

QUERY	1	10	20	30	40
UniRef90_UPI000392D106	P Q V L	R G S G H C	K W F N V R M G F G F	L S M T S R E G S T P	L E N P V D V F V
UniRef90_H2TGF9	P Q P L	H G S G I C	K W F N V R M G F G F	L S M T A K G G A T	L D N P V D V F V
UniRef90_T1KM74	A A L S	R R G S G V C C	K W F N M R M G F G F	L S M S S R D G T	P L D D P N L D V F V
UniRef90_T5KDR2	Q Y M S	T Q G T V K	W F N S E K G F G F	I T	P D D G G G A D V F A
UniRef90_T1EU12	A K P E	R K S G R C	K W F N V V K G Y G F	I T	P D D D G T P D V F L
UniRef90_F1M1Q9	A Q K S	Q V L G I V	K W F N V R R G Y G F	I T	P D D D T R E D V F V
UniRef90_I3NB13		R V R G S V	K W F N V K N G Y G F	I T	S R R H D T Q E D V F V
UniRef90_B3RZU4		K V S G K V	K W F N V K R G Y G F	I T	H R D D T G E D V F V
UniRef90_A3BPB0		R V K G T V	K W F N D A T K G F G F	I T	P D D D G G E D L F V
UniRef90_I0ZAW6	A E A S	K A T G T V	K W F N S T K G F G F	I T	P D D D G G E D L F V
UniRef90_S2K0H7		R H K G R V	K F F N S T K G F G F	I T	L P D A K E E N D A I E E V F V
UniRef90_H2SQQ9		G V L C K W	F N V R M G F G F	I T	L S M T N R E G L P L D E P V D V F V
UniRef90_F4S791		K R S G F C	K F F N A G K G F G F	I T	Q D D N P A E L P T D P G T D I F V
UniRef90_E2SAG1		M A T G T V	K W F N A D K G F G F	I T	A P D D G G S E D V F A
UniRef90_K6WZU5	M S	K S T G I V	K W F N A E K G F G F	I T	P D N D G G S D V F V
UniRef90_O46173		K V T G T V	K W F N V K S G Y G F	I T	N R N D T R E D V F V
UniRef90_B3PL56		T G T V	K W F N N A K G Y G F	I T	L A D E G G E D L F A
UniRef90_K0C273		M A T G T V	K W F N E S K G F G F	I T	P E D G G S K D V F V
UniRef90_UPI00037716F0		M A V Q G T	V K W F N A E K G F G F	I T	P D D G G G A D V F A
UniRef90_UPI0004081490	P Q E D	R E T G T V	K W F N T S K G F G F	I T	S R D S G E D I F V
UniRef90_H3CXQ2		V Q G T V	K W F N V R N G Y G F	I T	N R N D T K E D V F V
UniRef90_A0A016V668		V S G V V	K W F N V K N G Y G F	I T	N R T D T N E D I F V
UniRef90_UPI0003B7AC1C		T G T V	K W F N A E K G F G F	I T	A P E D G G A D V F A
UniRef90_UPI000376BB39		A T G T V	K W F N S E K G F G F	I T	E Q D G A P E D G S A D V F A
UniRef90_UPI0002C36B64		R L T G K V	K W F N D Q K G F D F	I T	T Q D G P E N G G E D L S F
UniRef90_UPI0003801F69	M S	K V T G T V	K W F N A D K G Y G F	I T	L T Q D S N R D G D K D V F V
UniRef90_H2YIG1		S G T V	K W F N V R N G Y G F	I T	N R D D N K E D V F I
UniRef90_UPI000255C9CF		M A T G T V	K W F N A E K G Y G F	I T	A P D D S S D D V F V
UniRef90_W9GMJ3		M A T G T V	K W F N S E K G F G F	I T	A P D D G G S A D V F A
UniRef90_UPI00042934E6		K M T G I V	K W F N S E K G F G F	I T	S P V D G G S K D V F V
UniRef90_UPI00047491B9	M S	M Q G K V	K W F N N A K G F G F	I T	N T E A K E G L D E Q G H P D F F A
UniRef90_UPI000415C060		M A Q G T V	K W F N A E K G F G F	I T	P D E G G A D L F V
UniRef90_I1WLU2	E V G	M A T G I V	K W F N D A K G F G F	I T	P D E G G E D L F A
UniRef90_U1LQL5		M A T G T V	K W F D S G K G F G F	I T	A P D D G G K D L F A
UniRef90_A1CFX7	L E	R Q N G T V	K W F N D E K G Y G F	I T	T P E T G E D L F V
UniRef90_G3N0T3		R V L G T V	V W F K E K K G Y G F	I T	S R Q D T Q E D V F V
UniRef90_UPI0003755E9C	Q D R	M A T G T V	K W F S D E K G F G F	I T	T S R Q P S D G S K D V F V
UniRef90_UPI00047D9603		Q G T V	K W F N S E K G F G F	I T	E V T Q D E G G E D V F V
UniRef90_B4UM96		M A T G T V	K W F N D A K G F G F	I T	T Q D P A D G G A D L F V
UniRef90_M1WG97	Q G D	R Q A G V V	K W F N D E K G Y G F	I T	T P A D G G A D L F V
UniRef90_W9QKF3		R V T G I V	K W F S D Q K G F G F	I T	P N D G G S D L F V
UniRef90_UPI0003485466		M A T G T V	K W F N A E K G F G F	I T	S P D D G G S T D V F V
UniRef90_L7U9D6		M A T G T V	K W F N D A K G F G F	I T	A Q D N G G P D V F C
UniRef90_A0A034TLQ4	M S	M A T G T V	K W F N N A K G F G F	I T	C S D E E E G D I F A
UniRef90_T5L067		M A T G T V	K W F N A E K G F G F	I T	A P D D G S D D L F A
UniRef90_U7P0Q0		M A T G T V	K W F N D T K G Y G F	I T	S P D D S G D D L F A
UniRef90_Q1C1Q3		K M T G I V	K W F D A G K G F G F	I T	T P A D G S K D V F V
UniRef90_K0SUV9		T G S V	K W F D S E K G Y G F	I T	V P D D G S D D V F V
UniRef90_UPI0002E08ECD		M T G T V	K W F N S E K G F G F	I T	E R Q D R E D G R D G D D V F V
UniRef90_I1DTZ5		M A T G K V	K W F N N A K G F G F	I T	L E D G K P D E D L F A
UniRef90_F2ZM34		N G K V	K W F N N A K G Y G F	I T	G K P D N G S K D L F V
UniRef90_I0GI93	M E	R F K G T V	K W F N A Q K G F G F	I T	V P D N G S K D L F V
UniRef90_UPI0003712D9F		R E T G S V	K W F N V T K G F G F	I T	T R D V G D D I F V
UniRef90_G2DZ62		V T G T V	K W F N D E K G Y G F	I T	E R E G G K D V F V
UniRef90_E1G504		V K G R V	K W Y S V R F H Y G F	I T	A R D D K G N D V F V
UniRef90_C8NGA4		M E Q G T V	K W F N S E K G F G F	I T	E R E G G N D V F A
