

QUERY UniRef90_R1CPT3 UniRef90_E3HCF9 UniRef90_C6PX94 UniRef90_H2J7F2 UniRef90_R7BSC4 UniRef90_B0K268 UniRef90_B0PDC2 UniRef90_R9KZ84 UniRef90_UPI00036BD50 UniRef90_UPI000479AD84 UniRef90_D1AJ83 UniRef90_W5K1F6 UniRef90_V7I254 UniRef90_A8SJ66 UniRef90_U7VDI4 UniRef90_K2G8Z7 UniRef90_F5SE64 UniRef90_H3NDR0 UniRef90_D7N8Y4 UniRef90_A4IMQ0 UniRef90_R5CWJ1 UniRef90_R6XBX8 UniRef90_L8J9Q8 UniRef90_A0A023DAC7 UniRef90_UPI00028A1643 UniRef90_B4KFG8 UniRef90_M4ARE2 UniRef90_UPI0004696638 UniRef90_UPI0002B4CF1F UniRef90_UPI0002B4CF1F

50 60 70 80
L F R R A K E E I V S R R E N N G G A V P A T T I I G I L L D N G G K K I V A G M S E E E E L L E E F F M M R T
T A L R N V E E K I I V R R E N N G G A V P A T T I I G I L L D N G G K K I V A G M S E E E E L L E E F F M M R T
T A A L N V E E K I I V R R E N N G G A V P A T T I I G I L L D N G G K K I V A G M S E E E E L L E E F F M M R T
T A L L S T V E E K I I V R R E N N G G A V P A T T I I G I L L D N G G K K I V A G M S E E E E L L E E F F M M R T
T A K T L E E N I V R R E H N G G A V P A T T I I G I L L D N G G K K I V A G M S E E E E L L E E F F M M R T
T A L N V E E K I I V R R E N N G G A V P A T T I I G I L L D N G G K K I V A G M S E E E E L L E E F F M M R T
T A L K E L E E R I V R R E V G G A V P A T T I I G I L L D N G G K K I V A G M S E E E E L L E E F F M M R T
T A L K V E E A I V R R E V G G A V P A T T I I G I L L D N G G K K I V A G M S E E E E L L E E F F M M R T
T A K E V E A I V R R A K G G V T P A T T I V G I L L D D G T I H H V V G G L L S S S S K K E E E E L L E E F F M M R T
T A L T V E E D E I R K N G G A V P A T T M A I I L K G G R I K I V A G M S E E E E L L E E F F M M R T
T A L E V E E K I V R R E N N G G A V P A T T I I G I L L D N G G K K I V A G M S E E E E L L E E F F M M R T
T A L K V E E I V R R E N N G G A V P A T T I I G I L L D N G G K K I V A G M S E E E E L L E E F F M M R T
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T A L L V E E Q T I R R E N G G A V P A T T I I A I I D G G R L K K A V A G M S E E E E L L E E F F M M R T
T A L E C E K I V R R S N G G A V P A T T I I A I I K G G K L C V V G G L L T T E E Q I E E Y I L A K K
T A L K V E E Q L I V R T S N G A V P A T T I I A I I N D G G R I K I V A G M S E E E E L L E E F F M M R T
T A K E V E E Q L I C E N G G A V P A T T I I A I I L D G G Q Q I K T I V G G L L S T S Q S D E E L E M E R L A R R
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T A L L V E E A D I V R R A E N G G A T P A T T I I G V V G E I C V C V G G L L S T S Q S D E E L E M E R L A R R
T A K E V E E A I V R R A E N G G A T P A T T I I G V V G E I C V C V G G L L S T S Q S D E E L E M E R L A R R
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M A R E V E E Q Q I V R R E N N G G A V P A T T I I A I V I V D G G K K I V A G M S D D E E L L E E F F M M G S
V A L Q V E E Q K I V R R E N N G G A V P A T T I I A I V I V D G G K K I V A G M S D D E E L L E E F F M M G S
T A K E V E E Q I V R R E N N G G A V P A T T I I A I V I V D G G K K I V A G M S D D E E L L E E F F M M G S
T A R A V E E Q D I V R R D N N G G A V P A T T I I A I V I V D G G R L K K A V A G M S L L S S P E E E L L E E F F M M G S
T A L K V E E E I V R R Q N N G A V P A T T I I A I V I V D G G R L K K A V A G M S L L S S P E E E L L E E F F M M G S
V A L E V E E K I I A R R E N N G I V P A T T I I G I L L D N G G K K I V A G M S L L S S P E E E L L E E F F M M G S
T A R E V E E D I I R R E K G G A V P A T T I I A I L L D N G G K I K I V A G M S L L S S P E E E L L E E F F M M G S
T A K E C C E D I I R R K G G A V P A T T I I A I L L D N G G K I K I V A G M S L L S S P E E E L L E E F F M M G S
T A L N V E E Q I I K K G G A V P A T T I I A I I I K G G K L K V V A G M S L L S S P E E E L L E E F F M M G S
T A L R V E E Q K I V R D S G G A I P A T T I I A I I I K G G R L K K A V A G M S L L S S P E E E L L E E F F M M G S
T A L K V E E E T I V R R D R N G G A V P A T T I I A I I I D G G K M K A V A G M S L L S S P E E E L L E E F F M M G S
V A K N V E E E T I V R R E R N G G A V P A T T I I A I I I D G G K M K A V A G M S L L S S P E E E L L E E F F M M G S
T A L K V E E Q T V R R D N G G A I P A T T I I A I I I Q D G G R L K K A V A G M S L L S S P E E E L L E E F F M M G S
T A L Q V E E A Q V R R D S Y N G A V P A T T I I A I I I M E G G K L K A V A G M S L L S S P E E E L L E E F F M M G S
M A L E V E E Q C I V R R D N N G A V P A T T I I A I I I M E G G R M K A V A G M S L L S S P E E E L L E E F F M M G S
T A L T V E E K T V R R E N N G A V P A T T I I A I I I K G G V P T V L V G G L L S S E E E E L L E E H L L A G K
T A K Q V E E T V R R K E N N G A V P A T T I I A I I I D D G G V P H P H G G L L N T K E E E L L E E K L L A S K
T A L Q V E E R I I R R D N N G A V P A T T I I A V L L G G R L K A V A G M S L L S S P E E E L L E E F F M M G S
M A V E V E E R I I R R D G G A V P A T T I I A V L L H G G R P R I T I G G L L T T P E E D L E E L L A T
T A K K V E E Q T V R R D N N G A I P A T T I I A M I Q Q G G R L K K I V A G M S L L S S P E E E L L E E F F M M G S
S A L N S E E K N I R R S N N A V P A T T I I A I I I K G G R I K K I V A G M S L L S S P E E E L L E E F F M M G S
T A R E V E E A I V R R S H G A V P A T T I I A I I I N G R I R V V G G L L S S A S E E L L E E F F M M G S
M A N D V E E A I V R R N H G A V P A T T I I G F M D G G Q I K I V A G M S L L S S A S E E L L E E F F M M G S
T A K Q L E E A I V R R A N G A I P A T T I I A I I I D D G G V P C I C V G G L L S S P E E E L L E E F F M M G S
T A L N V E E Q V I R R D N N G A I P A T T I I A I I I D G G K L V V V G G L L S S N S H Q Q I E E H L L A G K
T A K L V E E Q T V L D S G G A V P A T T I I A I I I D G G R L K K I V A G M S L L S S H D E E L L E E D Q L L A K
T A L E V E E A V I R R K N G A V P A T T I I A I I I D G G K C I C V G G L L T T K E E Q L E E F F M M G S
T A K R C E I V R R E N N G A V P A T T I I A I I I N G G R L K K I V A G M S L L S S P E E E L L E E F F M M G S
M A K T V E E Q L I R D N N G A V P A T T I I A I I I M D G G K Y K I V A G M S L L S S E D D E L L E E R L A T
T A K R V E E D Q I R R K Y G G A T P A T T I I C I I D D G G I T H H V V G G L L N D Q E E L L E E D K F F G K
T A L A V E E V V R R S Q G G A V P A T T I I A I I I M D G G I T I K V V G G L L N T K E E E L L E E C L L A K
T A K E V E E A L V R R E N N G A V P A T T I I A I I I D G G V P C I C V G G L L N N A Q L E E R L L A K
V A R E V E E T V Q T N N G S V P A T T I I G V I N G G C I H H V V G G L L Q S K E E E L L E E Y L L A G K
T A L Q V E E Q I V R R D N N G A V P A T T I I A I I I K G R L K K I V A G M S L L S S K E E E L L E E Y L L A G K
T A K K V E E D M I R R E G G A V P A T T I I A I I I V K G G K L K V V G G L L T E E E E L L E E M F L L G Q
F A H K V E E A I I R R E E G G A V P A T T I I G I L D D G G K M K I V A G M S L L S S N D E S E E L L E E R M F A K
M A K E V E E Q I V R R D N N G A V P A T T I I G I I M D G G K I K I V A G M S L L S S D E S E E L L E E N F A N
T A L Q V E E A I V R R K N N G A I P A T T I I A V I T N G G R M K A V A G M S L L S S K Q Q E I L L E E T N F A N K
