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

QUERY	R	D	V	A	R	V	E	S	K	T	V	I	V	T	Q	E	Q	R	D	T	V	P	P	K	S	G	Q	S	Q	L	G	R	W	M	S	E	E	D	F		
UniRef90_W5MJT2	R	D	V	A	R	V	E	S	K	T	V	I	V	T	Q	E	Q	R	D	T	V	P	P	K	S	G	Q	S	Q	L	G	R	W	M	S	E	E	D	F		
UniRef90_L7N3J8	Q	D	V	A	R	V	E	S	K	R	T	V	I	V	T	Q	E	Q	R	D	T	V	P	P	R	S	G	Q	S	Q	L	G	R	W	M	S	E	E	D	F	
UniRef90_B3QRQ0	G	D	V	A	R	V	E	S	K	R	T	V	I	V	T	Q	E	Q	R	D	T	V	P	P	A	K	S	G	Q	S	Q	L	G	R	W	M	S	E	E	D	F
UniRef90_H9G4Z1	K	D	V	A	R	V	E	S	K	R	T	V	I	V	T	Q	E	Q	R	D	T	V	P	P	Q	Q	G	V	K	G	Q	L	G	N	W	M	N	P	K	E	M
UniRef90_A0A023FKA1	A	D	V	A	R	V	E	S	K	R	T	V	I	V	T	Q	E	Q	R	D	T	V	P	P	P	K	G	V	K	G	Q	L	G	N	W	M	S	P	K	D	F
UniRef90_F6SMX0	K	D	V	A	R	V	E	S	K	R	T	V	I	V	T	Q	E	Q	R	D	T	V	P	P	P	T	G	V	K	G	Q	L	G	N	W	M	S	P	Q	D	F
UniRef90_S7NH95	R	D	V	A	R	V	E	S	K	R	T	V	I	V	T	Q	E	Q	R	D	T	V	P	P	P	K	S	G	Q	S	Q	L	G	R	W	M	S	E	G	D	F
UniRef90_L0DS50	S	D	V	A	R	V	E	S	K	R	T	V	I	V	T	Q	E	Q	R	D	T	V	P	P	P	K	S	G	Q	S	Q	L	G	R	W	M	S	E	G	D	F
UniRef90_V4J560	S	S	D	V	A	R	V	E	N	R	T	F	V	Y	V	Y	C	C	S	E	R	K	E	D	A	G	P	T													
UniRef90_A5UW70	S	S	D	V	A	R	V	E	D	R	T	F	F	I	Y	V	Y	C	S	V	S	R	E	G	D	A	G	P	T												
UniRef90_G1XXU6	S	S	D	V	A	R	V	E	D	R	T	F	F	I	Y	V	Y	C	S	V	P	T	A	E	E	A	G	P	T												
UniRef90_F7E7K3	K	D	V	A	R	V	E	S	K	R	T	V	I	V	T	Q	E	Q	R	D	T	V	P	P	D	G	A	R	G	Q	L	G	N	W	M	S	P	A	E	F	
UniRef90_UP10004786716	S	S	D	V	A	R	V	E	D	R	T	F	F	I	Y	V	Y	C	S	L	S	K	S	D	A	G	P	T													
UniRef90_A9EWY7	S	S	D	V	A	R	V	E	D	R	T	F	F	I	Y	V	Y	C	S	R	R	K	Q	D	T	G	P	T													
UniRef90_UP10002659817	A	D	V	A	R	V	E	S	K	R	T	V	I	V	T	Q	E	Q	R	D	T	V	P	P	R	G	V	K	G	S	L	G	N	W	M	S	P	E	D	F	
UniRef90_W6LSQ2	S	S	D	V	A	R	V	E	D	R	T	F	F	I	Y	V	Y	C	S	L	N	K	E	D	A	G	P	T													
UniRef90_UP100041D6DA5	S	S	D	V	A	R	V	E	D	R	T	F	F	I	Y	V	Y	C	S	L	N	K	E	D	A	G	P	T													
UniRef90_T1K149	A	D	V	A	R	V	E	S	K	R	T	V	I	V	T	Q	E	Q	R	D	T	V	P	P	P	K	G	V	K	G	T	L	G	N	W	M	S	P	A	E	F
UniRef90_F7E8L8	K	D	V	A	R	V	E	S	K	R	T	V	I	V	T	Q	E	Q	R	D	T	V	P	P	A	G	G	R	G	Q	L	G	N	W	M	S	P	A	D	F	
UniRef90_V9KGB6	R	D	V	A	R	V	E	S	K	R	T	V	I	V	T	Q	E	Q	R	D	T	V	P	P	P	K	L	G	T	S	L	L	G	R	W	L	S	E	K	E	
UniRef90_T2KG11	A	D	V	A	R	V	E	S	K	R	T	V	I	V	T	Q	E	Q	R	D	T	V	P	P	P	G	V	K	G	T	L	G	N	W	M	S	P	E	D	M	
UniRef90_W8KHH0	S	S	D	V	A	R	V	E	D	R	T	F	Y	V	Y	C	C	S	L	R	K	E	D	A	G	P	T														
UniRef90_C3ZAU8	K	D	V	A	R	V	E	S	K	R	T	V	I	V	T	Q	E	Q	R	D	T	V	P	P	E	G	V	K	G	Q	L	G	H	W	L	S	P	K	D	M	
UniRef90_UP10003B43882	A	D	V	A	R	V	E	D	R	T	F	F	I	Y	V	Y	C	S	T	E	N	E	R	D	A	G	P	T													
UniRef90_E1IAJ3	S	S	D	V	A	R	V	E	D	R	T	F	F	I	Y	V	Y	C	S	L	S	K	N	D	A	G	P	T													
UniRef90_H8FX44	R	D	V	A	R	V	E	D	R	T	F	F	I	Y	V	Y	C	S	L	N	R	N	D	A	G	P	T														
UniRef90_D3F5S6	G	D	V	A	R	V	E	D	R	T	F	F	I	Y	V	Y	C	S	A	S	E	D	D	A	G	P	T														
UniRef90_T1J481	A	D	V	A	R	V	E	S	K	R	T	V	I	V	T	Q	E	Q	R	D	T	V	P	P	P	K	G	V	V	G	Q	L	G	R	W	M	A	I	D	E	
UniRef90_A6GL39	S	S	D	V	A	R	V	E	D	R	T	F	F	I	Y	V	Y	C	S	S	R	E	K	E	D	A	G	P	T												
UniRef90_UP1000365646F	S	S	D	V	A	R	V	E	D	R	T	F	F	I	Y	V	Y	C	S	S	R	E	E	D	A	G	P	T													
UniRef90_V4A2Z1	S	S	D	V	A	R	V	E	S	K	T	W	I	T	T	P	E	K	Y	D	T	V	P	H	V	R	G	V	K	G	I	L	G	Q	W	M	S	P	H	D	
UniRef90_A7S417	R	D	V	A	R	V	E	D	R	T	F	F	I	Y	V	Y	C	C	S	T	K	N	K	H	D	A	G	P	T												
UniRef90_C7Q0P1	S	S	D	V	A	R	V	E	G	R	T	F	F	I	Y	V	Y	C	S	E	N	E	S	D	A	G	P	T													
UniRef90_D7BAL9	S	S	D	V	A	R	V	E	D	R	T	F	F	I	Y	V	Y	C	S	L	N	K	E	D	A	G	P	T													
UniRef90_B4RF72	R	D	V	A	R	V	E	S	R	T	F	F	I	Y	V	Y	C	C	S	E	K	Q	D	A	G	P	T														
UniRef90_UP100039DE2FC	S	S	D	V	A	R	V	E	D	R	T	F	F	I	Y	V	Y	C	S	K	D	P	K	D	A	G	P	T													
UniRef90_A0A059KGA7	S	S	D	V	A	R	V	E	D	R	T	F	F	I	Y	V	Y	C	S	A	T	K	E	E	A	G	P	T													
UniRef90_UP1000472E236	S	S	D	V	A	R	V	E	D	R	T	F	F	I	Y	V	Y	C	S	H	N	Q	E	D	A	G	P	T													
UniRef90_UP1000258EAC7	A	D	V	A	R	V	E	K	R	T	F	F	I	Y	V	Y	C	S	T	E	S	K	R	D	T	P	M	P	R	D	G	V	G	E	L	G	N	W	L	S	
UniRef90_R5Q6H7	S	S	D	V	A	R	V	E	S	R	T	F	F	I	Y	V	Y	C	S	E	R	E	I	D	A	G	P	T													
UniRef90_W6KMT9	S	S	D	V	A	R	V	E	D	R	T	F	F	I	Y	V	Y	C	S	E	N	K	D	D	A	G	P	T													
UniRef90_W4YQK5	K	D	V	A	R	V	E	S	K	R	T	V	I	V	T	Q	E	Q	R	D	T	V	P	L	V	A	D	G	V	G	K	L	G	N	W	L	A	P	D	V	