UniRef90_J3IF23		V K V S G K V	K W F N N A K G Y G F	I T	N E D G K T E D L F A
UniRef90_J3QBU2		R R T G I C	K F F N V G K G F G F	I T	K D A R P E E L P V D P G T D I F V
UniRef90_G2P933		M A Q G T V	K W F N A E K G Y G F	I T	A Q E D G G P D V F A
UniRef90_UPI00037164BF	D V F	A X T G T V	K W F N A D K G F G F	I T	P E D G S K D V F A
UniRef90_M5DSP3		T G K V	K W F N N A K G Y G F	I T	L A D D G S N E D L F A
UniRef90_L0WA32		M A T G R V	K W F N N A K G Y G F	I T	R P E D G G E D L F V
UniRef90_C6XW76	M R	T T G K V	K W F N S A K G F G F	I T	P P E D G G K D I F V
UniRef90_B2UAR3		M A L G T V	K W F N D A K G F G F	I T	S P D E G G E E L F A
UniRef90_E8N2P7		R I L G T V	K W F N S E K G Y G F	I T	S R E N G P D V F V
UniRef90_U3UB62		M A T G T V	K W F S D A K G F G F	I T	K P D D G T P D L F A
UniRef90_UPI0003B50555		M A Q G T V	K W F N S E K G F G F	I T	A P D D G S A D V F V
UniRef90_E6SAS8		M A T G T V	K W F N S E K G F G F	I T	E Q D G G G A D V F V
UniRef90_A0A031MDX0		R Q T G T V	K W F N D A K G F G F	I T	Q R D S G P D V F V
UniRef90_D5ED60		M A Q G T V	K W F N D S K G Y G F	I T	T T D E T T D E G K D V F V
UniRef90_UPI00047703C3	M R	E K G V V	K W F N A A K G Y G F	I T	Q R S Q R S N G D D V F V
UniRef90_H9AWD3		G T V	K W F N L E E G F G F	I T	E R E S G D D V F V
UniRef90_E2XVW5		M A T G T V	K W F N A E K G F G F	I T	T Q D G T Q D G G G A D V F V
UniRef90_L5MX89	M Q	A N G T V	K W F N A E K G Y G F	I T	Q V A P D S G S E D V F V
UniRef90_L7LMB9		M A Q G T V	K W F N G E K G F G F	I T	A P D S G S E D V F V
UniRef90_F3KCD5		R A T G T V	K W F N N A K G Y G F	I T	E H H D P A A G G Q D L F V
UniRef90_U2A7G7		M A Q G T V	K W F N A E K G Y G F	I T	T P A A G G Q D L F A
UniRef90_C4ZJQ4		T G T V	K W F N D A K G F G F	I T	P E G G G D D L F A
UniRef90_W9AZV6	M S	K L T G T V	K W F N D D K G F G F	I T	S A A D S A A D G K D V F V
UniRef90_A1SKN6		M A Q G T V	K W F N D D K G F G F	I T	A Q D G A Q D G G G P D V F V
UniRef90_A4G5Y5		M A T G I V	K W F N D S K G F G F	I T	P D E G G E D L F A
UniRef90_E5WHD1		T G K V	K W F N A E K G F G F	I T	E S S E E S S E G Q D V F V
UniRef90_G2GX92		K L K G Q V	K W F N A K G F G F	I T	T P L D G G K D L F A
UniRef90_Q9CI37		M A N G T V	K W F N A D K G F G F	I T	T S E E G K D L F A
UniRef90_UPI0003792FC3		M A Q G T V	K W F N A E K G F G F	I T	A Q A Q D E N G P D V F V
UniRef90_A4TN43		T G T V	K W F N N A K G F G F	I T	C P E G G G E D I F A
UniRef90_J9YBF2		M A V G K V	K W F N N A K G F G F	I T	V P E D G G E D I F A
UniRef90_D5V4Q9		V N G T V	K W F N S E K G F G F	I T	E Q E N G G K D V F V
UniRef90_F9RVV8		M A T G T V	K W F N N A K G F G F	I T	C A E G D D S D V F A
UniRef90_U4UBG6	M T	R L N G V C	K W F N N K K G Y G F	I T	L E N G E D V F V
UniRef90_E6WTU5		R E T G T V	K W F N D A K G F G F	I T	S R E N G E D V F V

QUERY N P C L G N E
 UniRef90_UPI000392D106 V F C I G S E
 UniRef90_H2TGF9 A P C L G S K
 UniRef90_T1KM74 L E C K G S H
 UniRef90_T5KDR2
 UniRef90_T1EU12 T D C K G S E
 UniRef90_F1M1Q9 V P V Q G S K
 UniRef90_I3NB13 A P V E G S
 UniRef90_B3RZU4 T A V K G S K
 UniRef90_A3BPB0 R A V
 UniRef90_I0ZAW6 A P P Q G
 UniRef90_S2K0H7 V S V Q G D
 UniRef90_H2SQQ9 I H C M G S E
 UniRef90_F4S791 A P V K G
 UniRef90_E2SAG1
 UniRef90_K6WZU5
 UniRef90_O46173 E P V R G S Q
 UniRef90_B3PL56
 UniRef90_K0C273
 UniRef90_UPI00037716F0
 UniRef90_UPI0004081490
 UniRef90_H3CXQ2 V P V K G S
 UniRef90_A0A016V668 G P V Q G S K
 UniRef90_UPI0003B7AC1C
 UniRef90_UPI000376BB39
 UniRef90_UPI0002C36B64 G P V Q G
 UniRef90_UPI0003801F69
 UniRef90_H2YIG1 E P V K G S K
 UniRef90_UPI000255C9CF
 UniRef90_W9GMJ3
 UniRef90_UPI00042934E6
 UniRef90_UPI00047491B9
 UniRef90_UPI000415C060
 UniRef90_I1WLU2
 UniRef90_U1LQL5
 UniRef90_A1CFX7
 UniRef90_G3N0T3 A P L K G S
 UniRef90_UPI0003755E9C
 UniRef90_UPI00047D9603
 UniRef90_B4UM96
 UniRef90_M1WG97
 UniRef90_W9QKF3 A P V Q
 UniRef90_UPI0003485466
 UniRef90_L7U9D6
 UniRef90_A0A034TLQ4 K P
 UniRef90_T5L067
 UniRef90_U7P0Q0
 UniRef90_Q1C1Q3
 UniRef90_K0SUV9 A D V K G
 UniRef90_UPI0002E08ECD
 UniRef90_I1DTZ5
 UniRef90_F2ZM34
 UniRef90_I0GI93
 UniRef90_UPI0003712D9F
 UniRef90_G2DZ62
 UniRef90_E1G504 A E V R G S K
 UniRef90_C8NGA4
 UniRef90_J3IF23 N P V D A S
 UniRef90_J3QBU2 V N V K G
 UniRef90_G2P933
 UniRef90_UPI00037164BF
 UniRef90_M5DSP3
 UniRef90_L0WA32
 UniRef90_C6XW76
 UniRef90_B2UAR3
 UniRef90_E8N2P7
 UniRef90_U3UB62
 UniRef90_UPI0003B50555
 UniRef90_E6SAS8
 UniRef90_A0A031MDX0
 UniRef90_D5ED60
 UniRef90_UPI00047703C3
 UniRef90_H9AWD3
 UniRef90_E2XVW5
 UniRef90_L5MX89
 UniRef90_L7LMB9
 UniRef90_F3KCD5
 UniRef90_U2A7G7
 UniRef90_C4ZJQ4
 UniRef90_W9AZV6
 UniRef90_A1SKN6
 UniRef90_A4G5Y5
 UniRef90_E5WHD1
 UniRef90_G2GX92
