

QUERY	1	10	20	30	40
UniRef90_D0KB87	V	P	D	L	L
UniRef90_E0WT41	M	P	N	S	E
UniRef90_H5V395	M	P	W	Q	S
UniRef90_C5B954	M	P	W	Q	S
UniRef90_V3TA43	M	P	W	Q	S
UniRef90_C6C841	M	P	W	Q	S
UniRef90_G9Y3X2	M	P	W	Q	S
UniRef90_N2JRP7	M	P	W	Q	S
UniRef90_N9U5M4	M	P	W	Q	S
UniRef90_L0MKT0	M	P	W	Q	S
UniRef90_B4EZ57	M	P	W	Q	S
UniRef90_U1LF74	M	P	W	Q	S
UniRef90_Q2NQK2	M	P	W	Q	S
UniRef90_U1LJ08	M	P	W	Q	S
UniRef90_B6XGX5	M	P	W	Q	S
UniRef90_U1KM66	M	P	W	Q	S
UniRef90_D2BY01	M	P	W	Q	S
UniRef90_L8J8P0	M	P	W	Q	S
UniRef90_A4SQW5	M	P	W	Q	S
UniRef90_V5BSK8	M	P	W	Q	S
UniRef90_B6VMA9	M	P	W	Q	S
UniRef90_R8ASW4	M	P	W	Q	S
UniRef90_UPI0003F8B5B7	M	P	W	Q	S
UniRef90_D4GCK6	M	P	W	Q	S
UniRef90_UPI0003485E3D	M	P	W	Q	S
UniRef90_UPI00046529D3	M	P	W	Q	S
UniRef90_H7F121	M	P	W	Q	S
UniRef90_Q48LG4	M	P	W	Q	S
UniRef90_UPI0003801721	M	P	W	Q	S
UniRef90_H0J52	M	P	W	Q	S
UniRef90_D2U3L1	M	P	W	Q	S
UniRef90_E8XV71	M	P	W	Q	S
UniRef90_I4MZP9	M	P	W	Q	S
UniRef90_F4ANC6	M	P	W	Q	S
UniRef90_K8WXU1	M	P	W	Q	S
UniRef90_K2HDU8	M	P	W	Q	S
UniRef90_E9CMU7	M	P	W	Q	S
UniRef90_B6EPM6	M	P	W	Q	S
UniRef90_Q6LVE0	M	P	W	Q	S
UniRef90_F2PB84	M	P	W	Q	S
UniRef90_U1KP38	M	P	W	Q	S
UniRef90_A6D768	M	P	W	Q	S
UniRef90_C3LRS3	M	P	W	Q	S
UniRef90_A6F6P2	M	P	W	Q	S
UniRef90_UPI0002198852	M	P	W	Q	S
UniRef90_C9QCY8	M	P	W	Q	S
UniRef90_K2KV93	M	P	W	Q	S
UniRef90_S6JHG7	M	P	W	Q	S
UniRef90_A4CFS9	M	P	W	Q	S
UniRef90_UPI0002556D44	M	P	W	Q	S
UniRef90_K2KIS8	M	P	W	Q	S
UniRef90_UPI00034C47B8	M	P	W	Q	S
UniRef90_B3PKB4	M	P	W	Q	S
UniRef90_D3VEB1	M	P	W	Q	S
UniRef90_J7SKF7	M	P	W	Q	S
UniRef90_UPI000379C0A8	M	P	W	Q	S
UniRef90_L1LT53	M	P	W	Q	S
UniRef90_Q8DCS6	M	P	W	Q	S
UniRef90_UPI0002559B9E	M	P	W	Q	S
UniRef90_Q5QW88	M	P	W	Q	S
UniRef90_UPI00047E6180	M	P	W	Q	S
UniRef90_UPI0003B48BCB	M	P	W	Q	S
UniRef90_UPI000373D5DA	M	P	W	Q	S
UniRef90_UPI0003942D33	M	P	W	Q	S
UniRef90_I1E136	M	P	W	Q	S
UniRef90_R1F7X9	M	P	W	Q	S
UniRef90_C1DQL3	M	P	W	Q	S
UniRef90_UPI00030D624A	M	P	W	Q	S
UniRef90_Z5XNK2	M	P	W	Q	S
UniRef90_S0G2M6	M	P	W	Q	S
UniRef90_UPI0003690950	M	P	W	Q	S
UniRef90_L8D4V5	M	P	W	Q	S
UniRef90_UPI00030F94A9	M	P	W	Q	S
UniRef90_U3CFS2	M	P	W	Q	S
UniRef90_H2G1X0	M	P	W	Q	S
UniRef90_U7G3K9	M	P	W	Q	S
UniRef90_A6VK94	M	P	W	Q	S
UniRef90_V4GZJ7	M	P	W	Q	S
UniRef90_Q2BJC5	M	P	W	Q	S
UniRef90_U4K9A7	M	P	W	Q	S
UniRef90_F9S8L2	M	P	W	Q	S
UniRef90_UPI000465A584	M	P	W	Q	S
UniRef90_UPI00046E59D9	M	P	W	Q	S
UniRef90_C9PM97	M	P	W	Q	S
UniRef90_UPI000475C8E6	M	P	W	Q	S
UniRef90_UPI00046E5784	M	P	W	Q	S
UniRef90_UPI0003B4C200	M	P	W	Q	S
UniRef90_E3BP49	M	P	W	Q	S
UniRef90_R9PRS2	M	P	W	Q	S
UniRef90_X1CA85	M	P	W	Q	S
UniRef90_Q489S7	M	P	W	Q	S

QUERY R R G E A V I L F D E S Q Q C Q L M L R S E V P A E L L R D 50 60 70
UniRef90_D0KB87 Q S G D V V L V W S E L H H E T L N I M P R G Q L N A
