	M	A	E	E	L	L	K	N	N	V	L	V	V	A	T	S	G	G	C	C	A	A	M	S	K	A	M			
UniRef90_S7V905	V	G	G	C	N	N	N	P	K	Q	Q	H	D	Y	S	H	V	T	L	A	R	E	L	L</																								

QUERY	G	S	C	V	D	N	S	R	A	V	A	L	V	A	A	L	A	N	R	E	L	G	V	D	F	L	S	D	R	L	P	V	V	A	S	A	A	P	E	A	M	H	E	K		
UniRef90_H5SP18	G	S	C	V	D	N	S	R	I	L	I	T	L	A	E	I	V	N	E	L	G	V	D	F	L	S	D	R	L	P	V	V	A	S	A	A	P	E	A	M	H	E	K			
UniRef90_C8W085	G	S	C	V	D	N	S	R	I	L	M	T	V	A	A	I	L	A	N	A	L	G	V	D	F	L	S	D	R	L	P	L	A	G	S	A	A	P	E	W	M	S	E	K		
UniRef90_B7R5K0	G	S	C	V	D	N	S	R	I	L	I	A	L	A	G	A	L	A	D	A	L	G	V	D	F	L	S	D	R	L	P	L	A	G	S	A	A	P	E	W	M	S	E	K		
UniRef90_B1L4Y1	G	S	C	V	D	N	S	R	M	L	I	A	L	A	A	L	A	D	H	L	G	V	D	F	L	S	D	R	L	P	A	A	G	S	A	A	P	E	W	Y	S	E	K			
UniRef90_Q8TKW2	G	S	C	V	D	N	S	R	I	L	V	L	V	A	S	A	V	A	N	S	A	L	G	V	D	F	L	S	D	R	L	P	A	A	G	A	A	P	E	W	M	S	E	K		
UniRef90_F2NBY6	G	S	C	V	D	N	S	R	I	L	L	T	V	C	A	S	A	V	A	S	A	L	G	V	D	F	L	S	D	R	L	P	V	V	A	S	A	A	P	E	A	V	S	E	K	
UniRef90_E1YHP0	G	S	C	V	D	N	S	R	A	V	L	A	L	A	V	A	V	A	N	Y	L	G	V	D	F	L	S	D	R	L	P	V	V	A	S	A	A	P	E	A	V	S	E	K		
UniRef90_B7R8Q7	G	S	C	V	D	N	S	R	I	L	V	M	A	A	A	A	A	K	E	A	L	L	G	V	D	F	L	S	D	R	L	P	I	A	G	A	A	P	E	W	M	S	E	K		
UniRef90_K4LD03	G	S	C	V	D	N	S	R	I	L	V	T	A	A	A	I	A	N	A	L	L	G	V	D	F	L	S	D	R	L	P	V	V	A	S	A	A	P	E	W	M	S	E	K		
UniRef90_I0U942	G	S	C	V	D	N	S	R	G	V	A	L	A	V	E	L	A	N	R	L	L	G	V	D	F	L	S	D	R	L	P	L	V	A	S	A	A	P	E	A	M	A	E	K		
UniRef90_Q24P11	G	S	C	V	D	N	S	R	I	G	D	L	V	T	A	L	A	N	Y	L	L	G	V	D	F	L	S	D	R	L	P	V	A	A	S	A	A	P	E	P	Q	H	E	K		
UniRef90_B8FRP8	G	S	C	V	D	N	S	R	A	V	S	V	A	V	A	I	A	Q	K	L	L	G	V	D	F	L	S	D	R	L	P	L	V	A	S	A	A	P	E	A	M	S	E	K		
UniRef90_S7USS9	G	S	C	V	D	N	S	R	I	L	L	L	A	S	A	L	A	D	S	L	L	G	V	D	F	L	S	D	R	L	P	V	V	A	S	A	A	P	E	W	Y	S	E	K		
UniRef90_D9QPS1	G	S	C	V	D	N	S	R	I	L	V	A	V	S	A	I	A	E	A	L	L	G	V	D	F	L	S	D	R	L	P	V	A	G	A	A	P	E	W	M	S	E	K			
UniRef90_G7WVP9	G	S	C	V	D	N	S	R	I	L	V	L	A	A	A	L	A	N	H	L	L	G	V	D	F	L	S	D	R	L	P	A	A	G	A	A	P	E	W	M	S	E	K			
UniRef90_C5A514	G	S	C	V	D	N	S	R	I	L	V	L	A	D	L	V	A	R	D	L	L	N	G	V	D	F	L	S	D	R	L	P	V	V	G	S	A	P	E	A	M	T	E	K		
UniRef90_F0S2K0	G	S	C	V	D	N	S	R	M	L	V	L	A	D	L	M	A	R	D	L	L	G	V	D	F	L	S	D	R	L	P	L	A	G	S	A	A	P	E	A	M	T	E	K		
UniRef90_Q8R9A8	G	S	C	V	D	N	S	R	A	V	A	L	A	V	A	V	A	D	R	L	L	G	V	D	F	L	S	D	R	L	P	V	V	A	S	A	A	P	E	A	V	A	E	K		
UniRef90_F4C0P9	G	S	C	V	D	N	S	R	I	L	V	A	A	A	L	A	N	A	L	L	L	G	V	D	F	L	S	D	R	L	P	A	A	G	A	A	P	E	W	M	S	E	K			
UniRef90_C8W5H0	G	S	C	V	D	N	S	R	M	A	E	M	V	C	R	M	A	D	D	L	L	G	V	D	F	L	S	D	R	L	P	F	F	I	G	A	A	P	E	A	M	S	G	K		
UniRef90_Q2FP99	G	S	C	V	D	N	S	R	I	L	V	L	A	A	N	I	A	K	E	L	L	G	V	D	F	L	S	D	R	L	P	I	G	G	A	A	P	E	W	Y	S	S	Q	K		
UniRef90_B8GGE9	G	S	C	V	D	N	S	R	I	L	V	L	M	A	S	H	V	A	D	E	L	L	G	V	D	F	L	S	D	R	L	P	I	G	G	A	A	P	E	W	Y	S	S	Q	K	
UniRef90_F6BAN0	G	S	C	V	D	N	S	R	I	L	V	L	L	G	A	L	A	E	A	L	L	L	G	V	D	F	L	S	D	R	L	P	V	A	G	A	A	P	E	W	M	S	E	K		
UniRef90_K7S4Q3	G	S	C	V	D	N	S	R	I	L	L	L	L	S	E	L	A	K	F	M	N	V	D	F	L	S	D	R	L	P	A	A	G	A	A	P	E	W	M	S	E	K				
UniRef90_A6TPR0	G	S	C	V	D	N	S	R	I	L	R	L	V	S	A	V	S	E	H	L	L	G	V	D	F	L	S	D	R	L	P	V	V	G	V	A	P	E	W	M	S	E	K			
UniRef90_D8FFB8	G	S	C	V	D	N	S	R	I	L	V	L	V	S	A	L	A	D	A	L	L	L	G	V	D	F	L	S	D	R	L	P	V	V	A	S	A	P	E	W	Y	S	E	K		
UniRef90_Q20XW5	G	S	C	V	D	N	S	R	A	V	A	L	A	T	A	L	A	N	K	L	L	L	G	V	D	F	L	S	D	R	L	P	V	V	A	S	A	P	E	A	M	T	E	K		
UniRef90_Q3AE44	G	S	C	V	D	N	S	R	I	G	D	L	V	I	A	V	A	N	Y	L	K	V	S	P	K	S	D	R	L	P	I	A	A	S	A	P	E	Y	Q	H	E	K				
UniRef90_D6STM8	G	S	C	V	D	N	S	R	I	L	Q	L	A	G	L	L	A	N	E	L	L	L	G	V	D	F	L	S	D	R	L	P	L	A	G	S	A	P	E	W	Y	S	E	K		
UniRef90_M1QA63	G	S	C	V	D	N	S	R	I	L	T	L	L	T	N	V	E	E	L	L	L	L	G	V	D	F	L	S	D	R	L	P	V	A	G	A	A	P	E	W	M	S	E	K		
UniRef90_T4W5M2	G	S	C	V	D	N	S	R	I	L	E	V	V	A	A	C	A	S	Y	L	D	L	D	M	N	D	L	P	V	V	A	G	V	A	P	E	W	M	S	E	K					
UniRef90_P27989	G	S	C	V	D	N	S	R	A	V	D	L	L	M	A	M	A	N	D	L	L	L	G	V	D	F	L	S	D	R	L	P	F	V	A	S	A	P	E	A	M	S	G	K		
UniRef90_UPI0003B379DD	G	S	C	V	D	N	S	R	I	L	Q	L	C	A	L	I	A	N	A	L	L	L	G	V	D	F	L	S	D	R	L	P	V	V	A	S	A	P	E	W	Y	S	E	K		
UniRef90_UPI0003B36CBD	G	S	C	V	D	N	S	R	M	L	V	L	A	G	A	L	A	D	Y	L	K	V	D	I	S	D	R	L	P	L	V	G	S	A	P	E	W	M	T	E	K					
UniRef90_E1RJM8	G	S	C	V	D	N	S	R	I	L	V	L	L	A	E	L	A	K	A	L	L	L	G	V	D	F	L	S	D	R	L	P	V	A	G	A	A	P	E	W	Y	S	Q	K		
UniRef90_UPI0003B548F4	G	S	C	V	D	N	S	R	I	L	H	I	C	G	V	L	A	N	A	L	L	L	G	V	D	F	L	S	D	R	L	P	V	V	A	S	A	P	E	W	Y	S	E	K		
UniRef90_K0NSJ7	G	S	C	V	D	N	S	R	I	L	V	L	A	A	E	L	A	N	I	L	L	L	G	V	D	F	L	S	D	R	L	P	L	A	G	A	A	P	E	W	Y	S	Q	K		
UniRef90_D5X866	G	S	C	V	D	N	S	R	I	G	D	L	K	A	L	A	A	Y	L	L	N	V	A	V	K	D	L	P	V	V	A	S	A	P	E	Y	Q	H	E	K						
UniRef90_B5E8C0	G	S	C	V	D	N	S	R	A	V	E	V	A	V	A	V	A	N	R	L	L	L	G	V	D	F	L	S	D	R	L	P	L	V	A	S	A	P	E	A	M	S	E	K		
UniRef90_D5XEF0	G	S	C	V	D	N	S	R	A	S	D	L	L	M	D	M	A	N	E	L	L	L	G	V	D	F	L	S	D	R	L	P	F	V	A	S	A	P	E	A	M	S	G	K		
UniRef90_F3Z1M0	G	S	C	V	D	N	S	R	I	L	H	L	C	A	L	A	N	A	L	L	L	L	G	V	D	F	L	S	D	R	L	P	V	V	A	S	A	P	E	W	Y	S	E	K		
UniRef90_Q3A8H2	G	S	C	V	D	N	S	R	M	L	V	L	T	G	A	L	A	D	H	L	L	L	G	V	D	F	L	S	D	R	L	P	V	V	V	G	S	A	P	E	W	T	T	E	K	
UniRef90_R4KE99	G	S	C	V	D	N	S	R	C	S	D	L	L	M	A	M	A	N	E	M	G	V	D	F	L	S	D	R	L	P	F	V	A	T	A	P	E	A	M	S	G	K				
UniRef90_Q30WX4	G	S	C	V	D	N	S	R	I	L	Q	L	C	A	A	L	A	N	A	L	L	L	L	G	V	D	F	L	S	D	R	L	P	V	V	A	S	A	P	E	W	Y	S	E	K	
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QUERY	A	V	A	I	G	T	W	A	V	T	L	G	L	P	T	H	L	G	V	L	P	P	L	T	G	S	L	P	V	T	Q	L	T	S	S	V	K	D	L						
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A G L S C C R A R C T M G P C C R I I T P P H R P I R G V I C G A D A D D T I V A R N L L L
T G L C C C C R K N C F M Q G P C C R I L N A R D P Y K K V G V I C G A A D Y T I V A R N T V A
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D Y E N I M L Q A S R C C G L A D G W G S S M L T E L T D I M F G T P V P R R A V
D W K N I M K E F L R C C G L T F L G Y S G V V A P A A T D S L F G G P I R K T S K
D W R N C M H Q F L R T G V S F A W S S C L G S S A M D S L Y G L P Q R S T S K
D W Q S V M K Q F L R C G L A F C Y T G V V A N I A T D A L F G V G H R A T S K
D Y V S L A K K A M R L G L A T I Y T A Q I G L E M Q D I L L F G T P K P H E V Q
D Y V S L A I K G L R L G L S T T I Y T A Q I G L E M Q D I L L F G T P M P H E V N
D W K S I M Q Q F L R C C G L A F T F S G V V A N I A T D A L F G N G D R V T S K
U N I R E F 9 0 C 9 K Q 3 7 D W E S I M Q E F L R C C G L A F C Y T G V V A N I A T D V L F G V G H R A T S K
D W K S V M Q Q F L R C C G L A F T F S G V V S T A A T D G L F G V G D R V T S K
U N I R E F 9 0 C 2 K W 9 8 D W K S I M Q Q F L R C C G L A F T F T G V L A S I A T D D C L F G V G D R V T S K
U N I R E F 9 0 U P I 0 0 0 2 5 5 5 D 3 7 D W K S I M Q Q F L R C C G L A F T F T G V L A S I A T D D C L F G V G D R V T S K
U N I R E F 9 0 T 0 N 3 G 5 S H V S L A M K A L R L G I A T I Y N T Q I G L E M Q D I L L F G T P H E V N
U N I R E F 9 0 D 6 S M 9 2 D P D N L L L N A V K V A L A D W A G S M I S T D S D V L F G T P H P M R G K
U N I R E F 9 0 C 8 P H 1 3 D W R S V L K H L R C C G L A F T F T G V V A N I A T D A L F G V G D R V T S K
U N I R E F 9 0 U P I 0 0 0 3 B 7 5 3 7 3 D Y R S L M Q A S V R C A L A D W G G S M I A T E L Q D I L L F G T P Q P I R A T
U N I R E F 9 0 W 0 E 9 P 2 N Y A S L A I K A L R L G L A T I Y N S Q I G L E M Q D I L L F G T P Q P H E V D
U N I R E F 9 0 A 7 Z F B 3 D W R N V M K Q F F R T G L A Y A W S S T L G T S A M D C L F G L P K L N D S K
U N I R E F 9 0 M 1 P T L 5 E Y K N I M K Q A A R C S L A D G W G A S M L T E L T D I M F G L P V P R R A L
U N I R E F 9 0 U P I 0 0 0 1 E 2 D 8 8 A D Y V S L A I K A L R L G L A T I Y N S Q I G L E M Q D I I F G T P S P H E V N
U N I R E F 9 0 U P I 0 0 0 3 7 0 B E 3 1 D F V S M A K K A L R L G I A T I Y G S Q L G L E M Q D I L L F G T P S P H E V R
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U N I R E F 9 0 D 5 X 9 8 5 D F L S M A R K A Q L R T G L A T I Y G A Q I G L E M Q D I L L F G T P M P H E V E
U N I R E F 9 0 B 1 I 3 1 7 E A L H L L H Q G T R T A L A D W G G S V I A T A V R D V L F G T P R P V R S R
U N I R E F 9 0 D 3 S 1 M 2 N Y V S L A K K A M R M S S T I L L A Q L S L E I Q D V L F G T P T P H E A Y
U N I R E F 9 0 U P I 0 0 0 3 B 6 1 7 6 F D Y I L S L A L A A R N S G V A S L L F G A L V P L E L M D A L Y G T P M P H E G E
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U N I R E F 9 0 Q 8 T X X 3 D P V D M L L H V L R L G I S T L Y G V L F G V E I N D I L F G S P K I T Q T E
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V E L M V V D V V Q Q D D V F F P P A L G S P L S E G C C C C F H T K F I T T S S E I A R I P P G S A T Y
I E A T V I D G E V V V P N I V Q I A N Q C C C C F H T T I T T T S N P Q S L I E G S A I Y
I E M M C V D V V Q Q D D V F F P P S L G P L A E Q C C C C F H T K F V T T S S P V I A R I L P P G S A T Y
V D M M C V D V V Q Q D D V F F P P A L Q Q L A E Q C C C C F H T K F V T T S S P V I A R I L P P G S A T Y
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D M N T L L N T L V L A T T G G T N G V N V M A L L L D Q A N T T A Y G N P P E I T S
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V D D D L V A L T L L E T T G G K Y G V S G M A L L L D R A N T T G T Y G N P P E I T E V Q
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D I D D L V Q L T L L K T T G E I G V Q A M A L L L D E A N T T S K Y G H P P E I T K
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D L Q D L T K Y I L L K T T G E I S V K V M E L L L D K A N T T E K Y S S P S P E K V N
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S V D E L V A L A L L E T T G K Y G V Q V M A L L L D A A N T T G R F G N P P E I T T Q
T V N D L V A L T L L E T T G K Y G V D G M A L L L D K A N T E A Y G H P P E I T A V
P A G E W V K M V L L Q T T G E Y G V K T M A L L L D K A N T T E R Y G N P P E I M T K
P A V N L L D L V M K T T G K F G V K T M A L L L D T A N T T S R Y G Q P P E I M T R
D A E E L T A L T L L E T T G K F G V A A M A L L L D E A N T T S K Y G N P P E I T T K
G M E E L L P V V I E T T G K I N L R C M E L L L D K A N T E S Y G D P I P T E V P
D T M D L T A L V L L E T T G K W G V A G M A L L L D T A N T T E S Y G N P P E I T T K V
G A D D L V A L T L L E T T G Q F G V T A M A L L L D E A N T T S K Y G N P P E I T T S
S Q E E L L P L V L L K T T G E I N L K C M A L L L D K A N T T E T F G N P P P T K V T
E T T D L I N L V M E T T G H G V K A M A L L L D K A N T T A Y G N P P E I T T E V D
D V D D Y I A L S L L E T T G K Y G V K G M E L L L D K A N T T A Y G N P P E I T T V D
D M D T L L S L V L L E T T G K Y G V D A M A L L L D K A N T T G A Y G N P P E I L T T K
D E W V A Q V M Q A G E M G V K V M A L L L D E A N T T S R Y G N P P E I T T K
T V E E L I A L V L L E T T G K F G V Q T M A L L L D K A N T E S Y G N P P E I M T T
D A D D L V A L T L L K T T G E V G V K G M A L L L D T A N T T S T Y G N P P E I T T K
D V E E L T G L V L L E T T G K Y G V Q V M A L L L D K A N T T S S Y G N P P E I T T K
D A S D L V A L V L L E A G K Y G V D V M A L L L D K A N T T S Y G N P P E I L S K
D W E E L L P I V L L E T T G E V N L R C M E L L L D R A N T T E T F G T P I P T T V P
N S D E L V S L V L L Q T T G R N G V S V M A L L L D K A N T T E T Y G N P P E I T E
S A D E L L A C V M E T T G R F G V D A M A L L L D A A N T T G A Y G N P P E I L T K
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D V D Q L T S L V L L E T T G R Y G V S A M A Q L L D A A N T T E T Y G N P P E I T S E
D V D D L V A L T M E T T G K Y G V D V M A L L L D Q A N T E S Y G N P P E I T T E
D V D D L V G I A L L E A G K Y G V D G M A L L L D S A N T T K T Y G H P P E I T T V D
D T E E L T A L V L L E C G K L G V A V M A L L L D R A N T T S T Y G N P P E I T T K
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D A D E L T A F V L L E T T G K Y G V D V M A L L L D E A N T T S Y G H P P E M T E V Q
G M D K L L P I V L L E V G K V N L R C M E L L L D Q A N T T T Y G T P P P T T V P
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D L D E L I A L T L L E T T G K V G V D G M A L L L D Q A N T E T Y G N P P E I T T K
D Y D R L L P L V L L K T T G E V N F K C M K L L L D Q A N T T E S Y G T P P P T T V P
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E P I

