

QUERY	1	10	20	30	40																																																	
UniRef90_F7YUN4	N	R	G	F	F	T	F	E	R	E	E	P	L	L	D	M	R	M	N	K	N	S	S	E	V	L	T	A	Q	K	V	L	N	E	L	P	E	E	E	L	L	A	R	R	K	I	I	I	I					
UniRef90_UPI000429B171		R	G	F	F	S	Y	M	Q	D	A	P	L	L	D	M	R	M	N	R	E	S	S	E	V	L	T	A	Y	D	N	N	N	E	Y	S	S	E	D	E	D	E	L	L	N	R	K	I	I	I	I			
UniRef90_UPI0004640C42		D	R	G	F	T	F	N	R	D	A	P	L	L	D	M	R	M	N	D	V	R	E	F	K	T	A	Y	D	D	V	V	V	N	F	Y	S	S	E	K	E	L	L	L	A	N	D	I	I	I	I			
UniRef90_B7IEL8	G	R	G	F	T	F	N	R	D	A	P	L	L	L	D	M	R	M	N	D	V	R	E	F	K	T	A	Y	D	D	V	V	V	N	F	Y	S	S	E	K	E	L	L	L	A	N	D	I	I	I	I			
UniRef90_UPI000309D5AE		R	G	F	S	Y	M	Q	D	A	P	L	L	L	D	M	R	M	N	D	T	S	R	L	L	S	A	H	E	V	V	V	N	E	Y	D	E	Y	Q	E	E	L	L	L	W	H	I	F	F					
UniRef90_C9LSA0		R	G	F	S	Y	M	Q	D	A	P	L	L	L	D	M	R	M	N	D	T	S	R	L	L	S	A	H	E	V	V	V	N	E	Y	D	E	Y	Q	E	E	L	L	L	W	H	I	F	F					
UniRef90_A9BHH9	N	R	G	F	S	F	T	K	D	E	P	L	L	L	D	M	R	M	N	D	V	Q	S	E	K	D	A	A	Y	D	V	V	N	E	Y	S	S	Q	E	E	D	E	L	L	R	R	R	I	I	I	I			
UniRef90_I7LGM0		R	G	F	S	Y	M	Q	D	A	P	L	L	L	D	M	R	M	N	K	D	N	S	E	K	D	T	A	Y	D	D	V	V	N	K	Y	S	S	K	E	E	N	L	L	L	E	R	R	I	I	I	I		
UniRef90_UPI00036BBA01		R	G	F	S	Y	M	Q	D	A	P	L	L	L	D	M	R	M	N	K	D	N	S	E	K	D	T	A	Y	D	D	V	V	N	K	Y	S	S	K	E	E	N	L	L	L	E	R	R	I	I	I	I		
UniRef90_UPI000289086E		R	G	F	S	Y	M	Q	D	A	P	L	L	L	D	M	R	M	N	R	D	N	S	L	L	S	A	Y	E	I	V	V	N	N	Y	E	E	E	N	D	L	L	L	Y	R	L	L	I	F	F				
UniRef90_A8F758		R	G	F	A	F	S	S	D	G	P	L	L	L	D	M	R	M	N	R	K	T	E	R	R	L	L	T	A	Y	D	V	V	N	F	W	Q	E	E	N	L	L	L	R	R	K	I	I	I	I				
UniRef90_A7FTX8	S	R	G	F	S	Y	M	K	D	A	P	L	L	L	D	M	R	M	N	R	E	N	L	L	S	A	Y	G	V	I	V	V	N	N	Y	Q	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E		
UniRef90_R6J518		R	G	F	S	Y	M	Q	D	A	P	L	L	L	D	M	R	M	N	D	K	E	S	K	K	D	A	Y	D	V	V	V	N	R	Y	K	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
UniRef90_F6B3M6		R	G	F	S	Y	M	Q	D	A	P	L	L	L	D	M	R	M	N	D	P	D	Q	P	T	T	A	K	E	L	V	V	N	N	D	L	P	E	E	E	E	E	E	E	E	E	E	E	E	E	E			
UniRef90_B7K9F0		R	G	F	S	Y	M	Q	D	A	P	L	L	L	D	M	R	M	N	D	R	R	Q	S	T	T	A	A	D	I	I	I	N	S	Y	S	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E			
UniRef90_F9MN08		R	G	F	S	Y	M	Q	D	A	P	L	L	L	D	M	R	M	N	R	Q	E	N	K	K	T	A	A	D	I	V	V	N	T	Y	S	S	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E		
UniRef90_R5BMI3		R	G	F	S	Y	M	Q	D	A	P	L	L	L	D	M	R	M	N	R	Q	E	N	K	K	T	A	A	D	I	V	V	N	N	G	Y	S	S	E	A	D	D	L	L	L	V	R	I	L	I	I	I	I	I
UniRef90_D9TR19		R	G	F	S	Y	M	Q	D	A	P	L	L	L	D	M	R	M	N	D	R	K	G	S	A	L	T	A	E	H	V	V	V	N	N	Y	S	S	E	E	E	E	E	E	E	E	E	E	E	E	E	E		
