

QUERY	1	10	20	30	40
UniRef90_E6SLW3	V A R G L E G V L F T E S S R M C Y I D D G G Q Q G G K L L Y Y Y G P	L E D V V A G T E S S A I M C F I I D G G Q Q G G R L L Y Y R G G Y D V	D D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_UPI0003690EF1	I A R G L E G V L F T E S S A I M C C F I I D D G G Q Q G G R L L Y Y R G G Y K P	R G L E G V L F T E S S A I M C C F I I D D G G Q Q G G R L L Y Y R G G Y K P	D D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_UPI000365B49B	D P G F T S T A S C C K S S A I T F I D D G G Q Q G G R L L Y Y R G G Y K P	P G F T S T A S C C K S S A I T F I D D G G Q Q G G R L L Y Y R G G Y K P	D D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_E31M6	D P G F T S T A S C C K S S A I T F I D D G G Q Q G G R L L Y Y R G G Y K P	P G F T S T A S C C K S S A I T F I D D G G Q Q G G R L L Y Y R G G Y K P	D D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_D9QIX4	D P G F T S T A S C C K S S A I T F I D D G G Q Q G G R L L Y Y R G G Y K P	P G F T S T A S C C K S S A I T F I D D G G Q Q G G R L L Y Y R G G Y K P	D D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_A9BD21	P G L E G V L P A T L S S I V S Y V D D G G Q Q G G R L L Y Y R G G Y K P	G L E G V L P A T L S S I V S Y V D D G G Q Q G G R L L Y Y R G G Y K P	D D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_UPI00040BCBA0	M D P G F K N T G S T T S S I T F L D D G G E Q G G I L L R Y R G G Y N P	D P G F K N T G S T T S S I T F L D D G G E Q G G I L L R Y R G G Y N P	D D G G E Q G G I L L R Y R G G Y N P	E E E L L A A E K S S S D	A A E K S S S D
UniRef90_H3NUH6	D P G F T S T A S C C K S S A I T F I D D G G Q Q G G R L L Y Y R G G Y K P	P G F T S T A S C C K S S A I T F I D D G G Q Q G G R L L Y Y R G G Y K P	D D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_UPI000380FE7F	D P G Y T S T G A C C D S S A I T F I D D G G Q Q G G R L L Y Y R G G Y K P	P G Y T S T G A C C D S S A I T F I D D G G Q Q G G R L L Y Y R G G Y K P	D D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_D5QGB3	D P G Y G E T A S C C T S S E I T F I D D G G E K G G I L L R Y R G G Y P P	P G Y G E T A S C C T S S E I T F I D D G G E K G G I L L R Y R G G Y P P	D D G G E K G G I L L R Y R G G Y P P	A D D Q L L A A N Q A E T	A A E K A T E T
UniRef90_A5WC24	D P G F K V T A P V E S S I T Y Y V D D G G Q Q G G R L L Y Y R G G Y K P	P G F K V T A P V E S S I T Y Y V D D G G Q Q G G R L L Y Y R G G Y K P	D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_U3Q0E1	K P G L E G V L P A T L S S I V S Y V D D G G Q Q G G R L L Y Y R G G Y K P	G L E G V L P A T L S S I V S Y V D D G G Q Q G G R L L Y Y R G G Y K P	D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_H8KQW0	G Y K N T G A T K S S A I T F L D D G G E Q G G I L L R Y R G G Y N P	Y K N T G A T K S S A I T F L D D G G E Q G G I L L R Y R G G Y N P	D D G G E Q G G I L L R Y R G G Y N P	E E E L L A A E K S S S D	A A E K S S S D
UniRef90_E6N958	V E K G L E N T A K E T R L S S I V D D G G Q Q G G R L L Y Y R G G Y K P	K G L E N T A K E T R L S S I V D D G G Q Q G G R L L Y Y R G G Y K P	D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_UPI00036DFA1D	D P G F V S T A S C C E S S A I T F I D D G G Q Q G G R L L Y Y R G G Y K P	P G F V S T A S C C E S S A I T F I D D G G Q Q G G R L L Y Y R G G Y K P	D D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_A7HY04	D P G F T S T A S C C D S S A I T F I D D G G Q Q G G R L L Y Y R G G Y K P	P G F T S T A S C C D S S A I T F I D D G G Q Q G G R L L Y Y R G G Y K P	D D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_G2IJ31	D P G F T S T A S C C D S S A I T F I D D G G Q Q G G R L L Y Y R G G Y K P	P G F T S T A S C C D S S A I T F I D D G G Q Q G G R L L Y Y R G G Y K P	D D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_UPI0001FFDBD1	D P G F T S T A A C C S S A I T F I D D G G Q Q G G R L L Y Y R G G Y K P	P G F T S T A A C C S S A I T F I D D G G Q Q G G R L L Y Y R G G Y K P	D D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_UPI00026257D1	D P G Y V N T G A C C T S S A I T F L D D G G E Q G G I L L R Y R G G Y S P	P G Y V N T G A C C T S S A I T F L D D G G E Q G G I L L R Y R G G Y S P	D D G G E Q G G I L L R Y R G G Y S P	E E E L L A A E H S S T	A A E H S S T
UniRef90_A8MB64	I I H G L E G V L K V T S I S D I D D G G R K G I L L W Y R G G Y R P	H G L E G V L K V T S I S D I D D G G R K G I L L W Y R G G Y R P	D D G G R K G I L L W Y R G G Y R P	D D D Q L L A K E Y S T	A A E K Y S T
UniRef90_UPI0004112CBF	V D P G F S A T A S C A S S A I T F I D D G G E Q G G I L L R Y R G G Y P P	D P G F S A T A S C A S S A I T F I D D G G E Q G G I L L R Y R G G Y P P	D D G G E Q G G I L L R Y R G G Y P P	E E E L L A A A R S S N	A A A R S S N