 UniRef90_Q9CI37
 UniRef90_UPI0003792FC3
 UniRef90_A4TN43 N S V
 UniRef90_J9YBF2
 UniRef90_D5V4Q9
 UniRef90_F9RVV8
 UniRef90_Q4UBG6 T H V T G
 UniRef90_E6WTU5

	1	10	20	30	40
UniRef90_W2EVJ9		MA Q G T V	K W F N A E K G F G F I		
UniRef90_UPI0004097C72		K S T G L V	K W F N E S K G F G F I	A P D G G G E P D V F V	
UniRef90_D0BLG0		Q G K V	K W F N A E K G F G F I	P D N G G S S D L F V	
UniRef90_I3IBA5		G T V	K W F N N A K G Y G F I	E D G G S D I F V	
UniRef90_UPI0002DE6B68	P A A G R E	K G T V	K W F N T S K G F G F I	E D G G E D I F V	
UniRef90_E3PX25		N G L V	K W F N A E K G F G F I	D S G G D D V F V	
UniRef90_A1JTB9		M M K G Q V	K W F N E S K G F G F I	E G G K D V F V	
UniRef90_A0A023NUA6		T G T V	K W F N D A K G F G F I	P A D G S K D V F V	
UniRef90_X4UH10		M L T G T V	K F F N E T K G F G F I	G G G D D V F V	
UniRef90_W2EIY5		MA Q G T V	K W F N A D K G Y G F I	E N G P D V F V	
UniRef90_L2TQY3		MA Q G L V	K W F N S E K G F G F I	D D G G K D V F V	
UniRef90_UPI0004651D29		M T T Q G T V	K W F N A A K G Y G F I	A P D D D G T P D V L V	
UniRef90_S2XT05		Q G K V	K W F N N E K G Y G F I	D D G G K D I F V	
UniRef90_UPI0004661242		M S R S T G V V	K W F N E S K G F G F I	N D G G E D V F V	
UniRef90_B9YAF9		M V T G K V	K W F N A E K G Y G F I	E G G Q D V F V	
UniRef90_G2DA99		T G V V	K W F N N A K G Y G F I	G K D V F V	
UniRef90_S0G7P6		MA N G T V	K W F N D A K G F G F I	P D D G G V D I F V	
UniRef90_R1P10		M A T G T V	K W F N N A K G F G F I	D G G K D V F V	
UniRef90_W8Q2L5		R T K G T V	K W F N D A K G Y G F I	P D E G D G D I F A	
UniRef90_A3D3A4		M S Q V T G V V	K W F N S D K G F G F I	E S G P D V F V	
UniRef90_R7TT38		K V T R A V	K W F N V R R G Y G F I	E G D D V F V	
UniRef90_D5VCG1		M S K E Q G V V	K W F N D A K G F G F I	N R D N T Q	
UniRef90_B8D279		M I Y N G K V	K W F S D K K G F G F I	E R E A	
UniRef90_UPI000376C8EA		M V K G T V	K W F N N A K G Y G F I	E R E	
UniRef90_F3KZP2		R V S G K V	K W F N N A K G Y G F I	Q R	
UniRef90_C3K4R2		R E T G N V	K W F N D A K G Y G F I	A Q	
UniRef90_UPI00046CE67D		MA V G T V	K W F N D A K G Y G F I		
UniRef90_C5AKA9		MY T G T V	K W F N D A K G F G F I	P D D G S E D V F V	
UniRef90_A2SHW9		T G T V	K W F N E A K G F G F I	A Q D G	
UniRef90_U1K2L2		V N G T V	K W F N E E K G F G F I	T Q E	
UniRef90_T5IHQ0		T G S V	K W F N D S K G F G F I		
UniRef90_F4LX13		M Q G K V	K W F N Q E K G Y G F I	E V D	
UniRef90_UPI0002D4CCB2		Q G T V	K W F N A E K G Y G F I	A V D	
UniRef90_B3W6Y5		K G T V	K W F N A D K G Y G F I		
UniRef90_I9W4F4		M A T G T V	K W F N D A K G F G F I	P E D G G E D L F A	
UniRef90_D1B8M1		M A T Q G T V	K W F N A T K G Y G F I	T T D E	
UniRef90_A4BPZ0		T E R Y I G V V	K W F D S K G Y G F I	S Q E Q	
UniRef90_Q0S4T4		MA E G L V	K W F N S E K G F G F I		
UniRef90_B9GUE2	A E T K R S	T G T V	K W F S A K K G Y G F I	A P E D G S A D V F V	
UniRef90_F7V5Y0		Q G T V	K W F N A K K G Y G F I	A P D D G G E D L F V	
UniRef90_X0RVN5		T G K V	K W F N A E K G F G F I	L E E G N D V F V	
UniRef90_L8MD68		R Q T G T V	K W F N A E K G F G F I	D E A G Q D V F V	
UniRef90_F7KIX8		K G T V	K W F N N Q K G Y G F I	E S G P D V F V	
UniRef90_UPI00041DC846		N G T V	K W F N D E K G F G F I	E N G P D V F V	
UniRef90_Q39YU1		MA N G T V	K W F N D S K G F G F I	E R A D	
UniRef90_I1YGC1		Q V T G T V	K W F N D A K G F G F I	V D	
UniRef90_UPI00047BA92D		MA L G T V	K W F N A E K G Y G F I	Q Q D	
UniRef90_H5ST10	M H M V T G K V	K W F N D A K G Y G F I	K W F N S E K G F G F I	S R	
UniRef90_E5WPA6		N G K V	K W F N S E K G F G F I		
UniRef90_F2JHX2		M T G T V	K W F N A E K G F G F I		
UniRef90_R1F6X1	M P D T G T V	K W F N S Q K G F G F I		P D S G G E D L F A	
UniRef90_F8K0U6		M A T G L V	R W F N D A K G F G F I	P D D G G E D L F A	
UniRef90_UPI0002883D97		Q G T V	K W F N A E K G F G F I	A V	
UniRef90_C5BDR9		K M T G L V	K W F N A D K G Y G F I		
UniRef90_M4CD18		R S T G T V	N W F S D A K G Y G F I		
UniRef90_I3IH54		M A T G T V	K W F N D K K G F G F I	S Q	
UniRef90_A4J6J2		M Q G K V	K W F N A N K G Y G F I	S E I	
UniRef90_A0A038GP09		M A T G T V	K W F N D A K G Y G F I		
UniRef90_I2AEQ3		Q G T V	K W F N S D K G F G F I		
UniRef90_B2A4I2		T G T V	K W F D S K K G Y G F I	E R E S G E G	
UniRef90_D5X3Q4	M A M Q T G A V	K W F N E S K G F G F I		A Q D G	
UniRef90_E3DNS2	M V Y T G N V	K W F D E K K G Y G F I		E R	
UniRef90_A0A033UIP0		K G T V	K W F N A E K G Y G F I		
UniRef90_A0A023RWI3		R E Q G V V	K W F N D T K G F G F I	Q R	
UniRef90_W7CWB0		N G R V	K W F N N E K G Y G F I	E M	
UniRef90_K6GNK8	M A F E G T V	K W F S D K K G Y G F I		M R	
UniRef90_H0XNG5		G T V	K W F S V R N G Y G F I	N R N	
UniRef90_UPI0003610913		T G T V	K W F N A E K G F G F I	E I	