UniRef90_I8IZT9	D	R	G	F	S	Y	Q	H	D	A	P	L	L	L	D	M	R	M	N	Q	D	A	P	L	L	T	A	E	R	D	I	V	V	N	D	W	P	Y	E	K	K	L	L	L	V	R	I	I	I	I	I			
UniRef90_I2F382	S	G	R	G	F	S	Y	Q	H	D	A	P	L	L	L	D	M	R	M	N	T	S	Q	K	R	T	A	A	D	V	V	V	N	S	Y	S	R	E	D	Q	E	L	L	L	S	R	I	I	I	I	I			
UniRef90_B8I6G6		S	R	G	F	S	Y	Q	H	D	A	P	L	L	L	D	M	R	M	N	T	S	Q	K	R	T	A	A	D	V	V	V	N	S	Y	S	R	E	D	Q	E	L	L	L	S	R	I	I	I	I	I			
UniRef90_H2J711	N	R	G	F	T	F	R	K	D	E	P	L	L	L	D	M	R	M	N	D	P	S	S	D	L	F	T	A	Y	W	N	V	V	N	E	Y	P	E	F	Q	L	L	L	S	R	I	I	I	I	I	I			
UniRef90_X8IRK7		D	R	G	F	S	Y	M	Q	D	A	P	L	L	L	D	M	R	M	N	E	D	S	D	L	F	T	A	Y	W	N	V	V	N	E	Y	P	E	F	Q	L	L	L	S	R	I	I	I	I	I	I			
UniRef90_UPI000464E216		D	R	G	F	S	Y	M	Q	D	A	P	L	L	L	D	M	R	M	N	E	D	S	D	L	F	T	A	Y	W	N	V	V	N	E	Y	P	E	F	Q	L	L	L	S	R	I	I	I	I	I	I			
UniRef90_UPI00028A3FAD		D	R	G	F	S	Y	R	F	D	A	P	L	L	L	D	M	R	M	D	Q	N	L	D	I	S	A	R	D	I	V	V	N	T	Y	S	S	E	S	E	I	T	K	I	I	I	I	I	I	I	I			
UniRef90_UPI000479AF5A		R	G	F	S	Y	H	H	D	A	P	L	L	L	D	M	R	M	N	D	Q	Q	Q	S	D	I	S	A	G	D	V	V	N	T	W	S	E	T	S	Q	L	L	L	V	K	I	I	I	I	I	I			
UniRef90_UPI000464E704	D	R	G	F	S	F	R	F	D	A	P	L	L	L	D	M	R	M	N	D	Q	Q	Q	S	D	I	S	A	G	D	V	V	N	T	W	S	E	T	S	Q	L	L	L	V	K	I	I	I	I	I	I			
UniRef90_U4WVP5		R	G	F	S	Y	R	N	G	D	A	P	L	L	L	D	M	R	M	D	Q	Q	Q	A	D	L	L	T	A	Y	D	V	V	N	E	W	D	E	A	E	L	L	L	A	S	K	I	I	I	I	I	I		
UniRef90_D4TTG9		R	G	F	S	F	R	H	T	A	N	L	L	L	D	M	R	M	N	D	Q	Q	S	L	I	T	A	A	D	V	V	N	N	G	Y	W	D	E	Q	E	E	L	L	L	T	H	I	F	F	F				
UniRef90_A0A037ZCZ6		R	G	F	S	Y	M	Q	D	A	P	L	L	L	D	M	R	M	N	R	R	R	S	L	L	S	A	Y	E	V	V	V	N	N	G	Y	S	S	E	E	E	E	E	E	E	E	E	E	E	E	E			
UniRef90_M5E226	D	R	G	F	S	Y	Q	K	D	G	P	L	L	L	D	M	R	M	N	P	E	Q	N	L	L	T	A	K	D	I	V	V	N	N	Y	S	S	Q	E	S	E	L	L	L	E	K	I	I	I	I				
UniRef90_D7N5L1	D	R	G	F	S	Y	N	K	D	A	K	P	L	L	L	D	M	R	M	D	T	N	A	A	F	L	S	A	K	D	V	V	N	N	G	Y	S	S	K	R	E	L	L	L	A	K	I	I	I	I				
UniRef90_F4LT09	S	R	G	F	S	Y	N	K	D	A	P	L	L	L	D	M	R	M	N	D	T	Q	R	K	T	T	S	A	K	D	V	V	V	N	K	M	S	R	D	E	L	L	L	A	K	I	I	I	I	I				
UniRef90_UPI00036CE15B		R	G	F	S	Y	H	Y	D	A	P	L	L	L	D	M	R	M	N	D	L	D	A	L	L	T	A	Y	D	V	V	N	E	W	P	Y	E	D	L	L	L	V	R	I	I	I	I	I	I					
UniRef90_W1TX65		G	R	G	F	S	Y	Q	H	D	A	P	L	L	L	D	M	R	M	N	D	Q	Q	T	Q	R	T	A	A	T	V	V	N	T	Y	S	S	A	K	N	D	L	L	L	V	R	I	I	I	I				
UniRef90_Q03EX7	G	R	G	F	S	Y	R	F	D	A	P	L	L	L	D	M	R	M	N	D	Q	T	Q	Q	K	L	N	A	R	E	V	V	N	E	W	S	S	A	K	N	D	L	L	L	V	R	I	I	I	I				
UniRef90_E0QK52		R	G	F	S	Y	M	N	D	A	P	L	L	L	D	M	R	M	N	D	K	N	S	P	L	L	T	A	Y	D	V	V	N	N	Y	S	S	K	E	Q	L	L	L	S	D	I								

QUERY	50	60	70	80