E P V

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UniRef90_UPI00036739FF G G Q Q C N D S Y S L A V I A L K L K E E A F F G G L D D V I N N D K L P P I S Y N I A W Y E E Q Q K

UniRef90_H1PKY6 G G Q Q C N D S Y S L A L I A L K L K E V F F G G L D D I N N D K L P P I V Y N I A W Y E E Q Q K

UniRef90_UPI0004791E4A G G Q Q C N D S Y S L A V I A L K L K E E V F F G L D D I N N D K L P P I A F N I A W Y E E Q Q K

UniRef90_R6J902 G G Q Q C N D S Y S L A L I A L K L K E E V F F G L D D I N N D L P P I V Y N I A W Y E E Q Q K

UniRef90_U6RI46 G G Q Q C N D S Y S V V L I A L K L K E E V F F G L D D I N N D L P P I A Y N I A W Y E E Q Q K

UniRef90_E6MEI8 G G Q Q C N D S Y S L A L I A L K L K E E V F F N L D D I N N D L P P I A Y N I A W Y E E Q Q K

UniRef90_Q8RFL1 G G Q Q C N D S Y S W A V V A L K L K E E V F F G G E D I N N D L P P I V F N I A W Y E E Q Q K

UniRef90_UPI0004769197 G G Q Q C N D S Y S L A V I A L K L K E I V F G G E N V I N N D L P P I V Y N I A W Y E E Q Q K

UniRef90_N9XDL1 G G Q Q C N D S Y S L A V I A L K L K E E V F F G G E D I N N D L P P I I Y N I A W Y E E Q Q K

UniRef90_J5H1T4 G G Q Q C N D S Y S L A V I A L K L K E E V F F G G L D D I N N D L P P L E F N I A W Y E E Q Q K

UniRef90_R5J6Y9 G G Q Q C N D S Y S L A V I A M K L Q E E V F F G G L D D I N N D L P P L V Y N I A W Y E E Q Q K

UniRef90_L0K5X5 G G Q Q C N D S Y S L A V I A M K L Q E E V F F E L D D I N N E L P P I S Y N I A W Y E E Q Q K

UniRef90_F7YTX5 G G Q Q C N D S Y S L A L I A L K L K E E I F F N K D I N N E L P P I V Y N I A W Y E E Q Q K

UniRef90_R6PM21 G G Q Q C N D A Y S A I K V A L A L A E A F D D C G G V I N N E L P P L S L V L L S W Y E E Q Q K

UniRef90_R7FA71 G G Q Q C N D A Y S A I Q V A L A L A E A F D D C G G V I N N E L P P L S M V L L S W Y E E Q Q K

UniRef90_I4DBZ4 G G Q Q C N D S Y S L A V I A L K L K E E V F F G G E D I N N D L P P I S Y N I A W Y E E Q Q K

UniRef90_UPI0003622C69 G G Q Q C N D S Y S L V V I A L K L K E E V F F G G E D I N N D L P P I S Y N I A W Y E E Q Q K

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UniRef90_R5YN72 G G Q Q C N D A Y S G A L K V A I A L A Q E A F F E C C E D I N N D L P P L S M I L L S W Y E E Q Q K