UniRef90_L0GXZ9		M I T G L V	K W F N N A K G Y G F I	K P D G R E	
UniRef90_A8XE91		Q G K V	K W Y S V L R R Y G F I	S R N	
UniRef90_W8AP01		M V Q G T V	K W F N A E K G Y G F I	A R	
UniRef90_I4BW08		G T V	K W F N A T K G Y G F I	T S	
UniRef90_M7ZFN0		K V	K W F N E S K G F G F I		
UniRef90_UPI000370DABA		M A E G T V	K W F N A E K G F G F I		
UniRef90_UPI0003FCBAD2		T G T V	K W F N E A K G F G F I	Q Q	
UniRef90_K8EFU3		K G T V	K W F N G E K G F G F I	E V	
UniRef90_X7E3Q5		R E Q G T V	K W F N S S K G F G F I	T M	
UniRef90_W8KKC8		T G T V	K W F N E S K G F G F I		
UniRef90_UPI0003B583D4		M A Q G S V	K W F N N E K G Y G F I	A V	
UniRef90_V4IJB9		G T V	K W F N D A K G F G F I	E Q	
UniRef90_G8WVG89		R L M G L V	K W F N E D K G Y G F I		
UniRef90_B2KCC8		M A K G K V	K W F N D Q K G Y G F I		
UniRef90_UPI0003459A0D		T G T V	K W F D E S K G F G F I		
UniRef90_Q3AFQ7		M Q G K V	K W F D P K K G Y G F I	E R	
UniRef90_K4B3Z2		R L K G T V	K W F S D Q K G F G F I		
UniRef90_Q02AK0		M R E T G T V	K W F N A G K G F G F I	Q R	
UniRef90_F3KZP3		R E T G T V	K W F N A T K G F G F I	V C	
UniRef90_A4ABZ6		M S T V T G T V	K W F N E S K G F G F I	E R	
UniRef90_UPI000465B9E0		Q G T V	K W F N S E K G F G F I		
UniRef90_F9V7G6		K G T V	K W F N D S K G F G F I	T A	
UniRef90_Q1AZM5		M A Q M T V	K W F S D E K G Y G F I	S	
UniRef90_R5ST55		M S G N V	K W F N N E K G Y G F I	D Y V D	

UniRef90_W2EVJ9 H F S A I T G S G G Y K R N L E D E G Q R V E F E V I A G P K G G Q A S N V R G I
UniRef90_UPI0004097C72 H F K S A I Q V S E E G G Y K R N L E D E G Q R V E F E V I A G P K G G Q A S N V R G I
UniRef90_DOBLG0 H F S A I Q V S E E G G Y K R N L E D E G Q R V E F E V I A G P K G G Q A S N V R G I
UniRef90_I3IBA5 H Y R N I R A E E G G Y K R N L E D E G Q R V E F E V I A G P K G G Q A S N V R G I
UniRef90_UPI0002DE6B68 H F R A I R G E E G G H R V L A E E G G Q R V E F E V I A G P K G G Q A S N V R G I
UniRef90_E3PX25 H F S A I Q S S E E G G Y K R N L E D E G Q R V E F E V I A G P K G G Q A S N V R G I
UniRef90_A1JTB9 H F S A I Q Q D Q E G G Y K R N L E D E G Q R V E F E V I A G P K G G Q A S N V R G I
UniRef90_A0A023NUA6 H F R S I Q S S S G G F K R T L A E E G G Q R V E F E V I A G P K G G Q A S N V R G I
UniRef90_X4UH10 H F S A I Q M G S G G F K R T L A E E G G Q R V E F E V I A G P K G G Q A S N V R G I
UniRef90_W2EIY5 H Y S A I M M D G G Y K R N L E D E G Q R V E F E V I A G P K G G Q A S N V R G I
UniRef90_L2TQY3 H Y S E I M G S D G G F T S L L D E D E N Q R V E F E V I A G P K G G Q A S N V R G I
UniRef90_UPI0004651D29 H F S A I Q Q G D D G F K R T L D E D E G Q R V E F E V I A G P K G G Q A S N V R G I
UniRef90_S2XT05 H F T G I Q G G D D G F K R T L D E D E G Q R V E F E V I A G P K G G Q A S N V R G I
UniRef90_UPI0004661242 H Y S A I T G T D G G F K T L D E D E G Q R V E F E V I A G P K G G Q A S N V R G I
UniRef90_B9YAF9 H Y S A I Q T T D G G F K T L D D D G G E A V S F E V I A G P K G G Q A S N V R G I
UniRef90_G2DA99 H F S S I T M E D G G Y K T L K E E G G Q R V E F E V I A G P K G G Q A S N V R G I
UniRef90_S0G7P6 H H S G I N A M G G F K S L L N E G D R V S F D I V S E G G Q R K G G P A A T N V T
UniRef90_R1P10 H Y S T I Q M D G G Y K T L K A G A R Q T V N Y F E V I Q E Q G A P K G G Y H A T N V I
UniRef90_W8Q2L5 H Y S A I S G E D G G Y K T L K E R Q T V S F E V I E Q Q G A K G G P Q A A T R N V T
UniRef90_A3D3A4 H F R A I N S D G G F K T L D E D E G Q R V E F E V I A G P K G G Q A S N V R G I
UniRef90_R7TT38 H T A I P H K Y L R S V G D G G E K M E F D V M K A E K G G N Q A A A N V T
UniRef90_D5VCG1 H F R A I Q K E E G G Y K R S L K D E G G Q A V E F E V I A G P K G G Q A S N V R G I
UniRef90_B8D279 H F S A I Q Q E E G G F K S L L D E D E G Q R V E F E V I A G P K G G Q A S N V R G I
UniRef90_UPI000376C8EA H S A I Q Q G E E G G Y K R T L D N E D E G Q A V E F E V I A G P K G G Q A S N V R G I
UniRef90_F3KZP2 H F R S I Q G G E D G F R T L L N E G G Q A V E F E V I A G P K G G Q A S N V R G I
UniRef90_C3K4R2 H Y R A I R G E E G G H R S L L A E E G G Q R V E Y A V V T G E K G G L L Q A E D V
UniRef90_UPI00046CE67D H F S A I Q M Q G G F K T L Q D E G G Q R V E F E V I A G P K G G Q A S N V R G I
UniRef90_C5AKA9 H F S E I Q V S E E G G F K S L L Q E S Q R V R Y E V V T G P K G G Q A A D V
UniRef90_A2SHW9 H F R D I Q G S N G G F K T L Q E E N Q R S V E F E V I A G P K G G Q A S N V R G I
UniRef90_U1K2L2 H F R A I V S E D G G F K T L T E E G G Q R V S F T V E E Q G Q K G G P Q A A N V
UniRef90_T5IHQ0 H F F N S I V S E E G G F K T L A E E G G Q R V N F K V E E Q G Q K G G L Q A A N V
UniRef90_F4LX13 H Y S A I Q Q E E G G F K T L K E E G D S V E F D I V I E G G Q K G G P Q A A N V