UniRef90_UPI0003F84940	D P G F M N T A A C C S S A I T F I D D G G Q Q G G R L L Y Y R G G Y K P	P G F M N T A A C C S S A I T F I D D G G Q Q G G R L L Y Y R G G Y K P	D D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_UPI0003809519	D P G F K N T G S T K S S A I T F L D D G G E Q G G I L L R Y R G G Y R P	P G F K N T G S T K S S A I T F L D D G G E Q G G I L L R Y R G G Y R P	D D G G E Q G G I L L R Y R G G Y R P	E E E L L A A A K S T S	A A A K S T S
UniRef90_I5C4Q8	D P G F L N T A S C C K S S A I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	P G F L N T A S C C K S S A I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_B4SES9	D P G F L N T A S C C K S S A I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	P G F L N T A S C C K S S A I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_F6FPT7	V D P G F M N T A S C C E S S A I T F I D D G G Q Q G G R L L Y Y R G G Y K P	D P G F M N T A S C C E S S A I T F I D D G G Q Q G G R L L Y Y R G G Y K P	D D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_I2GP84	D K G Y K N T A S C T Q S S A I T F I D D G G E Q G G I L L R Y R G G Y S P	K G Y K N T A S C T Q S S A I T F I D D G G E Q G G I L L R Y R G G Y S P	D D G G E Q G G I L L R Y R G G Y S P	E E E L L A A D G K A S	A A D G K A S
UniRef90_C3X450	D P G F L A T A S C S S A I S Y I D D G G Q Q G G R L L Y Y R G G Y K P	P G F L A T A S C S S A I S Y I D D G G Q Q G G R L L Y Y R G G Y K P	D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_M1Z4J4	K G L E G V V A A T S E I S S I V D D G G Q Q G G R L L Y Y R G G Y K P	G L E G V V A A T S E I S S I V D D G G Q Q G G R L L Y Y R G G Y K P	D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_UPI000376963A	D P G F T S T A S C C E S S A I T F I D D G G Q Q G G R L L Y Y R G G Y K P	P G F T S T A S C C E S S A I T F I D D G G Q Q G G R L L Y Y R G G Y K P	D D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_Q7UPW5	G F V N T G S T R S A I T F L D D G G E Q G G I L L R Y R G G Y P P	F V N T G S T R S A I T F L D D G G E Q G G I L L R Y R G G Y P P	D D G G E Q G G I L L R Y R G G Y P P	E E E L L A A K S C D	A A K S C D
UniRef90_D3ECL8	K G L E G V A T T S A I S S I V D D G G Q Q G G R L L Y Y R G G Y K P	G L E G V A T T S A I S S I V D D G G Q Q G G R L L Y Y R G G Y K P	D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_A9WPA9	D P G F M N T A T T S A I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	P G F M N T A T T S A I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	D D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_Q3J7W5	P G L E G V P A T Q S S A I S D V D D G G E R G I L L S Y R G G Y P P	G L E G V P A T Q S S A I S D V D D G G E R G I L L S Y R G G Y P P	D D G G E R G I L L S Y R G G Y P P	E E E L L A A E R S T	A A E R S T
UniRef90_G8S5J3	D Q G F V N T A S T T S A I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	Q G F V N T A S T T S A I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_B5IBC5	K G L E G V I A A L S S A I S A I D D G G K G G I L L Y R G G I P P	G L E G V I A A L S S A I S A I D D G G K G G I L L Y R G G I P P	D D G G K G G I L L Y R G G I P P	E E E M L L A K Y S T	A A K Y S T
UniRef90_G4R8V4	D P G F T S T A A C D S S A I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	P G F T S T A A C D S S A I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_Q59977	K E G L A G V P A A K S R S V S H V D D G G T D G G I L E Y R G G I P P	G L A G V P A A K S R S V S H V D D G G T D G G I L E Y R G G I P P	D D G G T D G G I L E Y R G G I P P	E E E Q Q D L L A K S S S	A A K S S S
UniRef90_UPI0003707401	P G L E G V P A T Q S S A I S S N F V D G G Q Q G G I L L S Y R G G Y R P	G L E G V P A T Q S S A I S S N F V D G G Q Q G G I L L S Y R G G Y R P	D G G Q Q G G I L L S Y R G G Y R P	E E D L L A A H S T	A A H S T
UniRef90_A5GWC0	A K G L E G V A T T S A I S S I V D D G G Q Q G G R L L Y Y R G G Y K P	K G L E G V A T T S A I S S I V D D G G Q Q G G R L L Y Y R G G Y K P	D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_U1Y8X3	D P G Y K N T G S C C E S S A I T F I D D G E K G G I L L R Y R G G Y S P	P G Y K N T G S C C E S S A I T F I D D G E K G G I L L R Y R G G Y S P	D D G E K G G I L L R Y R G G Y S P	E E D E L L A E K A D D	A A E K A D D
UniRef90_A8UGW1	D P G F V S T A S C C E S S A I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	P G F V S T A S C C E S S A I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	D D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_Q1N611	D P G F L S T A S C C Q S S A I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	P G F L S T A S C C Q S S A I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	D D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_UPI0003615CE1	K G L A G I P V A E S S A I S F V D D G G Q Q G G R L L Y Y R G G Y K P	G L A G I P V A E S S A I S F V D D G G Q Q G G R L L Y Y R G G Y K P	D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_UPI00037915B5	D P G F M N T A N A R S A I T Y I D D G G N N G G I L L R Y R G G Y P P	P G F M N T A N A R S A I T Y I D D G G N N G G I L L R Y R G G Y P P	D D G G N N G G I L L R Y R G G Y P P	E E E L L A A Q H S S S	A A Q H S S S