UniRef90_D6WPH9	A	D	T	A	R	V	E	S	K	T	F	F	I	Y	V	Y	C	S	T	E	K	R	A	E	T	I	P	T	T	K	E	G	K	G	T	L	G	N	W	M	
UniRef90_D1A6W0	S	S	D	V	A	R	V	E	D	R	T	F	F	I	Y	V	Y	C	S	E	K	E	D	A	G	P	T														
UniRef90_A4SC47	S	S	D	V	A	R	V	E	D	R	T	F	F	I	Y	V	Y	C	S	L	R	R	Q	D	A	G	P	T													
UniRef90_UP10004742654	S	S	D	V	A	R	V	E	D	R	T	F	F	I	Y	V	Y	C	S	A	N	K	D	D	A	G	P	T													
UniRef90_B3RIR2	A	D	V																																						

QUERY UniRef90_W5MJT2 UniRef90_L7N3J8 UniRef90_B3QRQ0 UniRef90_H9G4Z1 UniRef90_A0A023FKA1 UniRef90_F6SMX0 UniRef90_S7NH95 UniRef90_L0DS50 UniRef90_V4J560 UniRef90_A5UW70 UniRef90_G1XXU6 UniRef90_F7E7K3 UniRef90_UPI0004786716 UniRef90_A9EWY7 UniRef90_UPI0002659817 UniRef90_W6LSQ2 UniRef90_UPI00041D6DA5 UniRef90_T1K149 UniRef90_F7E8L8 UniRef90_V9KGB6 UniRef90_T2KG11 UniRef90_W8KHH0 UniRef90_C3ZAU8 UniRef90_UPI0003B43882 UniRef90_E1IAJ3 UniRef90_H8FX44 UniRef90_D3F5S6 UniRef90_T1J481 UniRef90_A6GL39 UniRef90_UPI000365646F UniRef90_V4A2Z1 UniRef90_A7S417 UniRef90_C7Q0P1 UniRef90_D7BAL9 UniRef90_B4RF72 UniRef90_UPI00039DE2FC UniRef90_A0A059KGA7 UniRef90_UPI000472E236 UniRef90_UPI000258EAC7 UniRef90_R5Q6H7 UniRef90_W6KMT9 UniRef90_W4YQK5 UniRef90_D6WPH9 UniRef90_D1A6W0 UniRef90_A4SC47 UniRef90_UPI0004742654 UniRef90_B3RIR2 UniRef90_UPI000372AD1E UniRef90_E9G4F4 UniRef90_Q5P2P8 UniRef90_M5A085 UniRef90_L7VR03 UniRef90_D6YS94 UniRef90_K7J8E0 UniRef90_UPI00047C0AE3 UniRef90_C7RNI0 UniRef90_UPI0001CBB9DE UniRef90_K1Q760 UniRef90_D3DBC1 UniRef90_Q86R97 UniRef90_A9AUG1 UniRef90_UPI00029A782F UniRef90_B4JW28 UniRef90_C7RSA9 UniRef90_UPI0003594F53 UniRef90_I4B856 UniRef90_M0QIE6 UniRef90_UPI000375A481 UniRef90_D7W9J5 UniRef90_UPI00037D67CE UniRef90_F1KZ99 UniRef90_I1FFM8 UniRef90_UPI0002192EE6 UniRef90_I9W9J3 UniRef90_U5EZL3 UniRef90_A5VG66 UniRef90_A7S418 UniRef90_Q05893 UniRef90_B5EE22 UniRef90_D5URG2 UniRef90_E9GK07 UniRef90_U5NAA3 UniRef90_UPI000377CEB3 UniRef90_C9YC18 UniRef90_UPI00036DD6B3 UniRef90_UPI0004796D24 UniRef90_E5SLA7 UniRef90_A0LGP5 UniRef90_UPI0004770B34 UniRef90_L8GN92 UniRef90_J6LFC1

E K A F N A R F P 130 G G C M K G R T M Y V I P 140 F S M G P L G S P L A K I G V E L T D D
E K A M N L R F F P G G C M R G R T M Y V I P A F S M G G P L L G S S P L A S K K I G G G V I Q Q L L T D D
K K A F K S R F P G G C M K G R T M Y V I P F F S M G M G P L L G S S P L A S S A S K H I G G G V I E E F E E L T T D D
K A T L L G L F D P G G C M K G R T M Y V I P F F S M G M G P L L G S S P L A S S A S K H I G G G V I E E F E E L T T D D
Q E A V D D R F F P G G C M K G R T M Y V I P F F S M G M G P L L G S S P L A S S A S K K I G G G V I E E F E E L T T D D
Q K A L N E R F F P G G C M K G R T M Y V L P F F S M G M G P L L G S S P L A S S A S K K I G G G V I E E F E E L T T D D
E R A K A R F F P G G C M R G R T M Y V L P F F S M G M G P L L G S S P L A S S A S K K I G G G V I E E F E E L T T D D
E K A F N A R F F P G G C M K G C T K F V I P F F S M G M G P L L G S S P L A A K Q V I G G G V I E E F E E L T T D D
K K T L K G E F F S G G C M R G R T M Y V I P F F S M G M G P L L G S S P L A A A A K H I G G G V I E E F E E L T T D D
R A L L K E R F P G G C M R G R T M Y V I P F F S M G M G P L L G S S P L A S S A S K H I G G G V I E E F E E L T T D D
K E T L I P L F D G G S M R G R T M Y V I P F F S M G M G P L L G S S P L A A Q H I G G G V I E E F E E L T T D D
R Q T L Q D R F F K G C M R G R T L Y V L P F F S M G M G P L L G S S P L A S S A S R H I G G G V I E E F E E L T T D D
Q R A L D E R F P G G C M R G R T M Y V L P F F S M G M G P L L G S S P L A S S A S R H I G G G V I E E F E E L T T D D
K A I L R G L F D G A M R G R T M Y V V P F F S M G M G P L L G S S P L A S S A S H I G G G V I E E F E E L T T D D
K A T L R R R F F A G G C M R G R T L Y V I P F F S M G M G P L L G S S P L A S S A S Y G G G V I E E F E E L T T D D
Q K A W N E R F P G G C M R G R T M F V I P F F S M G M G P L L G S S P L A S S A S M K I G G G V I E E F E E L T T D D
R A Q L K E L M A G G C M K G R T L Y V I P F F S M G M G P L L G S S P L A S S A S Q I G G G V I E E F E E L T T D D