T A K E V E E K L V R R E N N G A V P A T T I I A I I I H K G R M K A V A G M S L L S S T D K G E Q I L L E E Y L L A T
T A L L V E E E T I R R E S G G A I P A T T I I A I I I K G R L K K I V A G M S L L S S T D K G E Q I L L E E Y L L A T
M A K T V E E N T I R R E G G A V P A T T I I A I I I M D G G R I K K I V A G M S L L S S D E G E S L E E K L L G N
M A R D V E E I I R R D N N G A V P A T T I I A I I I D G G R I K K I V A G M S L L S S D E E E L L E E F F A K
T A K A V E E I I R R K E G G A T P A T T T A I I I N G R I K K I V A G M S L L S S S E E E L L E E K F M A T
T A K E V E E Q I I R D H G A V P A T T I I A I I I D G G Q I K I V A G M S L L S S D E E E L L E E V L L G N
M A K K V E E I I R E E G A V P A T T I I A I I I M D G G R I K K I V A G M S L L S S D D E E L L E E T L L A K
T A V G V E E T C V R R D A G A V P A T T V A V L L R G K L C V C V G G L L S S D D E E L L E E Q F L A S D
M A K K V E E Q T I R R D N N G A T P A T T I I A I I I M D G G K I K I V A G M S L L S S N E N D E L L E E T L L A N
M A N K V E E Q L I R R D N N G A V P A T T I I A I I I D D G G K I K I V A G M S L L S S E K D D E L L E E T L L A T
M A R E V E E Q I V R R D N N G A V P A T T I I A I I I D D G G K I K I V A G M S L L S S K D D E L L E E L L F A T
T A L Q V E E E E V R R Q A N G A I P A T T I I G I L L D G G C I R V V G G L L T G E E E L L E E K E L L A R
M A S T V E E N T I R R E N N G A V P A T T I I A I I I L D G G V L K K V V G G L L T T K E E L L E E Q Y L L A T
T A R E V E E V V R R H N G A V P A T T V A V L L K G R I H H V V G G L L S S D E E L L E E Q Y L L A T
M A K H C E A I I R R E H G A V P A T T I I A I I I M D G G R I K I V A G M S L L S S D E E L L E E K I L L A T
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T A L E I E D I L R R E N N G V M P A T T I I G I I T D G G R I K I V A G M S L L S S T K E E E L L E E F L L G S Q
T A L A V E E Q I I R R D N N G A I P A T T I I A I I I V K G V V V G G L L S S L E K D D E L L E E Q Q L L S S
T A L A V E E N I I R R D N N G A F P A T T I I A V S G G R I K I V A G M S L L S S L E K D D E L L E E Q Q L L S S
T A Q L V E E Q L V S D N G A L G A T I I A I I T D G G R I K I V A G M S L L S S T T E E M E K I A K

QUERY	E	G	A	D	K	V	G	T	R	E	L	P	L	V	V	A	E	G	K	I	N	G	A	T	T	V	S	A	T	L	F	L	S	R	R	L	G	I	E	V	V	F	
UniRef90_R1CPT3	D	N	I	A	K	A	S	R	R	R	D	L	P	F	I	I	A	K	K	I	N	G	A	T	T	V	S	A	T	M	I	I	S	A	S	A	L	A	G	I	K	V	F
UniRef90_E3HCF9	T	G	A	V	K	T	S	R	R	R	D	L	P	F	I	I	A	K	K	I	N	G	A	T	T	V	S	A	T	M	I	I	S	A	S	A	L	A	G	I	K	V	F
UniRef90_C6PX94	K	N	V	I	K	T	S	R	R	R	D	L	P	F	I	I	A	K	K	I	N	G	A	T	T	V	S	A	T	M	I	I	S	A	S	A	L	A	G	I	K	V	F
UniRef90_H2J7F2	K	G	V	M	K	V	S	R	R	R	D	L	P	F	V	V	A	K	K	I	N	G	A	T	T	V	S	A	T	M	I	I	S	A	S	A	L	A	G	I	K	V	F
UniRef90_R7BSC4	K	G	E	P	K	V	S	R	R	R	D	L	P	F	V	V	A	K	G	Q	S	A	A	T	T	V	S	A	T	M	Y	I	A	H	L	A	G	I	K	D	V	F	
UniRef90_B0K268	K	G	E	I	L	K	A	S	R	R	R	D	L	P	V	V	A	K	G	E	D	G	A	T	T	V	S	A	T	M	I	L	C	A	N	L	A	G	I	K	V	F	
UniRef90_B0PDC2	K	G	V	T	K	A	S	R	R	R	D	L	P	V	V	A	K	G	E	D	G	A	T	T	V	S	A	T	M	I	L	C	A	N	L	A	G	I	K	V	F		
UniRef90_R9KZ84	T	G	V	P	K	V	S	R	R	R	D	L	P	L	V	V	A	K	G	M	D	G	A	T	T	V	S	A	T	M	I	L	C	A	N	L	A	G	I	K	V	F	
UniRef90_UPI00036BD650	H	G	I	P	K	A	S	R	R	R	D	L	P	Y	L	I	S	T	K	H	H	G	A	T	T	V	S	A	T	M	I	L	C	A	N	L	A	G	I	K	V	F	
UniRef90_UPI000479AD84	K	S	I	V	K	A	S	R	R	R	D	L	P	Y	L	I	A	N	K	L	D	G	A	T	T	V	S	A	T	M	I	I	A	K	M	A	G	I	K	V	F		
UniRef90_D1AJ83	E	G	L	I	K	V	S	R	R	R	D	L	P	Y	V	I	A	N	K	L	N	G	A	T	T	V	S	A	T	M	I	V	A	A	M	A	G	I	K	V	F		
UniRef90_W5K1F6	K	T	A	L	K	V	S	R	R	R	D	L	P	Y	V	I	A	N	K	L	N	G	A	T	T	V	S	A	T	M	I	A	A	H	R	A	G	I	K	V	F		
UniRef90_V7I254	K	D	V	V	K	C	S	R	R	R	D	L	P	F	V	V	S	G	K	K	D	G	A	T	T	V	S	A	T	M	I	A	A	E	M	A	G	I	K	V	F		
UniRef90_A8SJ66	A	G	V	T	K	T	S	R	R	R	D	L	A	Y	V	I	A	N	K	L	N	G	A	T	T	V	S	A	T	M	I	C	A	E	M	A	G	I	K	V	F		
UniRef90_U7VDI4	K	G	V	T	K	A	S	R	R	R	D	L	P	A	I	L	A	S	E	D	D	G	A	T	T	V	S	A	T	M	I	I	A	A	L	A	G	I	K	V	F		
UniRef90_K2G8Z7	E	G	V	A	K	V	S	R	R	R	D	L	P	N	V	V	A	M	K	K	L	G	A	T	T	V	S	A	T	M	I	C	A	E	M	A	E	I	E	M	F		
UniRef90_F5SE64	E	E	V	L	K	V	S	R	R	R	D	L	P	Y	V	I	A	N	K	Q	D	G	A	T	T	V	S	A	T	M	I	L	A	E	W	A	G	I	K	D	V	F	
UniRef90_H3NDR0	K	P	V	A	K	V	S	R	R	R	D	L	P	I	L	A	S	A	N	G	K	L	G	A	T	T	V	S	A	T	M	I	G	A	H	L	A	G	I	K	V	F	
UniRef90_D7N8Y4	K	D	I	T	K	C	S	R	R	R	D	L	P	Y	I	L	A	N	K	L	N	G	A	T	T	V	S	A	T	S	I	I	T	A	S	L	A	G	I	K	L	L	
UniRef90_A4IMQ0	S	G	D	I	E	K	V	S	R	R	R	D	L	P	Y	V	V	A	N	K	K	H	G	A	T	T	V	S	A	T	M	L	C	A	A	M	A	G	I	N	V	F	
UniRef90_R5CWJ1	K	S	V	A	K	T	S	R	R	R	D	L	P	A	A	L	V	A	R	K	A	D	G	A	T	T	V	S	A	T	T	M	M	I	A	H	M	A	G	I	S	I	F
UniRef90_R6XBX8	E	G	V	V	K	T	S	R	R	R	D	L	P	V	I	V	A	E	E	L	N	G	A	T	T	V	S	A	T	M	Y	I	A	S	L	V	G	I	K	I	F		
UniRef90_L8J9Q8	S	G	V	V	K	V	S	R	R	R	D	L	P	Y	V	I	A	S	K	S	D	G	A	T	T	V	S	A	T	M	I	L	C	A	N	M	A	G	I	K	V	F	
UniRef90_UPI00023DAC7	K	E	I	E	K	V	S	R	R	R	D	L	P	Y	V	I	A	S	M	K	H	H	G	A	T	T	V	S	A	T	M	I	L	C	A	N	M	A	G	I	K	V	F
UniRef90_UPI00028A1643	K	D	V	A	K	A	S	R	R	R	D	L	M	A	Y	L	L	A	T	K	K	I	G	A	T	T	V	S	A	T	M	I	A	A	E	L	A	G	I	E	L	F	
UniRef90_B4KFG8	K	P	V	I	K	C	S	R	R	R	D	L	P	Y	V	V	K	M	G	Q	S	G	G	T	T	V	S	A	T	M	I	V	A	H	R	V	G	I	P	I	F		
UniRef90_M4ARE2	K	S	P	L	K	V	S	R	R	R	D	L	P	Y	V	V	K	M	G	Q	S	G	G	T	T	V	S	A	T	M	I	A	A	H	R	A	G	I	P	I	F		
UniRef90_UPI0004696638	Q	S	V	E	K	V	S	R	R	R	D	F	P	Y	L	S	T	G	K	I	G	A	T	T	V	S	A	G	T	M	I	A	A	E	L	A	G	I	E	V	F		
UniRef90_UPI0002B4CF1F																																											
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QUERY	V	T	G	G	T	G	G	V	H	P	G	R	V	D	I	V	S	Q	D	L	L	T	M	E	L	L	S	S	S	R	A	V	L	V	S	S	G	I	K	S	I	L	D	D	I	V			
UniRef90_R1CPT3	V	T	G	G	T	G	G	V	H	P	G	R	V	D	I	V	S	Q	D	L	L	T	M	E	L	L	S	S	S	R	A	V	L	V	S	S	G	I	K	S	I	L	D	D	I	V			
UniRef90_E3HCF9	A	T	G	G	I	G	G	V	H	R	R	G	T	F	D	I	V	S	S	A	D	L	L	Q	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_C6PX94	A	T	G	G	I	G	G	V	H	R	R	G	T	F	D	I	V	S	S	A	D	L	L	Q	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_H2J7F2	A	T	G	G	I	G	G	V	H	R	R	G	T	F	D	I	V	S	S	A	D	L	L	Q	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_R7BSC4	A	T	G	G	I	G	G	V	H	R	R	G	T	F	D	I	V	S	S	A	D	L	L	Q	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_B0K268	V	T	G	G	I	G	G	V	H	R	R	G	T	F	D	I	V	S	S	A	D	L	L	Q	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_B0PDC2	A	T	G	G	I	G	G	V	H	R	R	G	T	F	D	I	V	S	S	A	D	L	L	Q	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_R9KZ84	A	T	G	G	I	G	G	V	H	R	R	G	T	F	D	I	V	S	S	A	D	L	L	Q	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_UPI00036BD650	A	T	G	G	I	G	G	V	H	R	R	G	T	F	D	I	V	S	S	A	D	L	L	Q	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_UPI000479AD84	V	T	G	G	I	G	G	V	H	R	R	G	T	F	D	I	V	S	S	A	D	L	L	K	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_D1AJ83	A	T	G	G	I	G	G	V	H	R	R	G	T	F	D	I	V	S	S	A	D	L	L	K	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_W5K1F6	V	T	G	G	I	G	G	V	H	R	R	D	G	E	D	I	V	S	S	A	D	L	L	D	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_V7I254	A	T	G	G	I	G	G	V	H	R	R	G	T	F	D	I	V	S	S	A	D	L	L	D	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_A8SJ66	A	T	G	G	I	G	G	V	H	R	R	G	T	F	D	I	V	S	S	A	D	L	L	D	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_U7VDI4	A	T	G	G	I	G	G	V	H	R	R	G	T	F	D	I	V	S	S	A	D	L	L	D	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_K2G8Z7	