UniRef90_UPI0002EA8236	D P G F M N T A S L S S A I T F I D D G G Q Q G G R L L Y Y R G G Y K P	P G F M N T A S L S S A I T F I D D G G Q Q G G R L L Y Y R G G Y K P	D D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_D2W3U4	D P S F M N T A V A D S S A I C Y I D D G G E A G G I L L R Y R G G Y K P	P S F M N T A V A D S S A I C Y I D D G G E A G G I L L R Y R G G Y K P	D D G G E A G G I L L R Y R G G Y K P	E E E L L A A E K S S S	A A E K S S S
UniRef90_G8AWA4	D P G F T S T A S C C E S S A I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	P G F T S T A S C C E S S A I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	D D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_A1SF26	D P G F V N T A S C C T S S E I T F I D D G G E K G G I L L R Y R G G Y P P	P G F V N T A S C C T S S E I T F I D D G G E K G G I L L R Y R G G Y P P	D D G G E K G G I L L R Y R G G Y P P	E E E Q L L A E S S S T	A A E S S S T
UniRef90_M9TRP9	G Y G N T A A Y K S A I T F I D D G G E Q G G I L L R Y R G G Y P P	Y G N T A A Y K S A I T F I D D G G E Q G G I L L R Y R G G Y P P	D D G G E Q G G I L L R Y R G G Y P P	E E E Q L L A E S S S T	A A E S S S T
UniRef90_V6J9T8	R G L E G V V A T T S A I S S I V D D G K D D V L T Y R G G Y S P	G L E G V V A T T S A I S S I V D D G K D D V L T Y R G G Y S P	D D G K D D V L T Y R G G Y S P	M D D V L L A E Q S S T	A A E Q S S T
UniRef90_D0RP48	D P G F T S T G S C C E S S A I T F I D D G G Q Q G G R L L Y Y R G G Y K P	P G F T S T G S C C E S S A I T F I D D G G Q Q G G R L L Y Y R G G Y K P	D D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_W2EBB7	K G L E G I V A T T S S I S S I V D D G G V L T Y R G G I P P	G L E G I V A T T S S I S S I V D D G G V L T Y R G G I P P	D D G G V L T Y R G G I P P	E E E L L A A E R A S	A A E R A S
UniRef90_G2EBH3	I D P G Y K N T G S C C E S S A I T F L D D G G E K G G I L L R Y R G G Y S P	D P G Y K N T G S C C E S S A I T F L D D G G E K G G I L L R Y R G G Y S P	D D G G E K G G I L L R Y R G G Y S P	E E E L L A A E K A D D	A A E K A D D
UniRef90_K7YHH9	D P G F N S T G S C C E S S A I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	P G F N S T G S C C E S S A I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	D D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_D8JZA3	D P G F T S T A S C C K S S A I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	P G F T S T A S C C K S S A I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	D D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_M4VY20	D P S F M A T G S C C K S R I T F I D D G G Q Q G G R L L Y Y R G G Y K P	P S F M A T G S C C K S R I T F I D D G G Q Q G G R L L Y Y R G G Y K P	D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_K7SS20	D P G L V S T A T C C T S S E I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	P G L V S T A T C C T S S E I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_C5C0Y6	V D P G F M N T A S C C T S S E I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	D P G F M N T A S C C T S S E I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	D D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_B9LUG8	K R G L E G V L V A E S D L S Y V D D G G E V G K L V Y R G G Y D P	G L E G V L V A E S D L S Y V D D G G E V G K L V Y R G G Y D P	D D G G E V G K L V Y R G G Y D P	E E E D L L A R G G A S S	A A R G G A S S
UniRef90_A3TGT8	G F V N T A S C C N S A I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	F V N T A S C C N S A I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_A0A017TCE3	D P A F V N T A S T K S S A I T F I D D G G E Q G G I L L R Y R G G I P P	P A F V N T A S T K S S A I T F I D D G G E Q G G I L L R Y R G G I P P	D D G G E Q G G I L L R Y R G G I P P	E E E V L L A G E K S N	A A G E K S N
UniRef90_A0A031FRU9	D P G F V N T A S T K S S A I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	P G F V N T A S T K S S A I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	D D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_I0YWX6	D P G Y V N T S A V K S A I S F I D D G G Q Q G G R L L Y Y R G G Y K P	P G Y V N T S A V K S A I S F I D D G G Q Q G G R L L Y Y R G G Y K P	D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_H8FSU6	D P G Y T S T G S C C K S A I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	P G Y T S T G S C C K S A I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	D D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_UPI0003706DCC	D P G F V S T A A C D S S A I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	P G F V S T A A C D S S A I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	D D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_DOMCP9	V K K G L A G V I A D E S S A I S N V F P E K R A L Y Y R G G Y P P	G L A G V I A D E S S A I S N V F P E K R A L Y Y R G G Y P P	D P E K R A L Y Y R G G Y P P	H E E L L A E K C R	A A E K C R