UniRef90_R5XD54 G G Q Q C N D S Y S L A L I A L K L K E E V F F E E D I N N D L P P I A F N I A W Y E E Q Q K

UniRef90_R6HJ56 G G Q Q C N D S Y S L A L I A L K L K E E V F F G G H D I N N E L P P I V Y N I A W Y E E Q Q K

UniRef90_UPI0003616CC2 G G Q Q C N D S Y S L L A L I A L K L K E E V F F G G L D D V I N N E L P P I A Y N I A W Y E E Q Q K

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UniRef90_UPI0003B6DD3E G G Q Q C N D S Y S L A V I A L K L K E E V F F G L D D I N N E L P P I A Y N I A W Y E E Q Q K

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UniRef90_R6GJH3 G G Q Q C N D A Y S G A I K V A V A L A Q A F D D C G G V I N N E L P P L S M V L L S W Y E E Q Q K

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UniRef90_UPI0002891395 G G Q Q C N D S Y S L A L I A L K L K E E V F F E L D D I N N D L P P I Y N I A W Y E E Q Q K

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UniRef90_S0FQQ8 G G Q Q C N D A Y S A I Q V A S A L A G A F F E C C C I N N E L P P L S L V L L S W Y E E Q Q K

UniRef90_R5YBQ9 G G Q Q C N D A Y S A I K V A T A L A E A F D D C G G V I N N E L P P L S M I L L S W Y E E Q Q K

UniRef90_F5J3A2 G G Q Q C N D S Y S L A V I A L K L K E E V F F G G E D I N N D L P P I A F N I A W Y E E Q Q K

UniRef90_D1Y762 G G Q Q C N D S Y S L A L I A L K L K E I V F G G L D D I N N D L P P I A F N I A W Y E E Q Q K

UniRef90_R5MES2 G G Q Q C N D S Y S L A V I A M K L K E E V F F E L D D I N N E L P P I V Y N I A W Y E E Q Q K

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UniRef90_E3HAB0 G G Q Q C N D S Y S L A L I A L K L K E E V F F E L D D V I N N E L P P I A Y N I A W Y E E Q Q K

UniRef90_R6LPZ0 G G Q Q C N D A Y S A I K V A I A L A E A F F G C E V I N N E L P P L S M I L L S W Y E E Q Q K

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UniRef90_V8CPX6 G G Q Q C N D S Y S W A V V A L K L K E E V F F G G N D I N N D L P P I F F N I A W Y E E Q Q K

UniRef90_R6C7F7 G G Q Q C N D S Y S L A V I A L K L K E E V F F G L D D I N N D L P P I T Y N I A W Y E E Q Q K

UniRef90_UPI000374B29D G G Q Q C N D S Y S L A V I A M K L Q E E A F G G L D D I N N D L P P I V Y N I A W Y E E Q Q K

UniRef90_A8MJ15 G G Q Q C N D S Y S L A L I A L K L K E E V F F Q L D D I N N E L P P I S Y N I A W Y E E Q Q K

UniRef90_UPI00035EB186 G G Q Q C N D S Y S L V K I A L A L K E A F F G L D L N N E L P P I A Y N I A W Y E E Q Q K

UniRef90_G2FTT1 G G Q Q C N D S Y S L A V I A L K L K E E V F F G E D I N N E L P P I S Y N I A W Y E E Q Q K

UniRef90_G5F733 G G Q Q C N D A Y S A I R V A S A L A E A F F G C S V I N N D L P P L T L V L L S W Y E E Q Q K

UniRef90_UPI0004689B3B G G Q Q C N D S Y S L A V I A L E L K K A F F G G L D I N N K L P P I V F N I A W Y E E Q Q K

UniRef90_G1WBL6 G G Q Q C N D S Y S W A V V A L K L K E I V F G G N D I N N D L P P I A F N I A W Y E E Q Q K

UniRef90_UPI000255C033 G G Q Q C N D S Y S L A L I A L K L K Q I F F Q Q L D I N N D L P P I T F N L A W Y E E Q Q K

UniRef90_R5JEV7 G G Q Q C N D S Y S L A V I A M K L K E E V F F G K D I N N D L P P I I Y N I A W Y E E Q Q K

UniRef90_UPI0004704E8B G G Q Q C N D S Y S L A V I A L K L K E E V F F E L D D I N N E L P P I A Y N I A W Y E E Q Q K

UniRef90_UPI000288E5E6 G G Q Q C N D S Y S L V V I A L K L A E V F F G V E V I N N D L P P I S Y N I A W Y E E Q Q K

UniRef90_UPI000364E80 G G Q Q C N D S Y S L V V I A L K L K E E V F F G E D V I N N D L P P I S Y N I A W Y E E Q Q K

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UniRef90_R6RM92 G G Q Q C N D A Y S A I K V A V A L S E A F F Q C C S V I N N E L P P L S M V L L S W Y E E Q Q K

UniRef90_Q0AUX3 G G Q Q C N D A Y S A I R V A V A L A E A F F D C C G I N N E L P P L T M V L L S W Y E E Q Q K

UniRef90_G6AGA4 G G Q Q C N D S Y S L A V V A L K L K E E I F G N D I N N D L P P I E F N I A W Y E E Q Q K

UniRef90_D9R510 G G Q Q C N D A F S A I K V A V A L A E A F F D C C S V I N N E L P P L S M V L L S W Y E E Q Q K

UniRef90_D5UAG3 G G Q Q C N D S Y S L A V I A L G L K D L F F E L D D I N N D L P P I V Y N I A W Y E E Q Q K

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UniRef90_R5ZIF0 G G Q Q C N D A Y S A I K V A T A L A E A F F E C D V I N N E L P P L S M V L L S W Y E E Q Q K

UniRef90_R5RF96 G G Q Q C N D S Y S L A M I A L K L K E E V F F A E E D I N N E L P P V I Y N I A W Y E E Q Q K

UniRef90_R6FQ06 G G Q Q C N D S Y S L A L I A L K L K E I F E E D I N N D L P P I A F N I A W Y E E Q Q K

UniRef90_J0MV56 G G Q Q C N D A Y S A I Q V A L A L A D A F F E C C S V I N N D L P P L S L V L L S W Y E E Q Q K

UniRef90_U2K530 G G Q Q C N D A Y S A I Q V A V A L A E A F F G C C G V I N N E L P P L S Y V L L S W Y E E Q Q K

UniRef90_U2CG32 G G Q Q C N D S Y S L A V I A V A L K E E V F F G E N V I N N E L P P I S Y N I A W Y E E Q Q K

UniRef90_U2REG2 G G Q Q C N D S Y S W A V V A L K L K E E V F F N N D I N N D L P P I E F N I A W Y E E Q Q K

UniRef90_R5Q1J5 G G Q Q C N D S Y S L A V I A L K L K E E V F F G L D D I N N S L P P I V Y N I A W Y E E Q Q K

UniRef90_UPI000361162C G G Q Q C N D S Y S L A L I A L K L K E E V F F G L D D I N N D L P P I I Y N I A W Y E E Q Q K

UniRef90_UPI000479DF26 G G Q Q C N D S Y S L A V T A L K L K E A F F G E D I N N E L P P I V Y N I A W Y E E Q Q K

UniRef90_UPI00036B94AA A V I V L L A L L Y L G V K I H L G P T L L P A F F L L S S N V A K V L V I E E N F F G G
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R E L L G