V	T	G	G	I	G	G	V	H	R	R	G	T	F	D	I	V	S	S	A	D	L	L	D	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_F5SE64	V	T	G	G	I	G	G	V	H	R	R	G	T	F	D	I	V	S	S	A	D	L	L	D	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_H3NDR0	V	T	G	G	I	G	G	V	H	R	R	G	T	F	D	I	V	S	S	A	D	L	L	D	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_D7N8Y4	V	T	G	G	I	G	G	V	H	R	R	G	T	F	D	I	V	S	S	R	D	L	L	Q	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_A4IMQ0	A	T	G	G	I	G	G	V	H	R	R	G	T	F	D	I	V	S	S	A	D	L	L	Q	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_R5CWJ1	A	T	G	G	I	G	G	V	H	R	R	G	T	F	D	I	V	S	S	A	D	L	L	Q	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_R6XB8	A	T	G	G	I	G	G	V	H	R	R	G	T	F	D	I	V	S	S	A	D	L	L	D	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_L8J9Q8	A	T	G	G	I	G	G	V	H	R	R	G	T	F	D	I	V	S	S	A	D	L	L	Q	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_A0A023DAC7	A	T	G	G	I	G	G	V	H	R	R	G	T	F	D	I	V	S	S	A	D	L	L	Q	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_UPI00028A1643	V	T	G	G	I	G	G	V	H	R	R	G	T	F	D	I	V	S	S	A	D	L	L	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V	
UniRef90_B4KFG8	A	T	G	G	I	G	G	V	H	R	R	N	T	L	D	I	V	S	S	A	D	L	L	V	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_M4ARE2	V	T	G	G	I	G	G	V	H	R	R	N	T	L	D	I	V	S	S	A	D	L	L	V	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_UPI0004696638	A	T	G	G	I	G	G	V	H	R	R	N	T	L	D	I	V	S	S	A	D	L	L	T	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_UPI0002B4CF1F	V	T	G	G	I	G	G	V	H	R	R	D	G	E	D	I	V	S	S	A	D	L	L	T	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_UPI0002B4CF1F	V	T	G	G	I	G	G	V	H	R	R	D	G	E	D	I	V	S	S	A	D	L	L	T	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_W0Q1L2	V	T	G	G	L	G	G	V	H	R	R	G	W	E	D	I	V	S	S	A	D	L	L	D	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_C7BNE2	A	T	G	G	I	G	G	V	H	R	R	G	T	F	D	I	V	S	S	A	D	L	L	Q	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_R9C4T5	V	T	G	G	I	G	G	V	H	R	R	E	T	F	D	I	V	S	S	A	D	L	L	Q	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_K2KM90	A	T	G	G	I	G	G	V	H	R	R	G	N	F	D	I	V	S	S	A	D	L	L	T	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_X2H0W6	A	T	G	G	L	G	G	V	H	R	R	G	T	F	D	I	V	S	S	A	D	L	L	Q	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_D1AXK7	A	T	G	G	I	G	G	V	H	R	R	N	T	F	D	I	V	S	S	A	D	L	L	Q	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_UPI000300FFD2	V	T	G	G	I	G	G	V	H	R	R	G	T	F	D	I	V	S	S	A	D	L	L	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V	
UniRef90_D1VTT6	V	T	G	G	L	G	G	V	H	R	R	G	T	F	D	I	V	S	S	R	D	L	L	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V	
UniRef90_R6TS79	A	T	G	G	I	G	G	V	H	R	R	G	T	F	D	I	V	S	S	A	D	L	L	D	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_UPI0002E4D007	A	T	G	G	I	G	G	V	H	R	R	G	A	E	D	I	V	S	S	A	D	L	L	D	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_C8W8Y6	A	T	G	G	I	G	G	V	H	R	R	G	T	F	D	I	V	S	S	A	D	L	L	Q	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_A9BJN0	V	T	G	G	I	G	G	V	H	R	R	N	T	F	D	I	V	S	S	A	D	L	L	Q	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_U4K8N9	A	T	G	G	I	G	G	V	H	R	R	G	S	F	D	I	V	S	S	A	D	L	L	Q	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_F8EZ94	A	T	G	G	I	G	G	V	H	R	R	E	T	F	D	I	V	S	S	A	D	L	L	Q	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_D3VEL8	A	T	G	G	I	G	G	V	H	R	R	G	T	F	D	I	V	S	S	A	D	L	L	Q	E	E	L	L	S	S	N	T	N	V	A	V	V	C	A	G	A	K	S	I	L	D	D	I	V
UniRef90_R5FJX1	A	T	G	G	I	G	G	V	H	R	R	G	T	F	D	I	V	S	S	A	D	L	L	E	E	L	L	S</																					

QUERY	E	V	L	K	I	Y	E	S	M	K	E	M	E	L	E	K	T	L	M	V	L	N	P	V	P	E	E	Y	E	P	H	D	E	I	E	R	L											
UniRef90_R1CPT3	K	E	L	A	T	A	I	K	T	K	W	D	L	D	L	K	G	G	L	M	V	L	N	P	V	P	E	E	Y	Q	M	D	Y	D	I	I	N	N	A	L								
UniRef90_E3HCF9	K	E	L	S	D	A	L	K	A	K	W	E	L	G	L	K	N	G	G	M	V	I	A	N	P	I	P	E	E	Y	Q	M	D	Y	D	I	I	N	N	A	L							
UniRef90_C6PX94	R	E	L	S	D	A	L	K	A	K	W	D	L	G	L	K	N	G	G	L	I	V	A	N	P	I	P	E	E	Y	Q	M	D	Y	D	I	I	N	N	A	L							
UniRef90_H2J7F2	E	E	I	L	A	E	F	L	K	A	K	W	A	L	N	L	K	G	G	G	A	V	I	A	N	P	I	P	E	E	Y	Q	M	D	Y	D	I	I	N	N	A	L						
UniRef90_R7BSC4	E	E	E	L	A	A	A	Y	Y	A	K	N	Q	V	G	L	K	N	G	G	M	L	V	A	N	P	I	P	P	D	E	Y	A	M	D	A	D	Y	I	N	Q	N	I	A	L			
UniRef90_B0K268	I	E	A	A	K	I	I	K	T	K	W	D	L	G	L	K	N	G	G	V	L	I	A	N	P	I	P	P	K	E	Y	A	M	D	A	D	Y	I	N	Q	K	A	I	L				
UniRef90_BOPDC2	K	E	L	A	A	F	K	A	K	N	D	L	G	L	R	G	G	M	V	V	A	N	P	I	P	P	E	E	Y	A	M	D	A	D	Y	I	N	Q	K	A	I	L						
UniRef90_R9KZ84	G	E	L	A	T	A	F	H	V	K	Q	K	V	L	G	K	G	G	M	L	V	A	N	P	I	P	P	E	E	Y	A	S	M	D	P	D	V	I	N	K	A	I	L					
UniRef90_UPI00036BD650	G	E	L	A	E	L	I	K	T	K	W	D	L	G	L	K	N	G	G	V	V	V	A	N	P	I	P	P	E	E	A	E	S	M	D	E	A	M	I	N	G	E	L	I	L			
UniRef90_UPI000479AD84	K	T	M	A	Q	L	I	Y	D	K	W	A	M	G	L	K	N	G	G	V	V	I	A	N	P	I	P	P	Q	E	Y	E	L	N	P	D	F	I	N	K	A	I	L					
UniRef90_D1AJ83	K	E	L	A	D	I	I	T	A	K	W	E	M	G	L	K	N	G	G	V	V	I	A	N	P	I	P	V	E	Y	S	M	D	Y	D	E	I	N	S	K	A	I	L					
UniRef90_W5K1F6	E	E	A	A	E	L	I	A	S	T	L	S	L	G	L	Q	S	G	V	L	L	A	V	A	N	P	I	P	P	E	E	H	A	A	A	G	Q	E	I	E	G	A	I	L				
UniRef90_V7I254	D	E	I	A	E	S	L	N	A	K	W	S	M	G	L	D	G	G	A	I	I	A	N	P	I	P	P	A	E	E	Y	A	M	D	K	A	N	V	I	D	R	A	I	L				
UniRef90_A8SJ66	E	E	I	A	K	V	L	K	A	K	W	D	L	E	L	N	K	G	G	V	V	I	A	N	P	I	P	P	E	E	F	A	S	M	D	F	N	L	I	D	K	T	A	I	L			
UniRef90_U7VDI4	E	E	Q	I	A	K	T	L	K	A	K	W	D	V	N	L	N	K	G	G	V	V	I	A	N	P	I	P	P	E	E	F	A	S	M	D	F	N	L	I	D	K	T	A	I	L		
UniRef90_K2G8Z7	E	E	I	A	E	T	L	K	A	K	W	D	L	G	L	Q	G	G	A	V	I	A	N	P	I	P	P	E	E	E	D	A	M	D	E	S	Y	I	N	G	I	I	A	I	L			
UniRef90_F5SE64	E	E	I	A	R	L	H	V	K	W	S	L	G	L	K	G	G	V	V	V	A	N	P	I	P	P	P	E	E	E	D	A	M	D	E	S	Y	I	N	G	I	I	A	I	L			
UniRef90_H3NDR0	E	E	Q	I	A	D	A	M	H	A	S	E	L	G	L	K	G	G	M	L	V	A	N	P	I	P	P	T	E	H	E	L	P	H	E	V	I	D	D	A	V	I	A	I	L			
UniRef90_D7N8Y4	A	E	I	A	N	T	A	S	T	K	W	E	L	K	L	S	G	G	V	L	V	A	N	P	I	P	P	E	E	D	A	M	D	E	N	L	I	N	S	A	I	A	I	L				
UniRef90_A4IMQ0	E	E	I	A	Q	F	I	E	T	K	W	A	L	G	L	D	G	G	L	V	A	N	P	I	P	P	Q	E	E	D	E	L	E	S	Y	I	D	S	A	I	A	I	L					
UniRef90_R5CWJ1	E	E	E	A	A	E	L	A	M	F	K	A	Q	R	G	L	K	G	G	M	L	V	A	N	P	I	P	P	E	E	E	S	M	D	K	A	V	I	D	S	A	I	A	I	L			
UniRef90_R6XBX8	E	E	I	A	K	T	L	K	T	K	W	D	L	G	L	S	G	G	V	L	I	A	N	P	I	P	P	A	K	Y	S	L	D	E	K	V	M	N	D	S	A	I	A	I	L			
UniRef90_L8J9Q8	E	Q	V	A	R	L	I	N	T	K	W	D	M	G	L	K	N	G	G	V	V	V	A	N	P	I	P	P	E	D	Y	A	M	E	K	S	R	M	N	D	S	V	I	A	I	L		
UniRef90_A0A023DAC7	E	E	E	M	A	K	L	I	A	T	K	W	E	L	G	L	N	K	G	G	L	V	I	A	N	P	I	P	P	K	E	D	E	L	E	K	S	Y	I	D	S	A	I	A	I	L		
UniRef90_UPI00028A1643	E	E	V	A	K	V	L	R	A	K	W	N	L	N	L	E	G	G	A	V	I	A	N	P	I	P	P	E	E	D	A	L	D	H	S	F	I	T	N	I	A	I	A	I	L			
UniRef90_B4KFG8	H	A	A	Q	L	L	R	A	W	Q	L	N	L	N	L	Q	S	G	V	L	I	G	V	A	N	P	P	A	E	E	H	A	A	D	K	S	H	I	Q	E	A	I	D	E	A	M	I	L
UniRef90_M4ARE2	S	E	A	A	E	L	I	A	S	T	L	S	L	G	L	E	S	G	V	L	I	A	V	A	N	P	P	P	E	E	H	A	A	A	G	S	A	Q	I	L	D	E	A	A	M	I	L	
UniRef90_UPI0004696638	Q	E	I	A	K	V	M	D	T	K	W	K	L	E	L	K	G	G	L	V	I	A	N	P	I	P	P	E	E	E	H	A	L	P	F	T	E	M	E	S	I	A	I	L				
UniRef90_UPI0002B4CF1F	E	E	A	A	K	L	I	D	S	A	L	G	L	G	L	S	S	G	V	L	I	A	V	A	N	P	P	Q	Q	E	R	A	A	E	G	Q	A	I	E	E	E	A	I	A	I	L		
UniRef90_UPI0002B4CF1F	E	E	A	A	K	L	I	D	S	A	L	G	L	G	L	S	S	G	V	L	I	A	V	A	N	P	P	Q	Q	E	R	A	A	E	G	Q	A	I	E	E	E	A	I	A	I	L		
UniRef90_W0Q1L2	Q	H	I	A	K	T	I	K	T	K	W	E	L	G	L	K	G	G	M	V	V	A	N	P	I	P	P	E	E	Y	A	L	D	P	E	Y	I	D	N	I	A	I	A	I	L			
UniRef90_C7BNE2	E	Q	I	A	Q	V	M	A	T	K	W	A	T	G	L	Q	G	G	L	V	I	A	N	P	I	P	P	E	Q	Y	A	M	P	E	E	Y	I	N	A	I	A	I	A	I	L			