UniRef90_UPI0004764D21	P G L A G I P V A E S S A I S F V D D G G N K G H L E Y R G G I P P	G L A G I P V A E S S A I S F V D D G G N K G H L E Y R G G I P P	D D G G N K G H L E Y R G G I P P	E E E T L L A E K K D	A A E K K D
UniRef90_UPI0003B328F9	D P G F T S T A S C C K S A I T F I D D G G N N G G I L L R Y R G G Y P P	P G F T S T A S C C K S A I T F I D D G G N N G G I L L R Y R G G Y P P	D D G G N N G G I L L R Y R G G Y P P	E E E Q L L A V Q S S D	A A V Q S S D
UniRef90_V4XUC3	K R G L E G V L V A E S S I S E I V D D G G Q Q G G R L L Y Y R G G Y K P	G L E G V L V A E S S I S E I V D D G G Q Q G G R L L Y Y R G G Y K P	D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_F0SQG0	K G L K N L V A A D S S I S H V D D G G Q S G G Q L I Y C G Y H I	G L K N L V A A D S S I S H V D D G G Q S G G Q L I Y C G Y H I	D D G G Q S G G Q L I Y C G Y H I	D D D E L L A V N S T	A A V N S T
UniRef90_P09948	D P G F M S T A S C C Q S T I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	P G F M S T A S C C Q S T I T Y I D D G G Q Q G G R L L Y Y R G G Y K P	D D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_R9TBT1	G L R N G V K A A T S K I S K Y V D D G G Q N G I L L Y R G G Y R P	L R N G V K A A T S K I S K Y V D D G G Q N G I L L Y R G G Y R P	D D G G Q N G I L L Y R G G Y R P	E E E L L A R K S D	A A R K S D
UniRef90_W5TE54	D P G F T N T A P T K S A I T Y I D D G G E A G G I L L R Y R G G Y P P	P G F T N T A P T K S A I T Y I D D G G E A G G I L L R Y R G G Y P P	D D G G E A G G I L L R Y R G G Y P P	E E E Q L L A A G K S N	A A A G K S N
UniRef90_L0K099	K G L E G V L V A E S S I S S V D D G G A G G R L I Y R G G Y P P	G L E G V L V A E S S I S S V D D G G A G G R L I Y R G G Y P P	D D G G A G G R L I Y R G G Y P P	E E E D L L A R G G A S S	A A R G G A S S
UniRef90_R4VDH3	D P G Y S T S G S C C S S I T F I D D G G Q Q G G R L L Y Y R G G Y K P	P G Y S T S G S C C S S I T F I D D G G Q Q G G R L L Y Y R G G Y K P	D D D G G Q Q G G R L L Y Y R G G Y K P	V R Q E D L L A A E H S S T	A A E H S S T
UniRef90_Q6EUF8	D P G Y L N T A P V R S S I C Y I D D G G E Q G G I L L R Y R G G Y P P	P G Y L N T A P V R S S I C Y I D D G G E Q G G I L L R Y R G G Y P P	D D G G E Q G G I L L R Y R G G Y P P	E	

QUERY UniRef90_E6SLW3 UniRef90_UPI0003690EF1 UniRef90_UPI000365B49B UniRef90_E31M6 UniRef90_D9QIX4 UniRef90_A9BD21 UniRef90_UPI00040BCBA0 UniRef90_H3NUH6 UniRef90_UPI000380FE7F UniRef90_D5QGB3 UniRef90_A5WC24 UniRef90_U3Q0E1 UniRef90_H8KQW0 UniRef90_E6N958 UniRef90_UPI00036DFA1D UniRef90_A7HY04 UniRef90_G2IJ31 UniRef90_UPI0001FFDBD1 UniRef90_UPI00026257D1 UniRef90_A8MB64 UniRef90_UPI0004112CBF UniRef90_UPI0003F84940 UniRef90_UPI0003809519 UniRef90_I5C4Q8 UniRef90_B4SE59 UniRef90_F6FPT7 UniRef90_I2GP84 UniRef90_C3X450 UniRef90_M1Z4J4 UniRef90_UPI000376963A UniRef90_Q7UPW5 UniRef90_D3ECL8 UniRef90_A9WPA9 UniRef90_Q3J7W5 UniRef90_G8S5J3 UniRef90_B5IBC5 UniRef90_G4R8V4 UniRef90_Q59977 UniRef90_UPI0003707401 UniRef90_A5GWC0 UniRef90_U1Y8X3 UniRef90_A8UGW1 UniRef90_Q1N611 UniRef90_A1W9L4 UniRef90_UPI0003615CE1 UniRef90_UPI00037915B5 UniRef90_UPI0002EA8236 UniRef90_D2W3U4 UniRef90_G8AWA4 UniRef90_A1SF26 UniRef90_M9TRP9 UniRef90_V6J9T8 UniRef90_DORP48 UniRef90_W2EBB7 UniRef90_G2EBH3 UniRef90_K7YHH9 UniRef90_D8JZA3 UniRef90_M4VY20 UniRef90_K7SS20 UniRef90_C5C0Y6 UniRef90_B9LUG8 UniRef90_A3TGT8 UniRef90_A0A017TCE3 UniRef90_A0A031FRU9 UniRef90_I0YWX6 UniRef90_H8FSU6 UniRef90_UPI0003706DCC UniRef90_DOMCP9 UniRef90_UPI0004764D21 UniRef90_UPI0003B328F9 UniRef90_V4XUC3 UniRef90_F0SQG0 UniRef90_P09948 UniRef90_R9TBT1 UniRef90_W5TE54 UniRef90_L0K099 UniRef90_R4VDH3 UniRef90_Q6EUF8 UniRef90_H2C7T0 UniRef90_T1D1T2 UniRef90_UPI0003689E04 UniRef90_BOSEJ3 UniRef90_W0JNA0 UniRef90_Q0C1A7 UniRef90_U3GTJ6 UniRef90_UPI0002624EFF UniRef90_UPI00029A1223 UniRef90_UPI0003161175 UniRef90_UPI00029A740F UniRef90_H5SH60 UniRef90_I3ZKJ8

F E E T T F L L L H G R L L P R R R Q E L L E E F S A Q Q A L R L R R R A L P A G Q H L L E S F
F E E V V Y L L L W H G R L L P N S R R A Q E L L E E F S A Q Q A L R L R R R A L P A G Q H L L E S F
F E E V V A F L L L L H G H L L P T A T A A A E E L L D A F F V Q Q K E L L T S L Q A L L P A G Q H L L E S F
F L E E V A Y L L L L N G G E L L P N T A T A A E E L L D A F F V Q Q K E L L T S L Q A L L P A G Q H L L E S F
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F L E T T Y L L L L W G N L L P N T A T A A E E L L D A F F V Q Q K E L L T S L Q A L L P A G Q H L L E S F