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UniRef90_U5Q9H3 E T A R N Q G C C T V Q G V C C G K T A D V A N L Q D L L
UniRef90_F0RUZ8 E A A R N F G C C T Q V G V C C G K Q P A T S N L M D L M
UniRef90_R9M0M1 Q T A G C K G C C T G N S G V C C G K Q A R G V A E M Q D L L
UniRef90_B9MRG9 Q T A G G K G C C T K V G V C C G K D S R V A T L Q D L L
UniRef90_A9KP36 E T A G N K G C C T L N G V C C G K T A A L A N L Q D L L
UniRef90_I5AXB9 Q T A G C K G C C T G A A G V C C G K T A D V A L L Q D L L
UniRef90_R7H5Y7 Q T A H N T G C C E G K V G V C C G K K A A T A N Y Q D E L
UniRef90_R7R8Z2 Q T A G C A G C C T G S I G V C C G K T A D V A Q L Q D E L
UniRef90_A6LCQ4 E T A Q G C K G C C T L K G V C C G K T A E V A G L Q D L L
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UniRef90_F7KIC5 Q T A G C I G C C T G N A G V C C G K T A N T A K L Q D E L
UniRef90_S2KXS5 E T M K G T G C C T I A G V C C G K N P A T A S L Q D L L
UniRef90_F0GV78 E T A K N E G C C T V R G V C C G K N E D T A N V Q D L L
UniRef90_W1UCF5 Q T A G G C K G C C T K L G V C C G K T P E I S N L Q D L L
UniRef90_R6QZT5 Q T A G C S G C C T G A A G V C C G K D A E T S E L Q D R L
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UniRef90_R7DGS1 E T A R G T G C C T V K G V C C G K D P Q T A A Y M D V L L
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	250	260	270	280
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UniRef90_G4Q8I9	V D L G	G T R S N N P G	L I S G H D	L K D L K E M L L D D F Q Q T
UniRef90_G8QSP1	L G V G	G S R N N P G	L I S G H D	L R D L K M L L L E F Q Q T
UniRef90_J5W1G6	V N I I	G V G S R N P G	L I S G H D	L N D L I K Q L L E F Q Q S
UniRef90_U2LKG4	N I	G V R K N P G	L I S G H D	M K D M E M L L E F Q Q T
UniRef90_R5BWP0	P L	K V E K G P F	V I S G H D	L R D L K L L L L E F Q Q T
UniRef90_UPI000468B949	V N I I	G V G K N P G	L I S G H D	L K D L K E D L L Q Q Q Q T
UniRef90_A5N008	V N N I	G V K K N P F	I V S G H D	L R D L K E M L L K Q Q Q T
UniRef90_U2BUP2	V N N I	G V R N N P G	L I S G H D	L K D L L E E L L E F Q Q Q T
UniRef90_W0JF32	V S I G	T R N R R P G	L I S G H D	L K D M E E L L E F Q Q Q T
UniRef90_R9LJB7	V N L G	V R N R P G	L I S G H D	L K D L L E L L E F Q Q Q T
UniRef90_UPI0003A0CEA9	I G A G	T R P G	L I S G H D	L K D L E E L L L Q T
UniRef90_H1CYT6	V D I I	G V R S N P G	L I S G H D	L Y D L K Q L L L E Q Q S
UniRef90_UPI0003B5A059	P L	K V E K P P A	V I S G H D	L K D L K M L L L E F Q Q T
UniRef90_D9R549	V N N I	G V R K N P A	I V S G H D	L Y D L K K L L E F Q Q T
UniRef90_R9BUJ4	V N N I	K K G N P P A	I V S G H D	L R D L E M L L L E F Q Q T
UniRef90_F8EWN7	L G V R	R N N P P A	L I S G H D	L K D L E E L L L E F Q Q T
UniRef90_U7D7Q1	V N N I	G V R N N P A	L I S G H D	L K D L M E R L L L E F Q Q T
UniRef90_M1MEP4	V N N I	K K G P F F I	V S G H D	L K D L E M L L L Q Q Q T
UniRef90_R6VH04	V S L K	V E K G P F	V I S G H D	L R D L K M L L L E F Q Q T
UniRef90_U5Q9H3	V N N I	G V G K N P G	L I S G H D	L K D L M E D L L K Q Q T
UniRef90_F0RUZ8	L G V G	G K N P G	L I S G H D	L R D L E M L L L E F Q Q T
UniRef90_R9M0M1	V S L T	V E K G P F	V I S G H D	L R D L K Q L L L E F Q Q T
UniRef90_B9MRG9	I S	K K K G P F	V I S G H D	L K D L K E L L L E F Q Q T
UniRef90_A9KP36	I G V G	T N P G	L V S G H D	D L K Q L L L E F Q Q T
UniRef90_I5AXB9	L T T V	E K G P F F I	V I T G H D	D L K Q L L L E F Q Q T
UniRef90_R7H5Y7	L T T I	E K G P F F I	V V T G H D	L H D M K L L L E F Q Q T
UniRef90_R7R8Z2	L H V	E K G P F F I	V V T G H D	L K D L Q L L L L E F Q Q T
UniRef90_A6LCQ4	V N N I	G V G K N P G	L I S G H D	L R D I Q D L L L E F Q Q T
UniRef90_T0CTY0	V N N I	G V R N N P G	L I S G H D	L K D L E L L L L K Q T
UniRef90_R5V7N4	M K I	E K G P F F I	V V T G H D	L R D L Q L L L L E F Q Q T
UniRef90_F7KIC5	L C I	E K G P F F I	V I T G H D	D L K Q L L L E F Q Q T
UniRef90_S2KXS5	I G V G	T R P G	L I S G H D	L N D L K L L L L E F Q Q S
UniRef90_F0GV78	Y S A G	D K P G	L I S G H D	L H D M K D L L E F Q Q S
UniRef90_W1UCF5	T N I I	K K G P F F I	V I S G H D	L K D L E M L L L E F Q Q T
UniRef90_R6QZT5	F K V	E K G P F F I	V I T G H D	L Y D L K L L L L E F Q Q T
UniRef90_C5VRW8	V N N I	G V R N N P G	L I S G H D	L R D L E M L L L E F Q Q T
UniRef90_D7NBC5	V N N I	G V G K N P G	L I S G H D	L K D L E E L L L K Q Q T
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UniRef90_R5RUK5	P L	T V E K G P F	V I T G H D	L Y D L K Q L L L E F Q Q T
UniRef90_W6S2H8	N V K	I R K G P F	V I S G H D	L K D L E M L L L K Q Q T
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UniRef90_C7H7A1	L V I I	E K G P F F I	V I S G H D	L Y D M K L L L L E F Q Q T
UniRef90_R7HUE7	T N I I	E K G P F F I	V I T G H D	L R D L S L L L L E F Q Q T
UniRef90_R5L949	L T I I	E K G P F F I	V I S G H D	L K D L E L L L L K Q T
UniRef90_UPI00028843D2	V H I	K K G P F F I	V I S G H D	L K D L E M L L L Q Q Q T
UniRef90_U7V6D5	V N I I	G V R N N P G	L I S G H D	L N D I V Y Q L L L E F Q Q T
UniRef90_R7JZR6	T D I I	K K G P F F I	V S G H D	L K D L S Q L L L E F Q Q T
UniRef90_T3GIF6	M K I	E K G P F F I	V V T G H D	L Y D L H K L L L E F Q Q T
UniRef90_Q3AAHQ9	T G V G	R Q N P P G	L I S G H D	L R D L E E D L L K Q Q T
UniRef90_D3RQ67	N L G V	R N N P G I	L I S G H D	L K D M E E L L L K Q Q T
UniRef90_V7IB69	V N L G	V R N N P A	L I S G H D	D L E E Q L L L E F Q Q T
UniRef90_A0A037Z246	I T K	K K G P F	V I S G H D	L K D I K Q L L L E F Q Q T
UniRef90_R7HZQ0	G V G	K R P G	L I S G H D	L K D L E Q L L L E F Q Q T
UniRef90_R7LUC0	T N I I	E K G P F F I	V S G H D	L K D L Q L L L L E F Q Q T
UniRef90_I7J6N3	L S D I	K K G P F F I	V V S G H D	L N D L E E L L L K Q Q T
UniRef90_C0EAC9	V D I I	K K G P F F I	V V S G H D	L R D L Y Q L L L E F Q Q T
UniRef90_E4KZU3	V N N I	G A R K N P G	L I S G H D	L K D F E M L L L E F Q Q T
UniRef90_R7H7J8	L N T V	E K G P F F I	V V T G H D	L K D L E M L L L E F Q Q T
UniRef90_G5H9S6	V N N I	G V G K N P G	L I S G H D	L K D F E E L L L E F Q Q T
UniRef90_UPI000363A1F3	V N N I	G V M N N P A	L I S G H D	L K D L E E Q L L L E F Q Q T
UniRef90_U2KS73	I G V G	T R P G	L I S G H D	D L E E Q L L L E F Q Q T
UniRef90_D7JG35	V N I I	G V T P V K G K A	L V S G H D	L H D I E E D L L K Q Q T
UniRef90_D1B7H3	R V T	P V K G K A	L V S G H D	L K D L Y E L L L K Q Q T
UniRef90_R5DMY0	V N I I	K K G P F F I	V S G H D	L K D L E M L L L K Q Q T
UniRef90_C5EUD3	M T I I	E K G P F F I	V I S G H D	L H D L E Q L L L K Q Q T
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UniRef90_C9LJ33	V N L G	V G R N P G	L I S G H D	L H D L E E D L L K Q Q T
UniRef90_UPI0004643730	V K L	K K G P F F I	V V S G H D	L K D L E M L L L K Q Q T
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UniRef90_UPI000374CEE1	L H I	G V G K N P G	L I S G H D	L K D L E N D L L K Q Q T
UniRef90_B1BC86	V V T	R K K G P F	I V S G H D	L K D L E N D L L Q Q Q T

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290

300

310

320

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Q E A P [] [] N N [] [] Q P R E A H M S M F C N Q C E

M S M F C F Q C E
K M F C F Q C E
M K E Q M F C Y Q C Q
M F C F Q C Q
M F C Y Q C Q
M F C Y Q C E
M E N Q M F C F Q C Q
M F C F Q C E
M S M F C N Q C E
M F C F Q C E
M G M Y C D Q C Q
K M F C F Q C Q
M T M F C Y Q C E
M S M F C Y Q C E
M E E K M F C F Q C E
M F C F Q C Q
K M F C F Q C E
R P T K M F C N Q C Q
K M F C F Q C E
M E R K M F C F Q C E
M K E E M F C Y Q C E
Q M F C F Q C E
M F C F Q C Q
M F C F Q C E
R P S K M F C Y Q C Q
M G M Y C D Q C Q
M F C F Q C Q
M E N S M F C Y Q C E
Q M F C F Q C E
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M S M F C Y Q C Q
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M F C Y Q C E
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M S M F C Y Q C Q
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K M F C F Q C Q
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M S M F C F Q C E
R [] T K M F C F Q C Q
K K T K M F C Y Q C Q
G E T M
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M D M F C Y Q C Q
M F C F Q C E
K E K Q M F C F Q C E
M Y C Y Q C E
M F C F Q C E
M F C F Q C Q
F R R [] S M S M F C F Q C Q
M S M F C F Q C E
M F C F Q C E
M G M F C Y Q C Q
M E K K M F C F Q C E
M S M F C Y Q C Q
K M F C F Q C Q
R Q M P M F C F Q C Q