UniRef90_R9C4T5	K	E	A	A	Q	M	I	Q	T	K	W	A	T	G	L	E	G	G	V	V	I	A	N	P	I	P	P	E	K	D	A	L	E	E	K	Y	I	T	E	L	A	I	A	I	L			
UniRef90_K2KM90	E	E	L	A	A	F	L	S	S	K	W	E	F	G	L	E	G	G	A	V	I	A	N	P	I	P	P	E	A	D	K	A	L	A	R	E	A	I	E	G	A	I	A	I	L			
UniRef90_X2H0W6	Q	Q	I	A	E	M	I	K	T	K	W	N	L	G	L	N	G	G	V	V	I	A	N	P	I	P	P	E	Q	Y	A	M	E	K	V	I	S	Q	A	I	A	I	A	I	L			
UniRef90_D1AXK7	K	E	F	A	K	L	I	K	T	K	W	N	L	G	L	N	G	G	V	V	I	A	N	P	I	P	P	E	Q	Y	A	M	D	F	D	T	I	T	N	A	I	A	I	L				
UniRef90_UPI000300FFD2	N	E	I	A	A	T	L	K	T	K	W	D	L	K	L	K	G	G	V	V	V	A	N	P	I	P	P	E	E	Y	A	M	D	E	T	L	I	T	N	V	I	A	I	L				
UniRef90_D1VTT6	K	D	A	A	D	L	A	R	T	Q	W	N	L	G	L	K	T	G	I	L	F	E	T	N	P	I	P	P	Y	Q	A	S	M	D	E	K	V	I	N	K	A	I	A	I	L			
UniRef90_R6TS79	D	E	I	A	K	M	L	K	V	K	W	D	L	G	L	N	K	G	G	V	L	I	T	N	P	I	P	P	Y	Q	A	S	M	D	E	N	L	M	N	E	A	I	A	I	L			
UniRef90_UPI0002E4D007	Q	Q	I	A	D	A	L	K	A	K	W	A	M	S	L	E	G	G	A	I	I	A	N	P	I	P	P	K	E	H	A	M	A	N	E	D	T	D	H	V	I	A	I	A	I	L		
UniRef90_C8W8Y6	A	E	L	A	E	I	F	T	T	Q	Q	G	I	G	M	S	G	G	L	L	V	A	N	P	I	P	P	E	Q	Y	A	M	D	K	D	T	I	D	A	A	I	A	I	L				
UniRef90_A9BJN0	K	E	I	A	S	I	M	T	T	K	W	D	L	G	L	N	K	G	G	L	I	F	I	A	N	P	I	P	P	K	E	Y	S	L	D	F	E	E	I	D	D	K	T	A	I	L		
UniRef90_U4K8N9	E	Q	I	A	I	A	L	K	A	K	W	E	L	G	L	N	K	G	G	A	V	I	A	N	P	I	P	P	E	Q	Y	A	M	N	K	A	E	I	D	E	V	I	A	I	A	I	L	
UniRef90_F8EZ94	R	Q	E	I	A	E	V	L	K	K	W	K	T	G	L	A	G	G	V	V	I	A	N	P	I	P	P	E	V	I	A	L	P	E	K	S	E	I	D	R	V	I	A	I	L			
UniRef90_D3VEL8	R	Q	I	A	Q	A	M	K	V	K	W	H	S	G	L	K	G	G	L	V	I	S	N	P	I	P	P	E	S	F	A	M	P	E	D	Q	I	N	D	A	I	A	I	L				
UniRef90_R5FJX1	E	E	I	A	A	V	K	A	K	D	A	L	G	L	S	G	G	M	L	V	A	N	P	I	P	P	E	E	Y	S	M	D	P	D	K	I	E	A	V	I	A	I	A	I	L			
UniRef90_U5D9P4	E	E	E	C	A	R	L	I	D	S	E	K	L	G	M	G	C	G	I	L	F	E	G	V	A	N	P	P	E	E	H	A	A	S	G	S	L	I	E	S	A	I	A	I	L			
UniRef90_R5HCE0	E	E	E	L	A	K	V	L	K	T	H	H	T	L	G	L	K	G	G	I	L	V	A	N	P	I	P	P	Q	A	Y	S	M	D	A	D	A	L	N	A	V	I	A	I	A	I	L	
UniRef90_S2YZU3	A	E	I	A	A	V	M	H	A	R	W	D	L	G	I	P	G	G	V	S	I	A	N	P	I	P	P	E	D	E	E	V	P	A	E	R	M	D	G	V	I	A	I	A	I	L		
UniRef90_H3NK23	E	E	I	A	S	R	M	K	L	S	E																																					

QUERY	K	L	A	G	E	I	A	V	K	L	K
UniRef90_R1CPT3	K	V	G	A	K	L	A	A	E	L	S
UniRef90_E3HCF9	K	L	A	A	E	L	S	K	E	L	A
UniRef90_C6PX94	A	L	G	A	E	L	A	V	E	L	L
UniRef90_H2J7F2	K	L	A	A	L	I	A	K	S	L	L
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UniRef90_BOPDC2	K	V	A	T	Q	L	A	C	E	L	S
UniRef90_R9KZ84	A	L	A	A	K	T	A	V	E	L	S
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UniRef90_UPI000479AD84	R	V	G	S	A	I	A	V	E	L	Q
UniRef90_D1AJ83	K	L	A	S	E	I	A	A	L	L	S
UniRef90_W5K1F6	K	V	G	S	E	I	A	C	A	L	S
UniRef90_V7I254	K	V	A	S	W	I	A	V	G	L	S
UniRef90_A8SJ66	K	L	A	S	K	I	A	L	E	Y	S
UniRef90_U7VDI4	K	L	A	S	E	I	A	K	N	Y	S
UniRef90_K2G8Z7	R	V	G	S	R	I	A	L	S	L	L
UniRef90_F5SE64	R	V	G	A	E	L	A	V	Q	L	A
UniRef90_H3NDR0	K	L	G	A	Q	I	A	A	Q	Y	L
UniRef90_D7N8Y4	K	V	G	A	Q	I	A	R	E	L	L
UniRef90_A4IMQ0	V	L	A	A	D	L	A	R	A	L	S
UniRef90_R5CWJ1	R	L	A	A	K	T	A	A	E	F	L
UniRef90_R6XB8	K	L	A	A	Q	T	A	K	L	L	S
UniRef90_L8J9Q8	M	L	A	A	Q	I	A	I	S	L	L
UniRef90_A0A023DAC7	V	L	A	A	K	I	A	A	N	L	K
UniRef90_UPI00028A1643	K	V	G	A	Q	I	A	K	A	L	L
UniRef90_B4KFG8	S	V	A	A	Q	I	A	C	E	L	L
UniRef90_M4ARE2	K	V	G	S	Q	I	A	C	A	L	S
UniRef90_UPI0004696638	K	V	A	A	Q	I	A	V	A	L	K
UniRef90_UPI0002B4CF1F	R	V	G	S	C	I	A	V	A	L	S
UniRef90_UPI0002B4CF1F	R	V	G	S	C	I	A	V	A	L	S
UniRef90_W0Q1L2	K	V	G	A	Q	L	A	V	S	Y	L
UniRef90_C7BNE2	E	L	A	A	K	L	A	C	H	Y	L
UniRef90_R9C4T5	E	V	G	S	R	M	A	V	E	L	N
UniRef90_K2KM90	R	L	G	A	K	T	A	A	A	M	L
UniRef90_X2H0W6	K	L	A	S	E	I	A	K	N	Y	S
UniRef90_D1AXK7	R	L	A	A	E	I	A	K	E	F	L
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UniRef90_D1VTT6	K	L	G	A	E	V	A	K	Y	L	L
UniRef90_R6TS79	L	L	A	A	K	I	A	K	A	Y	Q
UniRef90_UPI0002E4D007	A	L	A	S	K	I	A	V	A	Y	L
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UniRef90_U4K8N9	K	L	A	A	Q	V	A	L	L	S	L
UniRef90_F8EZ94	A	L	A	G	Q	I	A	A	S	L	L
UniRef90_D3VEL8	K	L	A	A	Q	I	A	I	A	Y	Q
UniRef90_R5FJX1	A	L	A	A	K	I	A	V	K	L	L
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UniRef90_R5HCE0	K	L	A	A	Q	T	A	V	A	Y	S
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UniRef90_H3NK23	R	L	G	A	K	I	A	V	A	Y	Q
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UniRef90_D2VCY1	R	V	G	A	Q	I	A	V	E	L	S
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UniRef90_UPI0004625959	R	V	G	S	R	L	A	V	A	L	N
UniRef90_Q2SM69	K	L	A	A	Q	T	A	K	L	L	S
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UniRef90_R6MRB1	H	A	A	S	K	I	A	V	A	Y	S
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UniRef90_UPI00035FAF25	K	V	G	T	Q	I	A	V	S	F	N
UniRef90_B4N0R6	R	V	A	G	Q	I	A	K	E	M	K
UniRef90_UPI000376CC06	K	V	A	A	N	I	A	K	D	L	A
UniRef90_UPI0004573F4A	K	V	G	S	R	I	A	C	A	L	A
UniRef90_R7G923	K	L	G	A	K	L	A	V	A	Y	L
UniRef90_UPI00036AB6B2	V	L	A	A	R	I	A	K	G	L	S
UniRef90_F9DNZ2	A	L	A	A	K	L	A	V	S	F	N
UniRef90_E3DMS3	I	V	G	A	K	I	A	N	A	F	A
UniRef90_J9HWT6	K	L	G	S	Q	I	A	V	A	L	S
UniRef90_E7C706	S	L	G	A	K	I	A	L	A	Y	K
UniRef90_A0A034WEN1	T	V	A	A	Q	I	A	S	R	E	L

	1	10	20	30	40
UniRef90_V3ZS63		L	S	V	S
UniRef90_UPI0003808558	Y	L	D	I	H
UniRef90_UPI0003F0C8FF		F	C	V	H
UniRef90_A1ZZP4		H	L	H	S
UniRef90_D6XX37	Y	L	V	L	S
UniRef90_Q3AFY5	Y	L	V	L	S
UniRef90_UPI0004412DBC		I	D	I	H
UniRef90_G9RWE2	Y	L	S	I	T
UniRef90_UPI0002628FDB		L	A	L	F
UniRef90_E0QHD6	L	K	F	I	D
UniRef90_P33025		L	Q	I	S
UniRef90_UPI0002EA23A1	F	L	K	F	T
UniRef90_K1LP45		I	K	I	S
UniRef90_S8DX86		I	K	I	S
UniRef90_K2J2M1	Y	L	E	I	A
UniRef90_E7MNF4		R	T	N	E
UniRef90_UPI00037EF46E	Y	L	D	I	Q
UniRef90_UPI00036569FF	Y	L	L	L	S
UniRef90_N9VNZ6		Y	L	D	I
UniRef90_R6VX81	L	D	Y	L	D
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UniRef90_M1BR03		L	I	K	I
UniRef90_I1G5E6	N	F	L	N	I
UniRef90_UPI0003503B05	Y	F	R	I	S
UniRef90_UPI00047E5C84	Y	L	Q	L	T
UniRef90_UPI0003B5B419		H	L	S	A
UniRef90_W3ACX4		Y	S	T	E
UniRef90_UPI00035F7BD1	K	R	F	Y	D
UniRef90_F4P7S6		R	I	S	D
UniRef90_A3TPX8		L	A	L	A
UniRef90_R6F0A5	D	H	L	D	V
UniRef90_UPI00036B21F3	K	Y	L	E	I
UniRef90_W9SEU4		I	K	V	S
UniRef90_S9QYH6	L	S	S	L	A
UniRef90_R5FS11		L	K	I	S
UniRef90_L5NB15	Y	L	S	L	E
UniRef90_UPI000346B4F7	Y	L	E	F	S
UniRef90_UPI00036B8124		F	V	I	T
UniRef90_S2JQG0		K	Y	L	E
UniRef90_D9TQG9	F	F	K	V	G
UniRef90_UPI0002B4898A		F	L	D	I
UniRef90_UPI00036CEC12		Y	I	Q	F
UniRef90_UPI0002D68A18		L	S	I	S
UniRef90_B6K3M3		L	N	I	S
UniRef90_R6QZQ6		L	D	V	H
UniRef90_UPI000455F09D		L	V	L	T
UniRef90_M5AT77		I	R	V	A
UniRef90_D8RP78		H	P	F	V
UniRef90_UPI00034FFBC9	M	F	H	L	Q
UniRef90_UPI00037A6144	N	K	Y	L	D
UniRef90_G4KW02		Y	L	D	I
UniRef90_R5AFF5		L	D	I	A
UniRef90_C1E9L8		R	H	F	H
UniRef90_UPI0003C3A7C3		L	R	I	S
UniRef90_Q1M4T3	N	K	Y	I	R
UniRef90_UPI00041E54C8		I	V	V	A
UniRef90_B6T7U3		D	Y	L	D
UniRef90_UPI00035D7C0C	K	M	N	Y	V
UniRef90_R6AJ87		Y	I	D	I
UniRef90_UPI00047D0BA8		L	V	L	A
UniRef90_L0A3M9		L	D	I	S
UniRef90_W5JU66		L	Q	L	S
UniRef90_W6JW17		L	N	I	A
UniRef90_A0A058ZRB3		M	K	Y	L
UniRef90_UPI0003602405		L	V	L	S
UniRef90_G2I3V1		F	S	E	P
UniRef90_UPI0003602405	M	K	I	N	P
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UniRef90_R7FKE1		F	F	D	Y
UniRef90_V4Y4H3	N	K	Y	L	D
UniRef90_UPI00026C79A3		F	F	D	Y
UniRef90_X6MW00		N	L	F	K
UniRef90_F5YQ89	K	Y	L	D	I
UniRef90_G9YQR0		Y	L	V	V
UniRef90_R9MSM9		F	K	V	H
UniRef90_W5NGW7		S	S	D	I
UniRef90_UPI00022C9BA9		L	D	I	A
UniRef90_G0QN58		L	A	L	T
UniRef90_NOE5M8		L	D	I	A
UniRef90_Q7QFW5		M	H	F	S