UniRef90_F7YUN4	F E Y G E E K	R F A R R R I	A S F I V E N R R	L I S S T T T L E L L
UniRef90_UPI000429B171	K E D Y G E E E E	N F A K R R R I	A N K F I V E A R R R	P P P I N S K Q N T T G E E L L
UniRef90_UPI0004640C42	K E Y G E E E E E	R F S R R R Q I	A R N S I V N S A R R	P I P I Q N S T T T L E E L L
UniRef90_B7IEL8	F K Y G E E E E E	R F S R R R Q I	A R N S I V N S A R R	P I P I Q N S T T T L E E L L
UniRef90_UPI000309D5AE	F D Y G E E E E K	R F A S K R R I	A E N F I V K A R R R	P I P I Q N S T T T L E E L L
UniRef90_C9LSA0	R D Y G E E E E K	R W A K R R I	A E N F I V K A R R R	P I P I Q N S T T T L E E L L
UniRef90_A9BHH9	F E Y G E E E E K	R F A H S I S	S K S I V K A N R R	P I P I Q N S T T T L E E L L
UniRef90_I7LGM0	K E Y G E E E E E	N F A S K R R I	A D L F I V K A R R R	P I P I Q N S T T T L E E L L
UniRef90_UPI00036BBA01	K V Y G E E E E E	R F A K R R I	A Y F F I V K R R R	P I P I Q N S T T T L E E L L
UniRef90_UPI000289086E	R E Y G E E E E K	F A K K I	A Y F F I V K R R R	P I P I Q N S T T T L E E L L
UniRef90_A8F758	F E Y G E E E E K	R Y A G R K I	A R F F I V K N R R	P I P I Q N S T T T L E E L L
UniRef90_A7FTX8	K N Y G E E E E K	F S R K R I	A R F F I V K N R R	P I P I Q N S T T T L E E L L
UniRef90_R6J518	Y R Y G E E E E E	R W S K R R I	A Q F F I V K E R R	P I P I Q N S T T T L E E L L
UniRef90_F6B3M6	R K Y G E E E E E	R W A K R R I	A Q F F I V K E R R	P I P I Q N S T T T L E E L L
UniRef90_B7K9F0	Y N Y G E E E E E	R W A K R R I	A Q F F I V K E R R	P I P I Q N S T T T L E E L L
UniRef90_F9MN08	K D Y G E E E E E	R W A K R R I	A M F F I V A A R K	F F T T T T Q G E L L
UniRef90_R5BMI3	Q D Y G E E E E E	R W A K R R I	A M F F I V A A R K	F F T T T T Q G E L L
UniRef90_D9TR19	F D Y G E E E E K	R W A K R R I	A K F F I V E A R K	I I K T T T F Q L L
UniRef90_I8IZT9	F Q Y G E E E E K	F A K Q I	I E A A R Q K R	P I L E T T T G E L L
UniRef90_I2F382	F E F G D E E K	R F A R K I	A R S F I V S A R R	P L V F F T T T K Y D L
UniRef90_B8I6G6	R D F G E E E E K	F A S R R I	A K F I T E A R R	P L V F F T T T K Y D L
UniRef90_H2J711	F E Y G E E E E F	K F A S R R I	A R S F I V N S A R K	P I L E N T T T F E L L
UniRef90_X8IRK7	K E Y G E E E E E	R W A S R R I	A K F I V K A R K	P I L E N T T T F G Q L
UniRef90_UPI000464E216	H R Y G E E E E K	F A K P I	A K F I V E R H R	P I L E N T T T F G Q L
UniRef90_UPI00028A3FAD	K D Y G E E E E K	W A S R R I	A K F I V E D R K I	D T T T F E L L