F L E V S W L L L I Y G G E L L P N T A T A A E E L L D A F F V Q Q K E L L T S L Q A L L P A G Q H L L E S F
Y L E T T C Y L L L L N G G E L L P N T A T A A E E L L D A F F V Q Q K E L L T S L Q A L L P A G Q H L L E S F
F L E T T C Y L L L L N G G E L L P N T A T A A E E L L D A F F V Q Q K E L L T S L Q A L L P A G Q H L L E S F
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Y L E T T C Y A L L L H G R L L P N T A E Q K A D F F E E K V I R Y R R R I K Y R I R D M M M
F L E T T S Y L L L I W G K L L P T T Q T E Q L E T A D F F Q S F R M S R S H T L V H H H Q Q L T R N F F F
Y E E V C Y L L L L H G R L L P T T R T E L E N K Y V A D T I M S H H T M V H H H Q Q L T R N F F F
F L E T T C Y L L L M N G G L L P T D A A E E Q K K A D T F F V T Q D K H H H T L L H H H Q Q L T R N F F F
F M E V A Y L L L L R G G D L L P T S K Q Q E L L D K G V W T T S R H H T M V H H H Q Q L T R N F F F
F L E V S Y L L L I Y G G D L L P T V E Q L L E E F F R C N N V L T M H H T M L H H H Q Q L T R N F F F
F E E T A Y L L V L Y G G K L L P T T R K E Q L L S E V F S E R G I A S N R R D L V P E E H Q Q L T R N F F F
F L E V T Y L L L W Y G G K L L P N E S Q Q L Q Q F T H E V H H H T M I N E E S L R L F Y F
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Y E E T A Y L L L L Y G G E L L P T K E A L E K F F S A Q M R E L R V I P K K V M E E C
Y T E V C Y L L L L Y G G E L L P S K A E L L K D F F E N R V I T R H H T M V H H H Q Q L T R N F F F
F L E V A Y L L L I W G K L L P T Q A E T L E E F F E Y E I R T Q F H H R R L K Y H I R D M M M
F L E T A Y L L L I W N E L L P S A E A L R E F F Q H D V L Q M H H R R V S F R I R D M L
F E E V V Y L L L W H G L L P K A D E L L A Q K K D A E N A T I V D D D I K K L L
F L E T S Y L L L L H G G E L L P T Q A E E K D K F F N T I V T H H H T M V H H H Q Q L T R N F F F
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Y L E V C H L L L L R G G L L P N P Q S Q Q Y N E F R T I T Y H H T M V H H H Q Q L T R N F F F
F L E V A Y L L L V H G G L L P T R A D E L L E A W V H E I T Y H H T F V H H H E N V K R F F M
F L E V A Y T L L L N G G D L L P K A D E L L Q A F K A N E L A E N A S V P N E L F E F M
F E E T I Y L L L W N G G E L L P T A D Q L L Q A F K A N E L A E N A S V P N E L F E F M
F L E V A Y L L L W Y G G L L P S K T E W T E F S D A I K N H H T M V H H H Q Q L T R N F F F
F E E V I Y L L L W F G G L L P N S R S E L L E Q L R K D L N E N M S I P D G G I L Q Q L
F L E V A Y L L L I F G G E L L P T H T Q L L D K F F H T D I K A Q S V V D E D L R K I V
F M D V A H I L L L N G G L L P T P K Q K K S F F R H T I T Y H H T M L H H H Q Q L T R N F F F
F L A V C Y L L L L Y G G E L L P N N T E F L N F R T I T Y H H T M V H H H Q Q L T R N F F F
F M E V C Y A L L L Y G G D L L P N A K E L L K E F F E H N T I T Y H H T M V H H H Q Q L T R N F F F
F T E T A Y L L L M Y G G E L L P T T P Q Y Q A F Q A D M E R H H T H L H H H E N F R N F F
F L E V A Y L L L W H G G L L P N A A E L L G A F V E R V E R H H T H L H H H E N F R N F F
Y E E V L Y L L L W R G G L L P T R E E L L D A F T A D L A A E R A V D D D A L D A V
F L E T S Y L L L I Y G G L L P S A T E L L E N F T E R V L R Q H H T M L H H H Q Q L T R N F F F
F V E T S Y L L L I Y G G L L P N S R S E L L S R F S T L T R H H S L H H H E D M K R F F
Y L E V A W L L L I Y G G E L L P T A D E L L A G W D E K I R R R H H T L L H H H Q Q L T R N F F F
F T E V A Y L L L V Y G G L L P D A R E L L A R W D E A L M S R H S A V P D A V I R A V
F L E A F L L L L K G G E L L P N D A Q M T K F V T D I L S R H S S M L N E Q Q L T R N F F F
Y L E T C Y L L L L N G G E L L P T A E Q K Q T F F V N T V K K H H T M V H H H Q Q L T R N F F F
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F L E V A Y L L L M I Y G G L L P S S A D Q Y C N F T K K V A H H S L V P N E R L H Y L F
F E E T A Y L L L L Y G G L L P N K Q L L E E F S E A V R R E Y R K L P D D D L G S S L
F L E V S Y L L L I Y G G L L P T Q A Q L L E D F T D R I R R H H T L L H H H Q Q L T R N F F F
Y E E V V Y L L L W H G G L L P T A E Q L L D S F T A S L N E E R A V D D D V L E T V
F L E V A R L L L I H G G L L P T K T E L L A H F E T A S I T H H T M V H H H Q Q L T R N F F F
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F T E V A Y L L L I Y G K L L P N D A Q L L K E W N S S L T K H T M I H H H Q Q L T R N F F F
Y E E V A Y L L L W H G G L L P D E E E L A E F S E A M A A E R D V D D A Q Q D R F F
Y L E L C Y L L L L N G G L L P T K D E Y E A F G K D V R Q H H T L L H H H Q Q L T R N F F F
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F L E V V F L L L I F G G L L P N K E E L L D K F K E D I K H Q S E V N L D M K K V L
F E E L I Y L L L W H S K L L P N S E E L L S T L K Q Q L V D N A S I P Q A V I D H F
F E E T A Y L L L L E K G G L L P N P Q Q L L A E F N K V L V K H R E I E P S I L A F L