UniRef90_E0WT41 R N G E A V V I W S E L H H E T I N I M P R T K L K R
UniRef90_H5V395 E R G D A V L V W S E L H H E T I N I M P R D Q F R
UniRef90_C5B954 K C G E A V V V W S E L H H E T V N I M P R S Q F
UniRef90_V3TA43 E H G E A V L V W S E L H H E T I N V M P R S Q L T A S D L H E
UniRef90_C6C841 Q R G E V V L V W S E L H H E T I N V M P R N A L R S G V I H D
UniRef90_G9Y3X2 K N G E A V L V W S E L H H E T V N I M P K G Q F R
UniRef90_N2JRP7 E N G E A V I V F S E P D S G Q C Q L M L R R D V P K E W L
UniRef90_N9U5M4 E A G S A V I V Y S E L H H E S V D I I P R D R F P R E
UniRef90_L0MKT0 Q S G E V V L V W S E L H H E T V N I M P R G Q L R A
UniRef90_B4EZ57 V S G E A V L V W S E L H H E T V N I M P A A Q F F P D
UniRef90_U1LF74 K S G E A L I V F S E L H H E S V N I V S K Q Q F Q A M Q A Q E
UniRef90_Q2NQG2 Q S G E A V L V W S E L H H E S I N I M P R G Q Y R P
UniRef90_U1LJ08 K S G E A L L V Y S E L H H E S V N I V S K A Q Q F Q T M Q T E E
UniRef90_B6XGX5 V S G E L V L V W S E L H H E S V N I F M P N N Q F R P
UniRef90_U1KM66 I S G E A L I V F S E L H H E S V N I V T K A Q Q F N A M Q S E D
UniRef90_D2BY01 A H G E V V L V W S E L H H E T V N I M P R R Q L S
UniRef90_L8J8P0 A S G E A V V V F S E L H H E S I N I D I K L R H E F S
UniRef90_A4SQW5 K Q G L A V I V Y S E L H H E S I N I V S K A T F S S A P V D D
UniRef90_V5BSK8 K N G E V L I W S E L H H E T I N I M P S G Q L P T E Q
UniRef90_B6VMA9 E Q G D V M L V W S E L H H E S I N I M P K G M F H P
UniRef90_R8ASW4 Q S G E A V L V W S E L H H E S L N I M R R D E F
UniRef90_UPI0003F8B5B7 R A G T A V L V W S E L H H E T V N I M P A D Q F
UniRef90_D4GCK6 Q Q G E V V L V W S E L H H E S V N I M R K S E F R
UniRef90_UPI0003485E3D K S G E I V L V W S E L H H E T V N I M P R
UniRef90_UPI00046529D3 E R G D V I L Y S E L H H E S V T I V P K N T I P P
UniRef90_H7F121 D K G E A V I V F D A D S Q Q C Q L A L R R D V P R E W L D
UniRef90_Q48LG4 T K G Q A V I F F D L E S Q Q C Q L M L K H D V P K E F F E
UniRef90_UPI0003801721 E R G T A V I V Y S E L H D S V N I L P A D Q F R S E D I
UniRef90_H0J52 E T G E A V I L F D S P E S A L C Q L V L R R D V P P E L L D D
UniRef90_D2U3L1 R L G S V V L V W S E L H H E T I N I L P K T Q L H P
UniRef90_E8XV71 K S G E V L V W S E L H H E T L N I M P R G Q F R A G Q
UniRef90_I4MZP9 A S K A Q A F I V F D P E S Q Q C T L M L K H D I P R E L F D
UniRef90_F4ANC6 A S G E A L L V Y S E L H H E T V N I I P K D Q L
UniRef90_K8WXU1 V S G K I V L V W S E L H H E S I N F M P E N Q F R P
UniRef90_K2HDU8 R R G E A V V W F D E T T E S V S I F S R R Q L Q E M G L
UniRef90_E9CMU7 K S A K V V L V W S Q L H H E T V N I M P R R Q F