UniRef90_UPI000479AF5A	F R Y G E E E E K	F S K R R I	A R K I E S H R	P L E T T T F E L L
UniRef90_UPI000464E704	Y E Y G E E E E E	R F S R R I	A R K I E S H R	P L E T T T F E L L
UniRef90_U4WVP5	F E Y G E E E E K	F A R K I	A R Q I I L H R	P L E T T T G Q L
UniRef90_D4TTG9	F E Y G E E E E E	R F S R R I	A R R I I E N R A	P F E S T T T Q L
UniRef90_A0A037ZCZ6	R E Y G E E D	N F A K R I	A K F I I E N R A	P I K S T T T Q L
UniRef90_M5E226	S E Y G E E E E E	N W S A R I	A E F F I V K M R K	I K E T T T G D L
UniRef90_D7N5L1	W D Y S E E E K	W A G R I	A D F F I V K S A R E	I E I D T T T F G E L
UniRef90_F4LT09	S E Y G E E E S	W A G R I	A D F F I V K S A R E	I E I D T T T F G E L
UniRef90_UPI00036CE15B	F R Y G E E E E K	F S K Q I	A R K I E A H R	K E I Q T T T G Q L
UniRef90_W1TX65	R Q Y G E E E E E	R F A N R Q I	A R K I V A R E K	P L E T T T G G E L
UniRef90_Q03EX7	F R Y G E E E E K	F Y S K V	A R K I V A R E K	P L E T T T G G E L
UniRef90_E0QK52	R R Y G E E E E E	N W A D K I	A Q L V I V D R R S	I D E T T T F E L
UniRef90_R2P1L2	F R Y G E E E E K	F S K R R I	A R L I R E E K	P I L E T T T H Q L
UniRef90_A8MH28	K N Y G E E E E K	W A K R I	A N F I V K E E R	P I L E T T T H Q L
UniRef90_G2FVK9	W K Y G E E E E K	W S K R I	A Q F I V R E E R	A L E Q T T T G D L
UniRef90_N1Z948	W K Y G E E E E E	R W A K R I	A K F I V R E Q R	P I L E Q T T T F G E
UniRef90_G8RNZ3	R E F G E E E E E	R F A S R I	A A Q R R A D R	F F S T T T G E L
UniRef90_F2LW64	R L Y G E E E E E	N F A R R Q I	A K A I V K N R	P I H T T T K E L
UniRef90_A7X1B8	Y R Y G E E E E K	F S K Q I	A R R I E A H R	P I L E T T T L E
UniRef90_UPI00047E7F63	W N Y G D E E K	F A P S I	A R R I E A H R	P I L E T T T L E
UniRef90_I7JYC9	F R F G D E E K	F S R Q I	A R K I V E R R	P I L E T T T F E L
UniRef90_R5T141	K N Y G E E D K	F A K N I	A K H I V I E R	P I L K T T T F R L
UniRef90_C2ERU9	Y R Y G E E E E R	F A K Q I	A R K I E R	P I L K T T T F R L
UniRef90_R7IMR3	R D Y G E E E E K	F A K N I	A K H I V A A R E	I E E T T T G E L
UniRef90_UPI0002E0526D	F E Y G E E E E K	F A R R I	A R E M V I T A R	P I L E E T T T G E L
UniRef90_K9XAL1	F E Y G E E E E R	R F S R R I	A R R I V E Q R	P F Q L E T T T Q L
UniRef90_UPI00047C3A2C	R D Y G E E E E K	F A R K I	A A N I V K A R	P I L K T T G E L
UniRef90_W4E2V1	F Q Y G E E E E K	F S R R I	A R K I V E R R	P V L E N T T T G E L