R A T M N G L F F K G C M K G R T M Y V I P F F S M G M G P L L G S S P L A S S A S D I A Q I G G G V I E E F E E L T T D D
D K A L N S R F F P K C C M R G R T M Y V I P F F S M G M G P L L G S S P L A S S A S R I G G G V I E E F E E L T T D D
Q R A V D E R F F P G G C M Q G R T M Y V L P F F S M G M G P L L G S S P L A S S A S R I G G G V I E E F E E L T T D D
D K A F N A R F F P E C C M K G R T M Y V I P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
D K A I R L R F P G G C M R G R T M Y V I P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
K Q T L N G L Y D G G C M R G R T L Y V I P F F S M G M G P L L G S S P L A S S A S Q I G G G V I E E F E E L T T D D
E I A F E E R F P G G C M R G R T M Y V I P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
K E T L K G L F F K G S M H G R T L Y V I P F F S M G M G P L L G S S P L A S S A S H I G G G V I E E F E E L T T D D
K A R M R P L Y F K G C M Q G R T M Y V I P F F S M G M G P L L G S S P L A S S A S I A H I G G G V I E E F E E L T T D D
R E H L N G L F K G A M R G R T M Y V V P F F S M G M G P L L G S S P L A S S A S D I A H I G G G V I E E F E E L T T D D
E K A L E D R F F P G G C M A G R T M Y V I P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
R A T L N G L F F K G S M R G R T L Y V I P F F S M G M G P L L G S S P L A S S A S I A H I G G G V I E E F E E L T T D D
K E I L R G E F F K G C M K G R T L Y V I P F F S M G M G P L L G S S P L A S S A S H I G G G V I E E F E E L T T D D
K K E I D E R F F P G G C M K G R T M Y V I P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
H K K L Y G E R Y F P G G C M E G R T M Y V M P F F S M G M G P L L G S S P L A S S A S I A H I G G G V I E E F E E L T T D D
K G I L L G Y F A G A M R G R T M Y V V P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
H E T L Q R L F D G G C M R G R T M Y V V P F F S M G M G P L L G S S P L A S S A S H I G G G V I E E F E E L T T D D
R A D L K D L F F K G V M R G R T M Y V I P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
R A T L N G L F K G C M R G R T L Y V I P F F S M G M G P L L G S S P L A S S A S H I G G G V I E E F E E L T T D D
R S L L N A L F F K G C M K G R T M Y V V P F F S M G M G P L L G S S P L A S S A S I A H I G G G V I E E F E E L T T D D
R A T M Q G L F E G A M R G R T L Y V I P F F S M G M G P L L G S S P L A S S A S I A H I G G G V I E E F E E L T T D D
D K A I L E R F F P G G C M K G K T M Y V I P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
K E K L N G L F F K G C M R G R T M Y V I P F F S M G M G P L L G S S P L A S S A S H I A K I G G G V I E E F E E L T T D D
R P L L A E K F D G G C M K G R T M Y V I P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
E Q E L G S R F F P G G C M T G R T M Y V I P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
D A A V K E R F T G G C M K G R T M Y V V P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
R A T F N K L F D G G C M K G R T M Y V V P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
K E T L R G L Y N G G C M K G R T L Y V I P F F S M G M G P L L G S S P L A S S A S H I A K I G G G V I E E F E E L T T D D
R T T L R S G L F D G G C M Q G R T M Y V V P F F S M G M G P L L G S S P L A S S A S H I A K I G G G V I E E F E E L T T D D
U N E L G E R F F P G G C M K G R T M Y V I P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
R E E M T E L Y R G S M K G R T M Y V V P F F S M G M G P L L G S S P L A S S A S D D P K I G G G V I E E F E E L T T D D
D V A T K K R F P G G C M K G R T L Y L L A Y C M G P M G S P L S K F I G G G V I E E F E E L T T D D
R D T L N G L F A G S M R G R T M Y V I P F F S M G M G P L L G S S P L A S S A S I A H I G G G V I E E F E E L T T D D
R E K M R D L Y T G G C M K G R T M Y V V P F F S M G M G P L L G S S P L A S S A S H I A K I G G G V I E E F E E L T T D D
K K T M T E L Y T G G C M K G R T M Y V I P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
M D L L L K L F K G S M K G R T M Y V I P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
