

QUERY	1	10	20	30	40
UniRef90_UPI000380EF78	S	L	L	L	L
UniRef90_V6M2K1	T	N	N	N	N
UniRef90_G7QP62	Q	N	N	N	N
UniRef90_C5BAB9	P	D	I	D	L
UniRef90_I0U5S7	Q	D	I	D	L
UniRef90_UPI0004205859	N	N	L	S	L
UniRef90_Q2L193	D	I	D	L	V
UniRef90_W7ZWA4	N	L	S	L	L
UniRef90_T0ZZC8	Q	D	I	D	L
UniRef90_UPI0003810ACC	S	R	D	L	D
UniRef90_H0UPQ7	S	S	A	L	L
UniRef90_I4ACW4	E	N	L	S	L
UniRef90_F5L806	N	L	S	L	L
UniRef90_D5XFG1	N	L	S	L	L
UniRef90_B2A359	N	L	S	L	L
UniRef90_UPI00047970CA	N	L	S	L	L
UniRef90_D5WPG0	T	D	N	L	L
UniRef90_F7Z424	T	K	N	L	L
UniRef90_G8LVG6	N	L	S	L	L
UniRef90_H2J6E4	E	K	L	L	L
UniRef90_F8C2L9	E	L	L	L	L
UniRef90_UPI000289CC50	N	L	S	L	L
UniRef90_A0A059KLT3	D	L	L	L	L
UniRef90_D2Z3K7	N	L	S	L	L
UniRef90_C5CXT3	D	V	E	R	L
UniRef90_L7EL33	N	L	S	L	L
UniRef90_C9LSP8	N	L	S	L	L
UniRef90_E6PME5	A	D	Q	L	L
UniRef90_K4LGZ6	T	G	N	L	L
UniRef90_T0PEU2	N	L	S	L	L
UniRef90_A4J737	N	L	S	L	L
UniRef90_UPI00035FADA8	K	L	L	L	L
UniRef90_K0C793	N	L	S	L	L
UniRef90_M4V6J3	N	L	S	L	L
UniRef90_D5C253	N	L	S	L	L
UniRef90_M2CU58	N	L	S	L	L
UniRef90_UPI00037363B4	N	L	S	L	L
UniRef90_T2G905	E	L	L	L	L
UniRef90_I3VWA4	E	N	L	S	L
UniRef90_U6BEB2	N	L	S	L	L
UniRef90_D5MGB8	N	L	S	L	L
UniRef90_A9BEY5	N	L	S	L	L
UniRef90_L0GQX9	N	L	S	L	L
UniRef90_UPI00039B3EE6	A	R	N	L	L
UniRef90_G9EM15	S	E	K	L	L
UniRef90_J9HTM8	N	L	S	L	L
UniRef90_A0A011RE69	N	E	L	L	L
UniRef90_B5Y7F0	N	L	S	L	L
UniRef90_B9E339	N	L	S	L	L
UniRef90_M1E9K0	N	L	S	L	L
UniRef90_C0QAJ3	E	L	L	L	L
UniRef90_UPI0003764406	N	L	S	L	L
UniRef90_R6G0C7	D	N	L	L	L
UniRef90_W6M4D2	Q	N	L	L	L
UniRef90_J1F683	D	N	L	L	L
UniRef90_A0A011RKN3	N	L	S	L	L
UniRef90_Q2LT02	D	L	L	L	L
UniRef90_C4ZAN3	E	N	L	L	L
UniRef90_Q3A5E0	E	L	L	L	L
UniRef90_B8FK37	N	L	S	L	L
UniRef90_Q1N2V5	S	P	E	L	L
UniRef90_X7E4Y4	D	L	L	L	L
UniRef90_A6LMJ7	E	R	I	L	L
UniRef90_C8W1I6	D	K	I	L	L
UniRef90_UPI00047B0131	N	L	S	L	L
UniRef90_W0DSZ8	D	L	L	L	L
UniRef90_T0T7X2	Q	N	L	L	L
UniRef90_R6W9C0	E	N	L	L	L
UniRef90_R4LRW3	N	L	S	L	L
UniRef90_E8RH33	T	R	E	L	L
UniRef90_D9S394	N	L	S	L	L
UniRef90_K2C671	N	L	S	L	L
UniRef90_D3PBE2	N	L	S	L	L
UniRef90_W8T722	E	N	L	L	L
UniRef90_F7K3X6	N	L	S	L	L
UniRef90_UPI00035EC427	N	L	S	L	L
UniRef90_C7R0I7	D	K	L	L	L
UniRef90_Q6AJS8	A	R	S	L	L
UniRef90_R5KZT4	D	N	L	L	L
UniRef90_R6LZP3	E	N	L	L	L
UniRef90_R4KM78	D	K	L	L	L
UniRef90_Q67K24	N	L	S	L	L
UniRef90_R1ASS7	N	E	S	L	L
UniRef90_E6W658	N	L	S	L	L
UniRef90_X1IX96	S	L	L	L	L
UniRef90_D3F408	N	K	E	L	L
UniRef90_M1QH79	S	K	E	L	L
UniRef90_F8KS00	A	R	N	L	L
UniRef90_Q01PP4	N	L	S	L	L
UniRef90_C4FHR2	N	K	L	L	L
UniRef90_I7A661	E	K	L	L	L

QUERY	50	60	70	80
UniRef90_UPI000380EF78	K L T G E P V V D I L V N N G K L I A R K G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_V6M2K1	K L L A G E H V D I L V N N G K L I A R K G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_G7QP62	K L L A G E P V D I L V N N G K L I A R K G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_C5BAB9	G L L A G E P V D I L V N N G K L I A R K G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_I0U5S7	K L L A G E P V D I L V N N N K R V A K G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_UPI0004205859	K L L A G E P V D I L V N N G Y L I A Q G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_Q2L193	G L L A G E P M D I F V N N G Y L I A Q G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_W7ZWA4	K L L A G E P V D I R V N N G R F L I A K G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_T0ZZC8	G M A G E P V L D V L V N N G F L I A Q G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_UPI0003810ACC	G L A G E P M N I L V N N G Y L I A R Q G G E E V V V V I D D E K F Y G G V I R I V T T D D I V V S S P K E F D D			
UniRef90_H0UPQ7	R M A G E P V D I L V N N G K L L V A R K G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_I4ACW4	R L A G E P V D M I V N N G K L L V A K G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_F5L806	K L A G E P V D I L V N N N K P I A K G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_D5XFG1	K L A G E P V D I L M V N N G K L L A K G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_B2A359	K I A G E P V D I L K V N N G K L L A K G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_UPI00047970CA	K L A G E P V D I L V N N N R K L I A Q G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