UniRef90_B2A2G4	R E Y G E E E E K	W A Q R I	A Q F I V Q A R E	I E N T T T Q E L
UniRef90_UPI00016C01A9	K N F G E E E E K	W A R R I	A K F I V E A R A	I D T T Y E L
UniRef90_F2I5T7	K R Y G E E E E K	F A K A I	A R N I E N R Q	P I L E T T T S E L
UniRef90_R7BTM9	F D Y G E E E E K	L A R V I	A R N I V A K R	P I L E T T T L E L
UniRef90_E4L7G6	K E Y G E E E E R	R W A K R I	A E F I V D Y R K	I E T T T G E L
UniRef90_G9WLA4	R D Y G E E D K	F A K N I	A K H I V L E R	P I L E T T T G E L
UniRef90_R6MJZ5	Y D Y G E E E E K	F A K R I	A E F I V L E R	P I L E T T T G E L
UniRef90_B1BYX6	F K Y A D E E K	F A K R I	A R K I E Q A R	P I L E T T T F E L
UniRef90_UPI00047EE670	R V Y G E E E E E	R F A S R I	A A A I E R S R	P F F T T T A R L
UniRef90_R7JRA3	H E Y G E E E E E	R F A R K I	A H A I E R S R	P F F T T T A R L
UniRef90_T0IKB8	G S Y G E E E E E	R W A K R I	A K F I V E S R K	I D T T R Q L
UniRef90_E6W602	H A Y G E E E E R	R R V A R V	J A C R R E A K	P F E T T T K G L
UniRef90_E0I3E7	M E Y G E E E K	F A R K I	A R E I V E G A R	P I L E T T T G E L
UniRef90_B0S0Y9	F K Y S D E E K	W A K R I	A E F I V C N A R	P I L E N T T T F E L
UniRef90_E3BR41	F K Y G D E E K	Y A R R I	A K N I V A K R	P I L E N T T T F E L
UniRef90_D3EPJ1	Y Q Y G E E E K	R S R S I	A R Y L V A N R	P F F T T T D L
UniRef90_R7G975	Y Q Y G E E E K	F A K Q I	A R N I E K Q R	P I L A T T T F E L
UniRef90_D7CL12	R E L G E E E E E	R Y A R R I	A R E I V R E R	P I L A N T T T F E L
UniRef90_A0ZL52	F K Y G E E E E E	R F S R R I	A R R I V R E R	P F E T T T F E L
UniRef90_R6NHA1	Y E Y G E E E E E	R F S R K I	A C I E R K E K	P I L T T T K Q L
UniRef90_F3Y9Q4	F R Y S E E E K	F S K Q I	A R E I V E R V R	P I L Q T T T G E L
UniRef90_Q2RK87	W Q Y G E E E E E	R W A P R I	A A F I V R Q R	P I L E T T T G Q L
UniRef90_H1CZ47	R E Y G E E E E E	R W A R R I	A Q F I V N F R	P I L E T T T D D L
UniRef90_R5J5P6	K D Y G E E E E E	N W A S R I	A Q F I V E E R K	I E N T T T F E L
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UniRef90_B1C8H4	S E Y G E E E E E	Q F A G N I	A K H N R E E K	P I L E T T T G E L
UniRef90_E0NZ58	Y T Y G E E E E E	R W A K R I	A S F I E K E R	P I L T T T G D L
UniRef90_C5BP42	K E Y G E E E E E	R F A R R I	M A R A I V A E R	P I L E T T T Q L
UniRef90_R6R7N0	K E Y G E E E K	F A Y R I	A K N I V K A R	P I L E T T T Q L
UniRef90_UPI0003B41740	F E Y G E E E K	F S R R I	A K M I V K E R	P I L S T T T L Q L