D K A I M E R F P N C C M K G R T M Y V I P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
R Q T L N G L F E G C M R G R T M Y V V P F F S M G M G P L L G S S P L A S S A S H I A H I G G G V I E E F E E L T T D D
R G I L S G L F F K G C M K G R T M Y V I P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
E N A V Q S E R F P G G C M K G R T M Y V I P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
D T E L N M R F F P G G C M K G R T M F V I P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
R S T L R G L F A G G C M R G R T M Y V V P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
R R A V Q D R F P G G C M A G R T M Y V V P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
K E K L N G L F D G G S M R G R T M Y V V P F F S M G M G P L L G S S P L A S S A S H I A K I G G G V I E E F E E L T T D D
R A Q M T E L F R G S M R G R T M Y V V P F F S M G M G P L L G S S P L A S S A S D E D P K I G G G V I E E F E E L T T D D
E A A I Q A R F P G G C M K G R T M Y V V P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
R A T L N G L F D G G C M R G R T M Y V I P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
D N E L N M R F P D C C M K G R T M F V I P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
K H K L N T L F N G C M R G R T M Y V V P F F S M G M G P L L G S S P L A S S A S H I A H I G G G V I E E F E E L T T D D
R A T M T D L Y R G S M R G R T L F V I P F F S M G M G P L L G S S P L A S S A S D E D P K I G G G V I E E F E E L T T D D
K R L M A D L Y R G S M A G R T M Y V I P F F S M G M G P L L G S S P L A S S A S D E D P K I G G G V I E E F E E L T T D D
K A E M T E H F R G S M K G R T M Y V V P F F S M G M G P L L G S S P L A S S A S D P P K I G G G V I E E F E E L T T D D
R A T L Q P L F D G G C M A G R T M Y V I P F F S M G M G P L L G S S P L A S S A S H I A K I G G G V I E E F E E L T T D D
G R E L D A R F F T G G C M A G R T M Y V I P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
D K E L T E K F T G G C M K G R T M Y V I P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
R A E M R E H Y R G S M K G R T M Y V V P F F S M G M G P L L G S S P L A S S A S D P P K I G G G V I E E F E E L T T D D
R A T L H G L F E G C M E G R T L Y V I P F F S M G M G P L L G S S P L A S S A S H I A K I G G G V I E E F E E L T T D D
E K A I R E R F P G G C M K G R T M Y V V P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
R D T L H G L F D G G C M R G R T M Y V V P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
N Q A L G D E R F P G G C M K G R T M Y V L P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
G K E L L T G L F T G G C M A G R T M Y V I P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
K K T L T G L F T G G C M K G R T M Y V I P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
R A T M T D E L F R G S M Q G R T M Y V I P F F S M G M G P L L G S S P L A S S A S D E D P K I G G G V I E E F E E L T T D D
P K A I Q E R F P N C C M K G R T M Y V V P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
R A L L Q A L F D G G C M K G R T M Y V I P F F S M G M G P L L G S S P L A S S A S H I A H I G G G V I E E F E E L T T D D
R G T L G S L F D G G C M A G R T L Y V I P F F S M G M G P L L G S S P L A S S A S H I A H I G G G V I E E F E E L T T D D
R K I L E S L F D G G C M K G R T M Y V V P F F S M G M G P L L G S S P L A S S A S H I A H I G G G V I E E F E E L T T D D
R E I F A D I F K G A M R G R T M Y V V P F F S M G M G P L L G S S P L A S S A S H I A H I G G G V I E E F E E L T T D D
K A E M T E L Y R G S M R G R T M Y V I P F F S M G M G P L L G S S P L A S S A S E N P M F I G G G V I E E F E E L T T D D
A T E L D D R F P G G C M K G R T M Y V I P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
K E I L N G L F D G G C M R G R T M Y V I P F F S M G M G P L L G S S P L A S S A S H I A H I G G G V I E E F E E L T T D D
T A T M T E L Y R G C M R G R T M Y V V P F F S M G M G P L L G S S P L A S S A S D D P K I G G G V I E E F E E L T T D D