UniRef90_UPI0003A0A4C		Y	S	D	E
UniRef90_D3B6J5		L	H	I	H
UniRef90_UPI00041628B8		L	R	L	T
UniRef90_E9UPX5	Y	L	D	Y	S
UniRef90_UPI000465CBD4		I	R	Y	S
UniRef90_V9VSC8		L	H	Y	S
UniRef90_A3VE37		D	Y	L	A
UniRef90_B7ID34		Y	L	D	I
UniRef90_W9H3K8		R	A	L	H
UniRef90_UPI000258F354		Y	L	D	I
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UniRef90	50	60	70	80
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UniRef90_UPI0003F0C8FF	TALLV	REH	AVLL	NGRGRV
UniRef90_A1ZZP4	TALWQLVEKVI	REAGGAV	AVLL	LDGGRK
UniRef90_D6XX37	TAEDELVI	RQAGGAV	AVLL	LDGGRK
UniRef90_Q3AFY5	TALLAVS	RQAGGAV	AVLL	LDGGRK
UniRef90_UPI0004412DBC	TALLS	RQAGGAV	AVLL	LDGGRK
UniRef90_G9RWE2	FAAEV	REAGGAV	AVLL	LDGGRK
UniRef90_UPI0002628FDB	TARAV	RQAGGAV	AVLL	LDGGRK
UniRef90_E0QHD6	MAKAVE	RQAGGAV	AVLL	LDGGRK
UniRef90_P33025	TAIEV	RQAGGAV	AVLL	LDGGRK
UniRef90_UPI0002EA23A1	MARKEV	RQAGGAV	AVLL	LDGGRK
UniRef90_K1LP45	MARTV	RQAGGAV	AVLL	LDGGRK
UniRef90_S8DX86	TAKQV	RQAGGAV	AVLL	LDGGRK
UniRef90_K2J2M1	TALLK	RQAGGAV	AVLL	LDGGRK
UniRef90_E7MNF4	TALLK	RQAGGAV	AVLL	LDGGRK
UniRef90_UPI00037EF46E	TALLEV	RQAGGAV	AVLL	LDGGRK
UniRef90_UPI00036569FF	TAREV	RQAGGAV	AVLL	LDGGRK
UniRef90_N9VNZ6	TARRV	RQAGGAV	AVLL	LDGGRK
UniRef90_R6VX81	MAKN	RQAGGAV	AVLL	LDGGRK
UniRef90_UPI00034FDA2E	MAKEV	RQAGGAV	AVLL	LDGGRK
UniRef90_M1BR03	TAKEL	RQAGGAV	AVLL	LDGGRK
UniRef90_I1G5E6	TALLEV	RQAGGAV	AVLL	LDGGRK
UniRef90_UPI0003503B05	MARV	RQAGGAV	AVLL	LDGGRK
UniRef90_UPI00047E5C84	TARV	RQAGGAV	AVLL	LDGGRK
UniRef90_UPI0003B5B419	TAEV	RQAGGAV	AVLL	LDGGRK
UniRef90_W3ACX4	TAREV	RQAGGAV	AVLL	LDGGRK
UniRef90_UPI00035F7BD1	VAGV	RQAGGAV	AVLL	LDGGRK
UniRef90_F4P7S6	TALLEV	RQAGGAV	AVLL	LDGGRK
UniRef90_A3TPX8	MAREV	RQAGGAV	AVLL	LDGGRK
UniRef90_R6FOA5	TALLAV	RQAGGAV	AVLL	LDGGRK
UniRef90_UPI00036B21F3	TALLQV	RQAGGAV	AVLL	LDGGRK
UniRef90_W9SEU4	TAKAV	RQAGGAV	AVLL	LDGGRK
UniRef90_S9QYH6	MALLEV	RQAGGAV	AVLL	LDGGRK
UniRef90_R5FSI1	TALLNA	RQAGGAV	AVLL	LDGGRK
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UniRef90_UPI0002B4898A	TALKV	RQAGGAV	AVLL	LDGGRK
UniRef90_UPI00036CEC12	MARV	RQAGGAV	AVLL	LDGGRK
UniRef90_UPI0002D68A18	MAKN	RQAGGAV	AVLL	LDGGRK
UniRef90_B6K3M3	MALH	RQAGGAV	AVLL	LDGGRK
UniRef90_R6GZQ6	TALLM	RQAGGAV	AVLL	LDGGRK
UniRef90_UPI000455F09D	MARV	RQAGGAV	AVLL	LDGGRK
UniRef90_M5AT77	MATEV	RQAGGAV	AVLL	LDGGRK
UniRef90_D8RP78	TAEV	RQAGGAV	AVLL	LDGGRK
UniRef90_UPI00034FFBC9	TALLV	RQAGGAV	AVLL	LDGGRK
UniRef90_UPI00037A6144	TALKV	RQAGGAV	AVLL	LDGGRK
UniRef90_G4KW02	TALLNV	RQAGGAV	AVLL	LDGGRK
UniRef90_UPI0003455FF5	FAAEV	RQAGGAV	AVLL	LDGGRK
UniRef90_C1E9L8	MAREV	RQAGGAV	AVLL	LDGGRK
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UniRef90_UPI00041E54C8	TAREV	RQAGGAV	AVLL	LDGGRK
UniRef90_B6T7U3	MAMEV	RQAGGAV	AVLL	LDGGRK
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UniRef90_R6AJ87	TALLA	RQAGGAV	AVLL	LDGGRK
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UniRef90_R5ZAS8	CALLAV	RQAGGAV	AVLL	LDGGRK
UniRef90_R7FKE1	TALLAV	RQAGGAV	AVLL	LDGGRK
UniRef90_V4Y4H3	TALLK	RQAGGAV	AVLL	LDGGRK
UniRef90_UPI00026C79A3	TAAA	RQAGGAV	AVLL	LDGGRK
UniRef90_X6MW00	TAAQR	RQAGGAV	AVLL	LDGGRK
UniRef90_UPI0003602405	CALLAV	RQAGGAV	AVLL	LDGGRK
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UniRef90_UPI0003A04A4C	MARKEV	RQAGGAV	AVLL	LDGGRK
UniRef90_D3B6J5	TALLV	RQAGGAV	AVLL	LDGGRK
UniRef90_UPI00041628B8	TAREV	RQAGGAV	AVLL	LDGGRK
UniRef90_E9UPX5	MATEV	RQAGGAV	AVLL	LDGGRK
UniRef90_UPI000465CBD4	MAREV	RQAGGAV	AVLL	LDGGRK
UniRef90_V9VSC8	VAAQ	RQAGGAV	AVLL	LDGGRK
UniRef90_UPI0003602405	CALLAV	RQAGGAV	AVLL	LDGGRK
UniRef90_A3VE37	TAREV	RQAGGAV	AVLL	LDGGRK
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UniRef90_UPI000258F354	TALLV	RQAGGAV	AVLL	LDGGRK
UniRef90_J7U4V1	MALLEV	RQAGGAV	AVLL	LDGGRK
UniRef90_UPI0003602405	CALLAV	RQAGGAV	AVLL	LDGGRK

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UniRef90_D8TVS8		L Q V S	K E V E	Q S A L	L K E G
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UniRef90_Q0FA44		D I L H	K D V L	L N S L	N N G T
UniRef90_T0PJ38	M H Q	L K M S	R A D V	E A A L	L R D G
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UniRef90_Q1J1H4		M D L H	P E V V	A A A L	T A G H
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UniRef90_E9HD67		L E I S	S D V V	T Q A L	L R N N
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UniRef90_K1ZKD9		L N I S	P A V V	K N A F	Q K N I
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UniRef90_U2UAT9	K	H L V V	S P E E	V Q D A	L D N N
UniRef90_F2QXB8		L V V S	P E E V	Q H A V	K N N I
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T A L E V E E S I L V R S Y N G G A I V P A T T I A G I L N D G T V A I H I G G L L T T S E E K E E E H Y L L A Q
T A L E V E E R N L V R S Y N G G A I V P A T T I A G I L N D G T V A I H I G G L L T T S E E K E E E H Y L L A Q
T A K E S E V E N N I V R D S A G G A I V P A T T I A A I I I K N G G V A I I I G G L M L M Q L Q L P V Q Q L F F A G R D D
T A R E S E V E N N I V R D S A G G A I V P A T T I A A I I I K N G G V A I I I G G L M L M Q L Q L P V Q Q L F F A G R D D
T A L E N V E N N I V R R K S Q G G A I V P A T T I A A I I I K N G G V A I I I G G L M L M Q L Q L P V Q Q L F F A G R D D
M A S S V E E A L I V Y D Y G G A I V P A T T I A A I I I K N G G V A I I I G G L M L M Q L Q L P V Q Q L F F A G R D D
M A T K V E E A S I V R R D N S G G A I V P A T T I A A I I I K N G G V A I I I G G L M L M Q L Q L P V Q Q L F F A G R D D
T A K E V E E A S I V R R D N S G G A I V P A T T I A A I I I K N G G V A I I I G G L M L M Q L Q L P V Q Q L F F A G R D D
M A T G V E E E T L V R R E N K G G A I V P A T T I A A V L D D G G G R L K R V A I I I G G L L L L T K S Q D A D E E L D D R L L A Q
T A L G V E E E E I V R R N D L G G A I V P A T T I A I V T N Q G G R L K R A A I I I G G L L L L T K S Q D A D E E L D D R L L A Q
T A H D V E E E K I R D R L G G A I V P A T T I A I V M D D G G V L K K I H V I I G G L L L L S G T A D E E L D D R L L A Q
T A R Q V E E A D I R R E N G G A I V P A T T I A I V M D D G G V L K K I H V I I G G L L L L S G T A D E E L D D R L L A Q
M A K A V E E E E I R R S R Q G G A I V P A T T I A A V I V D D G G V L K K I H V I I G G L L L L S G T A D E E L D D R L L A Q
T A R E V E E E E I R R S R Q G G A I V P A T T I A A V I V D D G G V L K K I H V I I G G L L L L S G T A D E E L D D R L L A Q
T A Q R V V Q I I V R E H R A T V P A T T I A A I I I N G G K L R I V I I G G L G L L T K T E E E L E E L W L L A K S
T A K E V E E S Q I L V R R D L N G G A I V P A T T I A G I V L D D G G K L R K V V I I G G L L L L T G A D E E L E E L V E R L L A
L A S R L E E S L V R L N G G A I V P A T T I A G I V L D D G G K L R K V V I I G G L L L L T G A D E E L E E L V E R L L A
T A E G L E E S A V R S A G G A I V P A T T I A A V I V D D G G L T R I V I I G G L L L L T S T A K A D E E L Q L D F L S T K
T A L K V E E A T V I K A N A G G A I V P A T T I G I I I N G E G R V H I I I G G L L L L T S T A K A D E E L Q L D F L S T K
T A L R V E E A T V I K A N A G G A I V P A T T I G I I I N G E G R V H I I I G G L L L L T S T A K A D E E L Q L D F L S T K
A M L Q V E E Q I I R E Q Q G G A I V P A T T I A I K K G G E L L I I I G G L L L L T S T A K A D E E L Q L D F L S T K