	50	60	70	80	
UniRef90_L7VNM5	Q T A G G K G C		V K T G V C	G K K P E V A A Q Q D K L	
UniRef90_R5AAX7	Q T A G G T G C	M G	N A G V V C	G K T A D V A Q L Q D D E L	
UniRef90_E0NPC0	E T A K G V G C C T		I R G V V C	G K L P Q T S K Y M D D L L L	
UniRef90_C7HV81	E T A G N K G C C T		K V G V V C	G K N E N T A N S Q M D L L L	
UniRef90_UPI0003B37803	E T V G N K G C C T	Q	V G V V V C	G K K P E T A G L L Q Q D D V L L	
UniRef90_R6NET3	Q T A G G K G C C T		K L G V V C	G K T P E T A N L L Q Q D D L L L	
UniRef90_J4UZL8	E T A K G T G C C T		V R G V V C	G K L P E T S R W Q D D L L L	
UniRef90_F4LNG2	Q T A G G T G C C T		G K A G V V C	G K Q A S T A K L L Q Q D K L L	
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UniRef90_B8DPN6	Q T A K G T G C C T		T I G V V C	G K Q P E V S A L L Q Q D L L T	
UniRef90_D8GNZ5	Q T A C G S G C C T		K V G A V C	G K Q P D V A N K Q D D K L L	
UniRef90_Q3B2A8	E S I H G T G C C T		A R G V V C	G K D E M T A K L Q Q D D A L L	
UniRef90_D6SLN3	M F C Y Q C C	E Q T A K G E G	C T K G V V C	G K Q P D T A E L L Q Q D L L L	
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UniRef90_D9SVP6	Q R A G E S G C C T	V S	G V V V C	G K N P R V A A L L Q Q D L L L	
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UniRef90_R5WBC0	Q T A G G S A C C T	I N T	G V V V C	G K Q P S T S N L Q Q D E L L	
UniRef90_B9CKB1	Q T A A C T A C C T		G K A G V V C	G K P F D V A F A Q D D E L L	
UniRef90_A1ANA2	M F C N Q C C	E Q A A N G	I G C N V G V V C	G K K P E V A A L L Q Q D H L L	
UniRef90_A9A7N9	E T V I G T G C C T		V K V G V V C	G K K D N V A N L Q Q D L L L	
UniRef90_R7NAZ5	Q T A G C S G C C T		G N A G V V C	G K D A S T A K L Q Q D D E L L	
UniRef90_N1ZSB4	Q T A G C S A C C T	T G G A	G V V V C	G K K A D T A E L L Q Q D L A	
UniRef90_A0A017RZ17	Q T I G G K G C C T		K L G N C	S K D P E V A A L L Q Q D L L L	
UniRef90_K4KSX5	Q T A G G K G C C T	N A	G V V V C	G K K P E V A N K H D E L L	
UniRef90_R5NZC2	E T A K G T G C C T		V K G V V C	G K M S S T S A M M D M L	
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UniRef90_X0SF08		M G P C R L V	G K T T V G I	G A T K E T V I S A R N L A	
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UniRef90_F8THG0			P E S P R G V V C	G A D A D T M V A R N F L L	
UniRef90_UPI00047AD4DE	Q T M G S K G C C T		K H A G V V C	G K T P E T A N L L Q Q D L L L	
UniRef90_E0NL37	Q T S R S Q A C C T	G C	A G V V C	G K S A T V A N L L Q Q D K L L	
UniRef90_R6NSH5	Q T A G C S G C C T		G K V G V V C	G K N A D V A A L L Q Q D K L L	
UniRef90_F0SWR9	E T A G N H G C C S	K A	G V V V C	G K T S D V S N L Q Q D L L L	
UniRef90_H0URF1	Q A A Q G K G C C S		V M G V V C	G K D P K T S D L Q Q D M L L	
UniRef90_R7HCH1	Q T A N G K G C C T		K M G V V C	G K T P E T A N L L Q Q D L L L	
UniRef90_D7E6V9	E T A K G E G C C T		K K G V V C	G K S N E V A N L Q Q D E L L	
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UniRef90_B1BZ66	E T A M N K G C C T		K V G I C	G K Q P K T A N L Q Q D K L L	
UniRef90_K1XTX7	Q T A K G Q G C C S		V Q G V V C	G K T P E T A D L L Q Q D L L L	
UniRef90_UPI00036A7A80	Q T A K G T G C C T		V V G V V C	G K Q P N V A A L L Q Q D L L L	
UniRef90_L0GZ65	E A	S K G T G	C T V K G I	G K T E S I A V L H D L L L	
UniRef90_UPI00047EF022	Q T L G G K G C C		V K S G V V C	G K T S T V A N L L Q Q D V L L	
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UniRef90_R6LNS2	E T A G N K Y C C T	V S	G M C	G K V P E V A N I L Q Q D L L L	
UniRef90_E8WUE2	E N M F C Y Q C C	E Q A A N G G	C S K V G V V C	G K K P D V A A L L Q Q D L L L	
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UniRef90_F2JJB2	Q T V G G K G C C T		K I G V V C	G K T P E T A N L Q Q D L L L	
UniRef90_Q1K3J6	E A A K G T G C C T	I A	G V V V C	G K K E D T A G L L Q Q D L L L	
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UniRef90_R6EER3	Q T A G C T G C C T		G S A G V V C	G K D A K V A A L L Q Q D Q L L	
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UniRef90_UPI00047DF11A	E T A G N T G C C T		K F G V V C	G K S P D L L A R M D L L L	
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90 100 110 120
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L I S V I R G L A I V I E E N K I V D N T M F F S T T I T T N A N F D D E E I A R E I E K A
I Y V V T K G L S E V V A T K V L R A L S G K T L F C V T T I T T N A N F D D R V R K T C A A K
V Y V T K G L S Q V A T K V L R A L S G K T L F C V T T I T T N A N F D D R Q Q I K E E S T L
I S F Q I K G L S C Y G K V L V E I E N D V L F F T T I T T N V N F D D Q Q I K E E S T L
L S V V R G A G T I G K V L G D M I V D A L F F T T I T T N V N F D D R A I A I K K Q L
T G A L I G L A R A A D V N R L M L E G L F F T T I T T N V N F N D L I D R V H A K T
I Y T I K G L C Y V C D K G D Y I P K A L F F V T T I T T N V N F D D D K I K K G V A L
V Y A L R G L A L V A L E A R K K A K A L F F T T I T T N V N F D D P A I N E I V K H
T C K L I E L A Y A S E G K N M M E G L F F S T T I T T N V N F D D G S R I D E
V Y A S V G L A I A A D A G R R I S E S L F F V T T V T T N T N F D D D V A I V J E I G
V F A L K G L S Q V A M A G R E I S E A M F F S T T I T T N V N F D D P E V K D T V E I G
L F A V R G L G V L T T G L R R A G K A L F F S T T I T T N A N F D D K S L R A R D S K L
T S S L I K L A N C G N K A V E Q N T E L L F F I T T V T T N V N F D D E E I K K E E S
I H Q L K G I G F Y G N K A V E V A D G L F F S T T I T T N V N F D D E E I K K E E S
T G A L I G L A H A V E T D R L M M E S L F F A T T I T T N V N F D D I E A V H Q E K E G
V C L S K N E N K H S A V A R K L I V D G L F F T T I T T N V N F D D N N A I K E F M G
T G A L V G L A Q T E L V A H K L I V D G L F F T T V T T N V N F D D K K A V D A I T V
L Y G L K S L A L Y A E K I R F T I E G L F F T V T T N V D F D Y L L K E K A K D
I Y T L K G I A Y V S E K T R Y I V D S L F F A S V T T N T N F D D Y L L E K I K E G
T G A L I G L V K T C G S N R I I E G L F F T T I T T N V N F D D N N Q T L Q D M I
R A V E G D E S L A T E M T D K V V E G L F F T T I T T N V N F N Q I Q A E K E R L
I Y L L K G I G F Y G Q K L I E M M D A S F F A T T I T T N V N F D S S E K E E L K T
T C A L I G L A R A A S T A P E V M Q S L F F A T T V T T N V N F D D P Q D F D A F I Q
L F S V R G L A I V A N T L R N I V D A L F F T T I T T N A N F D D D Q T R L I R K L
T C A L V G L G R A A T K N E L M M L G L F F A T T I T T N V N F D D K L R I N E L I N
V Y T V K G L A V A R E N L R Y I V D A L F F T T I T T N V N F D D E K I K E G L A I
R W V A G G A A A H S D H G R D M A M T L L A A A T G E A P D Y Q I K D E K K L
V Y A A E G L A L C A E Y G R L I S E S L F F V T T V T T N T N F D D L D R R D E L K L
L S V V R G V G T I Y H S L L E L I S E A L F F A T T I T T N A N F D D T G I A K K R L
R A V A S G S A C Y I H V V E N T A R N L K R T A E T R G V I L K G T G A L
I Y Q L K G I S Q Y S E I V K F V E N A L F F T T I T T N V N F D D L M L K E S Q R L
T G A L I G L A C Q V A E T C K I L L E G L F F T T V T T N V N F D D N D E T V K E M I D
T G E L I G L V R A T G D V V P T G N V L K L I I E G L F T T L I T C T E R E R L
I F V T K G L S Y A A L Q A K K I I D S L F F T T V T T N V N F D D H K I K E G L T L
I K V L C D V G S L A H E D R E V I E G L F F T T V T T N V D F D F A I R R R L A G
I Y Q A K G I C C Y A E V V R F L E N V L F F T T V T T N V N F D D Q S N I K E E L R L
M Y V L K G I A F Y N T K A R E H G L N L F F A T T I T T N V N F D D F S I R D Q V K D
L H A V K G L S L Y A A A G R K V G E A L F F S T L T T N V N F D D P Q I K R T A R L
I Y T V K G I S E L G E V N H E V L K S L F F M T I T T N A N F D D K E L K M T T L
I H V L K G V A F N Y H R A A R E I I E G L F F T T I T T N A N F D D P D D F V K R I H
I Y V L K G D V R F N G I V I E I I N T N L F I T I T T N A N F D D N R K I N D A I T
I Y S L L G I A V Y G N K A R E V I E A L F F T T V T T N V N F D A K I K E Q Q R L
V Y A L K G I S F W A D K A R F M L D G L F F T T V T T N A N F D D A E V R L R G K A
V Y L L K G L A L V A E A Q R Q G R A L F F A T I T T N A N F D A T A J A K R D A L
I H E L K G I G F Y S E I S K F V V D S M F A T T I T T N V N F D D P S R F V E Y I K
L S V V R G I G T I Q H V T H I L T D A L F F T T I T T N A N F D D K G S I V L K K Q L
I Y L L K G D L S I Y N L K A K E I I M D S L F F A T I T T N A N F D D L S L R D N K K L
V W E L K G L S Y I A Q R A R E I A E S L F S T V T T N V N F D D P E E L D D E S L
V F W Q T K G I A I L A N K L R A K G E N L F I T I T T N A N F D D D E V R E I Y K T
I F Q L K G I S C Y G D I V R F V E N C L F F T T I T T N V N F D D R E V V G E I K N
I Y G L K S L A L Y A N K A G R N A E I D R F T T I E G T N V D F E I K R C Y E L
V A T A L D N G K M S H E T D D L M D G L F F T T I T T N V N F D D S A I K A T E R V
L F V V R G I S V A E T L L R Q R G E T L F C T I T T N A N F D D L E I L R D V A R L
L Y Q C K G I S C Y I E K G E I I E N S L F F T T I T T N V N F D A E V K E S Q K I
T G A L I G L A A T A T K L V D G L F F A T V T T N V N F D D G A S I
T S A L I G L A R A C D A A K E Y Q L L F M C V T T N V N F D E E R V Q E G F I N
I Y V V K G L S V Y S N D A I D I V D A L F F T T I T T N A N F D D D Q I K E G L A L
I Y V T K G L S A V T T K L R E V T F N L F F T T I T T N A N F D D K T I K D E K K E
V Y A M K G I A F W A N L A R E M I D G L F F T T V T T N V D F D K L V R D A A A H
V Y G L K S L A L Y A D K I G R N A E I D R F T T I E G T N V D F E A A R I G D L
I Y Q L K G I S C Y A D I K F V E N S L F F T T I T T N V N F D D Q E I K E R L R Q
V Y N L K G L A V V A E A K S I C Q A L F F A T I T T N A N F D D N Q R R D T L K L
T G A L I G L A H A A D E N K L M V E G L F F A T T I T T N V S F D D K H Q E K A R L
I Y Q V K G I S C Y G K V L S E L G H V L F F T T I T T N V N F D D Q K I K D S L R E
I Y N L K G L A Y W K I A R E K G V T L F F S T I T T N V N F D D P Q I D L R D K M
I Y A L R G L S L V A L A A R E T A K A L F F T T I T T N V N F D D P A R F D V A H R
I G S L C K T E C S D R I T K M I L D G L F F T T I T T N V N F D D K K L V E M I Q N
T G A L I G L A R A S E S A D R A M L A L F F T T V T T N V N F D S T V K E M T K V
T G A L I G L A R A S K S G N P T E K T L F F T T I T T N V N F D D V T I K K M
I F T L E G I A K L N L Q A R K I G I E L F F S T V T T N V N F D D K S F F E K I K E
I Y A L Q G L G K V A Q A R Q V C E A L F F A T I T T N V N F D D E L R E Q L K E
T G A L K G K T K N T D R I V I E G L F F T T M T N V D F D N A A I A K K I E
T G A L V G L A R T C Q T A A P T A K T Y R T L L E G M F T T I T N V N F N T T
I H I T K G I S M Y A H R L R F V V I E A L F F S T I T T N V N F D D R S I R E G L K L
I H A M K G L S I A A D L A R A K N A E A V F S T I T T N V N F D D P A L R D E L K G
I Y A L Q G L S L V A D Q A R A I N E G V F F S T L T T N V D F D P A R F Q V L I N
L H A C R G I S A R A D I D R F V M D A L F F T T I T T N V N F D D P E I Q R Q A R E
I R L A E V C E Q K S E H P R E V A D G L F F T T I T T N V N F D D D G A I R A
V Y S V K G V S F W A H Q A R Q V I K A L F F T T V T T N V D F A K I A E A V S L
I Y L M K G I S I C N I E T R F I M E G L F S T I T T N A N F D R K Y F M E K I Q
I H M A K T V S A Y I D L H R W V N A L F F V T I T T N A N F D D E I R E I E T G
R V M E K E A P N D E V S R L V M K G L F F T T V T T N V N F D D P T I K K V E D L
T G A L I G L A R A C E N N K I I E G L F F T T I T T N V N F N I Q R V N E E K H
I Y T L K G I S E L I Y V N R E V K S L F F M T I T T N A N F D D L S I R N E L R S
T G A C K G C P N E P E T D R L I J E G L F F T T I T T N V N F N Q T I F E M Q K I
I Y T A K S V A S Y C S L L D G K Y E V L F M T I T T N A N F D A I I K E I E K L
I Y S L I G V S T L A E I H E F V M E G L F F A T I T T N A N F S D L T Y R E E L K E
I Y T I K G L C E V T T R L R Q I T I N L F F T T I T T N A N F D D D E V F Y E R V L
I Y L L K G I A I Y L K Q A K E I V D S L F S T I S N A N F D N Q S F M N K I G

