

QUERY	1	10	20	30	40																																											
UniRef90_S4PBF2	A	V	D	A	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y		
UniRef90_G4NCV5	S	V	D	A	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_J9JM72	A	V	D	A	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_L8FYC6	S	M	D	Q	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_T1K0Q7	A	V	D	A	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_UPI0004560007	S	V	D	A	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_Q5B1D7	S	I	D	K	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_E0W434	A	V	D	A	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_K2RJG5	S	M	D	K	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_L2GC39	S	M	D	K	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_W719X3	S	V	D	A	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_U61SS5	A	V	D	A	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_W2THV8	V	D	A	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y	
UniRef90_J3NG01	S	V	D	K	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_D5GDH9	S	I	D	N	Y	R	Q	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y	
UniRef90_U4LMS3	S	I	D	N	Y	R	Q	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y	
UniRef90_H6C2S2	S	M	D	K	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_UPI00020E4D65	A	V	D	A	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_M5GDM1	S	I	D	Q	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_A5DLK2	S	I	D	M	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_K5XEP7	S	V	D	A	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_T1ED66	A	V	D	A	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_A7S667	A	V	D	K	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_M3C370	S	M	D	K	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_N1JEA7	S	M	D	K	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_U7Q8B6	S	I	D	S	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_M2TKB7	S	I	D	S	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_Q5KCR8	S	V	D	Q	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_M5E9M5	S	I	D	S	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_C5MCP3	S	V	D	T	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_M2N1K1	S	M	D	K	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_K1WVU4	S	M	D	K	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_A8NAS8	S	V	D	S	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_UPI0004416C83	S	V	D	S	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_U1G6F3	S	M	D	K	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_UPI00046228EA	S	V	D	S	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_S8BE98	S	I	D	K	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_E5SC30	S	I	D	A	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_A0A024J8M5	S	I	D	G	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_R7Z5X0	S	M	D	K	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_E1G0K8	S	V	D	A	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_M3HEJ8	S	V	D	T	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_A8QAR1	S	I	D	S	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_H0ZY50	A	V	D	A	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_B0CXC1	S	V	D	N	Y	F	R	E	A	L	R	A	P	R	P	P	K	Q	Q	P	L	V	H	I	Q	D	D	F	Q	Q	F	F	F	P	P	P	R	L	F	E	L	L	D	Q	E	E	T	Y