M A L E V E E E I R D Q Q G G A I V P A T T I A I M N Q G G R I K I I I G G L L L L T S T A K A D E E L Q L D F L S T K
C A L E V E E E C V R D Q Q G G A I V P A T T I A I M N Q G G R I K I I I G G L L L L T S T A K A D E E L Q L D F L S T K
L A S L L E S V V R K N G G A I V P A T T I A V F D G G V A R V I I I G G L L L L T S T A K A D E E L Q L D F L S T K
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L A N E V E E H V I R D D N G G A I V P A T T I A I F I N G G K S P K V I I G G L L L L T S T A D E E L D R L L A Q
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M A Q K V E E A D V I R E Q E G G A I V P A T T I A V I M G G R I L H I I I G G L L L L T S T A D E E L D R L L A Q
M A A D V E E A I T Q E G G A I V P A T T I A I V D G G R I L H I I I G G L L L L T S T A D E E L D R L L A Q
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M A L S V E E K I V H E A C A T P A T T I G M V D D G G H I I T G E M L T G E D A D M L K R L L A Q
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L A L D L E E I V R K N G G A I V P A T T I G V L D D G V A R V I I G G L L L L T S T A D E E L D R L L A Q
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L A S R L E S L V R I N G G A I P A T T I G I L D G G I A R V I I G G L L L L T S A G A D E L L F F R L L A Q
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V A R Q V E E D D I R A N G G A I P A T T I A V I V D G G T L H I I I G G L L L L T S L E D D A Q L E G Q L L A Q
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L S T R L E S L V R L N G G A I P A T T I G I L D D G V A R V I I G G L L L L T S G A D D A M V R L L G S N
T A R A R E V V R D A G A I P A T T I A V L H G V P T V I I G G L L L L T S G A D D A M V R L L G S N
L A L D L E S I V R S T G A I P A T T I G M I G G R V K V I I G G L L L L T S L E K S Q L L E R L L A Q
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L A Q D I E A V I R A H G A I P A T T I C M L N G G K A V V I I G G L L L L T S S K E E M E Q M T D
T A L S V E E N I R S A G A I P A T T I C I K D D G A I H I I I G G L L L L T S S R A D H E E D L A Q
T A K R L E A V V R A A G A I P A T T I A V L D G G R V K I I I G G L L L L T S D D S D Q L L E L L A Q
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90 100 110 120
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U N I R E F 9 0 _ T 0 P J 3 8 L G A T K C S T R R D I L A S V V A S N G A T T G A T T V S S A T M R I A H A A G I D V V F F
U N I R E F 9 0 _ A 9 T W E 2 L G A T K I S T R R D I L A H V I A K Q A T T G A T T V S S A T M F F A A A K V G I S V V F F
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U N I R E F 9 0 _ U 2 U A T 9 P P K H K T S R R R D I L P Y V V A R G L T G G A T T V S A A T M M L S K M A G I K V F F F
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U N I R E F 9 0 _ A 9 D 6 F 3 S G V V K L S R R D I L G P A I A E M K R D G G T T V S C S T T I F A A L A G I K N C
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K E K V D G I L G K D V T P F V L L K N V N D L T K G A G S L R A N I A L I Q N N A
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E Q A L V Q E G I T G G K D V T P F V L L K R G R V V G E L L T T K G G K S S L L E K A N N I V A L I Q N N A
R T Q A L Q E G I T G G K D V T P F V L L K R G R V V R T E L L T T T G G G R S S L L E A N N I V A L I Q N N A
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U n i R e f 9 0 _ Q 0 F A 4 4
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A D A L K G I V T S G K A V T P F Y L L A R L V L D E V L S T S S Q G G A S S L L A T N I V A L I Q N N A
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Q Q A E E G V R S G D K E V T P F Y L L A G S L I K D E L L T T T Q G G K S T L E A N I V A L I Q N N A
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U n i R e f 9 0 _ F 2 Q X B 8
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V A N E L E E D I I R Q D N G A V P A T T I I G I V D A G G R L Q Q V V V G G L L F L S T K E A E L L E L S E Q F L L A A E
M A R Q S V E E K S V I E D A C G G A V P A T T I I A I L I N G G V P Q V V V G G L L S T S E S A D R E E L L E L S E D F F L L A A E
T A Q S V E E Q A V R R S E E G G A V P A T T I I G V I N D G G V I K V V V G G L L S T S E S A D R E E L L E L S E D F F L L A A E
T A L E V E E Q T I R D S E E G G A V P A T T I I G V I N D G G V I K V V V G G L L S T S E S A D R E E L L E L S E D F F L L A A E
T A K S V E E E A V R R S E E G G C E P A T T I I A L I M N D G G N I R V V V G G L L M N E A A D D E L L E L S E D F F L L A A E
T A L A V E E C V R R H E G G A V P A T T I I G I M N D G G N I R V V V G G L L M N E A A D D E L L E L S E D F F L L A A E
T A L N V E E K T V E Q N N G A V P A T T I I A I I T D G G R I K K V V V G G L L N S P N D E L L E L S E D F F L L A A E
T A K R V E E Q Q I V V R D E N Q N G A V P A T T I I A V I D D G G R I K K V V V G G L L N S T P D Q E L L E L S E D F F L L A A E
T A Q T V E E Q V I V R R E N Q N V T P A T T I I A V L D D G G K I K V V V G G L L T T D K A E R V A L L A A Q Q K R N
M A E G V E E Q I I R E E R A T P A T T I I A V I D D G G R I K K V V V G G L L T T D K A E R V A L L A A Q Q K R N
M A R E V E E A L I R R E N Q G A V P A T T I I A F I K G V P K V V V G G L L T D A T A E E L L E L S E D F F L L A A E
T A L E V E S V V N E Y G S I P A T T I I G I L D G E T I I V G G L L S Q D E I E E T Q L L A A G K L A A E
M A K N A S L I R R N N H A V P A T T I I A F M N G G V P K V V V G G L L S L E K H E I E L Q L L A A G D G L A A E
T A I S C E E N V R A N G A V P A T T I I A L L N G G K L H V V V G G L L S L E E L E I E L E L L A A Q L A A E
T A L T I K T V R A N G G A V P A T T I I A I I N G G R I K V V V G G L L S P K N E L Q L L A A Q L A A E
T A R E V E E K L V S A R E N G A V P A T T I I A V M D G G H C C V V V G G L L S T K D E L L E L S E D F F L L A A E
V G L E L E D T V R R E N G A V P A T T I I A V L D D G G R P R R L A A G L L S T K K E E I V D Y S T A A E
T A L K V E E Q T I R E N N G A V P A T T I I A V I G G K L R A A G L L S T K K E E I V D Y S T A A E
M V N D N E K K I R A N N A V P A T T I I G L L N G G V I K V V V G G L L S T K D E I V K F S T A A E
T A R A M E Q A I R E E N G A I P A T T I I G L L D G K I K I V V V G G L L S T K D E I V K F S T A A E
F A L A V E E Q T V R D N G A V P A T T I I G F F E G G K G V V V V G G L L A S K E Q I L T Y L A A E T A A E
L A R E I E E Q A D V R D A G A V P A T T I I A I V D G G R A R I V V V G G L L S D D E A L R A T L A A I A A E
T A Q Q V E E A D V R D A G A V P A T T I I A V L A G A L H H V V V G G L L S D D E A L R A T L A A I A A E
M A A Q V E E Q D I R D A G A V P A T T I I A V M A G K I H H V V V G G L L S D D N E P Q Q L L E K Q L L A A E
T A R G V E E T V V R E N G G A V P A T T I I A V V A G K I K V V V G G L L S D D N E P Q Q L L E K Q L L A A E
T A L R V E N A I R K G G V V P A T T I I G I J D G K I H H V V V G G L L S D D N E P Q Q L L E K Q L L A A E
T A R A V E A E V R A A G A V P A T T I I A I M D G G R M H H V V V G G L L S T G T E L E E T V L A A Q E