UniRef90_B6EPM6 K N G D A M V V F S E L H H E T V D I Q T K A R F N P N M
UniRef90_Q6LVE0 D T G D V V I V F S E L H H E S V D I K L R S E L
UniRef90_F2PB84 K S G E A V I V F S E L H H E S V D I K L R N Q L Q
UniRef90_U1KP38 K T G T A V L V F S E L H H E T I N I M P A S D F
UniRef90_A6D768 E S G D A V I V F S E L H H E T V D I Q L R
UniRef90_C3LRS3 Q S G Q A V I V Y S E L H H E T V D I K
UniRef90_A6F6P2 E C G D V I V Y S E L H H D S V N I L P K S E V L K
UniRef90_UPI0002198852 L Q G S A V L V Y S E L H H E S V N V V P K T H L S K S P T D D
UniRef90_C9QCY8 E S G D A V V V F S E L H H E T V D I Q L K N R F
UniRef90_K2KV93 Q R G D V L V W S E L H H E S V N I M P R D Q I T A
UniRef90_S6JHG7 S K G Q A V I F F D L E S Q Q C Q L M P K H A V P K E F F D
UniRef90_A4CFS9 R S G E V V I A Y S E L H H E S V N I M T A R T F P K E E S S D
UniRef90_UPI0002556D44 D K G E A V I I F D P E S E Q C Q L A M K R D V P K E W L N D
UniRef90_K2K1S8 A R G E A V L L W S E H H E T L N I V S K D Q V P
UniRef90_UPI00034C47B8 K S G E A L I V Y S E L H H E E V N I M S A Q Q F K Q M Q A E E
UniRef90_B3PKB4 E C G D I V I V F D E K T E S V T L L P K R D
UniRef90_D3VEB1 E R G E V L V W S E L H H E T V N I L P K E M F R P
UniRef90_J7SKF7 K N G D I V I V W S E L H H E T L N I M P S A Q F R
UniRef90_UPI000379C0A8 Q S G K A V I V F D Q E T E S C Q L V L R S D D
UniRef90_L1LT53 A K G Q A F I L F D M D S Q C Q L L A R H D I P K E L F D
UniRef90_Q8DCS6 E C G E A V V V F S E L H H E T V D I Q L K Q K F
UniRef90_UPI0002559B9E E R G E A V L I F S E H T G L C N I V P A D Q V R
UniRef90_Q5QW88 K S G E A V I Y S E L H H E S V D V V N K D S V
UniRef90_UPI00047E6180 Q Q G S A V I V Y S E L H H E S V N I V P W D R F
UniRef90_UPI0003B48BCB D K K Q A V I V F D V E S Q Q C Q L C L K R D V P K E W L A D
UniRef90_UPI000373D5DA E N G E V V I V Y S E L H H E T V N L M P K Q L F I Q Q
UniRef90_UPI0003942D33 Q S G E A V I V Y S E L H H E T V D I Q
UniRef90_I1E136 K N G E V L V Y S E L H H E T V N L M P K Q L F L Q Q Q
UniRef90_R1F7X9 R Q G T A V I V Y S E L H H E S V N I V P T D R F
UniRef90_C1DQL3 E R G E A L I L F E P D S Q Q C Q L V A K R D V P K E W L D
UniRef90_UPI00030D624A Q A G S I A I V F S E L H H E S V D I K A I N E L K
UniRef90_Z5XNK2 K K G D A M V F F S E L H H E S V T I I S K A E F I A L Q A D
UniRef90_S0G2M6 H A G K A F I V F D Q K T E T C N I I P S G D I K
UniRef90_UPI0003690950 C Q G Q V I L F S E S T G Q C N I V A K D Q L E K
UniRef90_L8D4V5 K R G A V V I Y S E L H H E S V N I M S I E Q F R A S E S S E
UniRef90_UPI00030F94A9 K S G D A T V V F S E L H H E T V D I K M R E S L
UniRef90_U3CFS2 E H D E A V I V F S E L H H E T V D I K L K A