F L E V A Y L L L I H G G L L P T G E E L R Q W E W I R H H T L L H H H Q Q L T R N F F F
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QUERY UniRef90_E6SLW3 UniRef90_UPI0003690EF1 UniRef90_UPI000365B49B UniRef90_E31M6 UniRef90_D9QIX4 UniRef90_A9BD21 UniRef90_UPI00040BCBA0 UniRef90_H3NUH6 UniRef90_UPI000380FE7F UniRef90_D5QGB3 UniRef90_A5WC24 UniRef90_U3Q0E1 UniRef90_H8KQW0 UniRef90_E6N958 UniRef90_UPI00036DFA1D UniRef90_A7HY04 UniRef90_G2J31 UniRef90_UPI0001FFDBD1 UniRef90_UPI00026257D1 UniRef90_A8MB64 UniRef90_UPI0004112CBF UniRef90_UPI0003F84940 UniRef90_UPI0003809519 UniRef90_I5C4Q8 UniRef90_B4SES9 UniRef90_F6FPT7 UniRef90_I2GP84 UniRef90_C3X450 UniRef90_M1Z4J4 UniRef90_UPI000376963A UniRef90_Q7UPW5 UniRef90_D3ECL8 UniRef90_A9WPA9 UniRef90_Q3J7W5 UniRef90_G8S5J3 UniRef90_B5IBC5 UniRef90_G4R8V4 UniRef90_Q59977 UniRef90_UPI0003707401 UniRef90_A5GWC0 UniRef90_U1Y8X3 UniRef90_A8UGW1 UniRef90_Q1N611 UniRef90_A1W9L4 UniRef90_UPI0003615CE1 UniRef90_UPI00037915B5 UniRef90_UPI0002EA8236 UniRef90_D2W3U4 UniRef90_G8AWA4 UniRef90_A1SF26 UniRef90_M9TRP9 UniRef90_V6J9T8 UniRef90_DORP48 UniRef90_W2EBB7 UniRef90_G2EBH3 UniRef90_K7YHH9 UniRef90_D8JZA3 UniRef90_M4VY20 UniRef90_K7SS20 UniRef90_5C0Y6 UniRef90_B9LUG8 UniRef90_A3TGT8 UniRef90_UPI00017TCE3 UniRef90_UPI00031FRU9 UniRef90_I0YWX6 UniRef90_UPI00031FRU9 UniRef90_H8FSU6 UniRef90_UPI0003706DCC UniRef90_DOMCP9 UniRef90_UPI0004764D21 UniRef90_UPI0003B328F9 UniRef90_V4XUC3 UniRef90_F0SQG0 UniRef90_P09948 UniRef90_R9TBT1 UniRef90_W5TE54 UniRef90_L0K099 UniRef90_R4VDH3 UniRef90_Q6EUF8 UniRef90_H2C7T0 UniRef90_T1D1T2 UniRef90_UPI0003689E04 UniRef90_BOSEJ3 UniRef90_W0JNA0 UniRef90_Q0C1A7 UniRef90_U3GTJ6 UniRef90_UPI0002624EFF UniRef90_UPI00029A1223 UniRef90_UPI0003161175 UniRef90_UPI00029A740F UniRef90_H5SH60 UniRef90_I3ZKJ8

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

QUERY	D	L	I	A	K	F	A	T	130	V	A	A	N	K	R	L	K	E	G	140	P	I	P	P	R	R	D	L	150	S	H	A	A	N	F	L	Y	M	A	N					
UniRef90_E6SLW3	R	L	V	A	Q	F	A	T	L	V	A	A	N	K	R	L	K	E	G	K	E	P	I	P	P	R	R	D	L	S	L	A	A	N	F	L	Y	M	L	R	N				
UniRef90_UPI0003690EF1	S	R	L	I	A	K	F	A	T	L	V	A	A	N	K	R	L	K	E	G	K	E	P	I	P	P	R	R	D	L	S	L	A	A	N	F	L	Y	M	L	R	N			
UniRef90_UPI000365B49B	R	L	I	A	K	F	A	T	L	V	A	A	N	K	R	L	K	E	G	K	E	P	I	P	P	R	R	D	L	S	L	A	A	N	F	L	Y	M	L	R	N				
UniRef90_E31M6	R	M	I	A	K	M	P	T	L	A	A	T	A	F	K	Y	S	I	L	G	Q	Q	P	F	I	Y	P	P	R	N	N	Q	L	D	E	Y	A	S	N	F	L	Y	M	M	F
UniRef90_D9QIX4	R	L	I	A	K	M	P	T	L	A	A	R	A	F	Y	K	H	I	L	G	Q	Q	P	F	I	Y	P	P	R	N	D	N	L	P	N	Y	A	S	N	F	L	Y	M	M	F
UniRef90_A9BD21	R	L	I	A	K	P	T	M	V	A	A	F	Q	L	M	R	K	G	N	D	P	V	Q	P	P	R	D	D	L	S	Y	C	E	R	F	L	L	K	M	M	F				
UniRef90_UPI00040BCBA0	R	L	I	A	K	P	T	I	A	A	W	S	Y	K	N	E	M	G	H	P	V	N	Y	P	P	D	N	S	L	S	Y	C	E	R	F	L	L	K	M	M	F				
UniRef90_H3NUH6	F	R	I	A	K	M	P	T	I	A	A	M	S	Y	K	F	S	V	G	Q	Q	P	F	F	Y	P	P	R	N	S	L	D	D	Y	A	S	S	N	F	L	L	R	M	V	F
UniRef90_UPI000380FE7F	R	L	I	A	K	M	P	T	I	A	A	M	A	Y	K	Y	H	V	G	Q	Q	P	F	F	Y	P	P	R	N	S	L	D	D	Y	A	S	S	N	F	L	L	R	M	V	F
UniRef90_D5QGB3	R	L	I	A	K	P	T	I	A	A	W	A	Y	K	Y	T	Q	G	D	A	F	V	Y	P	P	R	N	S	L	S	Y	A	E	N	F	L	L	S	M	M	F				
UniRef90_A5WC24	R	L	I	A	K	M	P	T	I	A	A	M	S	Y	K	Y	T	K	G	N	D	P	F	Y	P	P	R	N	S	L	S	Y	A	E	N	F	L	L	S	M	M	F			
UniRef90_U3Q0E1	R	L	L	A	K	P	T	M	V	A	A	F	Q	L	M	R	K	G	N	D	P	V	Q	P	P	R	D	D	L	S	Y	A	S	A	N	F	L	L	Y	M	M	L	N		
UniRef90_H8KQW0	R	M	F	A	K	M	P	T	I	V	S	W	I	Y	K	K	A	G	H	P	V	M	Y	P	P	K	N	K	L	D	Y	V	S	N	Y	L	L	Y	M	T	F				
UniRef90_E6N958	R	L	I	S	K	V	A	T	L	T	A	T	A	C	Y	R	L	A	R	G	L	E	P	V	E	P	P	R	N	S	L	S	H	A	G	N	F	L	L	Y	M	V	T		
UniRef90_UPI00036DFA1D	H	R	I	A	K	M	P	T	L	A	A	M	A	Y	K	H	S	A	G	G	M	P	F	F	Y	P	P	R	N	S	L	S	Y	S	E	N	F	L	L	H	M	M	F		
UniRef90_A7HY04	R	L	I	A	K	M	P	T	L	A	A	M	A	Y	K	Y	S	A	G	Q	Q	P	F	V	Y	P	P	R	N	D	L	D	Y	A	E	N	F	L	L	H	M	C	F		
UniRef90_G2IJ31	H	R	I	A	K	M	P	T	L	A	A	M	A	Y	K	Y	S	A	G	Q	Q	P	F	V	Y	P	P	R	N	D	L	D	Y	A	E	N	F	L	L	H	M	T	F		
UniRef90_UPI0001FFDDB1	V	R	L	M	K	V	F	T	L	A	A	Y	A	Y	K	Y	S	V	G	Q	Q	P	F	V	Y	P	P	R	N	S	L	G	L	V	E	N	F	L	L	R	M	T	F		
UniRef90_UPI00026257D1	R	L	V	G	K	L	P	T	I	A	A	W	S	Y	K	K	N	S	G	Q	Q	P	F	V	Y	P	P	K	N	H	L	D	Y	C	A	N	F	L	L	R	M	M	F		
UniRef90_A8MB64	R	L	T	A	V	L	P	T	I	A	A	H	Y	R	F	S	R	G	L	G	V	L	K	P	P	K	K	N	L	S	H	A	A	N	F	L	L	Y	M	M	F				
UniRef90_UPI0004112CBF	R	L	I	A	K	M	P	T	L	A	A	W	A	Y	K	N	S	N	G	H	P	V	N	Y	P	P	K	N	K	F	N	Y	I	E	N	F	L	L	Y	M	M	F			
UniRef90_UPI0003F84940	R	L	V	A	K	M	P	T	L	A	A	A	Y	K	Y	T	M	G	Q	Q	P	Q	I	Y	P	P	K	N	S	L	S	Y	A	G	N	F	L	L	H	M	M	F			
UniRef90_UPI0003809519	I	R	L	M	K	V	P	T	L	A	S	A	Y	A	K	K	S	V	G	Q	Q	P	L	M	Y	P	P	A	N	K	L	G	Y	V	E	S	D	F	L	L	R	M	T	F	
UniRef90_I5C4Q8	R	L	L	A	K	M	P	T	F	A	A	W	A	Y	K	N	E	V	G	H	P	V	N	Y	P	P	D	N	E	L	S	Y	T	A	N	F	L	L	S	M	M	H			
UniRef90_B4SE59	R	L	I	G	K	T	P	T	L	A	A	M	S	F	R	H	S	L	G	F	P	Y	L	L	P	P	D	N	E	L	S	Y	T	A	N	F	L	L	S	M	M	H			
UniRef90_F6FPT7	V	L	I	A	K	I	R	T	L	T	S	Y	V	H	R	S	M	R	D	E	P	L	L	Y	P	P	D	D	A	R	G	Y	V	I	P	D	N	F	L	L	R	M	Y	E	
UniRef90_I2GP84	R	L	L	A	K	L	P	T	M	A	T	W	S	Y	K	K	S	R	G	H	P	V	N	Y	P	P	K	N	T	L	D	Y	I	P	N	F	L	L	R	M	M	F			