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UniRef90_F7Z424	K L A G E P V D I L V N N H Q L L I A K G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_G8LVG6	K L A G E P V D I L V N N G K A I A K G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_H2J6E4	K L A G E P V D I Y V N N G K L L M A K G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_F8C2L9	K F A G E P V E I Y V N N G K L L M A K G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_UPI000289CC50	K L A G E A L D I L I N N K K Y V A K G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_A0A059KLT3	T V A G E P M D V L V N N G Y L I A Q G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_D2Z3K7	K M A G E P V D V L V N N G K L L I A K G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_C5CXT3	G L A G G Q P V D V L V N N G Y L I A Q G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_L7EL33	R L A G E E P V E I L V N N G K K I A Y G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_C9LSP8	K L A G E P V D I M V N N G K F L A K G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_E6PME5	R L A G E P M D V L V N N G F L I A R G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_K4LGZ6	K L A G E A V D I F V N N G K S I A K G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_T0PEU2	K L A G E P V D I Y V N N G K K I A Y G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_A4J737	S L A D E P V D I L V N N G T L V A T G G E E V V V V I N E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_UPI00035FADA8	S L V D E P V E I L V N N G T L V A R G G E E V V V V I N E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_K0C793	R L A G E P M D V L V N N K T L L I A R G G E E V V V V I N E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_M4V6J3	K L A G E P M E V L V N N D K L I A R G G E E V V V V I N E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_D5C253	K L A G E P L D V L V N N H C L I A H G G E E V V V V I N E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_M2CU58	K L A G E P V D V L V N N H K P I A K G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_UPI00037363B4	K T A G E P L T I Y V N N N R K L A E G G E E V V V V I D D E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_T2G905	K L A G E P L E I Y V N N G K L V A E G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_I3VWA4	K L A G E P V D I L V N N G K F I A K G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_U6BEB2	K L A G E P V D I F V N N T L I A T G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_D5MGB8	K Q A G D A V D I L V N N G R P I A K G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_A9BEY5	K L A G E P L D I Y A N N G R L L I A R G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_L0GQX9	R E A G S P M D V L V N N G T L L I A Q G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_UPI00039B3EE6	K A A G E P L D S V F I N N G R K F A E G G E E V V V V I D D D K F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_G9EM15	R L A G D P L D V L V N N G T L V A H G G E E V V V V I D D D K F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_J9HTM8	K L A G E P V D I Y V N N N K I A G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_A0A011RE69	A M A G E P M S V Y V N N G T L I A G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_B5Y7F0	K L A G E P V D I L V N N G K P I A K G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_B9E339	K L T E E P V E I L V N N G K K V A Y G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_M1E9K0	K L A G E A L E V M I L N R D E L I A R G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_C0QAJ3	K L A G E P L E V Y I L N R K L I A R G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_UPI0003764406	R A A G E P L D V Y A N N G T L I A H G G E E V V V V