UniRef90_H2G1X0 E R G E A V I V Y S E L H H E S V N I V P A G R F
UniRef90_U7G3K9 K R G E A F I V F D E A T E S V G V M G K E Q
UniRef90_A6VK94 R S G S A V I V W S E L H H E T I D I K D K D S F
UniRef90_V4GZJ7 K I G E A V I L Y D V I T Y Q Q C L T L R S E V P A E M L K
UniRef90_Q2BJC5 R S G E V V I L F S E S T G Q C N I V P K E
UniRef90_U4K9A7 Q S G Q A V V V F S E L H H E T V D I Q
UniRef90_F9S8L2 E T G E A V I V Y S E L H H E T V D V Q L R H K F
UniRef90_UPI000465A584 E A G K A V L V W S E L H H E S I D I K
UniRef90_UPI00046E59D9 Q S G D A V I V Y S E L H H E T V D I R R K E A L R
UniRef90_C9PM97 Q K G S A V I V W S E L H H E S I D I K D K M D F L K
UniRef90_UPI000475C8E6 K Q G V A V I L F S Q S T G R C N I V A R D S L
UniRef90_UPI00046E5784 T A G E I V V W S E L N E S V S L M Q A S T F R Q
UniRef90_UPI0003B4C200 Q S G K A V L I F D P E S G T C N I L R S S D
UniRef90_E3BP49 Q S G D A V V V F S E L H H E S V D I Q L K R
UniRef90_R9PRS2 I N G S V L I V Y S E L H H E T V N L I A K E Q F D A
UniRef90_X1CA85 K R G D V V I V F D A E S E T I N L P
UniRef90_Q489S7 E Q G S A V L V Y S E L H H E S I N I L P S D Q F K V G M E E E

	1	10	20	30	40
UniRef90_F7YKJ3	M L I	P W Q H I A	P E T L D N L I	E E S F F I V L	R R E G G S P L L Q
UniRef90_F3L140	M I I	P V E Q I A	N T E D T L D S N L	I I E E S F F I V L	R R E G G S P L L Q
UniRef90_UPI0002DB86FC	M L I	P W Q E I P	D A E E T L K N N I	V E E A H F V L	R R E G G S P L L Q
UniRef90_A3WJ70	M M I	P W Q E I L	E E T L N N I V	E E A V I V L	R R E G G S P L L Q
UniRef90_UPI000369816B	M I I	P W Q E L E	P A T T L D N I V	E E A V I V L	R R E G G S P L L Q
UniRef90_A4XWJ8					
UniRef90_F7S0J9	M K I	P Y Q D I D	A P E T T L T A Q L	I Q E F F V L	R R E G G S P L L Q
UniRef90_L0WF08	V V I V	P W Q E L A	P A D T T L D N L L	Q E E F F V L	R R E G G S P L L Q
UniRef90_K0NJ19					
UniRef90_UPI00037E3AC3	M L I	P Y Q D L N	D A D T T L H N G V	I E E F F V L	R R E G G S P L L Q
UniRef90_UPI0004678C0C	M I I	P H Q Q V S	A D A L R G N L	I E E F F V L	R R E G G S P L L Q
UniRef90_UPI00047ED8D1	M I I	P I W Q L D	P E E T T L H N S L	V D S F F V L	R R E G G S P L L Q
UniRef90_F5ZG21	M I I	P I W Q L D	P E E T T L H N S L	V D S F F V L	R R E G G S P L L Q
UniRef90_UPI0002E3D335	M L V	P W K E I A	P E T T L D S L	I K E F F V L	R R E G G S P L L Q
UniRef90_C0QKJ7					
UniRef90_B8F852	M I I	P W Q E L E	E E S T L H N V L	D S F F V L	R R E G G S P L L Q
UniRef90_W6ZWB0	M L V	P W K D L P	P D T T L H N L	I E E F F V L	R R E G G S P L L Q
UniRef90_UPI000377FC1					
UniRef90_F7NYB5	L L I	P Y Q E L S	A D T L E G V L	E E F F V L	R R E G G S P L L Q
UniRef90_F4HF50	M I I	P W Q Q L S	E T A L H N I A	Q S F F V L	R R E G G S P L L Q