V A R S L E A A T V R A A G A V P A T T I I A V M G G R V H H V V V G G L L S T E S D E Q L L E S E L L A A E
M A Q N V E E K V I R D N G A V P A T T I I A I M D G G R F A V V V G G L L T S E A D L I S E R L A A L
V A N E I E E N I V R E N G A V P A T T I I G I V D G G K H H V V V G G L L M N A K D D E L L E L S R S R L A A E
L A A R L E E L V R Q H G G V V P A T T I I G I L D D G G V A R V V V G G L L S M A K D D E L L E L S R S R L A A E
T A R A V E E D V V R G Q G A V P A T T I I A I L D D G I P H H V V V G G L L A T S D E Q L L H S L S L A A E
M A L E V E E Q L I R A D E G A V P A T T I I A I M D G G V I C C V V V G G L L S S D K E E L L E E W L A A E
T A R S V E E S Q V R Q A G A V P A T T I I A V I E G G R L H H V V V G G L L S S G A E E L L E A L A A E
T A R Q L E E D D V R Q A G A V P A T T I I A V I E G G R L H H V V V G G L L S S G A E E L L E A L A A E
L A S Y L E E S L V R T A H G G V V P A T T I I G I L N G G R A I V V V G G L L S P E A E D L L E L Q L L A A E
M A N R V E E D M V R A H G A T P A T T I I A V I E G G R I K V V V G G L L S D Q D A L L K T V L A A E
T A L E V E E Q T V R Q K G A V P A T T I I G V V N G G R V K V V V G G L L S T S D E L L K V I L A A E
T A L T V E E I V R D S Q D C I P A T T I I A I Y D G G R I K V V V G G L L S D E Q Q L L R I R V L A A E
L A K N L Q K I V R S H N N A V P A T T I I A L L D D G K V H H V V V G G L L S N E Q Q L L R I R V L A A E
T A R R V E A I V R A G G A V P A T T I I A V L D D R R I R I V V V G G L L D D A D G L L E R R L A A T A A E
L A L G L E E Q V V R R D N G G V V P A T T I I G F I D G G E I C V V V G G L L M T K K D E L L E V R L A A E
T A K S V E E N I V R R T G G A V P A T T I I G I I D G G R V K V V V G G L L S T E K H E L L E L L A A E
T A L A V E E K I V E E T G A T P A T T I I A V M K G G K V C V V V G G L L S E K Q E L L Q D L L A A E
T A R A V E E D L I R E N G A V P A T T I I A I M D G G K I R V V V G G L L S T A D D E L L E R L L A A E
T A R Q V E A T I R E A G A T P A T T I I A I L D D G I L H H V V V G G L L S T R D Q E I F E T L L A A E
T A L S V E E Q A V R D A G A T P A T T I I A V T D G G K I R V V V G G L L S T R D Q E I F E T L L A A E
M A R E V E A T V R A R G A V P A T T I I A V I E G G V P R V V V G G L L S P D A G E L L A K L A A E
V A R E V E K I R D N K V Q P A T T I I G V I D G G R I K V V V G G L L S T E G A E L L E R L L A A E
T A R E V E A T V R A A G G V P A T T I I A V M D G G Q I R V V V G G L L S G E A E L L E R L L A A E
T A R V V E N L V R S Q G A I P A T T I I M G I T G G R I K V V V G G L L S H P S N A I E R L L A A E
T A L A I E K A V R D A G A V P A T T I I V A I A V I D G G R F A V V V G G L L S D E S G R L E A L A A E
M A R E V E A T V R E A G A V P A T T I I A V I D G G A L H H V V V G G L L S D E S G R L E A L A A E
T A R A V E E D A V R E S G A T P A T T I I M A V V N D G G K L R V V V G G L L S D A V A L E G L L A A E
L A L H L K D L V R S H G A T P A T T I I V G V V V N G G V A T V V V G G L L S D A E A L T L L A A E
T A R R V E A E V W A H G A V P A T T I I M A V M G G R I H H V V V G G L L S T E A E L L D S L G Q
M A L A V E E E V R R A G G A V P A T T I I A V L D D G G C L R V V V G G L L N R D E Q L L E Q V L A A E
M A L S V E E K T I R E E G G I V P A T T I I C A F L L G G I P H H V V V G G L L T D A Q I L E Q V L A A E
T A L K V E E S C V R E N G A V P A T T I I A I I K G R L K A G G L L S A E E E L L D Y F G K S
E D L G L E S T V R H G A V P A T T I I A I I D D G T P T V V V G G L L M T S P A E E R D R I V S
V A R A C E T L I R Q N G A V P A T T I I G M L D G G R V K V V V G G L L S D A E L L Q R I A A E
L A S H L E S V V R T M G G V P A T T I I G V L D D G G V A R V V V G G L L S T P E E L L T R I A A E
L P K E L D E A I A R A S G A I P A T T I I A I V K G R V K V V V G G L L S D D A D I L A I L A A E
T A Q K I E A V V R A E G A V P A T T I I G I E N G G R F L I V V V G G L L S T D A D I L A I L A A E
C A M E V E D L I S S K G C V P A T T I I A I I D G G Y V K V V V G G L L S T R K A E I L D K L G K
T A R K V E A Q V R A K G A V P A T T I I A V L N G D D V C V V V G G L L S T P D D Q L L S E L L A A E
T A R A V E Q D I R A D A G A V P A T T I I A V I E G G R L K V V V G G L L S D D D Q L L S E L L A A E
T A L A V E K I R D N G A V P A T T I I A I I E G G R L K A G G L L S E K E E L L D Y L G K
V A R E I E E Q L V R A H G G V P A T T I I A V I E G G K P C V V V G G L L S S D Q A D L L E L A A E
M A Q S V E E Q L V R A H G A V P A T T I I G F V N G G V A K V V V G G L L S S Q A D L L E L A A E
T A L K V E A A V R V S G S V P A T T I I G I D D G G K I L V V V G G L L M N S H Q Q I L E K F A T
T A H E A L I L E L G A E P A T T I I A L L D D G G R V V V G G L L S D D E L L E L L G R N
L S S R L E S L V R V N G G I P A T T I I G I L D D G G V A Y V V V G G L L M E P D E L L E R L L A A E
T A T A L E D A V R A E G A V P A T T I I A V L D D R R I R V V V G G L L S D S G S E A L E R L L A A E
L A A D A E A S T I R S Y G A I P A T T I I A V M D S R L I V V V G G L L S G S D D Q L L E R L L A A E
M A R R V E S E I R K N G G V P A T T I I C A F L N G I P Y V V V G G L L S G S D D Q L L E R L L A A E
T A K N V E Q A V R E S G A I P A T T I I G I D K G E F L I V V V G G L L M S D D E Q I L E K F A T
L A S R L E S T V R Q G G A V P A T T I I G V L A D G G V A R V V V G G L L M T P D A E V L A E L A A E
V A R S L E E D I V R Q N G G T P A T T I I G V L A G G V P V V V G G L L S T D E V E R M I S
T A F Q L E E V I R E K G A I P A T T I I A I L K G G Q L T V V V G G L L S K T Q L E Y L A A E
T A K L L E D V V R S E G C E P A T T I I A L L D D G K V H H V V V G G L L S R S E H L E R I S
M A V A A Q D Q I R S E G A E P A T T I I A I L D D G R A H H V V V G G L L S K E V I E L V E
V F S R L E E T V Y S N G C I P A T T I I G V L K G K V K V V G G L L S K E V I E L V E

		90	100	110	120
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UniRef90_H2W8S0	K	N A V K V S T R R D I	A K T I I K K E V G	A S T M K I A S H A A G I	I S V F F
UniRef90_C5LSI4	M	G A R K V S T R R D I	G L V V A N K K V Y	A A S T M R I A S M A G I	I S V F F
UniRef90_K3W7K7	M	G A R K V S T R R D I	A A A V T A N K V V	A A S T M R I A S H A A G I	I K I F F
UniRef90_B2WNV7	S	T T L K L S R R R D L	G Y V C G M R L T G	S G T M L L A H L A G I	I K I F F
UniRef90_K2N0P5	S	G T M K V S R R R D L	A F A L A E S G R S	A A G T M I A A R R A G I	I A V F F
UniRef90_E9CJC4	A	G A V K T S R R R D F	Q V L A S K S I G A	T M I A A H R M A G I	I P L V F
UniRef90_UPI0002C3D533	K	G V L K V S G R R D I	P Q V V S E K K W G	A T S R I A S L V G I	I K V F F
UniRef90_R4XC3	T	G A R K V S R R R D M	A C Q A D L A T G	A G T M L L A K K A G I	I D V F F
UniRef90_J9VXP0	K	G S V K V S R R R D L	A P T L A L K R T	A S G T M Y L A N S V G I	I H V F F
UniRef90_UPI000367B099	K	D V H K I S L K D L	S V A V A K K L S G	A T M F A A Y K A G I	I Q V F F
UniRef90_A0A016RZ33	S	D S M K V S R R R D L	A Y A L N K G V L	A A T M Y L A N M A N I	I K V F F
UniRef90_F2TVQ5	K	E V T K A S R R R D M	A Y V L S Q G K L	A G T M I A A H M A R I	I P V F F
UniRef90_A9NGD7	S	N V L K V S K R R D I	P Y C V T K K Y S	A T L L I A D M V G I	I K V F F