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UniRef90_HOURF1 E A V P E E W R E E E G L D Q E G L A L R G S R L G P K A D V S R Q Y G E T I L G
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	170	180	190	200
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UniRef90_Q58175	GMLKGLIGA	YLSH	AS	H
UniRef90_B8DPN6	GMLKGLAA	YADH	AA	V
UniRef90_D8GNZ5	GIRGMAA	YAYH	A	V
UniRef90_Q3B2A8	LKQSLVLY	G L K G G L	YTDH	AA
UniRef90_D6SLN3	LKQTVT	G L K G G L	YADH	AA
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UniRef90_R7JC18	GVKGMMAA	YATH	HA	R
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UniRef90_A9A7N9	LTTLLYGL	K G I A A	YLHH	AM
UniRef90_R7NAZ5	GVRRGMMAA	YAYH	AM	V
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UniRef90_R5NZC2	GLKGMMAA	YTEH	AM	H
UniRef90_T0JVNO	GLRGMMAA	YAWH	AA	V
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UniRef90_X0SF08	VRRAPA	K R Q E V W R K	L G I A P	R G I D
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W Q N Q R K E F D N I P A P I L F T T N C L Y S D R I F T T D V V A F P G L K H
N G P I L M T T T N C I V P V R E S Y R Q R M F T T G M A G Y P G L Q H
P G P I L M T T T N C I V Q K P Q E S Y K D R I F T T G L V G W P G V A H
K G P I L F T T T N C I V P P L P K N T Y V S R M F T T N S S G Y P G C K H
W Q N Q Q K E F D N V P A P I L F T T N C I I M K D R V F T T S V V A Y P E C R H
W Q E Q Q K E F D N I P G A I L M T T T N C I Y M D R M F T T S G V V Y P E N T H
P A P V L F T T T N C I M P P K D S Y S D R V F T T G V V S Y P G M V H
P A P V L F T T T N C L M P P R P S Y K D R I Y T T S V V G Y P D G M V H
W Q N Q Q K E F N C L M P P R P S Y K D R I F T T E L V A F P E L V H
P G A I I F N T N C I Q R P D D S Y K D R L F T T W G L V A W P D V Q H
N G P I L M T T T N C I V P P A N S Y V G R I Y T T G V V G Y P G L K Y
W Q N Q Q K E F D A I P G A I L F T T N C L M P D R V F T T E V V S Y P Q M V H
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L T V L Y G L K G V A S Y A F H A Q E L T G Q E D R E V I Y K F C Y E A L A N L D N
G I K G M A A Y A Y H A R M L G C T D N E V I S T F M E K G L A A T L D
L T A L Y G I K G A A S Y A F H A Y E L G Q E D D E S V I T A F T Q Q V L A A T D S
G L K G V G A Y Y H A D A L L G Y E D D E L T A G F I Q R A L A S T L Q
L A A Q A L P N R L R L L C L Y G L K G A A A Y M E H A R V L D Q T D S E V A A
G L K G L C A Y L S H A A V L G F R K A E L S S F V R S T L V I L L E
G L K G M A A Y A H H A M N L G Y Q N D N V I T W F Y S T G L C E V N R
L L L T Y G M K G I S A Y T H A A V L L G S T D E T I T T F L Q T G L A A T V A
A A A Y M E H A R V L G Q T D A D V A G S F D H E I M S F L G E P S V D G
L L C L Y G L K G A A Y M E H A R V L A G E Q D D A I G A E F H R I M A W L A T
L R L L A L Y G L K G V Y M E H A R I L L G G Q K E D V S A E F H R I M A E N P T
G L K G V A A Y A D H A A V L L G E K D R A I Y A D F L M E A L A S T T E
A D Y A L N K D K A E A Y L E H A R V L E Q Q D R A I Y A Q F H A F A W L G S
G V R L L C L Y G L K A Y M E H A Y V L D K F D N D I Y A Q Y H M S W L G T H S
G L K G A Y M E H A H V L G Q S D E T I Y A Q Y H E F M A W L G T Q P R
A M Q I L L Y G L K G V Y A D H A A E L G Q R D P A E V A F L Y R G L A G T E L
V L K G I C A Y A H H A A L G H R S A D E V F S G V E E A L A Y L A G
L K S L I G M R G M A A Y A H A L M L G G H S D E V N Q F F V K G L H A L G E
L K L T V L Y G L K G L Y S F H A Q E L G G E D D R I Y S F C H Q A L A L E E
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G L K G I A A Y A Y H A G E L G A R D P E V D A F M H E A L F T T L N V D F
G L R M L C L Y G L K A Y M E H A H V L G Q Y D E S I Y H S L M A W L G T Q P T
L R L L C L Y G L K A A Y M E H A R V L G G Q Q D S E V A A E F H R I M S W L S
L T V I Y G I K G A A S Y T F H A Y E L G G E D D A V Y T F I H E A L A I D R
L K A T V L Y G L K G L Y A E H A Y Q L G G H S R E I F E F L M E A L A A L T Q
A P Q V A V N R G K E L L C L Y G L K G A A A Y M E H A R V L G Q T S N D I Y A
G L K G A A A Y M E H A H V L G G S D N Q I Y H A F M A W L G T Q P R
L R L L C L Y G L K A A Y M E H A R V L D Q T D V D V A A E F H K I M L G E D S
G L K G A A A Y M E H A H V L G G S D S A I Y A E Y H R L M A W L G S
G M K G V C A Y S H H A R M L G Y Q S D A I Y A E V E R Y L T T N P T
A A A Y M E H A R V L G K T D V D I A A D F H R I M A F L G E P S V
G L R L L C L Y G L K A Y M E H A H V L G G Q D E A I Y A E Y H Q I M A W L G A
L T V L Y G I K G C A S Y N F H A Q E L G Q E D E K I Y A S F I Q E A L A S L D N
L R A M M L Y G L K G V Y C Y H A H V L G Y Q N E E V F E R I E K A L A D L L A S
L S R A P H Q R Q D L W K H N L E P R A I D R E I V T I M H S T H M G C T A G
V L V L Y G M K G V A A Y Y H H A T V L G F R D P A I D A G L A R L S D L A G
G L K G M A A Y A H H A R R L G Q I S A L V D D F T V I E A L A A L E T
G L R G M A A Y A W H A M T L G I S D E T V N R F F Y R G M F A V E A
A M Q M L L F G L K G V Y A D H A A R L G Q R D P E L G A F V C K A L T L W D E
G L K G M A A Y A D H A A M I G K E D N E I Y N F E V K A L A Q T I E E
C L K G I S A Y S H Q A R F I N H H D D D V D N F Y F E A L S A V I N
L R S L V L Y G L K G V Y A H H A Y V L G G E S D T V Y A G I E D A L D F L S N