UniRef90_R5TG26	R N Y G E E E E E	R Y S S R I	A S G I V E A R K	P I L E T T T G Q L
UniRef90_G9Y144	R D Y G E E E E E	R W A R R I	A S G I V A E R K	P L E R T T G E L
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UniRef90_I8IZT9	P A R R A G G H P A K R R T F F Q A	I R I A E E V
UniRef90_I2F382	E R Y K R R R H F A T K T F F Q A	V I R I A E E V
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UniRef90_K6WW63	S Q R	S G G H P	A K R R T F Q Q A L R I E E V
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UniRef90_R7D5V2	A R R H	G K H P	A R R S F Q Q A L R I E V V
UniRef90_H5SRIO	V R Y K S R A I	H P	A T R R V F Q Q A L R I A V
UniRef90_D1C5B1	R R R G R A I	H P	A T R R T F Q Q A L R I A V
UniRef90_K2E3P9	S F	K I H P	A T R R V F Q Q A L R M K V
UniRef90_S6HLW5	E	K G K H P	A T R A F F Q Q A L R I Q V
UniRef90_K2GXP1	E Y R R K K I	H P	A T K T F Q Q A L R I E V
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UniRef90_A6FEY7	K S K K E T K	H P	A T R R S F F Q Q A L R I Y I
UniRef90_R6BFZ9	I S Y R N K S	H P	A R K V F Q Q A I R I E V
UniRef90_R5GMS6	K V R A T G G	H P	A K K T F F Q Q A I R I E
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UniRef90_UPI000478D967	E K H K	H P	A T R R S F F Q Q A L R I A I
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UniRef90_I1XH1	T R D K F K	H P	A T R T F F Q Q A I R I F I
UniRef90_D7BNA1	P A R R R K G G	N P	S K R T F F Q Q A L R V A V
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Y T L G E E E R N S R R I A K K I V E S R P L K T T A G Q L A A A L I I S S V P G P R  
R E Y G E E E R F F A R R I A K N I V Q A R P I I V T T A G Q L L A N A V I R R S A N P A  
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K T Y G E E E R F F C R R I A R A I V Q A R P L I T T R T T K Q L A A E V V A K A N P S W  
Y E F G E E E R K S R R I A R A I V R A R P L I R T T A E L A A K V I S V A A P S S M  
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K V Y G E E E R F A G R I A R A I V V R A D R P F T R T R T K Q L A D L A A R V S P  
F Q Y G E E E R A S R R I A K A I V R A R K I I T T T L A L A G L V E G C L P R S  
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UniRef90_C1DTV7	L R H S R I H P A T K T F F Q A I R I	E V
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UniRef90_R5LB10	E Q K E T L K K S C Q R V F Q A L R I D V	
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