UniRef90_C3X450	R	L	L	A	K	M	P	T	L	V	A	M	S	Y	K	Y	N	A	G	Q	Q	P	F	V	Y	P	P	R	K	D	L	Y	T	A	N	F	L	L	M	R	M	M	F		
UniRef90_M1Z4J4	K	L	V	A	K	M	P	T	L	V	A	A	W	G	R	L	R	N	G	E	E	P	I	A	P	P	P	R	D	D	F	G	Y	V	Q	N	F	L	L	Y	M	L	S		
UniRef90_UPI000376963A	R	M	I	A	K	M	P	T	L	A	A	R	A	Y	K	Y	S	V	G	Q	Q	P	F	V	W	P	P	K	N	E	L	D	Y	C	E	N	F	L	L	H	M	M	F		
UniRef90_Q7UPW5	Y	R	I	A	K	L	P	T	I	A	A	Y	S	Y	K	K	S	M	G	Q	Q	P	F	F	Y	P	P	K	N	E	L	D	Y	C	E	N	F	L	L	H	M	M	F		
UniRef90_D3ECL8	K	L	Q	A	Q	L	P	T	I	A	A	I	A	R	V	R	Q	G	K	E	P	V	A	P	P	P	K	A	G	S	I	A	E	N	F	L	L	Y	M	L	R				
UniRef90_A9WPA9	I	R	L	M	K	L	P	V	I	A	A	Y	A	H	K	K	S	Q	G	K	E	P	M	L	Y	P	P	D	N	S	G	M	N	L	V	E	N	F	L	L	R	M	C	F	
UniRef90_Q3J7W5	K	I	I	A	R	M	P	A	L	V	A	M	W	E	H	I	R	N	G	Y	D	P	L	I	P	P	P	D	L	P	I	A	D	N	L	L	Y	M	F	Y					
UniRef90_G8S5J3	R	L	M	A	K	L	P	T	L	A	A	Y	I	Y	K	K	S	H	P	L	P	Y	P	P	P	P	D	N	S	L	D	Y	A	E	N	F	L	L	R	L	T	F			
UniRef90_B5IBC5	R	L	I	A	Q	L	P	T	M	I	A	Y	H	R	A	R	T	I	G	E	V	I	P	P	P	P	D	P	E	L	S	H	A	A	N	F	L	L	R	M	L	H			
UniRef90_G4R8V4	R	M	I	A	K	L	P	T	L	A	A	M	A	Y	K	Y	S	V	G	Q	Q	P	F	V	Y	P	P	R	N	D	L	D	Y	A	S	N	F	L	L	H	M	C	F		
UniRef90_Q59977	R	L	L	A	K	I	P	T	M	V	A	A	F	H	M	L	R	E	G	N	D	P	V	Q	P	P	R	D	D	K	L	D	Y	A	S	N	F	L	L	Y	M	L	T		
UniRef90_UPI0003707401	R	L	L	A	K	I	P	T	M	V	A	A	F	H	M	L	R	E	G	N	D	P	V	Q	P	P	R	D	D	L	P	Y	A	S	N	F	L	L	Y	M	L	T			
UniRef90_A5GWC0	R	L	Q	A	K	V	A	T	V	I	A	A	Y	H	R	L	R	K	G	K	E	P	V	A	P	P	P	R	D	D	F	C	L	A	Q	N	F	L	L	Y	M	L	N		
UniRef90_U1Y8X3	R	L	L	G	K	F	P	V	L	V	A	W	A	M	R	K	H	G	L	P	L	D	Y	G	D	P	P	S	L	G	Y	V	E	N	F	L	L	K	M	M	F				
UniRef90_A8UGW1	H	R	I	A	K	M	P	T	L	A	A	M	V	Y	K	Y	N	I	G	Q	Q	P	F	F	Y	P	P	R	N	D	L	G	Y	S	E	N	F	L	L	H	M	M	F		
UniRef90_Q1N611	R	L	I	A	K	M	P	T	L	V	A	A	M	A	Y	K	Y	G	K	G	E	P	Y	M	Y	P	P	R	N	D	L	S	Y	A	G	N	F	L	L	R	M	M	F		
UniRef90_A1W9L4	N	L	I	A	K	M	P	T	L	V	A	A	H	E	R	M	R	H	G	D	P	I	P	P	P	P	R	D	D	L	S	H	A	A	N	F	L	L	Y	M	L	T			
UniRef90_UPI0003615CE1	R	L	L	A	K	V	P	T	L	A	A	Y	A	Y	K	K	S	K	G	E	P	M	L	Y	P	P	Q	N	D	L	S	Y	T	E	N	F	L	L	R	M	C	F			
UniRef90_UPI00037915B5	A	R	L	A	K	M	P	T	L	A	A	F	A	H	R	H	S	E	G	L	P	V	F	P	P	P	D	N	D	L	G	L	V	T	E	N	F	L	L	Y	M	V	N	F	
UniRef90_UPI0002EA8236	R	L	L	G	K	V	P	T	L	A	A	C	A	Y	H	R	I	L	G	R	P	Y	N	T	P	P	P	V	N	H	L	S	Y	T	E	N	F	L	L	R	M	C	F		
UniRef90_D2W3U4	R	L	I	A	K	M	P	T	M	A	A	M	A	Y	K	Y	S	V	G	Q	Q	P	F	F	Y	P	P	R	N	D	L	S	Y	A	E	N	F	L	L	Y	M	T	F		
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QUERY UniRef90_E6SLW3 UniRef90_UPI0003690EF1 UniRef90_UPI000365B49B UniRef90_E31M6 UniRef90_D9QIX4 UniRef90_A9BD21 UniRef90_UPI00040BCBA0 UniRef90_H3NUH6 UniRef90_UPI000380FE7F UniRef90_D5QGB3 UniRef90_A5WC24 UniRef90_U3Q0E1 UniRef90_H8KQW0 UniRef90_E6N958 UniRef90_UPI00036DFA1D UniRef90_A7HY04 UniRef90_G2IJ31 UniRef90_UPI0001FFDBD1 UniRef90_UPI00026257D1 UniRef90_A8MB64 UniRef90_UPI0003F84940 UniRef90_UPI0003809519 UniRef90_I5C4Q8 UniRef90_B4SES9 UniRef90_F6FPT7 UniRef90_I2GP84 UniRef90_C3X450 UniRef90_M1Z4J4 UniRef90_UPI000376963A UniRef90_Q7UPW5 UniRef90_D3ECL8 UniRef90_A9WPA9 UniRef90_Q3J7W5 UniRef90_G8S5J3 UniRef90_B5IBC5 UniRef90_G4R8V4 UniRef90_Q59977 UniRef90_UPI0003707401 UniRef90_A5GWC0 UniRef90_U1Y8X3 UniRef90_A8UGW1 UniRef90_Q1N611 UniRef90_A1W9L4 UniRef90_UPI0003615CE1 UniRef90_UPI00037915B5 UniRef90_UPI0002EA8236 UniRef90_D2W3U4 UniRef90_G8AWA4 UniRef90_A1SF26 UniRef90_M9TRP9 UniRef90_V6J9T8 UniRef90_DORP48 UniRef90_W2EBB7 UniRef90_G2EBH3 UniRef90_K7YHH9 UniRef90_D8JZA3 UniRef90_M4VY20 UniRef90_K7SS20 UniRef90_C5C0Y6 UniRef90_B9LUG8 UniRef90_A3TGT8 UniRef90_UPI00017TCE3 UniRef90_UPI00031FRU9 UniRef90_I0YWX6 UniRef90_UPI0003706DCC UniRef90_DOMCP9 UniRef90_UPI0004764D21 UniRef90_UPI0003B328F9 UniRef90_V4XUC3 UniRef90_F0SQG0 UniRef90_P09948 UniRef90_R9TBT1 UniRef90_W5TE54 UniRef90_L0K099 UniRef90_R4VDH3 UniRef90_Q6EUF8 UniRef90_H2C7T0 UniRef90_T1D1T2 UniRef90_UPI0003689E04 UniRef90_BOSEJ3 UniRef90_W0JNA0 UniRef90_Q0C1A7 UniRef90_U3GTJ6 UniRef90_UPI0002624EFF UniRef90_UPI00029A1223 UniRef90_UPI0003161175 UniRef90_UPI00029A740F UniRef90_H5SH60 UniRef90_I3ZKJ8

170 180 190 200

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QUERY	V	R	E	K	L	A	K	K	E	R	R	I	M	G	F	G	H	R	V	Y	K	A	F	D	P	R	A	G	V	L	E	K	L	A	R	L	V	A	E	K	H	
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UniRef90_A1SF26	I	Q	G	V	K	D	G	N	E	R	L	M	G	F	F	G	H	R	V	Y	K	N	Y	D	P	R	A	T	V	L	E	K	L	A	R	L	V	A	E	K	H	
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UniRef90_V6J9T8	I	L	N	A	L	E	N	K	K	K	L	M	G	F	F	G	H	R	V	Y	K	N	G	D	P	R	A	T	V	L	E	K	L	A	R	L	V	A	E	K	H	
UniRef90_D0RP48	I	K	K	A	K	D	D</																																			