UniRef90_UPI0003645861	A	G V T K C A S R R D L	P Y V I A T Q H S	A A T M I L A A M A G I	I R I F F
UniRef90_D3HPG6	N	E L Y K A S R R R D L	S F L V A N E Y S	A A T L F C A A K A G I	I K L F F
UniRef90_UPI0004646A31	T	G A M K L S R R A D L	A F A V S Q K R T G	A A T M I A A H L A G I	I S V F F
UniRef90_UPI000365AF3B	T	D A L K V S R R R D L	A Y A V A A K K R T	A A T M I A A K L A G I	I V E S V F F
UniRef90_W0TAT5	K	G A I K V S R R R D I	A Y T M A N K L Y G	A S T M L L S E K A G I	I S V F F
UniRef90_I0GJL7	K	D V L K V S T R E I	S V A V A K G L S A	G T T V S A T S F L A	S E K A N I K V F F
UniRef90_C5DFS6	S	P I N K V S R R R D I	A Y T M A N L N F	G T T I A S T M I L A	H M A G I Q I V F F
UniRef90_X8JN45	K	A P V K V S R R R D I	A P A M S L G Q N	G T T I A G T T I I A	H L A G I K V F F
UniRef90_UPI00047191D0	K	N V L K V S K R R D I	A Y C V T K S Y D	G A T T V S A T L L I	A D M V G I K V F F
UniRef90_W7UC55	E	G A L K C A S R R D L	S W A L M T R S W	A S T L H I A H L A G I	I R T V F
UniRef90_UPI00035F4D7C	D	G I R K L S H R R D L	P L A V A T G A S	G A T T V S A T A R L	A A H L A G I R V F
UniRef90_J0N7X1	K	G V T K A S R R R D L	P V L A A R G E D T	V A A T M I V A A L	A A G I S V F A T G
UniRef90_UPI0003693603	K	D V L K I S R R S D L	A A A L T A S G K T	G A T T V S A T M L L	A A N A N I L K V F F
UniRef90_D6TNN2	K	G V R K V S R R R D L	A F T L A S G Q P	G A T T V A G T M F C	A N M A G I R F F
UniRef90_A0A024JJT9	A	K P T K V S R R R D I	P H V L S K K L L	G T T I A G T M L L	A N K V G I D V F F
UniRef90_UPI0003B3DDBE	D	D V V K V S V R R D L	A T I A L A L G G	T T V A A S T A H L	A A R A G I A I F F F
UniRef90_A4EMT6	A	N V A K V S R A D M	A A C I A T G G T	G A T T V A A T M I A	A H L A G I H I F F F
UniRef90_UPI0003B763EE	T	D A R K L S R A D M	A A C L V S G D T	G A T T V A A T M I G	A R L A G I D V F F
UniRef90_X6GEC7	K	D V V K A S G R R D I	A A S I M V S R G G	S A G T T V S A T M R I	A A L A G I D V F F
UniRef90_A0A026X1D7	A	D T T K C A S R R D I	S S I V S R G K L	N G A T T V S A T M L I	A H A A D I P I M
UniRef90_Q28PY7	D	G V A K L S R A D L	A A C L A R G G V	G A T T V A A T M I C	A A L A G I H V F F F
UniRef90_S5YAK0	T	P V M K L S R A D L	A A C L V A K R T	G A T T V A A T M I A	A A L A G I R V F F F
UniRef90_A3JSP0	A	S V M K L S R A D L	A C I A Q K M G	A T T V A A T M L L	A E L A G I R D V F F
UniRef90_A0A024KJ23	E	G A A K A S R R R D V	A A L L V T G G L	A G T T V A T T M Q I	A A L A G I Q V V F F
UniRef90_K2HMR6	K	G I E K V S V R R D I	S G V I A K K Q W	G T T V A A T S R I	A S M V G I K V F F
UniRef90_F9XDU7	S	N V L K V S R R R D L	C F G L G L K D N	G T T I A G T S V L	A H M A G I K I F F
UniRef90_I0YT19	Q	A V R K T S R R R D L	P Y V M A K R L H	G A T T V S A T M L L	A A R A G I H I F F
UniRef90_UPI0003655500	K	N V F K A S R R R D I	P K V L A L K M I	G A T T V A T T A Y A	A E L A G I R F F
UniRef90_Q01RY8	K	N V L K V S R R N D L	P Y A I A T Q K I	G A T T V A A T M I A	A A N L A G I R I F F
UniRef90_A3TXR2	E	D V A K L S R A D L	A V C L S R G G T	G A T T V A A T M I A	A A R L A G I R V F F
UniRef90_H6C3A9	D	D T W K V S R R R D L	G F I A G Q K L N	G T T V A A T M L L	A H L A G I K I F F
UniRef90_U4UUC1	T	G A R K L S R A D L	A V C L V D G A T	G A T T V A A T M I L	A H L A G I H I F F F
UniRef90_Q17AQ6	E	S T L K T S R R R D L	A Y V V S R K L N	G G T T V A G T L V V	A S M V G I R I F F F
UniRef90_T1HTB9	S	K A I K T S R R R D F	P Y A I S E R L H	G G T T V S G T L L I	A A G R V G I R N I F F
UniRef90_U1M3H2	D	D S I K V S K R R D I	P Y A L V N L V G	G T T I A A T M Y L	A A D A V G I R V F F
UniRef90_UPI0003183844	A	D V M K A S T R E V	P L A L A T G R D	A A T T V A S T M R L	A A M A G I A V F F F
UniRef90_S3CM00	P	E T M K I S R R R D I	P Y I T G M R L T	G G T T L S G T M M I	A Q R A G I R V F F
UniRef90_J4GJ61	N	T A E K V S R R R D I	G P A I A L G R H	G T T C S A T L I F	A A L A G I K V F F
UniRef90_T1J6S7	S	S L M K I S R R R D L	P Y V I S Q N C	G T T V S A T M L L	A H R V G I P I F F
UniRef90_UPI00037629C4	K	D V M K V S R A D L	A F A L S T G R P	G A T T V A A T M I T	A H L A G I K M F F
UniRef90_S9QXR9	D	G V R K V S R A D L	A C L A E G A T	G A T T V A A T M I A	A A R H A G I E T V F F
UniRef90_A6FRS5	K	D V A K L S R A D L	A A C M A G G T	G S T T V A A T M I C	A A R A G I E T V F F
UniRef90_C1MIK9	L	G A K V I A R R R D L	A A C V A A K A T	G A T T V S A T M L E	A S R V G I S V F F
UniRef90_B3R188	S	N T I K I A R R R D L	S L A T A K Q L S	G A T T V S A T M L L	A H Y A G I K V F F
UniRef90_A3PJM9	E	E V Q K L S R A D L	A T C L A T G A M	G S T T V A A T M I A	A A N L A G I S V F F
UniRef90_K5WNS5	P	N V K V S R R D L	G P A I A L K H	D G G T T C S T T L M F	A A M A G I K V F F
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UniRef90_Q2CHU6	S	D V R K L S R A D F	A A C L A T G G T	G A T T V A A T M I A	A A R L A G I G V F F
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UniRef90_V7ELT6	K	G V A K L S R A D L	A A C V A S G G T	G A T T V A A T M L C	A R L A G I S V F F
UniRef90_K6PRJ4	S	D L P K A S R R D L	P V L C A L G R S	A A T T V A S T A Q V	A A W A G I D V F F
UniRef90_G8YPH3	E	A V N K V S R R R D I	G V S M A R K E S	A G T T L A S T M I L	S S M A G I D V F F
UniRef90_E7NSE7	K	G I T K A S R R R D I	P T T V A T K Q D	T V A T T M I I A H L	A A G I G I F A T G
UniRef90_J3NJY6	E	G A K K V S R R R D L	A Y L A G M G M H	G G T T I A G T M V L	A A R L A G I K V F F
UniRef90_UPI0004412B52	T	G A T K I S R R R D F	A P A I A L K R S	G G T T I A G T M V V	A A N L V G I K V F F
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UniRef90_F4R3V1	K	Q R W K V S R R R E L	A G A I S Q G V N	G L T V A S A T M K I	A Q M A G I K I F F
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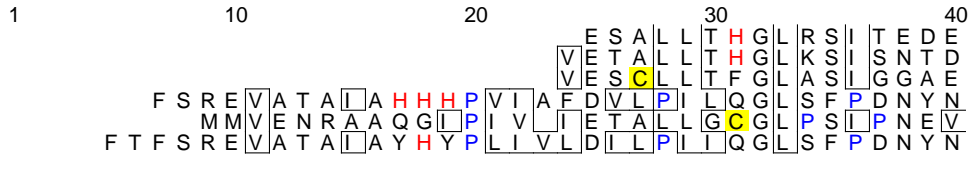
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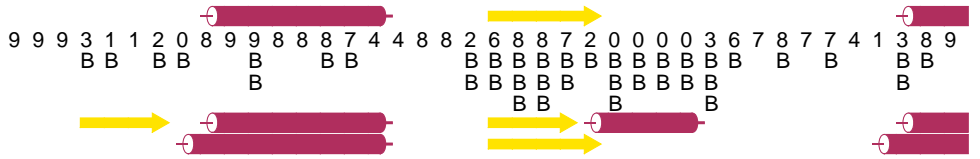
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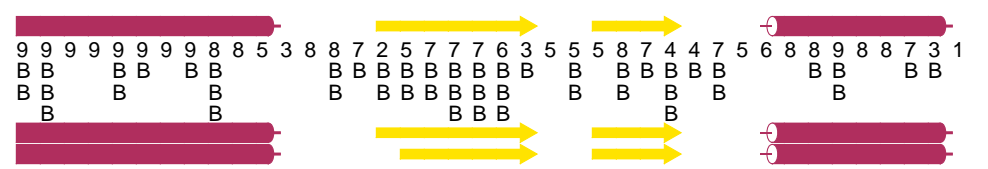


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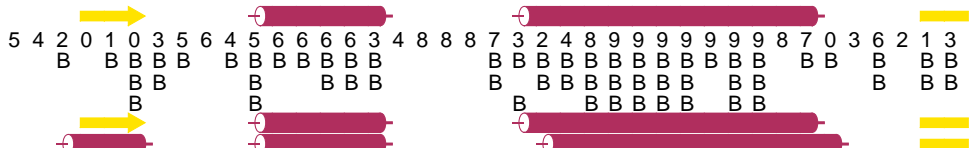


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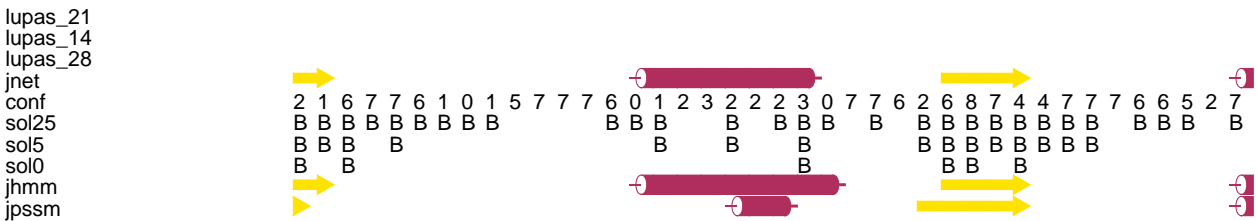
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 conf
 sol25
 sol5
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 jhmm
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				130						140					150						160																				
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UniRef90_D8RP89	V	T	G	M	G	G	V	H	R																																
UniRef90_U9UM97									V	T	D	L	S	T	D	L	V	E	L	E	R	I	P	I	A	V	V	C	T	G	A	K	S	I	W	N	I				
UniRef90_D8M412	V	S	G	F	I	Q	G	L	D	K	L	V	P	T	T	S	V	D	L	E	S	L	R	K	Y	H	P	T	N	V	N	C	G	F	D	L	P	T	D	I	

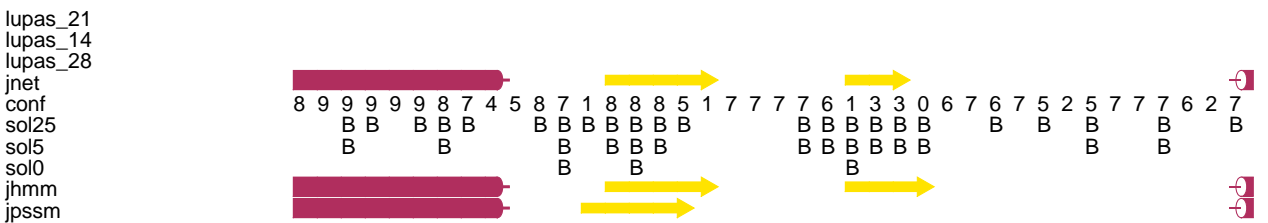


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R K V L E R L D E A Q I V V V T S S D G P P V A L N T E T N Q K F P I I P K E
          Q G V K I
R E T L E Y L E T Q G V L V S I F G E K Y F Q A L F L L K N G F K S Q N L K S I
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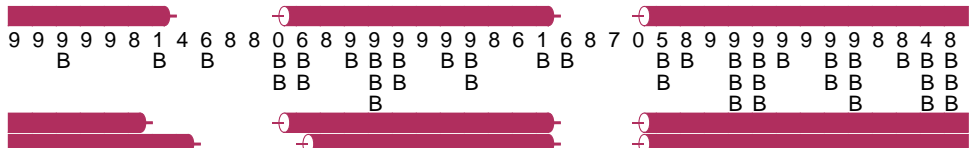
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