UniRef90_UPI0002D4CCB2 H S A I Q M E E G G Y R S L L A E E G G Q R V Q F D I A Q Q S D R G G P Q A A N V
UniRef90_B3W6Y5 H F S A I N G E D G G Y K S L L D E E G G Q A V E F E V I A G P K G G Q A S N V R G I
UniRef90_I9W4F4 H F S A I A G T G G F K S L L A E E G A K V S F D V T T G P K G G R Q A A S N I
UniRef90_D1B8M1 H F S A I K M D G G Y R T L E E E G G Q R V S L D V E M G P K G G E Q A A N V
UniRef90_A4BPZ0 H F R A I R G E D G G F R T L R E E G Q R V E F D I V I E G P K G G L Q A A S D V
UniRef90_Q0S4T4 H Y S E I Q S S G G F R T L L E E N Q R V S F E I G Q G N K G G P Q A A T G V
UniRef90_B9GUE2 H Q T S I S S D G G F K T L S D D G S P V E F S V G S G E D G R R K A A D V
UniRef90_F7V5Y0 H F S A I N M D G G F K E L K D G E S V E F E V I A G P K G G Q A S N V R G I
UniRef90_X0RVN5 H F S A I T G D G G F K S L L D E D E G Q R V E F E V I A G P K G G Q A S N V R G I
UniRef90_L8MD68 H F R Q I E S T G G Y K S L L D E D E G Q R V S F L V T A G A K G G P Q A A V R A
UniRef90_F7KIX8 H Y S G L N M D G G F K S L L D E E G A A V E Y D V I A Q G G K G G P Q A A N V
UniRef90_UPI00041DC846 H F R A I N G T G R R T L V I E G G Q A V T F E V V I Q G Q K G G P Q A A D N V
UniRef90_Q39YU1 H F S A I N G D G G F K T L T E E G D R V T F D V V K G G P K G G L Q A A N V
UniRef90_I1YGC1 H F S A I Q S E E G F R T L K E E G Q A V T M V V T Q G A K G G L Q A A N V
UniRef90_UPI00047BA92D H W S S I Q M D G G F R A L K E E G Q R V E F E L G E G A K G G P Q A A E G V R
UniRef90_H5ST10 H F S A I K A D G G F K T L R E E G Q A V E F E I T S D A K G G P R A A A N V
UniRef90_E5WPA6 H F S A I Q G E D G G Y K S L L E E G G Q E V T F D V E T Q G Q R G A Q A A N V
UniRef90_F2JHX2 H F S A I Q G D G G F K S L L D E D E G Q R V N F D I T K G A R G A Q A A N V
UniRef90_R1F6X1 H Q S A I H A E G G F R K L G E G E K I E Y E V P V I E E D G K M K A T N T G P H G
UniRef90_F8K0U6 H F S E I R T D G G F K S L L E E N Q K V E Y E V K S G P K G G L Q A A N I R P L
UniRef90_UPI0002883D97 H F S A I Q S E E G F K T L E E E G Q K V E F N I E E G N R G G P Q A A N V
UniRef90_C5BDR9 H F S A I Q S N G G Y K T L D E D E G Q K V A F E V Q T G A K G P S A I N V T P L
UniRef90_M4CD18 H Q S S I V S D G G F R T L T V D E P V E Y A I A V G N D G K A V D V T A P G G
UniRef90_I3IH54 H Q T S I Q S E E G F R T L A E E G D K V E F E I V K D Q K G G Y K A A K V V
UniRef90_A4J6J2 H Y S A I Q S E E G G Y R T L E E E G E P V D F E I E G T R G P Q A A N V
UniRef90_A0A038GP09 H Y S E V R I Q G G F K S L L S E E N Q K V S F D V K E G A K G G K Q A A N I
UniRef90_I2AEQ3 H S E I Q E S G G F R S L L E E N Q R V S F E I S Q G P K G G P Q A A V G V T
UniRef90_B2A4I2 H F S A I N E E G G F K S L L E D G Q R V E F E V V I E A D R G P Q A A N V
UniRef90_D5X3Q4 H F S E I Q G N G G F K T L A E E N Q R V Q F E V K Q G P K G G L Q A A S N V T P L
UniRef90_E3DNS2 H F S A L Q Q E E G G F K T L A E E G Q R V E F E I V I E G D R G G P Q A A N V
UniRef90_A0A033UIP0 H F S S I Q T E E G Y K S L L D E D G A R V T F D I E E G G Q R G G P Q A A V N
UniRef90_A0A023RWI3 H F R A I V T G D G G H R S L R D G Q S V E F S V V I Q G Q K G G P Q A A N V
UniRef90_W7CWB0 H F T A I Q G D G G Y K S L L D E D G Q T V T F E I V I E G N R G G P Q A A N V
UniRef90_K6GNK8 H Y S A I E G D G G F R T L R E G E Q V T F E I V L Q G E R G P K A A N V R P A
UniRef90_H0XNG5 H Q T A I K I N K R Y L G D G K T M E F D V I E G E K G G V I E G A T V A G P G G
UniRef90_UPI0003610913 H F S A I E G E G G F K T L D E D G Q R V Q F N V T Q G N R G G P Q A A N V
UniRef90_L0GXZ9 H F S A I D M D G G Y K T L R E G G Q K V E F E V I T Q G K G G L H A A K V
UniRef90_A8XE91 H Q T A I K M F Y L R T L A D E E D I V F D L V I E G K N G P E A A N V T G P D G
UniRef90_W8AP01 H Y S E I E G N G Y R Q L A E E G Q A V S F E I T E G K K G G P Q A A A V R P
UniRef90_I4BW08 H Y S A I D M K G G F K T L A E E G D K V E F E V I E N G P A K G G P Q A A H V
UniRef90_M7ZFN0 H Y S A I A G P G L Q N L A E E G O N V E F T L E N G P K G G P T A A N V K A I
UniRef90_UPI000370DABA H Y S A I T G G G G F R S L L D E N Q R V S F E S S Q G A K G G P Q A A D Q V Q A L
UniRef90_UPI0003FCBAD2 H F R S I T G D G G F K T L A E E G Q R V E F T V T Q G K G G P Q A A N I V P L
UniRef90_K8EFU3 H F S A I Q G D D G F K T L D E D G Q P V E F E I V I E G N R G A Q A A N V
UniRef90_X7E3Q5 H Y R A I R G R G R R F L V I E G Q L V R F Y V T E G E K G G K Q A A N V S I I R G
UniRef90_W8KKC8 H F S S I E G D G G F R T L A E E G Q R V E F E T Q T P K G M A A A N V
UniRef90_UPI0003B583D4 H Y S A I E S D G G Y R S L L D E D G Q R V E F E V I A Q G P K G G P Q A A E G V R V V G
UniRef90_V4IJB9 H S A I Q A D G G F R S L L A E E G D R V S F E V V D G Q K G G P A A K N V