R A T L N G K F A G A M K G R T M Y V V P F F S M G M G P L L G S S P L A S S A S K I G G G V I E E F E E L T T D D
K A T L G K L F D G A M K G R T L Y V I P F F S M G M G P L L G S S P L A S S A S Y I G G G V I E E F E E L T T D D

QUERY	S	P	Y	V	V	A	S	M	R	V	170	M	T	R	R	M	G	T	S	V	L	180	E	A	L	G	D	D	G	G	E	F	F	V	K	190	L	L	H	S	S	V	V	G	G	C	C	P	P	L	L	200	
UniRef90_W5MJT2	S	P	Y	V	V	A	S	M	R	V		M	T	R	R	M	G	T	S	V	L		E	A	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	C	C	P	P	L	L		
UniRef90_L7N3J8	S	P	Y	V	V	A	S	M	R	V		M	T	R	R	M	G	T	S	V	L		E	A	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	C	C	P	P	L	L		
UniRef90_B3QRQ0	S	P	Y	V	V	V	N	M	R	I		M	T	R	R	M	G	S	A	K	V		E	V	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	C	C	P	P	L	L	
UniRef90_H9G4Z1	S	A	Y	V	V	A	S	M	R	I		M	T	R	R	M	G	S	A	A	A		R	T	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	R	P	P	L	L		
UniRef90_A0A023FKA1	S	P	Y	V	V	A	S	M	R	I		M	T	R	R	M	G	S	S	Q	V	L		R	T	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	Q	P	P	L	L	
UniRef90_F6SMX0	S	P	Y	V	V	A	S	M	R	I		M	T	R	R	M	G	S	S	Q	V	L		D	A	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	Q	P	P	L	L	
UniRef90_S7NH95	S	P	Y	V	V	A	S	M	R	I		M	T	R	R	M	G	S	T	P	V	L		E	A	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	C	P	P	L	L	
UniRef90_L0DS50	S	P	Y	V	V	V	N	M	R	I		M	T	R	R	M	G	S	S	A	V	L		D	V	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	A	P	P	L	L	
UniRef90_V4J560	S	A	Y	V	V	V	N	Q	R	I		M	T	R	R	M	G	S	Q	P	A	L		D	V	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	A	P	P	L	L	
UniRef90_A5UW70	S	A	Y	V	V	V	N	M	W	I		M	T	R	R	G	Q	K	V	I	E	A		L	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	A	P	P	L	L		
UniRef90_G1XXU6	S	P	Y	V	V	A	S	M	R	I		M	T	R	R	M	G	Q	K	V	I	E	A		L	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	A	P	P	L	L	
UniRef90_F7E7K3	S	P	Y	V	V	A	S	M	R	I		M	T	R	R	M	G	D	P	V	L		R	Q	L	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	R	P	P	L	L	
UniRef90_UPI0004786716	S	P	Y	V	V	A	S	M	R	I		M	T	R	R	M	G	R	Q	V	I	E		V	L	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	M	P	P	L	L	
UniRef90_A9EWY7	S	P	Y	V	V	A	S	M	R	I		M	T	R	R	M	G	R	K	V	I	E	A		L	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	Q	P	P	L	L	
UniRef90_UPI0002659817	S	P	Y	V	V	C		S	M	R	I		M	T	R	R	M	G	R	A	A	L		R	A	L	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	Q	P	P	L	L
UniRef90_W6LSQ2	S	A	Y	V	V	V	N	M	K	I		M	T	R	R	M	G	Q	K	V	L		D	T	L	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	A	P	P	L	L	
UniRef90_UPI00041D6DA5	S	A	Y	V	V	A	V	H		M	R	I		M	T	R	R	M	G	K	V	L		D	V	L	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	A	P	P	L	L
UniRef90_T1K149	S	P	Y	V	V	A	S	M	R	I		M	T	R	R	M	G	K	Q	V	L		D	T	L	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	C	P	P	L	L	
UniRef90_F7E8L8	S	A	Y	V	V	A	S	M	R	I		M	T	R	R	M	G	T	P	V	L		Q	A	L	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	Q	P	P	L	L	
UniRef90_V9KGB6	S	P	Y	V	V	T	S	S	R	I		M	T	R	R	M	G	S	D	V	L		K	V	L	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	C	P	P	L	L	
UniRef90_T2KG11	S	P	Y	V	V	V	S	S	M	R	I		M	T	R	R	M	G	T	P	V	L		N	A	L	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	S	P	P	L	L
UniRef90_W8KHH0	S	P	Y	V	V	V	N	M	R	I		M	T	R	R	M	G	R	K	V	I		D	T	L	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	A	P	P	L	L	
UniRef90_C3ZAU8	S	A	Y	V	V	A	S	M	R	I		M	T	R	R	M	G	A	N	V	L		D	A	L	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	A	P	P	L	L	
UniRef90_UPI0003B43882	S	P	Y	V	V	V	N	M	R	I		M	T	R	R	M	G	G	D	V	L		D	I	L	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	A	P	P	L	L	
UniRef90_E1IAJ3	S	P	Y	V	V	A	V	N	M	R	I		M	T	R	R	M	G	K	A	V		D	V	L	L	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	A	P	P	L	L
UniRef90_H8FX44	S	P	Y	V	V	A	T	N	M	R	I		M	T	R	R	M	G	K	K	A	L		D	L	L	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	A	P	P	L	L
UniRef90_D3F5S6	S	A	Y	V	V	A	T	N	M	R	I		M	T	R	R	M	G	A	G	A	L		D	V	L	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	A	P	P	L	L
UniRef90_T1J481	S	P	Y	V	V	A	S	M	R	I		M	T	R	R	M	G	N	K	V	L		D	V	L	L	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	Q	P	P	L	L