G L K G I A A Y A Y H A R E L G A H D P E V D A F M H E T L T N V D F
L S V V A P P E R I Q T W K L D L P V S S S F E V S S A L K Q T S D E S L N
G L K G M A A Y A N H A C I L L G K T D E V F S A F F H S A L T D T D K
V E K I A Y A P R V K K W K E L G L M P G G A K S E V F D A I V K S S T N L S
L K L T L Y G L K G A Y A F H A Y E V G Q E D E A I Y H F V H R A L D D Q S M
G L K G M A A Y A H H A R Q M N R A D P V V D A F T V I E A L A K L D A G V I S S
L L C L Y G L K G A A A Y L E H A R V L G Q S D A E V Y G R F H M A F L G D G
G K M T S L E H R R H V Y S H H A E V L G H R D P E V D E F M A R C A F L C S E
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V N I G V R K K G P F I I S G H D
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V N M K P I A G K A I L V S G H D L I
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		290	300	310	320
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UniRef90_Q8PS69	K G T G V I D V Y	T H G E M L P A H S Y P A F G N A	W W R Q N E Y F E K F		
UniRef90_N9XZH9	K D K G V N V Y	T H G E M L P A H G Y P E L K K	Y P H L V G N F G S A		
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UniRef90_A7VHG0	E E G T G V N V Y	T H G E M L P A H G Y P K L A	A Y K H L A G N F G T A		
UniRef90_B8GJA5	K E S G V D V Y	T H G E M L P A H A Y P A F K	K Y W H L Q K E E F E Q F		
UniRef90_B8EBN7	V G K G I N V F	T H G E M L P A L A Y P A F K	K Y P H L V G N Y G S A		
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UniRef90_Q8PS69	I E G D D F S A V I	A Q A Q A M D G F P Y		S E I E H L I
UniRef90_N9XZH9	V G D R P A G A	G A K D F S A A V A L A K T C Q P P V E L E S G K		S E I E H L I
UniRef90_V3TW52	L E T V D	G A I D F S P V I A K A Q S L L G F T E		L S E P R Q V
UniRef90_B8FG46	I K N R	D F A P L I L L K A L E L P G F A E D A P		S E I P G K E V
UniRef90_BOJIR2	I E D D D F S A V I I E S A	L I J R H A K H L G G Y E H D H S M S G I N G G H I L		S E I P H D I
UniRef90_E5Y3T8	I A T D A D	G H K D F S E I I R H A K H L G G Y E H D H S M S G I N G G H I L		S E I P H D I
UniRef90_UPI0003B47B7B	I P E S D N G S	K D F S A V I E H A K R C S P Q D I S V K		G E G Y T D E I
UniRef90_R5JYM9	V E G W D F T	P V I E S A L S L		P D L P E N P G Q E I
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UniRef90_B5EHH7	I E A V D	G R K D F S A I I E Q A K I		C P P P T Q I E T G
UniRef90_M1P1F4	L D G D	D F S T V I S Q A Q Q L A G		F P Y S E I E Q Q I
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UniRef90_A8H1E5	I E G D D F S Q V I E C A L I A			E I P H M I
UniRef90_Q6LG35	I E G D D F S S I H D I S L V I Q K A L E L P G F T E D S			E Q K T V
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UniRef90_Q07X28	V T G D D F S V V I E	K A L S N D G F		S E I E H L I
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UniRef90_I3BTR4	L A S D E T G T P D F T P A I E K L S M P G F			E E E K S V
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I V D A I K S G A I K R R F V V M
I D L V A Q K K I R H V F L V
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I V E A V K K G D I K R R F V V M
I D Q V K A G N I K R H F F L I
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L N D A I T T G R I R R G V A G V
I E A V Q Q G A I R R F F V V M
I D Q V K K G E I R H F F L V
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I E N V K S G A I K R H F F L V
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I D L I A N G T K G V V G V
I D A V K A G A I Q H F F L I
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I V E N V K S G A I K R H F F L I
I E A V K S G A I K R R F V V M
I A A V K A Q I R H F F L I
I D A V K G G Q I S R F F V V M
I D A V K Q G K I R H F F L V
I V E N V K N G S I K R H F F L V
I V E A V K N G D I K R Q F V V M
L T A A I K N G D I K R H I F L V
I D A V K S G A I K R F L V M
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I E Q V K A G N I R H F F L V
I V E A V K S G A I K R F F V M
I D M V A A K Q L R H V F L V
I D L V K A G K L S R H V F V I
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I V E A V K Q G A I R H F F L I
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I E A V K Q G K I R H F F L V
I E A V K S G D L S H F F V V
T V D T L T E L L A Q N K L R H L F L I
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I D A V K A G K I R H F F L V
I D L V A Q K K I R H V F L V
I E K V K A G E I S R H F F L V
I D A V K Q G K I R H F F L V
I D A V K S G A I K R F F V M
I D Q V K Q G N I K R H F F L V
I D L V T Q K K I R H V F L V
I V E N V K N G S I K R H F F L I
I D L V A K K I R H I F L I
I D A V K S G A I Q H F F V I
I V E N V K N G S I K R H F F L V
L I D L V S R E K I R R H I F L V
I E A V Q Q G K I R H F F L V
I E A V K S G D L S H F F V V
I D A V K S G A I R R F F L I
V G A I K S G A V K R H F A V I
I E A V K S G A I R H F F L V
I E A V A Q G K I R H I F L V
V D A I K A G K I K K F V S M
I K L V K E G K I K R F F V I
I D A V K S G A I K R H F F L V
I D V I A A G K I K G V V A L
I S A L I D G K I K G I F L S I
I E A V K G G A V K H F F L I
I D A V K Q G H I R H F F L V
I D Q V K A G N I K H F F L I
I V E A V K T G A I K K F F L V M
I K A V Q E G H L K R H I F L I
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	490	500	510	520
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UniRef90_N9XZH9	L E F		G D I N G I	P R L L D V
UniRef90_V3TW52	L D F G T L E		G L	P R L L D V
UniRef90_B8FG46	L N L		G D I G G L	P R V L D A
UniRef90_BOJIR2		F D K Q L G S I E	G L	P R L M D L
UniRef90_E5Y3T8	K D L		G K I G P F	P R L L D V
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UniRef90_B5EHH7	L Q F		G D I G G I	P R L L D V
UniRef90_M1P1F4		F D K K L G D I G	G	P R L L D V
UniRef90_H9ULC1	L N L		G S I D G I	P R V L D A
UniRef90_V5C3U1	L E F G T L E		G L	P R L L D V
UniRef90_G7V7V2	L D F		G D I D G I	P R L L D V
UniRef90_L0HC29	L D L		G T I G G I	P R V I D A
UniRef90_C4LA04	L E F		G D I N G I	P R L L D V
UniRef90_D6EAH1	L D L		G T V A G L	P R L M D M
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UniRef90_C9R9K6	L D L		G E I E G I	P R L L D M
UniRef90_UPI0003637EDA	H D F		G D I G G I	P R L L D M
UniRef90_E5YCZ9	L D F G T L E		G L	P R L L D V
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UniRef90_Q6LG35	K E F		G D I N G I	P R L L D V
UniRef90_Q3M890	Q N L		G D I G G I	P R L L D L
UniRef90_F8THH9	V G L M R A A A A S E A G P G L R A V C E K L G			
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UniRef90_S0G462	K D L		G D I D G L	P R L L D V
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UniRef90_R6VVS9	L D L		G M I N G I	P R V L D A
UniRef90_A7VHG0	L D L		G E I D G I	P R I L D M
UniRef90_B8GJA5	L G L		G T I G G I	P R V L D A
UniRef90_B8EBN7	L E F		G D I N G I	P R L L D V
UniRef90_N9TZG3	L E F		G D I Q G I	P R L L D V
UniRef90_V5F4U1	L D F		G D V N G I	P R L L D V
UniRef90_C0QFE0	L N L		G D I N G I	P R V L D A
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UniRef90_C9P3S1	N Q F		G D I N G I	P R L L D V
UniRef90_W0LDZ3	L D F G T L E		G L	P R L L D V
UniRef90_Q07X28	L D F		G D I N G V	P R L L D V
UniRef90_E8XTR2	L D F G T L E		G L	P R L L D V
UniRef90_I3BTR4	N D Y		G D I G G I	P R L L D M
UniRef90_Q8EH67	L E F		G D I N G I	P R L L D I
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UniRef90_C0D661	L D L		G Q I G P L	P R L L D M
UniRef90_G1UT13	K D L		G T I A G L	P R L L D M
UniRef90_A2FIM7	L G L		G K L G D L	P R L L D M
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UniRef90_UPI0003811C7A	Q G F C S S K A R E K C G E M L Q L F		L N T N M	P V W H F
UniRef90_B5EHZ4	L E F		G D I G G I	P R L L D V
UniRef90_T3RSY9				
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UniRef90_E1Z521	H D F G M L		G D I N G I	P R V L D A
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UniRef90_Q6ANX0	L N L		G T I G G L	P R L L D M
UniRef90_UPI0003643B1B	L D F G N I E		G D I G G I	P R V L D A
			G L	P R L I D A

	570			580			590		600																																						
UniRef90_D4L9P5	A	V	A	V	L	L	A	L	L	S	L	G	I	N	L	Y	L	G	P	E	L	P	A	F	F	L	S	P	N	V	L	Q	Y	L	A	D	T	F	Q								
UniRef90_K2E4J5	A	V	V	I	L	L	T	L	L	H	L	G	V	K	N	I	L	G	P	P	E	L	P	A	F	F	L	S	P	N	V	L	N	I	L	V	E	K	Y	Q							
UniRef90_M1SJ99	A	I	V	L	L	L	L	L	L	S	L	G	V	K	N	I	L	G	P	P	T	L	P	A	F	F	L	S	P	N	N	V	L	N	I	L	V	E	K	F	G	M	R				
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UniRef90_N9XZH9	A	V	A	D	L	L	A	L	L	S	L	G	V	K	M	I	L	G	P	P	T	L	P	A	F	F	L	S	P	N	V	L	Q	Y	L	I	E	N	Y	F	G	M	R				
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UniRef90_C9R9K6	A	V	A	I	L	L	T	L	L	F	Y	L	G	V	K	I	R	L	G	P	T	L	P	A	F	F	L	S	P	N	V	L	K	L	I	Q	D	K	Y	F	F	G	M	R			
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UniRef90_R5D327	A	I	V	V	L	L	T	L	L	S	L	G	V	K	N	I	T	G	P	S	A	P	A	F	F	L	S	P	N	L	L	A	N	A	L	V	S	Q	K	F	F	G	M	R			
UniRef90_UPI00046EA4F2	A	V	L	V	L	L	A	L	L	S	L	G	V	K	I	R	L	G	P	P	T	L	P	A	F	F	L	S	P	N	G	V	I	A	N	A	L	V	S	Q	K	F	F	G	M	R	
UniRef90_K0NMP4	A	I	A	I	L	L	T	L	L	S	L	G	V	K	I	R	L	G	P	P	T	L	P	A	F	F	L	S	P	N	V	F	K	L	L	S	V	S	Q	K	Y	F	F	G	M	R	
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I H A V K G I A Q Y G A L A R R L G E A M F T T L T N V N F N A A L R D R L K A
L H V C E G I G Q Y L H R A R A L G A T F F T T L T N V N F N E I K K R V Q A L
I H A L Q G L A L Y A R E G R K L G E A I F S T L T N V D F D P E V E L R E A M
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I H G L E G V A V Y A H R A R E M L D G L F T R V T N V N F D Y Q M K D Q A R E