UniRef90_UPI0003A302A9	M L I	P Y D L L A	D P T T L E R N L	L E E F F V L	R R E G G S P L L Q
UniRef90_UPI000409BB50	M K I	P I N E L A	P D T T L R N V L	A E E F F V L	R R E G G S P L L Q
UniRef90_Q65R68	M I I	P W Q E L A	P D T T L I N I	V E E S F F V L	R R E G G S P L L Q
UniRef90_Q2LS45	V L N I	P Y E D R L	D D A T T L R T L	L I E E E F F V L	R R E G G S P L L Q
UniRef90_UPI000380DB4C	M I I	P Y E E L D	A S T L Q N L	L E E E F F V L	R R E G G S P L L Q
UniRef90_J9YEE5	M I I	P I D A L E	A D T T L Y S L	A E E S F F V L	R R E G G S P L L Q
UniRef90_A0A031MF74	M L I	P H T L L D	P V E Q R N L	I E E S F F V L	R R E G G S P L L Q
UniRef90_B3EAY0					
UniRef90_I31992	M I I	P Y E Q L S	S S D A L R Q G	L I E E E F F V L	R R E G G S P L L Q
UniRef90_UPI0002FF09AF	M L I	P Y D Q L Q	S P E T L D N L	M R D F F V L	R R E G G S P L L Q
UniRef90_X2H6W0	M I I	P W Q N L S	Q T L D N I	L E E H F V L	R R E G G S P L L Q
UniRef90_UPI0002559A76	M L I	P F K Q L P	P E T T L Q N L	L I E E E F F V L	R R E G G S P L L Q
UniRef90_Q3A0L0					
UniRef90_S6GMY9	M I I	P H T S L A	V E E T L Q N L	I E E E F F V L	R R E G G S P L L Q
UniRef90_K6YID6	M I I	P I A D L S	E E T L T N L	I E E S F F V L	R R E G G S P L L Q
UniRef90_UPI0003B75868	M L I	P Y Q S L D	S E T T L T N L	I E E S F F V L	R R E G G S P L L Q
UniRef90_M4UNX1	M Q I	N Y Q D L E	T E T T L H N L	I E E H F V L	R R E G G S P L L Q
UniRef90_UPI000380E68A	M I I	P L A Q L E	E E T L R N I A	E E G F F V L	R R E G G S P L L Q
UniRef90_UPI00036B47E9	M I I	P Y E H L P	V I S T L Q A L	L I E E E F F V L	R R E G G S P L L Q
UniRef90_UPI00035FE777	M I I	P Y E M L P	Q E T T L E S L	I E E E F F V L	R R E G G S P L L Q
UniRef90_Q7VN47	M I I	P W Q D L E	E T T L N N V L	D A F I L R E	G G S L L E E K R A C
UniRef90_Q4QLV1	M I I	P W Q E L A	E A E T L D K N	I V E E S F F V L	R R E G G S P L L Q
UniRef90_V4F8D4	I H I	P V N K L S	A K A L K G L	I E E E F F V L	R R E G G S P L L Q
UniRef90_Q0I0Y3	M L I	P W E K L E	E E Q T L L N I	V D S F I L R	E G G S L L E A K R E N L F K N I
UniRef90_F2K322	I V	P W E S L E	V D T L N N V L	K D F V L R E	G G S L L E E Q K I A Q Q A K H S
UniRef90_Q1YST1	M I I	P A E M L S	A E L Y G I	E E F I L R E	G G S L L E S K I I A Q Q V K H S Q L
UniRef90_C5BR41	M I I	P P E R L T	E E A L R G V I	E E G Y I T R E	G G S L L A D K V E A L M P Q V
UniRef90_F3HKK8	M L I	P P G R L S	P G T L Q R L	I E E D F F V L	R R E G G S P L L Q
UniRef90_A1AS51					
UniRef90_A6W0S8	L I	P Y D S L T	P D T T L E T T	L D D F V S R	D G G T D A Q K R E Q S A L R R A L
UniRef90_S6HDM9	M I I	P H Q S L A	E Q D T L R N L	I E E S F F V L	R R E G G S P L L Q