UniRef90_A6GL39	S	A	Y	V	V	V	N	Q	R	I		M	T	R	R	M	G	K	A	V		D	V	L	L	L	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	A	P	P	L	L
UniRef90_UPI000365646F	S	P	Y	V	V	V	L	N	Q	R	I		M	T	R	R	M	G	K	A	V		L	E	T	L	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	A	P	P	L	L
UniRef90_V4A2Z1	S	N	Y	V	V	L	C		M	R	I		M	T	R	R	V	S	P	R	V		F	E	F	M	D	D	H	D	F	V	K		L	L	H	S	S	V	V	G	G	C	P	P	L	L					
UniRef90_A7S417	S	E	Y	V	V	C	C		M	R	I		M	T	R	R	M	G	S	H	V		K	A	L	L	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	A	P	P	L	L
UniRef90_C7Q0P1	S	P	Y	V	V	V	S	M	R	V		M	T	R	R	M	G	Q	K	V	L		D	E	L	L	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	A	P	P	L	L
UniRef90_D7BAL9	S	A	Y	V	V	V	S	M	K	I		M	T	R	R	M	G	Q	Q	V	F		E	V	L	L	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	M	P	P	L	L
UniRef90_B4RF72	S	A	Y	V	V	A	V	S	M	R	I		M	T	R	R	M	G	A	A	L		D	Q	L	L	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S	V	V	G	G	A	P	P	L	L
UniRef90_UPI00039DE2FC	S	P	Y	V	V	V	L	N	M	R	I		M	T	R	R	M	G	R	A	V		D	V	L	L	L	L	G	D	D	G	G	E	F	F	V	K		L	L	H	S	S									

QUERY	K	K	P	L	V	N	N	W	A	210	N	P	E	L	T	L	V	A	H	L	220	D	R	R	R	E	I	S	F	G	S	G	Y	G	G	N	S	L	L	G	G	230	G	Y	G	G	N	S	L	L	G	G	240
UniRef90_W5MJT2	K	R	P	L	V	N	N	W	A	C	C	N	P	E	L	T	L	V	A	H	L	P	D	R	R	R	E	I	S	F	G	S	G	Y	G	G	N	S	L	L	G	G											
UniRef90_L7N3J8	K	K	P	L	V	N	N	W	A	C	C	N	P	E	L	T	L	V	A	H	L	P	D	R	R	R	E	I	S	F	G	S	G	Y	G	G	N	S	L	L	G	G											
UniRef90_B3QRQ0	G	Q	K	D	V	A	W	P	C	C	N	A	D	H	K	Y	I	V	H	H	F	P	P	E	E	R	A	I	W	S	F	G	S	G	Y	G	G	N	S	L	L	G	G										
UniRef90_H9G4Z1	S	E	E	L	V	N	N	W	A	C	C	N	P	E	K	T	L	I	A	H	V	P	P	E	E	R	R	E	I	V	S	F	G	S	G	Y	G	G	N	S	L	L	G	G									
UniRef90_A0A023FKA1	K	T	P	P	V	N	N	W	A	C	C	N	P	E	K	T	L	I	A	S	H	V	P	P	D	N	S	R	E	I	C	S	F	G	S	G	Y	G	G	N	S	L	L	G	G								
UniRef90_F6SMX0	K	A	P	L	V	N	N	W	A	C	C	N	P	E	K	T	L	I	A	H	V	P	P	D	S	R	E	I	V	S	F	G	S	G	Y	G	G	N	S	L	L	G	G										
UniRef90_S7NH95	K	K	P	L	V	N	N	W	A	C	C	N	P	E	Q	T	L	I	A	H	L	P	P	D	R	R	R	E	I	V	S	F	G	S	G	Y	G	G	N	S	L	L	G	G									
UniRef90_L0DS50	G	Q	A	D	V	P	W	P	C	C	N	A	D	D	T	K	Y	I	V	H	H	F	P	P	E	E	R	R	E	I	V	S	F	G	S	G	Y	G	G	N	S	L	L	G	G								
UniRef90_V4J560	G	Q	K	D	V	P	W	P	C	C	N	A	D	D	T	K	Y	I	V	H	H	F	P	P	E	E	R	R	E	I	W	S	F	G	S	G	Y	G	G	N	S	L	L	G	G								
UniRef90_A5UW70	G	Q	K	D	V	P	W	P	C	C	N	P	T	V	K	Y	I	V	H	H	F	P	P	E	E	R	R	E	I	W	S	F	G	S	G	Y	G	G	N	S	L	L	G	G									
UniRef90_G1XXU6	G	Q	K	D	V	A	W	P	C	C	N	A	R	H	K	Y	I	V	H	H	F	P	P	E	E	R	H	E	I	I	S	F	G	S	G	Y	G	G	N	S	L	L	G	G									
UniRef90_F7E7K3	E	G	E	L	V	N	Q	W	P	C	C	N	P	E	K	T	L	I	G	H	V	P	P	D	R	R	E	I	V	S	F	G	S	G	Y	G	G	N	S	L	L	G	G										
UniRef90_UPI0004786716	G	Q	P	D	V	P	W	P	C	C	N	K	E	H	K	Y	I	V	H	H	F	P	P	E	E	R	R	A	I	W	S	F	G	S	G	Y	G	G	N	S	L	L	G	G									
UniRef90_A9EWY7	G	Q	P	D	V	P	W	P	C	C	N	A	E	H	K	Y	I	V	H	H	F	P	P	E	E	R	E	I	L	W	S	F	G	S	G	Y	G	G	N	S	L	L	G	G									
UniRef90_UPI0002659817	E	K	P	A	I	N	N	W	P	C	C	N	P	E	K	T	L	I	V	T	H	V	P	P	E	E	R	E	I	A	S	F	G	S	G	Y	G	G	N	S	L	L	G	G									
UniRef90_W6LSQ2	G	Q	K	D	V	P	W	P	C	C	N	Q	D	K	K	A	I	V	H	H	F	P	P	E	T	R	E	I	W	S	F	G	S	G	Y	G	G	N	S	L	L	G	G										
UniRef90_UPI00041D6DA5	G	Q	K	D	V	A	W	P	C	C	N	D	T	K	Y	I	V	H	H	F	P	P	E	T	R	E	I	M	S	F	G	S	G	Y	G	G	N	S	L	L	G	G											
UniRef90_T1K149	S	R	T	L	V	N	N	W	P	C	C	N	P	E	R	T	L	I	A	H	H	K	P	P	D	S	R	E	I	A	S	F	G	S	G	Y	G	G	N	S	L	L	G	G									
UniRef90_F7E8L8	Q	G	E	P	V	S	Q	W	P	C	C	N	P	E	K	T	L	I	G	H	V	P	P	D	Q	R	R	E	I	V	S	F	G	S	G	Y	G	G	N	S	L	L	G	G									
UniRef90_V9KGB6	K	K	P	L	V	N	N	W	A	C	C	N	P	E	L	T	L	V	A	H	L	P	P	Q	R	R	E	I	I	S	F	G	S	G	Y	G	G	N	S	L	L	G	G										
UniRef90_T2KG11	S	P	T	N	D	T	A	W	P	C	C	N	P	E	R	T	L	I	L	H	H	R	P	P	Q	R	N	E	I	V	S	F	G	S	G	Y	G	G	N	S	L	L	G	G									
UniRef90_W8KHH0	G	Q	K	D	A	P	W	P	C	C	N	P	E	V	K	Y	I	V	H	H	F	P	P	E	E	R	S	E	I	M	S	F	G	S	G	Y	G	G	N	S	L	L	G	G									
UniRef90_C3ZAU8	S	E	N	G	T	K	K	W	P	C	C	N	D	K	K	Y	I	V	A	H	L	P	P	D	K	R	E	I	I	S	F	G	S	G	Y	G	G	N	S	L	L	G	G										
UniRef90_UPI0003B43882	G	Q	E	D	V	S	W	P	C	C	N	P	D	N	K	Y	I	V	H	H	F	P	P	E	E	R	S	I	I	W	S	F	G	S	G	Y	G	G	N	S	L	L	G	G									
UniRef90_E1IAJ3	G	Q	Q	D	V	A	W	P	C	C	N	P	T	T	K	Y	I	V	H	H	F	P	P	E	E	R	S	I	I	W	S	F	G	S	G	Y	G	G	N	S	L	L	G	G									