UniRef90_E5R2Z4	S	I	G	S	F	Y	K	Q	T																																							

QUERY 50 60 70 80  
UniRef90\_S4PBF2 H Y R K K T V L G Y K V P K N T K A V Q R E E E Q Q K K I D D D A E E S P L L S T E E E E V Q Q E K E N Q  
UniRef90\_G4NCV5 F Y R K K T I G Y K V P P D N T E A E Q Q A L E D D Q Q K K I D D D E N A S P P L L T E E E E E Q Q Q R K E E  
UniRef90\_J9JM72 Y Y R K K T V L G Y K V P P D N T E A E Q Q A L E D D Q Q K K I D D D E N A S P P L L T E E E E E Q Q Q A E K E E  
UniRef90\_L8FYC6 Y F R K K T I L G Y K V P P D R A E G E R Q A L E D D Q Q K K I D D D E N A S P P L L T E E E E E Q Q A E K E L R  
UniRef90\_T1K0Q7 A Y R K K T I L G Y K V P P D R A E G E R Q A L E D D Q Q K K I D D D E N A S P P L L T E E E E E Q Q A E K E L R  
UniRef90\_UPI0004560007 A Y R R R S I L D Y K V P P L R E A E R Q D D E E E Q Q A V I D D D A E A P P L L T E A E E Q Q A E K E K E Q  
UniRef90\_Q5B1D7 Y F H K E I V L G Y K V P P L R E A E R Q D D E E E Q Q A M I D D D A A A P P L L T E A E E Q Q A E K E K T K  
UniRef90\_E0W434 Y Y R K K T V L G Y K V P P K N P E A E Q Q R E L E D D Q Q K K I D D D A A E P P L L S T D E A E V A E K E K E R  
UniRef90\_K2RJG5 W Y R K K T E N N I K A V P L P E A E Q Q R E L E D D Q Q K K I D D D A A E P P L L S T D E A E E K E K E R  
UniRef90\_L2GC39 Y Y R K K T I G Y K V P P E R E A E E R A L E D D Q Q K K I D D D A A T P P L L N T E E E E E L E E K E K Q R R  
UniRef90\_W719X3 Y Y R K K T I G Y K V P P M V N P S A Q E G E E E Q Q M E K I D D D E A V Q Q P L L T E E E E E Q E E K E R S E  
UniRef90\_U6ISS5 A Y R K K S I G Y N R V P L N P E A E Q Q R E L E D D Q Q K K I D D D E A V Q Q P L L T P E E E E E T E K E S E  
UniRef90\_W2THV8 H Y R K K T I L G Y K A E K P E K R R Q K E E E Q Q R E L E D D T A Q P P L L T E E E E E Q Q E K K N E Q Q  
UniRef90\_J3NG01 Y Y R K K E I G Y K V P P L P D Q A E R D S D Q E E E Q Q E A I D D D N A V P P L L T E E E E E Q Q A E R K K A H  
UniRef90\_D5GDH9 Y F R K K Q Q G Y K V P P D R E A A E R D E E E Q Q K E I D D D E A E P P L L N T E A E E N E E K A Q  
UniRef90\_U4LMS3 Y F R K K Q Q G Y K V P P D R E A A E R D E E E Q Q K E I D D D E A E P P L L N T E A E E N E E K A Q  
UniRef90\_H6C2S2 Y Y H K K T I G Y K V P P R N P D A D Q R R E L E N Q K D E I D D D G A E P P L T S T Q K R M K K A E K  
UniRef90\_UPI00020E4D65 Y Y R K K T Q D Y K V P P E D T L E E D R E E E Q Q E I D D D N A V P P L L T E E E E N A E K D E  
UniRef90\_M5GDM1 Y F R K K T Q D Y K V P P E D T L E E D R E E E Q Q E I D D D N A V P P L L T E E E E N A E K D E  
UniRef90\_A5DLK2 Y F K K Q T G Y K V P P E R Q L E E Q K L E E Q E E I D D N S R P P L L T D E E E E K K L K E K E  
UniRef90\_K5XEP7 Y Y K K T N E I Q G S E D T P E K L E E E Q E I D D N A E P P L L T D E E E E V A E K K N E  
UniRef90\_T1ED66 F F R K K S I G Y R V P P K D E K I R R E E E Q Q K K I D D D A E P P L L T D E E E E V A L K K D E  
UniRef90\_A7S667 A F R K K S I G Y K V P P L D P D Q K Q K E A Q K L L D D D E A E P P L L T E E E E E Q S E K K D D  