UniRef90_C6ALD5	M I I	P W Q E L A	E E Q T L N I V	E E S F V L R	E G G T F E E Q K K A L L N R I
UniRef90_G4QNN4	M L I	P F D S L I	D E E T L Q S L	V E E S F V L	R R E G G S L L E Q E K V E Q I I E E Q L
UniRef90_A0YAW8					
UniRef90_H5TAR4	M L V	P H Q Q L D	D A D T T T A I	I E E S F V L	R R E G G S L L E Q E K V A Q M V K S S Q I
UniRef90_UPI00035CB134	V V E V	P Y Q Q L S	E H A L Q G G L	I E E E F I N	R R E G G S L L E G K V A Q V V H Q A L
UniRef90_Q1N5K6	L I	P H E Q L S	S S D A L E G V	I E E E Y I N	R R E G G S L L E A T K K A Q V V L N Q L
UniRef90_M5DU10	G V I A I	P Y E R L D	K A T L D A V I	A E E D F V L	R R E G G S L L Q T K I A Q V I E E Q L
UniRef90_UPI00037EBE72	M I I	P A E R L N	T E T L M T A I	I E E F I L R	E G G T F S S K V A Q V M A L L
UniRef90_UPI000408833D	M K I	P Y Q Q L D	E T T L N N I	L E E Q Y I L	R R E G G S L L Q E K T E Q I T Q Q I
UniRef90_S6KYW4	M L I	P H T L L E	A D T T L D E L	L T D F V T R	P T P V T Q R K A Q L R R Q L
UniRef90_R4YL10	G V I E I	P Y Q G L S	K D A L A G L	V Q E F A S R	D G G S L L A D K I S Q I I E G Q L
UniRef90_UPI0003686F36					
UniRef90_X7E6R7	L I	P H E R L S	P D T T L R R M	I Q E F V L	R R E G G S L L E D K V E E Q V L R Q Q L
UniRef90_UPI0000E10DF9	M L I	P I A E L S	N E V L Y N V A	E S F V L R E	G G T D V E K V A Q V V L E K L
UniRef90_K0C954					
UniRef90_A1S9Z7	M L I	P Y D Q L P	S S D T L N N I	L I R E E Y L T	D G G S H L D E A I A R C K R V L
UniRef90_K4KG31	I I I	P P E Q L N	Q D T L D A L I	E E F V L R E	D G G T L A R K V E Q V V R D Q L
UniRef90_C4UH79					
UniRef90_Q21LL6	M I I	P P E R L T	Q E V L R S V I	E S F I N	R R E G G S L L E E K V E Q V V P K V
UniRef90_F3KHF5	M D I	P Y Q A I P	K E T L S N M I	E E F V L R E	D G G S L L E E K V V Q V V M S L L
UniRef90_A0L7M5	M E I	P Y Q Q L S	P E A L Q G I	E E A Y V L	R R E G G S L L T H K V A Q V V M Q Q L
UniRef90_W5X311	V	P K D L L S	D D A L E N I	K E F I L	R R E G G T F D K K F E Q V V E R R Q I
UniRef90_E1V8E6	V	P H R M L P	A E T L D A L L	E A F V L	R R E G G Y M T G W T A Q L K R R Q L
UniRef90_W1ABP9					
UniRef90_Q1QZP5	V	P Y R M L P	A D T T L D A L L	E G F V L	R R E G G Y D T T W V A R E L K R R Q L
UniRef90_U7NGE0					
UniRef90_F6CSR3	L I	P Y D S L T	K E T L E N I L	D D F V S	R R E G G T D Y Q K R E Q A L R V L
UniRef90_UPI00029A66C7	M R I	P H R Q L V	P A T L R A I V	E E F V L	R R E G G T D E P R I A L V L R Q L
UniRef90_C4RXS2					
UniRef90_UPI000347FB59	V	P A T L L L	P A E T L D A L L	E A F V L	R R E G G S L L E E K V A Q V V R R Q Q L
UniRef90_A2PDF4	M I I	P W Q E L A	P D T T L D N L	I E E A F V L	R R E G G S L L E E K V A Q V V R R Q Q L
UniRef90_K7ZCL0	I	P K E A L S	E Q A L R G V I	D N F I Q	R R E G G T D E E T K M Q Q V V Q K Q I