UniRef90_G8WVG89 H L S A L D G G D N F K T L S F E G Q K V E F A I H R G D K G G P A A A N V
UniRef90_B2KCC8 H Y Q E I K G E G F K T L S E G Q E V E F D I V I E S D K G G P K A A N V R
UniRef90_UPI0003459A0D H F R A I V D D G G Y R T L Q E E G Q R V Q F T V E Q G A K G G P Q A A T Q V T A
UniRef90_Q3AFQ7 H F S A I Q E K G F K T L A E E G G R V E F E I V I E G A R G G P Q A A N V
UniRef90_K4B3Z2 H Q S G I R S E G F R S L A E E G E D V E Y Q I E S G S D G R K A A S D V T G P N E
UniRef90_Q02AK0 H F S A I S A S G G Y R S L L D E G A R V S F V V K K G P K G G L Q A A E D V S P
UniRef90_F3KZP3 H F R A L R N G D G R S L L K D G L P V S F V I T S G D R G P Q A A S D V
UniRef90_A4ABZ6 H F S A I K G D G G F K T L T D D G Q K V E F T V T D G Q K G G P Q A A E D V V A
UniRef90_UPI000465B9E0 H Y S E I T G S G G F R S L L E D N A R V Q F D I G Q Q S N R G G P Q A A T A V S A L
UniRef90_F9V7G6 H F T Q I Q S D G G F R K L L E E G E K V S F D I E Q G Q R G G P Q A A S N I T
UniRef90_Q1AZM5 H Y T G I E G T G F K T L E E E G A R V S Y E T T R G R K G M Q A A V K N S
UniRef90_R5ST55 H Y S A I K C D G G Y K T L V I E G Q S V N F E L I E T P K G L Q A A V N V

UniRef90_W2EVJ9
UniRef90_UPI0004097C72
UniRef90_D0BLG0
UniRef90_I3IBA5
UniRef90_UPI0002DE6B68
UniRef90_E3PX25
UniRef90_A1JTB9
UniRef90_A0A023NUA6
UniRef90_X4UHI0
UniRef90_W2EIY5
UniRef90_L2TQY3
UniRef90_UPI0004651D29
UniRef90_S2XT05
UniRef90_UPI0004661242
UniRef90_B9YAF9
UniRef90_G2DA99
UniRef90_S0G7P6
UniRef90_R1IP10 E A K
UniRef90_W8Q2L5
UniRef90_A3D3A4
UniRef90_R7TT38 A S Q G S K
UniRef90_D5VCG1
UniRef90_B8D279
UniRef90_UPI000376C8EA
UniRef90_F3KZP2
UniRef90_C3K4R2
UniRef90_UPI00046CE67D
UniRef90_C5AKA9
UniRef90_A2SHW9
UniRef90_U1K2L2
UniRef90_T5IHQ0
UniRef90_F4LX13
UniRef90_UPI0002D4CCB2
UniRef90_B3W6Y5
UniRef90_I9W4F4
UniRef90_D1B8M1
UniRef90_A4BPZ0
UniRef90_Q0S4T4
UniRef90_B9GUE2
UniRef90_F7V5Y0
UniRef90_X0RVN5
UniRef90_L8MD68
UniRef90_F7KIX8
UniRef90_UPI00041DC846
UniRef90_Q39YU1
UniRef90_I1YGC1
UniRef90_UPI00047BA92D
UniRef90_H5STI0
UniRef90_E5WPA6
UniRef90_F2JHX2
UniRef90_R1F6X1 N Y K G D
UniRef90_F8K0U6
UniRef90_UPI0002883D97
UniRef90_C5BDR9
UniRef90_M4CD18 G
UniRef90_I3IH54
UniRef90_A4J6J2
UniRef90_A0A038GP09
UniRef90_I2AEQ3
UniRef90_B2A4I2
UniRef90_D5X3Q4
UniRef90_E3DNS2
UniRef90_A0A033UIP0
UniRef90_A0A023RWI3
UniRef90_W7CWB0
UniRef90_K6GNK8
UniRef90_H0XNG5 P Q G S
UniRef90_UPI0003610913
UniRef90_L0GXZ9
UniRef90_A8XE91 G N A G S
UniRef90_W8AP01
UniRef90_I4BW08
UniRef90_M7ZFN0
UniRef90_UPI000370DABA
UniRef90_UPI0003FCBAD2
UniRef90_K8EFU3
UniRef90_X7E3Q5
UniRef90_W8KKC8
UniRef90_UPI0003B583D4
UniRef90_V4IJB9
UniRef90_G8WG89
UniRef90_B2KCC8
UniRef90_UPI0003459A0D
UniRef90_Q3AFQ7
UniRef90_K4B3Z2 A A K
UniRef90_Q02AK0
UniRef90_F3KZP3
UniRef90_A4ABZ6
UniRef90_UPI000465B9E0
UniRef90_F9V7G6
UniRef90_Q1AZM5
UniRef90_R5ST55

	1	10	20	30	40																													
UniRef90_Q1ZM8		MA QGRV	KWFNVE	KGYGF	IEHP																													
UniRef90_UPI000381496B		VTGT	VKWFNET	KGFGF	IQQ																													
UniRef90_UPI00040B40A8		GT	VKWFND	AKGFG	IS																													
UniRef90_H2G1R0		VK GKV	KFFNE	AKGFG	IEQQ																													
UniRef90_C3AIL2	MT	VTGT	VKWFNNE	KGFGF	IEVP																													
UniRef90_W5YKK4		GT	VKWFNV	KKGFG	VR																													
UniRef90_C5CHY2		MKGT	VKWFNA	QKGYGF	TRDE																													
UniRef90_U5L4B9	MA	TGKV	VKWFNA	EKGFG	ETSE																													
UniRef90_V6Q390		QGT	VKWFNA	EKGFG	QR																													
UniRef90_Q5HQT1		NGT	VKWFNA	EKGFG	ER																													
UniRef90_K0AYT3	MT	GT	VKWFNA	DKGYGF	TT																													
UniRef90_L1K0W9	MS	KIT	VKWFNV	KKGFG	TT																													
UniRef90_UPI0003A4665F		NGKV	VKWFNNA	KGYGF	VVAEGRD																													
UniRef90_B7G7Y1		KGV	VKWFDT	MKGF	GF																													
UniRef90_UPI000361E83A	RE	LGTV	VKWFNV	SKGFG	TR																													
UniRef90_U3H2A1	RQ	SGTV	VKWFNDE	KGFG	TPQE																													
UniRef90_S0KQY4		QGT	VKWFNND	KGFG	AV																													
UniRef90_K8WQI4		TGT	VKWFNS	AKGFG	C																													
UniRef90_UPI0002DDB8B5	RK	NGTV	VKWFNDE	KGFG	TT																													
UniRef90_S2Z811	MA	TGT	VKWFND	AKGFG	TT																													
UniRef90_UPI00037BBCB2	MA	LGTV	VKWFNP	EKGFG	TT																													
UniRef90_U2E985		VKGL	VKWFNN	QKGYGF	VREETDG																													
UniRef90_A6DFH3		TGT	VKWFAD	DKGFG	TT																													
UniRef90_UPI00035F3B52		QGT	VKWFSS	EKGFG	TT																													
UniRef90_D0SHX7		MNGT	VKWFNET	KGFG	QS																													