UniRef90\_M3C370 F F R K K E N G I K A V P L R T R Q Q E L E Q Q K N I D D D D A E P P L L T E E E E E I A E K K D Q  
UniRef90\_N1JEA7 H H R K K E I G Y K V P P L R E A E R Q A L E D D Q Q A E I D D D N A T P P L L T E E E E E Q E E K Q R R  
UniRef90\_U7Q8B6 Y Y R K K E I G Y K V P P E R E A A D Q Q I L D Q Q E I D D D N A T A P L L T E E E E E K A E K K R R  
UniRef90\_M2TKB7 W Y R K K E N N I K A V P L R E A A D Q Q I L D Q Q E I D D D N A T A P L L T E E E E E K A E K K E R  
UniRef90\_Q5KCR8 W H R K K S I N Y Q V P P V R E E P E Q Q K E E Q Q E R I D D D N A V P P L L S T E E E E V A E K E T  
UniRef90\_M5E9M5 A Y Q R S L N Y Q V P P K A E S N D P L E E E Q E F I D D E A S R P P L L T D E E E E R A L K E E A  
UniRef90\_C5MCP3 Y Y R K Q I N Y K V P P E L E E K E Q R R E E Q E E I D D N A S R P P L L T D E E E E R A L K E E E  
UniRef90\_M2N1K1 W F R K K E N G I R A P L P E G E E E R L E E Q Q M I D D E A T P P L L T E E E E M V I E K D R  
UniRef90\_K1WVU4 Y H K K A N D Y K V P P D R E A E R A L E D D Q A F V D D N A T A P P L L T E E E E E K A E R D K  
UniRef90\_A8NAS8 V H K K R L N N I P A P D D T P E K I L E A Q A F I D D T A E P P L L T E E E E L A E K E Q  
UniRef90\_UPI0004416C83 A H K R A N D I Q G P E D T P E K I L E A Q E F I D D H A E P P L L T E E E E Q V I E K E R  
UniRef90\_U1G6F3 Y F H K K E I G Y K A S D R E A E R E L E E Q E H Q I D D N A V P P L L T D A D R E R E R K A A  
UniRef90\_UPI00046228EA A H K R L N E I A G A P E D T P E T L E E Q E V I D D N A E P P L L T D A D Q Q Q E K E A  
UniRef90\_S8BE98 W H Q K Q I G H K A E E E R A D R E L E A Q Y T I D D N A Q P P L L T E E E E Q A K K A A  
UniRef90\_E5SC30 Y Y R K K T I G Y K V P P E A L K R Q Q D E E Q K K I D D E A A V P P L L T E A E E L A E K E Q  
UniRef90\_A0A024J8M5 Y F R K Q I K Y K V P P E L P D A D Q Q K L E E Q E E I D D E A A V P P L L T E A E E L A E K K H  
UniRef90\_R7Z5X0 W Y R K K E N G I K A P E R E A D R D L V Q L D I D D N A E P P L L T E A E E K E E K E R  
UniRef90\_E1G0K8 L H R K K T I G Y R A Q E A E R S K R K E E Q K K I D D S A V P P L L T E E E E Q N E K I Q  
UniRef90\_M3HEJ8 Y Y R K Q I N Y V V P P E R S K D R K E E Q E E I D D N S R P P L L T E E E E K Q L K E D  
UniRef90\_A8QAR1 A Y Q R S L H Y Q V P P K S E E Q R A K E E Q A R I D D A A E P P L L T E A E Q A E K E D E  
UniRef90\_H0ZY50 Y Y R K K T I G Y K V P P R N P D V Q K E E E Q K K I D D E S M P P L L N T D E E E E K E A  
UniRef90\_B0XCX1 V H K R L N G I Q G P E D T P E K L E E E R Q I D D T A E P P L L T E E E S M A E K E A  
UniRef90\_E5R2Z4 Y F H K E I G Y K V S D R E A E R E L E E Q Q E I D D N A V P P L L T T E E E Q E E K T K  
UniRef90\_W2RYZ6 Y Y H K K E I G Y F K A L P E A D D D R S D E Q Q T I D D N A E P P L L T D R E E K E L K E  
UniRef90\_C5PIG6 Y F H K K E I G Y K A S D R E A E R E L E E Q Q E I D D N A E P P L L T D R E E K A E K E R  
UniRef90\_UPI0004407E0D A Y R K K E H G I P A A P N N P E R A A E E Q Q A K I D D D A I P P L L T Q E E E Q E E K D E  
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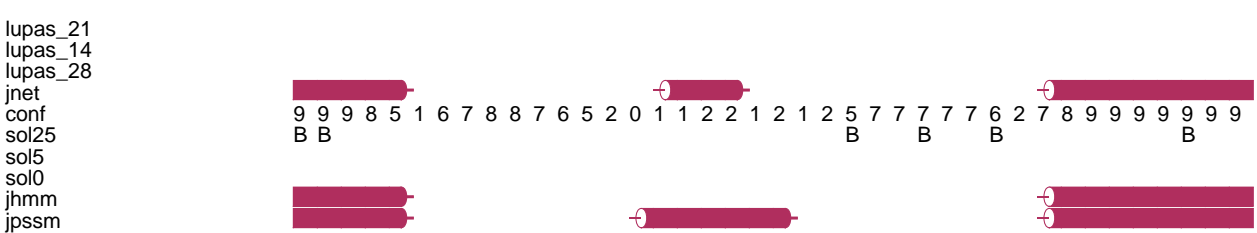
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