UniRef90_H8FX44	G	Q	A	D	V	P	W	P	C	C	N	P	D	N	K	H	I	V	T	H	F	P	P	E	E	R	Q	I	W	S	F	G	S	G	Y	G	G	N	S	L	L	G	G										
UniRef90_D3F5S6	G	A	Q	D	V	A	W	P	C	C	N	A	E	N	K	Y	I	V	H	H	F	P	P	E	E	R	T	R	E	W	S	F	G	S	G	Y	G	G	N	S	L	L	G	G									
UniRef90_T1J481	K	K	Q	L	V	N	N	W	P	C	C	N	P	E	K	T	L	I	S	H	L	P	P	N	K	N	K	I	A	S	F	G	S	G	Y	G	G	N	S	L	L	G	G										
UniRef90_A6GL39	G	Q	K	D	V	A	W	P	C	C	N	P	S	T	K	Y	I	V	H	H	F	P	P	E	T	R	E	I	W	S	F	G	S	G	Y	G	G	N	S	L	L	G	G										
UniRef90_UPI000365646F	G	E	P	D	V	P	W	P	C	C	N	S	D	K	Y	I	V	A	H	H	F	P	P	E	T	R	E	I	I	W	S	F	G	S	G	Y	G	G	N	S	L	L	G	G									
UniRef90_V4A2Z1	E	R	K	V	I	N	H	W	P	C	C	N	P	D	N	V	I	V	A	H	F	P	P	E	E	R	K	V	I	K	S	F	G	S	G	Y	G	G	N	S	L	L	G	G									
UniRef90_A7S417	G	K	N	N	V	P	W	P	C	C	N	D	P	E	R	T	L	I	T	H	F	P	P	E	T	R	E	I	V	K	S	F	G	S	G	Y	G	G	N	S	L	L	G	G									
UniRef90_C7Q0P1	G	E	A	D	V	P	W	P	C	C	N	P	E	R	T	L	I	V	T	H	F	P	P	E	T	R	E	I	V	W	S	F	G	S	G	Y	G	G	N	S	L	L	G	G									
UniRef90_D7BAL9	G	Q	K	D	V	P	W	P	C	C	N	P	T	T	K	Y	I	V	H	H	F	P	P	E	E	R	S	I	W	S	F	G	S	G	Y	G	G	N	S	L	L	G	G										
UniRef90_B4RF72	G	A	K	D	V	A	W	P	C	C	N	I	K	Y	I	V	H	H	F	P	P	P	E	T	R	E	I	W	S	F	G	S	G	Y	G	G	N	S	L	L	G	G											
UniRef90_UPI00039DE2FC	G	A	Q	E	D	V	R	W	P	C	C	N	D	T	K	Y	I	V	H	H	F	P	P	E	T	R	E	I	W	S	F	G	S	G	Y	G	G	N	S	L	L	G	G										
UniRef90_A0A059KGA7	G	Q	K	D	T	T	W	P	C	C	N	P	K	T	K	Y	I	V	H	H	F	P	P	E	T	Q	E	I	W	S	F	G	S	G	Y	G	G	N	S	L	L	G	G										
UniRef90_UPI000472E236	G	Q	A	D	V	P	W	P	C	C	N	P	V	K	Y	I	V	H	H	F	P	P	E	T	R	E	I	W	S	F	G	S	G	Y	G	G	N	S	L	L	G	G											
UniRef90_UPI000258EAC7	S	K	V	A	V	M	P	W	P	C	C	N	D	P	E	R	T	L	I	L	H	R	P	P	A	K	N	E	I	V	S	F	G	S	G	Y	G	G	N	S	L	L	G	G									
UniRef90_R5Q6H7	G	V	K	D	V	P	W	P	C	C	N	P	D	N	T	I	V	T	H	F	P	P	E	T	R	E	I	I	W	S	F	G	S	G	Y	G	G	N	S	L	L	G	G										
UniRef90_W6KMT9	G	Q	E	D	S	A	W	P	C	C	N	D	P	S	N	K	Y	I	V	H	H	F	P	P	E	S	R	E	I	W	S	F	G	S	G	Y	G	G	N	S	L	L	G	G									
UniRef90_W4YQK5	K	E	P	L	T	N	N	W	P	C	C	N	P	E	R	T	L	I	V	S	H	L	P	P	D	R	R	E	I	C	S	F	G	S	G	Y	G	G	N	S	L	L	G	G									
UniRef90_D6WPH9	G	F	I	E	M	K	S	W	P	C	C	N	D	P	E	R	T	L	I	L	H	K	P	P	Q	N	N	E	I	V	S	F	G	S	G	Y	G	G	N	S	L	L	G	G									
UniRef90_D1A6W0	G	Q	K	D	V	P	W	P	C	C	N	S	T	K	Y	I	V	S	H	L	P	P	P	E	T	R	E	I	W	S	F	G	S	G	Y	G	G	N	S	L	L	G	G										
UniRef90_A4SC47	G	Q	Q	D	V	P	W	P	C	C	N	D	T	K	Y	I	V	H	H	F	P	P	P	E	E	R	S	I	W	S	F	G	S	G	Y	G	G	N	S	L	L	G	G										
UniRef90_UPI0004742654	G	Q	Q	D	V	A	W	P	C	C	N	P	K	T	K	Y	I	V	H	H	F	P	P	P	E	S	R	E	I	W	S	F	G	S	G																		

QUERY	K	K	C	F	A	L	R	I	A	S	R	L	A	K	E	E	G			
UniRef90_W5MJT2	K	K	C	F	A	L	R	I	A	S	R	L	A	K	E	E	G			
UniRef90_L7N3J8	K	K	C	F	A	L	R	I	A	S	R	L	A	K	E	E	G			
UniRef90_B3QRQ0	K	K	C	F	A	L	R	I	A	S	S	M	A	R	D	E	E	G		
UniRef90_H9G4Z1	K	K	C	F	A	L	R	I	A	S	C	I	A	K	D	E	E	G		
UniRef90_A0A023FKA1	K	K	C	F	A	L	R	L	G	S	I	L	A	Q	R	E	E	G		
UniRef90_F6SMX0	K	K	C	F	A	L	R	L	A	S	R	I	A	K	D	E	E	G		
UniRef90_S7NH95	K	K	C	F	A	L	R	M	A	S	R	L	A	K	E	E	E	G		
UniRef90_L0DS50	K	K	C	F	A	L	R	I	A	S	T	M	A	R	N	D	E	E	G	
UniRef90_V4J560	K	K	C	L	A	L	R	I	A	S	V	M	A	R	D	E	E	E	G	
UniRef90_A5UW70	K	K	C	L	A	L	R	I	A	S	V	T	A	R	D	E	E	E	G	
UniRef90_G1XXU6	K	K	C	F	A	L	R	I	A	S	S	L	G	R	E	E	E	E	G	
UniRef90_F7E7K3	K	K	C	F	A	L	R	I	A	S	R	L	A	R	D	E	E	E	G	
UniRef90_UPI0004786716	K	K	C	F	A	L	R	I	A	S	V	L	A	R	D	E	E	E	G	
UniRef90_A9EWY7	K	K	C	F	A	L	R	I	A	S	V	L	G	R	E	Q	E	E	G	
UniRef90_UPI0002659817	K	K	C	F	A	L	R	I	G	S	T	L	G	Y	K	E	E	E	G	
UniRef90_W6LSQ2	K	K	C	L	A	L	R	I	A	S	S	M	A	R	D	E	E	E	G	
UniRef90_UPI00041D6DA5	K	K	C	L	A	L	R	I	A	S	V	M	A	R	D	E	E	E	G	
UniRef90_T1K149	K	K	C	F	A	L	R	L	G	S	I	L	A	Q	R	E	E	E	G	
UniRef90_F7E8L8	K	K	C	F	A	L	R	I	A	S	R	L	A	R	D	E	E	E	G	
UniRef90_V9KGB6	K	K	C	F	A	L	R	I	A	S	K	I	G	Q	E	E	E	E	G	
UniRef90_T2KG11	K	K	C	F	A	L	R	I	G	S	T	L	A	R	R	E	E	E	G	
UniRef90_W8KHH0	K	K	C	F	A	L	R	I	A	S	S	M	A	R	D	E	E	E	G	
UniRef90_C3ZAU8	K	K	C	F	A	L	R	I	A	S	R	I	G	R	D	E	E	E	G	
UniRef90_UPI0003B43882	K	K	C	Y	A	L	R	I	A	S	V	M	A	K	N	D	E	E	E	G
UniRef90_E1IAJ3	K	K	C	F	A	L	R	I	A	S	S	M	A	R	Q	E	E	E	E	G
UniRef90_H8FX44	K	K	C	F	A	L	R	I	A	S	V	M	A	R	D	E	E	E	E	G
UniRef90_D3F5S6	K	K	C	F	A	L	R	I	A	S	V	M	A	R	D	E	E	E	E	G
UniRef90_T1J481	K	K	C	F	A	L	R	I	G	S	T	I	A	K	R	E	E	E	E	G