QUERY UniRef90_E6SLW3 UniRef90_UPI0003690EF1 UniRef90_UPI000365B49B UniRef90_E31M6 UniRef90_D9QIX4 UniRef90_A9BD21 UniRef90_UPI00040BCBA0 UniRef90_H3NUH6 UniRef90_UPI000380FE7F UniRef90_D5QGB3 UniRef90_A5WC24 UniRef90_U3Q0E1 UniRef90_H8KQW0 UniRef90_E6N958 UniRef90_UPI00036DFA1D UniRef90_A7HY04 UniRef90_G2IJ31 UniRef90_UPI0001FFDBD1 UniRef90_UPI00026257D1 UniRef90_A8MB64 UniRef90_UPI0004112CBF UniRef90_UPI0003F84940 UniRef90_UPI0003809519 UniRef90_I5C4Q8 UniRef90_B4SES9 UniRef90_F6FPT7 UniRef90_I2GP84 UniRef90_C3X450 UniRef90_M1Z4J4 UniRef90_UPI000376963A UniRef90_Q7UPW5 UniRef90_D3ECL8 UniRef90_A9WPA9 UniRef90_Q3J7W5 UniRef90_G8S5J3 UniRef90_B5BC5 UniRef90_G4R8V4 UniRef90_Q59977 UniRef90_UPI0003707401 UniRef90_A5GWC0 UniRef90_U1Y8X3 UniRef90_A8UGW1 UniRef90_Q1N611 UniRef90_A1W9L4 UniRef90_UPI0003615CE1 UniRef90_UPI00037915B5 UniRef90_UPI0002EA8236 UniRef90_D2W3U4 UniRef90_G8AWA4 UniRef90_A1SF26 UniRef90_M9TRP9 UniRef90_V6J9T8 UniRef90_D0RP48 UniRef90_W2EBB7 UniRef90_G2EBH3 UniRef90_K7YHH9 UniRef90_D8JZA3 UniRef90_M4VY20 UniRef90_K7SS20 UniRef90_C5C0Y6 UniRef90_B9LUG8 UniRef90_A3TGT8 UniRef90_A0A017TCE3 UniRef90_A0A031FRU9 UniRef90_I0YWX6 UniRef90_H8FSU6 UniRef90_UPI0003706DCC UniRef90_DOMCP9 UniRef90_UPI0004764D21 UniRef90_UPI0003B328F9 UniRef90_V4XUC3 UniRef90_F0SQG0 UniRef90_P09948 UniRef90_R9TBT1 UniRef90_W5TE54 UniRef90_L0K099 UniRef90_R4VDH3 UniRef90_Q6EUF8 UniRef90_H2C7T0 UniRef90_T1D1T2 UniRef90_UPI0003689E04 UniRef90_BOSEJ3 UniRef90_W0JNA0 UniRef90_Q0C1A7 UniRef90_U3GTJ6 UniRef90_UPI0002624EFF UniRef90_UPI00029A1223 UniRef90_UPI0003161175 UniRef90_UPI00029A740F UniRef90_H5SH60 UniRef90_I3ZKJ8

330 340 350 360

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RSLEAARDE	EPMAAMRTAV	VAV	GMLT	DGDAD
RGFRRDA	HPMAVLTGM	VV	MSAFYH	DDA
NGFHYRDA	HPMAMLMRT	AVV	SSLAFY	DA
KLYPKNS	SMAALRTAV	VV	LSLAFY	DA
IALPRDA	HPMAVLRQA	GV	SALLS	TFFYQ
AGFRARRDA	HPMAVLMV	GTAVV	GALLS	AFSDP
DGLEAADER	HPMAALVRTAV	VV	SMLLS	ASDP
DGFHYDA	HPMAMLVG	VV	SLLS	SAFYH
SGRRRDA	HPMAMLVG	VV	SLLS	SAFYH
KSYDLST	HPMAALVRTAV	VV	SMLLS	AFYH
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SGRRRDA	HPMSVLRVA	SV	GALLS	AFYH
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EYATD	HPMTALRTAV	VV	SYLL	AHFDD
RDLAADER	HPMAAVRTAV	VV	SEL	LAFA
QGFRRDA	HPMATMAG	GV	GALLS	AFYH
KTYPLST	HPMAALVRTAV	VV	SLLS	LGVFDE
DGFQYDA	HPMAMMVG	VV	SLLS	AFYH
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RCPKRS	HPMQVLRAG	AV	MAL	SSTFN
RDMPKGV	HPMQVLRRTAV	VV	SYLL	GLLD
RCPRRS	HPMPVLRAGI	MA	LST	FTSE
EALPAHA	HPMDVLRMT	GV	SALLS	GCTLY
RGFRRDS	HPMAVLR	CGV	TGA	LA
EGRYDA	HPMSML	CAV	AA	MSSFY
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DVEPR	HPMDVLRMT	GCS	VLR	GTL
LEL	HPMDVLRMT	GCS	VLR	GTL
RSV	HPMDVLRMT	GCS	VLR	GTL
KAFRR	HPMDVLRMT	GCS	VLR	GTL
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NNF	HPMDVLRMT	GCS	VLR	GTL
ISARY	HPMDVLRMT	GCS	VLR	GTL
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THL	HPMDVLRMT	GCS	VLR	GTL
ESL	HPMDVLRMT	GCS	VLR	GTL
KTF	HPMDVLRMT	GCS	VLR	GTL
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KSY	HPMDVLRMT	GCS	VLR	GTL
QGF	HPMDVLRMT	GCS	VLR	GTL
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KNC	HPMDVLRMT	GCS	VLR	GTL
TSF	HPMDVLRMT	GCS	VLR	GTL
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DGF	HPMDVLRMT	GCS	VLR	GTL
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V Y T S L A A G I V G T L S W G P L H G G A N Q A D V I E M L Q E E I G D D S V D R L D D P R E F
P F A C I A A G I V G T L S W G P L H G G A N Q A D V I E M L Q E E I G D D S V D R L D D P R E F
I Y S A T T A A G I V G T L S W G P L H G G A N Q A D V I E M L Q E E I G D D S V D R L D D P R E F
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130 140 150 160

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290 300 310 320

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

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N I P E E L F T S L F A L A R I T G W S A H R L E E L L N A G K I I R P P A Y K Y
G I P K E I Y T S L F A M A R L V G W C A H R I E E L N F D R R I I R P P A Y K N
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U n i R e f 9 0 _ D 3 Q A 1 4 Q V P A D M F T S M F T C A R V A G W S A H V M E Q K K L G R I I R P P A A T Y
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U n i R e f 9 0 _ L 9 T Q 0 7 G R P Y
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W F
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W F
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W F
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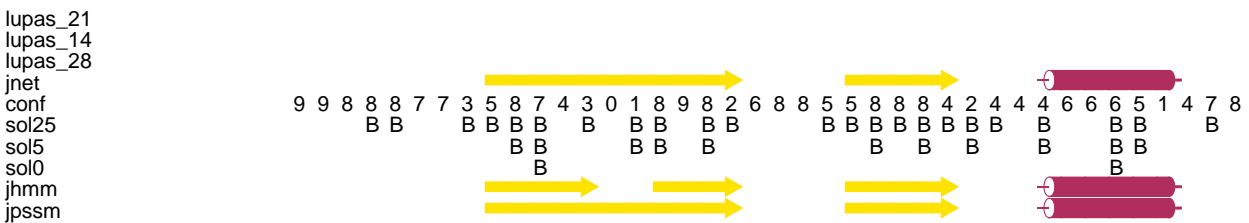
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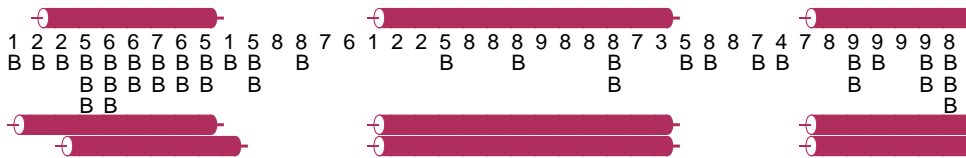
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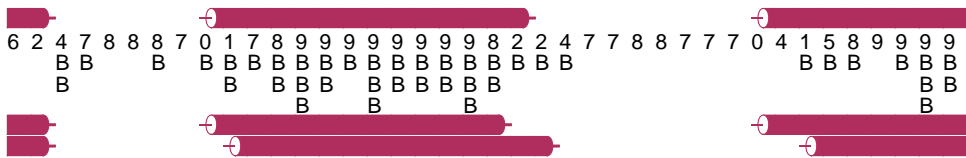
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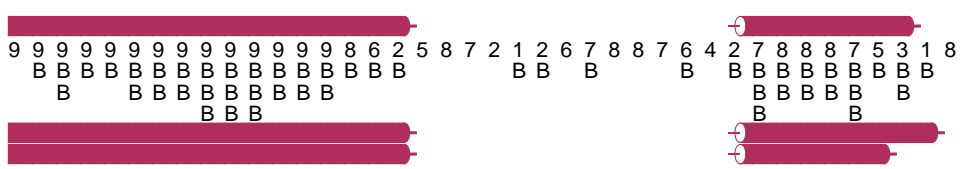
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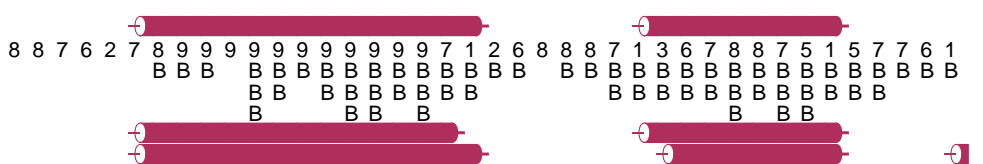


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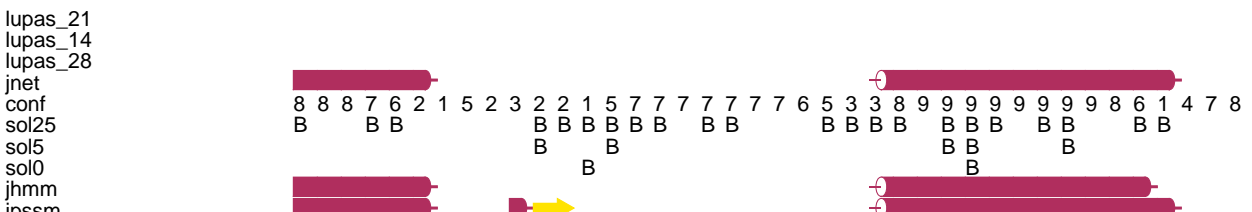
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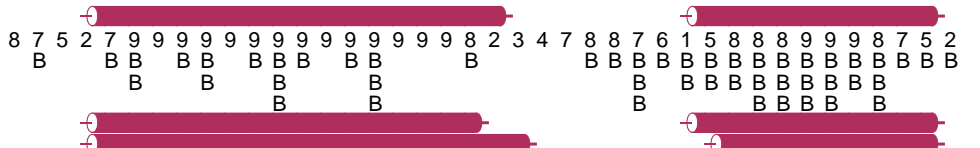
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