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V H A V K G V A Q Y G A L A R G M G E A M F T T L T N V N F H A Q I R D R V K C
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I H A V K D I A R Y A A K A R E L V Y A M F T T L T N V N F N P T R F D R A R I
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UniRef90_E8RGV9 L IDYS P VVA MALA MP GF TDD V DNGQ AKT C E P V Q L E E G T I
UniRef90_L0KU78 L IEFDFSPVIEKAMQLP D L P EK PGQEL
UniRef90_B9M9C1 L IQGRNFA P VIEKALTL P P L P DNQVAQT
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UniRef90_UPI0003B5655F	T T G F F G H H T V L L G V A D K V V			L E A V K S G A I K R R F F M I	
UniRef90_E1IG05	M V G F A R K A V L L G V A D K V V			I D A V Q N G G I K R R F V V M	
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UniRef90_D6Y2R3	T V G F G R E T V L T H A D R I			I I G M V R Q G A I K R H F F L I	
UniRef90_C5BEA9	T V G F G R A T L L N A A D S V V			I D L V A Q K K L R H V F L L	
UniRef90_K6WA01	T T G F G H G A L L A A A D Q V V			A A I K S D G A L K Q H I Y L V V	
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UniRef90_G8M9A2	T V G F G R H A L L G V A D P A V			I D A V K T G A I K H F F L I	
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UniRef90_C8WJX6	T T G F F G H S A V L L G V A D T V V			I V D A V K S Q G A I S R R F F L I	
UniRef90_J6UC95	L V G F G H S A V L L G V A D Q V V			I V D A V K S G A V K R F F A L I	
UniRef90_X0SIW5	I G G F A H H T V I A L A D K V I			V D A V K S G A V K R R F F V M	
UniRef90_B5ERR7	T I G F G H H T L L G V A D K I I			V V D A V K H G D I R H F F L V I	
UniRef90_A9EP22	E V G Y G H E A I L A H A G A			V V D A V K A G K I S R R F F L I	
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UniRef90_Q2RQN9	L A G F G H K A V L L G V A D P Q I			I D A V K A G A I R R R F F L I	
UniRef90_R4KGA5	T T G F H H N F V L S I A D K V I			I V D A V K A G K I R R H I F L V V	
UniRef90_A1HPL5	T T G F H H N A V L L G L A D K I V			I E A V K A G K I R I R F F L V V	
UniRef90_K5YY32	L V G F A R E A V L L G A A Q T V V			I N D A V K A G A I K H F F L I	
UniRef90_I3CH38	T V G F G R H T L L G A A E T V V			I V N A V K Q G A I K H F F L I	
UniRef90_A8IZR3	T V G F G H K S V L S V A P Q V I			I Q A I Q E K R I E H I F L V V	
UniRef90_W2E5X1	M T G Y H H E T V L G L A P E I			I V E A V R S G A I K H F F L V I	
UniRef90_E1SQY7	T T G F A R N A L M A A P A V			I D Q V K A G N I K H F F L L	
UniRef90_L0K8W2	T T G F H H Q T V L G T A P Q I			I V E A V K E G K I S R F F V I	
UniRef90_B2JWB4	T V G F G R H T V L G V A P Q V V			I V E A V K A G A I R R H F F L V I	
UniRef90_D9RYH5	L T G F H H E T V L K I A P Q V I			I I E A V K A G K I R R R F F V I	
UniRef90_B7FZQ2	T V G F N H R V L L P L A E Q I			I D A A K S G T L S R I F L I	
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UniRef90_W4P8T8	T G F A H A Q V T A L A D K V			I E A V K S G A I R R K F F V M	
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UniRef90_K8E9A2	T T G F H H L N V L P L A P Q I			I V E A V K A G K I R R R F F V I	
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UniRef90_S3J0I5	T V G F G R Q T L L G A A D T			L I D L V S R E K L R R H I F L V	
UniRef90_E6WJC9	T V G F G R Q T L L			G A V D T L I D L V T Q E K L R H V F L V	
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UniRef90_UPI00047D7E63					
UniRef90_UPI0003601C55	T L G Y A H Q S L H S Y L N Q I			A A G I Q D G A I R R R L I V L	
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UniRef90_D9QPG7	T T G F H H Q N V L E L A P N I			V E A I K E G K I S R R F F V I	
UniRef90_L1JAK1				L V G A I K G G Q L K D V F V I	
UniRef90_Q67QN0	T T G F A D T N I L P M A D K I			L A G V K A G K I R H F F V V	
UniRef90_T1FTM7	K V G F F G H E A I L A N A G K I			L E S V E N G N L K R R F F V I	
UniRef90_I8SK36	A T G F H H S V I L S L A D K V			L V E A V K A G K I K R R F F L I	
UniRef90_UPI0002D793F4	T I G F A R N T V M G V A D T			L L G M I G K G E V K N L F L I	
UniRef90_B8BYB2	L V G F N H R A V L P L A G E V			I D A V K Q G K I S R I F L I	
UniRef90_UPI00047BBA0A	T T G F H H E T V L S L A P E I			I I D A V K A G K I A R R F F V I	
UniRef90_W1HYH5	T V G F G R Q T L L G A A D T			L I D L V S R E K L R H I F L V	
UniRef90_C0ZKM4	T T G Y H H K T V L G I A P E I			I Q A V K E G K I K R R F F V I	
UniRef90_UPI00035CC76F	T T G Y H H E T V I G L A P E I			I I D A V K A G K I R R R F F V I	
UniRef90_E6W0M1	P T G H H H S V I L S L A P Q V			I V E A V K S G K I R R R F F V I	
UniRef90_B7GKQ6	V T G F H H E T V I Q I A P E I			K Q A V K E G K I E R R F F V I	
UniRef90_B7IGS2	V T G Y S T S V I L S L A D K I			K D Y V E K G K I R H F F V V	
UniRef90_A8AB38	V T G F H H T N V L P L L D K V			I D L I N E G K I R H V F V V	
UniRef90_Q6WRT6	L T G F G R N A L M T A A P A V			I E R V K V G K I R H F Y L I	
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UniRef90_C3XC11 G Q C N D S Y S A I Q L A L S L A K E A F N C C G V N E N E L P L S T L V V S W F E Q K
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UniRef90_K7S0K5 G Q C N D S Y S A V R L A M G L A E A L G G E V N E N D L P L T M V L S W F E Q K
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UniRef90_UPI0003601C55 G Q S N D F Y S L L V F L K D L Q Q T L G L D L N A L P V S F S I A W Y E Q K
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UniRef90_UPI0002D793F4 G Q C N D A Y S A I R I A T A M A E A L G V G V N D L P L H Y A I S W F E Q K
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UniRef90_A8AB38 G Q C N N V Y S I L V I A S E L A K R L G K D L N N L P V S I V L S W M E Q K
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UniRef90_A6TWR3 G Q C N N S G S A K I A I A L A D A F E C C T V N D L P L T I V L S W F E Q K
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UniRef90_V4JMW5 G Q C N D A Y G A I V A A L A L A E A F D C S V N D L P L T L V I S W F E Q K
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UniRef90_Q7M961 G Q C N D S N G A V K I A L A L S S A L G V P L N D L P V S I V L M W M E Q K
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UniRef90_G0EHG6 G
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G V C G K S A V E A G L Q D V L
P E I S N L Q D L L

M C C M C T Y G R C N L A E G R R G A C G I D I R S N T A R F T A
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I I I H E L L S N K H K G A L I L K D M A K V G K V K K N Q K P K Q E H R N I D I
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I G E D K D F T P V I
I S A D K D G Y K D F S E I I D K A L E L G G F K E S E E P
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490 500 510 520

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570 580 590 600

A A A I L W S L L S L D L K M Y I G P I L P G W A N E D I V K F L V D N Y

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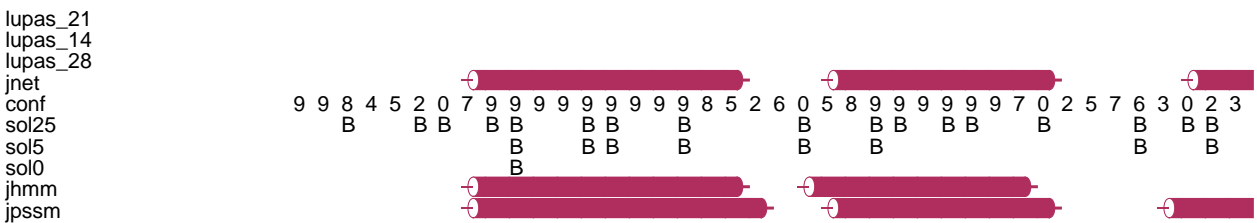
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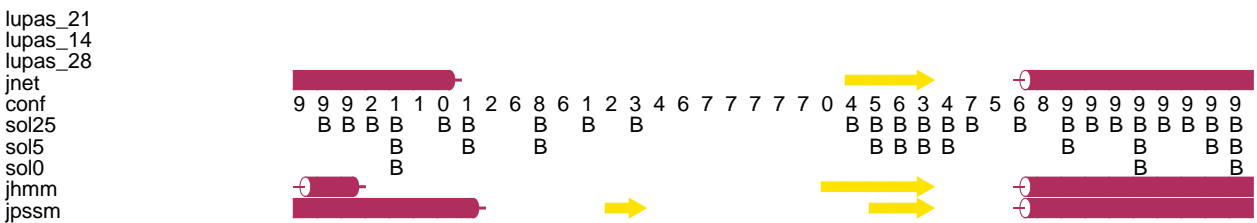
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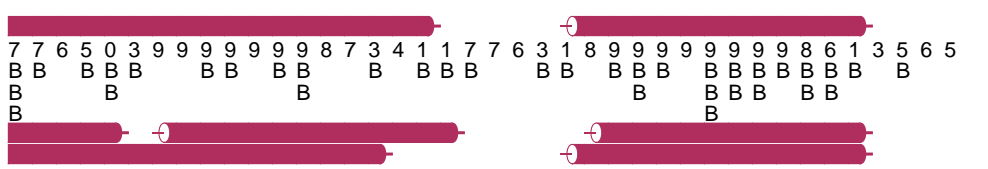
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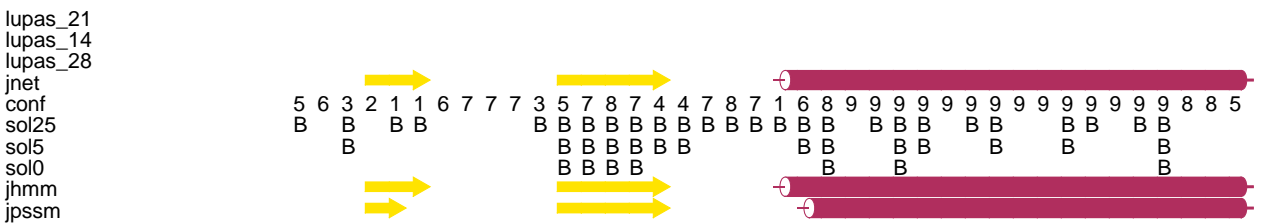


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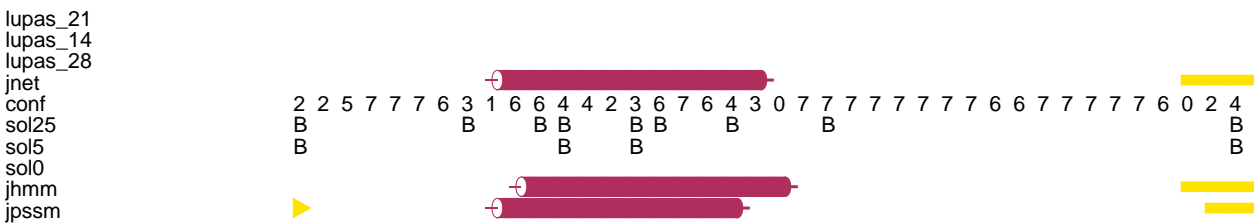
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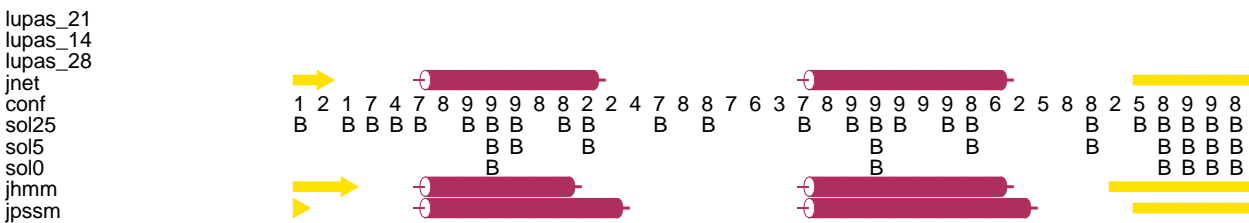
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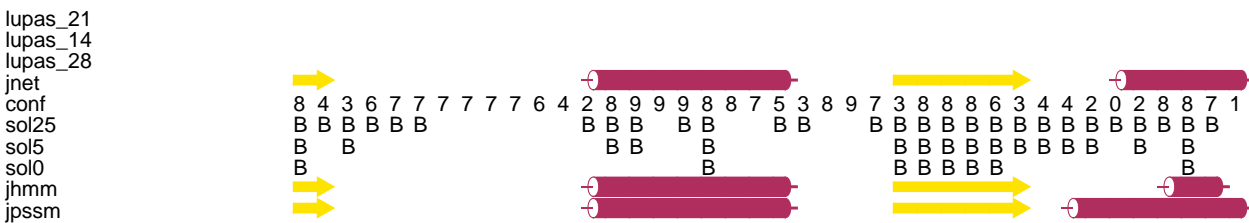
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