UniRef90_A6GL39	K	K	C	L	A	L	R	I	A	S	T	M	G	R	D	Q	E	E	E	G
UniRef90_UPI000365646F	K	K	C	L	A	L	R	I	A	S	V	M	A	R	D	E	E	E	E	G
UniRef90_V4A2Z1	K	K	C	F	A	L	R	I	A	S	V	T	A	R	D	E	E	E	E	G
UniRef90_A7S417	K	K	C	F	A	L	R	I	A	S	V	L	A	R	D	E	E	E	E	G
UniRef90_C7Q0P1	K	K	C	Y	A	L	R	I	A	S	V	M	A	R	D	E	E	E	E	G
UniRef90_D7BAL9	K	K	C	L	A	L	R	I	A	S	V	T	G	R	D	E	E	E	E	G
UniRef90_B4RF72	K	K	C	F	A	L	R	I	A	S	V	M	A	R	D	E	E	E	E	G
UniRef90_UPI00039DE2FC	K	K	C	F	A	L	R	I	A	S	T	M	A	R	D	E	E	E	E	G
UniRef90_A0A059KGA7	K	K	C	F	A	L	R	I	A	S	T	M	G	R	D	Q	E	E	E	G
UniRef90_UPI000472E236	K	K	C	F	A	L	R	I	A	S	T	M	G	R	D	E	E	E	E	G
UniRef90_UPI000258EAC7	K	K	C	F	A	L	R	I	G	S	T	I	A	R	D	E	E	E	E	G
UniRef90_R5Q6H7	K	K	C	L	A	L	R	I	A	S	V	Q	A	R	D	E	E	E	E	G
UniRef90_W6KMT9	K	K	C	F	A	L	R	I	A	S	A	M	A	R	D	E	E	E	E	G
UniRef90_W4YQK5	K	K	C	F	A	L	R	I	A	S	R	I	A	K	D	E	E	E	E	G
UniRef90_D6WPH9	K	K	C	F	A	L	R	I	G	S	T	I	A	K	R	E	E	E	E	G
UniRef90_D1A6W0	K	K	C	Y	A	L	R	I	A	S	T	M	A	R	D	E	E	E	E	G
UniRef90_A4SC47	K	K	C	F	A	L	R	I	A	S	S	M	A	R	D	E	E	E	E	G
UniRef90_UPI0004742654	K	K	C	F	A	L	R	I	A	S	T	M	G	R	D	Q	E	E	E	G
UniRef90_B3RIR2	K	K	C	F	A	L	R	I	A	S	S	I	A	R	R	E	E	E	E	G
UniRef90_UPI000372AD1E	K	K	C	Y	A	L	R	I	A	S	V	M	A	R	D	E	E	E	E	G
UniRef90_E9G4F4	K	K	C	F	S	L	R	I	G	S	A	I	A	R	R	E	E	E	E	G
UniRef90_Q5P2P8	K	K	C	F	A	L	R	I	A	S	T	M	A	R	D	E	E	E	E	G
UniRef90_M5A085	K	K	C	F	A	L	R	I	A	S	V	M	A	R	D	D	E	E	E	G
UniRef90_L7VR03	K	K	C	L	S	L	R	I	A	S	V	M	A	R	D	E	E	E	E	G
UniRef90_D6YS94	K	K	C	F	A	L	R	I	A	S	A	M	A	R	D	E	E	E	E	G
UniRef90_K7J8E0	K	K	C	F	A	L	R	I	G	S	T	I	A	K	R	D	E	E	E	G
UniRef90_UPI00047C0AE3	K	K	C	L	A	L	R	I	A	S	V	M	G	R	D	Q	E	E	E	G
UniRef90_C7RNI0	K	K	C	L	A	L	R	I	A	S	N	M	A	R	D	D	E	E	E	G
UniRef90_UPI0001CBB9DE	K	K	C	F	A	L	R	I	A	S	C	I	A	R	D	E	E	E	E	G
UniRef90_K1Q760	K	K	C	F	A	L	R	L	G	S	I	L	G	R	R	E	E	E	E	G
UniRef90_D3DBC1	K	K	C	Y	A	L	R	I	A	S	V	M	A	R	D	D	E	E	E	G
UniRef90_Q86R97	K	K	C	F	A	L	R	L	G	S	R	L	A	Q	R	E	E	E	E	G
UniRef90_A9AUG1	K	K	C	F	A	L	R	I	A	S	N	M	A	R	D	E	E	E	E	G
UniRef90_UPI00029A782F	K	K	C	F	A	L	R	I	A	S	A	M	A	R	D	E	E	E	E	G
UniRef90_B4JW28	K	K	C	F	A	L	R	I	G	S	T	I	A	K	R	E	E	E	E	G
UniRef90_C7RSA9	K	K	C	L	A	L	R	I	A	S	V	M	A	R	D	E	E	E	E	G
UniRef90_UPI0003594F53	K	K	C	F	A	L	R	I	G	S	I	L	G	Q	R	E	E	E	E	G
UniRef90_I4B856	K	K	C	L	A	L	R	I	A	S	V	I	G	R	D	E	E	E	E	G
UniRef90_M0QIE6	K	K	C	Y	S	L	R	I	A	S	A	M	A	R	D	E	E	E	E	G
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G E K D V A W P C C N D P E N T Y I V H H F P P E E R R L M S I G S G Y G G N A L L G
Q R K V I N S H W P C C N D P E R V I M I T H H F P P A D Q N N E I M S Y G S G Y G G N A L L G
G K I T M P S W P C C N D P E R V I M I T H H F P P A D Q N N E I V S Y G S G Y G G N A L L G
K A P L V N N W P C C N D P S R V L L V T H H N P A K T N E I V S Y G S G Y G G N A L L G
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G Q Q D M P W P C C N D P E T K Y I T H H F P P E T R E E I W S Y G S G Y G G N A L L G
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UniRef90_F6FUR2	K	K	C	F	A	L	R	I	A	S	V	M	A	R	D	E	E	G		
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UniRef90_F8B1Q9	K	K	C	Y	A	L	R	I	A	S	V	M	A	R	D	E	E	G		
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I E W I T G D E E D Q R Q A L L A K A I L D A G T I V K L T T P A N S Y Y A A S D P
L R L C D V S E K G R E L L R G L Q D A G T L L P L P K Y E N C W L A R T S D P
V Y I C D G S E E E E Q E I A D K L V D R G L L I P L K G M E K C F A C R T S D P
I V W I D G S K E Q L E E I R A L S V S T G E M V K L N K L P G C C Y L H R T S A P
I H W C D G S D A E N A K I I D L M L A T G D L I K L N E H P N C Y L I H R S A P
I Y I C D G S V R E A D E I V A K L V E R T L S V L T A Y E N N Y I C R T S D P
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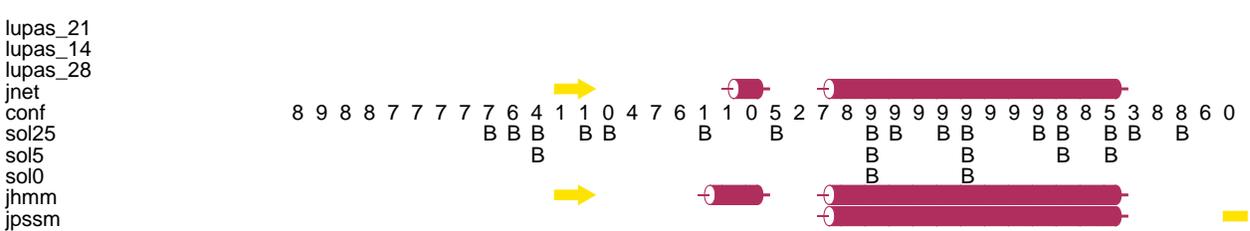
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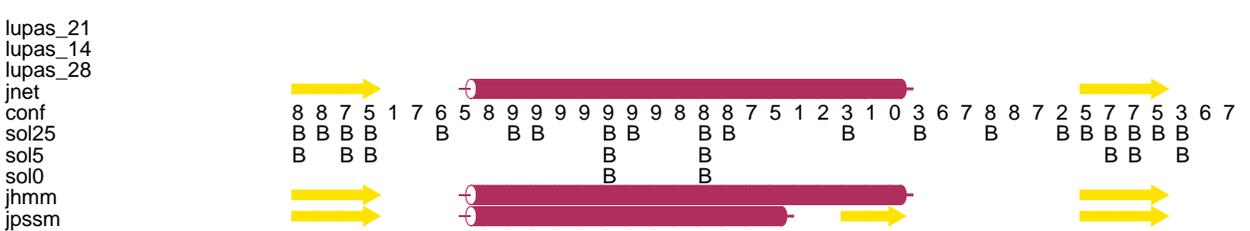
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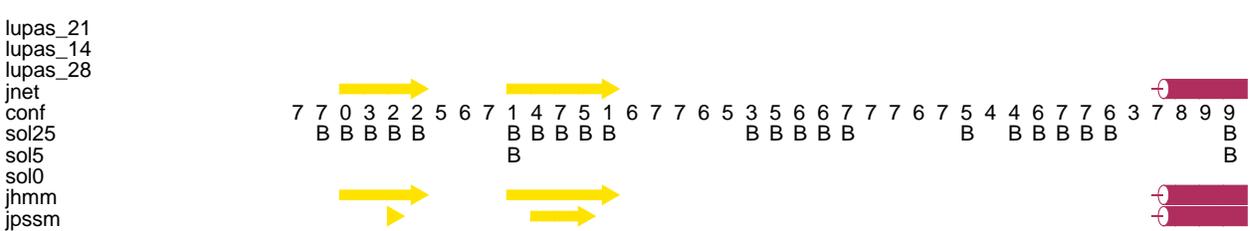
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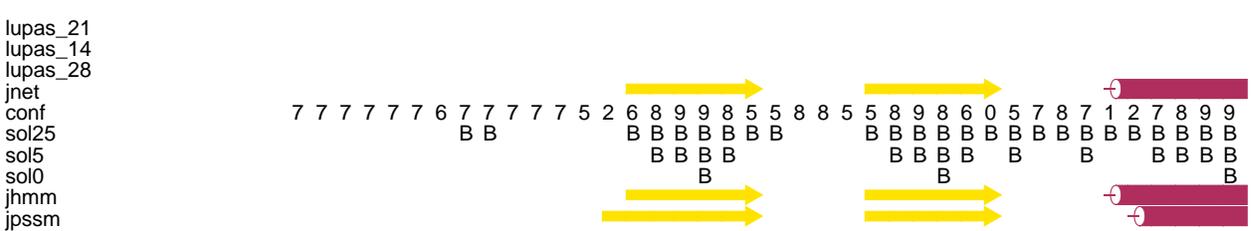
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