I N E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_R6G0C7	R L A D E P V E V L V N N G K V I A E G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_W6M4D2	R P G D P L D I L V N N G C L V A R G G E E V V V V I D D R N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_J1F683	R L T D E P L E I L L N N G K P I A T G G E E V V V V I N E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_A0A011RKN3	K M T D E P L E I Y V N N G K L I A E G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_Q2LT02	K L A G E P M D V Y V N N Q R L L I A R G G E E V V V V I N E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_C4ZAN3	K L A G E P I D I L V N N G K Y V A K G G E E V V V V I E E S F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_Q3A5E0	K L A G E P L D I Y V N N R L I A R G G E E V V V V I K D R E Y G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_B8FK37	K L A G E P M E I F V N N G K L F A R G G E E V V V V I N D E K F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_Q1N2V5	R L A G E P L D V L V N N G T L I A H G G E E V V V V I N D D K F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_X7E4Y4	R F A G E P L D V L V N N G L I A H G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_A6LMJ7	K L T G E P V D I L V N N G K L I A R G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_C8W1I6	A L T E E P V E V L V N N G T L V A R G G E E V V V V I N E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_UPI00047B0131	K L V G E P L D I L V N N G Q Y V A K G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_W0DSZ8	R L A G E P L D I L V N N G T L I A H G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_T0T7X2	K L A G E P L E I L V N N G K L V A K G G E E V V V V I N E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_R6W9C0	R L A G E P L D V L V N N G K F V A K G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_R4LRW3	R A A G S P A D L L V N N G R L V A R G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_E8RH33	K L A G E P L D I Y V N A R L I A R G G E E V V V V I G D D K F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_D9S394	K L A G E P V D I L V N N G K L I A R G G E E V V V V I D D D K F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_K2C671	R L A G D P L D V F V N E R K L I A R G G E E V V V V I D D D K F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_D3PBE2	E Y A D E P V E L L V N N K V I A R G G E E V V V V I D D G Y F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_W8T722	K L V G E P L D V L V N N G K R I A K G G E E V V V V I D D E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_F7K3X6	K Q A G A P V D I L V N N G K L I A R G G E E V V V V I D D E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_UPI00035EC427	K L A G E P V D I L V N N G K L L A K G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_C7R0I7	R V A G A P A D L L V N N H L L V A R G G E E V V V V I D E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_Q6AJS8	K V A G D P L D I Y V N N S R L I A R G G E E V V V V I G D D K F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_R5KZT4	R Q A G A P V D V V N N G N L I A R G G E E V V V V I D D D N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_R6LZP3	K L A G E P V D V L V N N G K F V A K G G E E V V V V I E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_R4KM78	T L V D E P V D I L V N N G K L I A K G G E E V V V V I E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_Q67K24	K H A G E A V D I L V N N G Q L V A R G G E E V V V V I G E E N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_R1ASS7	K L V G E P L D I L A N N G K Y I A K G G E E V V V V I D D A N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_E6W658	K K A G D P V E L L V N N K V I A R G G E E V V V V I D D A N F F G G V R R V V T T D D I V V S S P K E F D D			
UniRef90_X1IX96	R S A G E A V D L Y V R D V R F A R G G E E V V V V I D D A N F F G G V R R V V T T D D I V V S S P K E F D D			
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