UniRef90_I2JJQ6	I	P F W Q L S	P D A F Q G M L	E E L V S	R R E G G T D E A K I S Q Q L R Q A L
UniRef90_A3Y9H3	L I	P F D S L E	S E T T L H N L	V I E V V	R R E G G S L L E Q K I S Q Q A Q L M L
UniRef90_A5G3A9	I	P L D R I N	P D T T L R N L	M L S E F V T	R E W T L L E A R I I E Q V L G Q Q L
UniRef90_B9M0P5	I	P M D R I D	P E T T L R N L	L V G E F V T	R E W T L L D D K I I E Q V L K Q Q L
UniRef90_B3E305	I	P L E R I D	P A I L Q A L L	A D F V S	R E W S E E Q K I E Q V L K Q Q L
UniRef90_UPI0003B571EF	I	P W Q K L S	E D A F E G M L	Q E M V S	R D G G T D A E K I A Q L R E A L
UniRef90_W1N307	V	P W R M L P	T E T T L D A L L	E T Y V T	R R E G G Y D S T W V R E L R A Q L
UniRef90_UPI00037D7934	V	P H R M L P	A D T T L Q R L	L A E F V T	R R E G G Y D S T W V R E L R A Q L
UniRef90_I5B693	I	P Y D Q L S	P E A L H G V I	E E F V L	R R E G G P L E T K I A Q V L

UniRef90_F7YKJ3
UniRef90_F3L140
UniRef90_UPI0002DB86FC
UniRef90_A3WJ70
UniRef90_UPI000369816B
UniRef90_A4XWJ8
UniRef90_F7S0J9
UniRef90_LOWF08
UniRef90_K0NJ19
UniRef90_UPI00037E3AC3
UniRef90_UPI0004678C0C
UniRef90_UPI00047ED8D1
UniRef90_F5ZG21
UniRef90_UPI0002E3D335
UniRef90_COQKJ7
UniRef90_B8F852
UniRef90_W6ZWB0
UniRef90_UPI000377FC1
UniRef90_F7NYB5
UniRef90_F4HF50
UniRef90_UPI0003A302A9
UniRef90_UPI000409BB50
UniRef90_Q65R68
UniRef90_Q2LS45
UniRef90_UPI000380DB4C
UniRef90_J9YEE5
UniRef90_A0A031MF74
UniRef90_B3EAY0
UniRef90_I3I992
UniRef90_UPI0002FF09AF
UniRef90_X2H6W0
UniRef90_UPI0002559A76
UniRef90_Q3A0L0
UniRef90_S6GMY9
UniRef90_K6YID6
UniRef90_UPI0003B75868
UniRef90_M4UNX1
UniRef90_UPI000380E68A
UniRef90_UPI00036B47E9
UniRef90_UPI00035FE777
UniRef90_Q7VN47
UniRef90_Q4QLV1
UniRef90_V4F8D4
UniRef90_Q0I0Y3
UniRef90_F2K322
UniRef90_Q1YST1
UniRef90_C5BR41
UniRef90_F3HKK8
UniRef90_A1AS51
UniRef90_A6W0S8
UniRef90_S6HDM9
UniRef90_C6ALD5
UniRef90_G4QNN4
UniRef90_A0YAW8
UniRef90_H5TAR4
UniRef90_UPI00035CB134
UniRef90_Q1N5K6
UniRef90_M5DU10
UniRef90_UPI00037EBE72
UniRef90_UPI000408833D
UniRef90_S6KYW4
UniRef90_R4YL10
UniRef90_UPI0003686F36
UniRef90_X7E6R7
UniRef90_UPI0000E10DF9
UniRef90_K0C954
UniRef90_A1S9Z7
UniRef90_K4KG31
UniRef90_C4UH79
UniRef90_Q21LL6
UniRef90_F3KHF5
UniRef90_A0L7M5
UniRef90_W5X311
UniRef90_E1V8E6
UniRef90_W1ABP9
UniRef90_Q1QZP5
UniRef90_U7NGE0
UniRef90_F6CSR3
UniRef90_UPI00029A66C7
UniRef90_C4RXS2
UniRef90_UPI000347FB59
UniRef90_A2PDF4
UniRef90_K7ZCLO
UniRef90_I2JJQ6
UniRef90_A3Y9H3
UniRef90_A5G3A9
UniRef90_B9M0P5
UniRef90_B3E305
UniRef90_UPI0003B571EF
UniRef90_W1N307
UniRef90_UPI00037D7934
UniRef90_I5B693

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

UniRef90_A3QAG2
 UniRef90_UPI00037E2497
 UniRef90_B7RUT8
 UniRef90_X0X2V9
 UniRef90_D3HTW8