UniRef90_UPI00036484AF		QGT	VKWFNA	EKGFG	EV																													
UniRef90_UPI0001E2D91B		NGT	VKWFNA	GKGYGF	ER																													
UniRef90_E8LDK7	MT	GKV	VKWFNA	EKGFG	QR																													
UniRef90_Q75QN9	R	LKGT	VKWFNV	TGFG	SS																													
UniRef90_W4LKQ8	MA	VGKV	VKWFNDS	KGFG	EQQP																													
UniRef90_F4CTL3	MA	QGT	VKWFNG	EKGFG	EQQDG																													
UniRef90_R6UKT5		TGKV	VKWFNA	DKGYGF	TTDA																													
UniRef90_UPI000377671C	MA	TGKV	VKWFST	TGKYGF	SSDQ																													
UniRef90_I7HP28	V	KET	VKWFND	DKGYGF	SRD																													
UniRef90_P71478		NGT	VKWFNA	DKGYGF	TT																													
UniRef90_F1M549	K	VLT	VKWFV	RNGYGF	NRN																													
UniRef90_UPI000344B0A7	ME	AL	VKWFND	AKGFG	SRAD																													
UniRef90_X1N5R6	MS	EET	VKWFNDS	KGYGF	SRAD																													
UniRef90_UPI00046CFDFC	MA	QGT	VKWFNS	DKGYGF	TT																													
UniRef90_T1JBU2		MTG	VKWFND	AKGFG	TT																													
UniRef90_H3NSQ1	R	C	VGT	VKWFNNA	KGFG	TPDRT																												
UniRef90_U3NMJ7	M	VKGT	VKWFNA	TGKYGF	ST																													
UniRef90_UPI00037B96E6	MA	QGT	VKWFNG	DKGYGF	TT																													
UniRef90_D2HV53	P	QLL	HGA	V	C	KWFNV	R	V	GF	GF	TRTE																							
UniRef90_UPI00037A3592		TGT	VKWFNA	DKGFG	EQGQ																													
UniRef90_G6XIA5	QA	E	D	R	GT	VKWFNA	TGFG	TT	TT	DS	GG	P	D	V	F	V																		
UniRef90_C0ZIZ5		M	I	Q	G	K	V	W	F	S	K	E	K	G	Y	G	F	I	E	R	D	S	G	S	D	V	F	V						
UniRef90_D6Z1D7		MA	E	G	T	V	K	W	F	N	D	A	K	G	F	G	F	I	A	Q	A	P	E	S	G	S	K	D	V	F	V			
UniRef90_F9Y631		MA	N	G	T	V	K	W	F	N	A	T	K	G	F	G	F	I	T	R	A	A	P	E	S	G	S	K	D	V	F	V		
UniRef90_A4A3Y7			G	T	V	K	W	F	N	G	T	K	G	F	G	F	I	T	R	A	A	A	P	E	S	G	S	K	D	V	F	V		
UniRef90_UPI0003B39388	ME	K	L	T	G	T	V	K	W	F	D	S	K	G	Y	G	F	I	T	A	H	C	D	N	L	S	E	D	G	D	D	L	F	V
UniRef90_R7HDP0		MA	Q	G	T	V	K	W	F	N	P	D	K	G	Y	G	F	I	S	R	C	A	G	G	G	D	D	I	F	A	F	A		
UniRef90_E1QZK8		MA	Q	G	T	V	K	W	F	N	A	E	K	G	F	G	F	I	T	A	C	A	P	A	G	G	K	D	L	F	A	F	A	
UniRef90_D4F758		T	G	T	V	K	W	F	N	A	E	K	G	F	G	F	I	T	A	C	A	P	A	G	G	K	D	L	F	A	F	A		
UniRef90_D7N623		M	K	G	K	V	K	W	F	N	G	E	K	G	F	G	F	I	T	A	C	A	P	A	G	G	K	D	L	F	A	F	A	
UniRef90_H2FX80	MA	T	G	T	V	K	W	F	N	E	S	K	G	F	G	F	I	T	A	C	A	P	A	G	G	K	D	L	F	A	F	A		
UniRef90_E3LYE8		V	N	G	L	V	K	W	F	S	V	R	G	R	Y	G	F	I	A	R	A	S	D	E	K	E	D	F	F	V	F	V		
UniRef90_N2JU42		R	E	T	G	T	V	K	W	F	N	D	E	K	G	F	G	F	I	T	A	C	A	P	A	G	G	K	D	L	F	A	F	V
UniRef90_Q8GV23	L	R	Q	G	T	V	K	W	F	N	A	T	K	G	F	G	F	I	T	A	C	A	P	A	G	G	K	D	L	F	A	F	V	
UniRef90_P0A353		T	G	V	V	K	W	F	N	A	E	K	G	Y	G	F	I	T	A	C	A	P	A	G	G	K	D	L	F	A	F	V		
UniRef90_A4SCX3	Q	V	E	G	T	V	K	W	F	N	E	E	K	G	Y	G	F	I	T	A	C	A	P	A	G	G	K	D	L	F	A	F	V	
UniRef90_A1B876	D	I	T	MA	N	G	T	V	K	W	F	N	A	T	K	G	F	G	F	I	T	A	C	A	P	A	N	G	K	D	V	F	V	
UniRef90_D6CJS7		K	G	K	V	K	W	F	N	N	K	G	Y	G	F	G	F	I	T	A	C	A	P	A	N	G	K	D	V	F	V	V	V	
UniRef90_UPI000237B3B4		T	G	R	V	K	W	F	N	D	A	E	K	G	F	G	F	I	T	A	C	A	P	A	N	G	K	D	V	F	V	V	V	
UniRef90_K9ZZW6	MA	V	G	K	V	K	W	F	N	A	E	K	G	F	G	F	I	T	A	C	A	P	A	N	G	K	D	V	F	V	V	V		
UniRef90_E8NPX2	K	I	T	G	L	V	K	W	F	N	P	E	K	G	F	G	F	I	T	A	C	A	P	A	N	G	K	D	V	F	V	V	V	
UniRef90_D8GIU5		M	N	G	T	V	K	W	F	N	G	E	K	G	F	G	F	I	T	A	C	A	P	A	N	G	K	D	V	F	V	V	V	
UniRef90_E8W4I7		S	G	T	V	K	W	F	N	A	A	K	G	F	G	F	I	T	A	C	A	P	A	N	G	K	D	V	F	V	V	V	V	
UniRef90_D0D0M3	MA	T	G	T	V	K	W	F	N	T	T	K	G	F	G	F	I	T	A	C	A	P	A	N	G	K	D	V	F	V	V	V	V	
UniRef90_F7KHU6		NGT	VKWFNA	EKGFG	EQDG																													
UniRef90_UPI0003D2EFE6	L	V	MT	T	G	T	V	K	W	F	N	P	T	K	G	F	G	F	I	Q	N	D	A	S	E	D	V	F	V	V	V	V		
UniRef90_V5WIS8		QGT	VKWFNET	KGFG	IS																													
UniRef90_M4RD41	MA	Q	G	T	V	K	F	F	N	A	G	K	G	Y	G	F	I	T	A	C	A	P	A	N	G	K	D	V	F	V	V	V		
UniRef90_L5L7B3			D	T	K	E	D	V	F	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
UniRef90_S6BY25		M	Q	G	R	V	K	N	F	N	V	D	K	G	Y	G	F	I	E	A	D	G	Q	P	D	I	F	V	V	V	V	V	V	
UniRef90_M4XL65	MS	A	I	T	G	T	V	K	W	F	N	A	T	K	G	F	G	F	I	T	C	E	S	F	E	G	D	I	F	A	F	V	V	
UniRef90_K0G3I9		G	L	V	K	W	F	N	N	T	K	G	F	G	F	G	F	I	T	C	E	S	F	E	G	D	I	F	A	F	V	V	V	
UniRef90_A0L187	MA	E	G	R	V	K	W	F	N	D	S	K	G	F	G	F	I	T	E	R	E	G	G	S	D	V	F	V	V	V	V	V		
UniRef90_A5N624		T	G	T	V	K	W	F	N	S	E	K	G	F	G	F	I	T	E	V	P	G	E	N	D	V	F	V	V	V	V	V	V	
UniRef90_K0YEN2	MA	Q	G	V	V	K	W	F	N	P	E	K	G	Y	G	F	I	T	E	Y	K	P	D	G	G	A	E	D	V	F	V	V	V	
UniRef90_R5YFN3		M	K	G	F	V	K	W	F	N	N	E	K	G	F	G	F	I	T	E	Y	K	P	D	G	G	A	E	D	V	F	V	V	V
UniRef90_I3CKW0		T	G	T	V	K	W	F	N	E	S	K	G	F	G	F	I	T	E	Y	K	A	P	D	D	G	G	K	D	V	F	V	V	V
UniRef90_S0ESV0		G	K	V	K	W	F	N	N	A	K	G	Y	G	F	G	F	I	V	A	E	D	G	V	D	V	F	V	V	V	V	V	V	
UniRef90_Q5DFH5	R	V	K	G	V	V	K	W	F	N	V	K	A	G	Y	G	F	I	N	R	Q	D	T	S	T	D	I	F	V	V	V	V		