 UniRef90_A4A3J3
 UniRef90_T2L2Z8
 UniRef90_A4BHE1
 UniRef90_K6YYP7
 UniRef90_A0L0Q3
 UniRef90_UPI00046907DE
 UniRef90_UPI00046966FA
 UniRef90_Q12JB3
 UniRef90_UPI00047108D2
 UniRef90_B1KDG4
 UniRef90_E1SM88
 UniRef90_UPI000472641A
 UniRef90_D4ZFN0
 UniRef90_A1RG76
 UniRef90_J8V9V4
 UniRef90_B8KG56
 UniRef90_B0TU30
 UniRef90_H8W6D7
 UniRef90_Q07XY9
 UniRef90_A8H8D2
 UniRef90_N6VVC2
 UniRef90_A8G047
 UniRef90_G4AY07

	1		10		20		30		40																																
M	L	V	P	Y	Q	Q	L	P	A	E	T	L	D	N	L	I	K	E	F	L	F	T	Q	T	A	L	A	R	A	I	K	Q	C	R	Q	A	L				
M	L	I	P	I	E	S	L	D	R	S	T	I	F	S	I	I	E	E	F	V	L	R	E	G	T	F	Q	S	K	I	D	E	T	Y	R	K	L				
			P	L	N	R	L	S	E	D	V	L	Q	A	L	L	E	E	F	A	S	R	D	G	T	L	E	Q	K	A	G	N	L	R	R	Q	L				
			P	A	E	K	I	S	D	I	A	L	N	A	L	M	E	E	F	I	L	R	E	G	T	L	D	D	K	K	N	I	Q	K	Q	L					
M	L	I	D	Y	T	L	L	S	E	E	A	L	D	N	L	L	T	D	I	T	R	Q	G	T	D	Q	V	K	K	K	Q	L	L	H	H	L					
									E	R	V	P	E	E	Q	L	H	G	L	L	E	E	F	A	S	R	D	G	T	L	E	E	R	V	K	R	L	L	T	Q	L
			V	P	A	R	M	L	P	P	D	T	L	N	A	L	L	E	A	F	V	T	R	Q	G	Y	D	T	T	W	V	A	E	L	K	K	Q	L			
M	L	V	P	A	D	Q	L	S	Q	E	A	L	R	G	V	I	E	E	W	L	T	R	Q	A	Q	E	A	T	Q	V	E	N	V	K	Q	Q	L				
																						E	F	D	L	E	Q	K	V	N	H	V	M	L	Q	L					
M	L	I	P	Y	D	Q	L	P	K	E	T	L	A	N	L	I	R	E	Y	L	L	D	E	Q	E	L	S	A	A	I	A	Q	C	Q	Q	A	L				
M	L	I	P	Y	E	Q	L	P	K	E	T	L	D	N	L	I	K	E	Y	L	L	S	Q	V	A	L	E	Q	A	I	G	K	C	R	L	A	L				
			V	P	S	R	M	L	P	A	E	T	R	R	A	L	L	E	T	F	V	T	R	Q	G	Y	D	T	T	W	V	A	E	L	E	G	Q	L			
M	L	V	P	Y	Q	A	L	P	S	E	T	L	E	N	L	I	K	E	Y	L	L	Q	D	D	A	L	S	H	A	I	S	Q	C	H	Q	A	L				
			Y	Q	E	L	P	A	E	L	R	R	A	L	L	G	E	F	A	T	R	Q	G	Y	D	E	G	W	V	D	H	L	E	Q	Q	A	L				
M	L	V	P	Y	D	Q	L	P	T	E	T	F	E	A	L	I	K	E	Y	L	L	D	E	E	G	L	Q	R	A	I	A	Q	C	K	Q	A	L				
M	L	I	D	Y	S	T	L	D	P	D	T	L	N	N	L	C	R	E	F	L	I	R	Q	A	G	L	A	D	G	I	T	K	V	Q	L	A	L				
M	Q	I	P	Y	E	Q	L	P	N	E	T	L	E	N	M	I	K	E	Y	L	F	S	Q	V	E	L	T	Q	A	I	A	Q	C	K	Q	A	L				
M	L	V	P	Y	D	Q	L	P	S	A	T	M	N	N	L	I	K	E	Y	L	L	T	E	Q	V	L	T	S	A	S	E	R	C	K	Q	A	L				
M	L	I	P	Y	D	Q	L	P	K	E	T	L	A	N	L	V	R	E	Y	L	L	D	E	Q	E	M	S	L	A	L	A	C	Q	Q	A	L					
			V	P	L	A	R	V	P	Q	E	H	L	Q	A	L	L	E	E	Y	A	S	R	E	T	S	L	S	D	R	V	L	Q	L	Q	A	Q	M			
M	L	V	P	Y	E	Q	L	P	S	E	T	F	D	N	L	I	K	E	Y	L	L	S	Q	V	E	M	D	K	A	T	L	Q	C	K	A	A	L				
			L	T	A	D	Q	L	E	G	L	A	E	E	Y	C	T	R	E	S	P	L	A	E	R	E	R	V	L	E	A	V									
M	L	V	P	Y	E	Q	L	P	Q	E	V	L	Q	R	M	I	K	E	Y	L	L	S	E	Q	Q	L	S	R	A	I	D	Q	C	K	L	A	L				
M	L	V	P	Y	E	S	L	P	S	D	T	F	D	N	L	V	K	E	Y	L	L	S	Q	V	S	M	D	R	A	M	I	Q	C	K	T	A	L				
			I	V	D	T	D	L	L	T	E	D	Q	L	E	G	L	V	E	E	Y	C	T	R	E	S	P	L	D	E	K	R	R	V	M	T	A	V			
M	L	V	P	Y	Q	Q	L	P	N	E	T	L	E	S	L	I	K	E	Y	L	L	T	D	D	E	T	L	T	L	A	L	N	K	C	K	Q	A	L			
M	L	I	P	W	Q	E	L	A	E	E	T	L	V	N	I	V	E	S	V	I	L	R	E	G	T	D	Y	G	S	H	E	Q	T	F	E	Q					

lupas_21
 lupas_14
 lupas_28
 jnet
 conf
 sol25
 sol5
 sol0
 jhmm
 jpssm