UniRef90_M7CPT2		G	K	V	K	W	F	N	N	A	K	G	Y	G	F	G	F	I	I	E	D	G	C	S	D	D	L	F	A	F	V	V	V	
UniRef90_R5MVM8		R	V	K	W	F	N	N	E	K	G	F	G	F	G	F	I	L	E	N	Q	G	K	E	D	L	F	V	V	V	V	V	V	
UniRef90_F7RLY9	MS	K	T	T	G	V	V	K	W	F	N	E	E	K	G	F	G	F	I	S	D	N	G	G	A	D	A	F	V	V	V	V	V	V
UniRef90_UPI0003F92511		M	A	T	G	L	V	K	W	F	N	A	T	K	G	F	G	F	I	Q	S	D	N	G	G	A	D	A	F	V	V	V	V	V
UniRef90_A8ZTD9		Q	G	T	V	K	F	F	S	A	G	K	G	Y	G	F	G	F	I	T	T	A	E	G	G	D	D	V	F	V	V	V	V	V
UniRef90_B4EV81	MA	D	G	L	V	K	W	F	N	E	K	G	F	G	F	G	F	I	E	V	D	E	S	N	D	V	F	V	V	V	V	V	V	V
UniRef90_UPI0003B7138C	M	R	L	K	G	K	V	K	W	F	D	S	K	K	G	Y	G	F	I	T	R	E	D	G	Q	G	D	V	F	V	V	V	V	V

UniRef90_Q1IZM8 A P A
UniRef90_UPI000381496B
UniRef90_UPI00040B40A8
UniRef90_H2G1R0
UniRef90_C3AIL2
UniRef90_W5YKK4
UniRef90_C5CHY2
UniRef90_U5L4B9
UniRef90_V6Q390
UniRef90_Q5HQT1
UniRef90_K0AYT3
UniRef90_L1K0W9 A Y Q G
UniRef90_UPI0003A4665F
UniRef90_B7G7Y1 E E Q G
UniRef90_UPI000361E83A
UniRef90_U3H2A1
UniRef90_S0KQY4
UniRef90_K8WQI4 E K
UniRef90_UPI0002DDB8B5
UniRef90_S2Z811
UniRef90_UPI00037BBCB2
UniRef90_U2E985
UniRef90_A6DFH3
UniRef90_UPI00035F3B52
UniRef90_D0SHX7
UniRef90_UPI00036484AF
UniRef90_UPI0001E2D91B
UniRef90_E8LDK7
UniRef90_Q75QN9
UniRef90_W4LQK8
UniRef90_F4CTL3
UniRef90_R6UKT5
UniRef90_UPI000377671C
UniRef90_I7HP28
UniRef90_P71478
UniRef90_F1M549 A P Q G R K
UniRef90_UPI000344B0A7 E P R S
UniRef90_X1N5R6
UniRef90_UPI00046CFDFC
UniRef90_T1JBU2
UniRef90_H3NSQ1
UniRef90_H3NMJ7
UniRef90_UPI00037B96E6
UniRef90_D2HV53 G F G S E
UniRef90_UPI00037A3592
UniRef90_G6XIA5
UniRef90_C0ZIZ5
UniRef90_D6Z1D7
UniRef90_F9Y631
UniRef90_A4A3Y7
UniRef90_UPI0003B39388
UniRef90_R7HDP0
UniRef90_E1QZK8
UniRef90_D4F758 E P
UniRef90_D7N623
UniRef90_H2FX80
UniRef90_E3LYE8 E N R G S
UniRef90_N2JU42
UniRef90_Q8GV23 A A P E G
UniRef90_P0A353
UniRef90_A4SCX3
UniRef90_A1B876
UniRef90_D6CJS7
UniRef90_UPI000237B3B4 P
UniRef90_K9ZZW6 A P
UniRef90_E8NPX2
UniRef90_D8GIU5
UniRef90_E8W4I7
UniRef90_D0D0M3
UniRef90_F7KHU6
UniRef90_UPI0003D2EFE6
UniRef90_V5WIS8
UniRef90_M4RD41
UniRef90_L5L7B3 P Q G S K
UniRef90_S6BY25
UniRef90_M4XL65
UniRef90_K0G3I9
UniRef90_A0LI87
UniRef90_A5N624
UniRef90_K0YEN2
UniRef90_R5YFN3
UniRef90_I3CKW0
UniRef90_S0ESV0
UniRef90_Q5DFH5 E P K S
UniRef90_M7CPT2 M P S R S A E
UniRef90_R5MVM8
UniRef90_F7RLY9
UniRef90_W6K553
UniRef90_UPI0003F92511
UniRef90_A8ZTD9
UniRef90_B4EV81
UniRef90_UPI0003B7138C

	1	10	20	30	40
UniRef90_A9IRJ6		T G L V	K W F N A D K G F G F I	M P E N G G K D L F A	
UniRef90_UPI00041BEB30	MA S	I T G T	V K W Y N Q E K G Y G F V	ND G G K D V F V	
UniRef90_A0A023D4F4			V K W F N S E K G Y G F V	L A D G S G D V F F	
UniRef90_A8UAT4		NG T V	V K W F S N E K G Y G F V		
UniRef90_Q9KXN2		T G K V	V K W F N S E K G Y G F V		
UniRef90_G8UT97		R E T G	H V K W F N E K K G Y G F V		
UniRef90_D3NX84	P E	I T K V	T A T V K W F N P T K G F G F V		
UniRef90_H8GN35		T G T V	V K W F N A E K G F G F I		
UniRef90_Q488P6		K G L V	V K W F N S D K G F G F I		
UniRef90_UPI00037135B7		S G K V	V K W F D S E K G F G F V		
UniRef90_K6X6Z4	K	V V G T	V K W F N E D K G F G F I		
UniRef90_K2MZ50	MA Q	T G T V	K F F N E T K G F G F I		
UniRef90_UPI0003B5A2CE		S G K V	V K W F D G E K G F G F L		
UniRef90_A3PLY2	MA K	G T V	V K W F N A T K G Y G F I		
UniRef90_R8WU93	K M N	G L V	V K W F N A D K G Y G F I		
UniRef90_M1E8F3		K G T V	V K W F N A E K G Y G F I		
UniRef90_UPI0003337B77	K	V L G T	V K W F N V R N G Y G F I		
UniRef90_Q1YI97		L S G H	I K W F D V S K G F G F I		
UniRef90_L7EQL7	M T	G T V	V K W F N G K G F G F I		
UniRef90_A9W6W4		V V	V K W F N R L R G F G F L		
UniRef90_M1YIF5		K G T V	V K W F N E S K G Y G F I		
UniRef90_Q65TK8		G V V	V K W F N N A K G F G F I		
UniRef90_UPI0004655E22	R T	G L V	V K W F S A E K G F G F I		
UniRef90_K8E3R2		NG T V	V K W F S T E K G Y G F I		
UniRef90_K0JU83	MA	V G T V	V K W F N S E K G Y G F I		
UniRef90_R6WDN0		NG T V	V K W F N A T K G F G F I		
UniRef90_UPI00047AC4C6		Q G T V	V R F F N A E K G Y G F I		
UniRef90_UPI00047E7F04	K	V L G T	V K W F S V R N G Y G F I		
UniRef90_UPI00047E7F04	MA S	G T V	V K W F N S T K G F G F I		
UniRef90_UPI00047E7F04		NG T V	V K W F N S E K G F G F I		
UniRef90_U2YR60	A E T	V R M S	G H V K W F D P A K G Y G F I		
UniRef90_UPI000255E3D8		G T V	V S W F D E D K G F G F I		
UniRef90_L2TTJ5	MA	Q G T V	V Q W F N G E K G F G F I		
UniRef90_L1Q6T3		Y T G T	I K W F N T E K G Y G F I		
UniRef90_F1M451	M K	V L G L	V T W F N V R N G Y V F I		
UniRef90_T1JBU1		T G K V	N W F N E S R G F G F I		
UniRef90_U7VDE9		K G T V	V K W F N E K G F G F V		
UniRef90_S3N7W3		T G T V	V K W F N E T K G F G F I		
UniRef90_A9D9Z3		L V	V K W F N R T K G F G F L		
UniRef90_Q4JMV8	MA	Q G T V	V K W F N T Q K G Y G F I		
UniRef90_A0A010ZS94		T G V V	V K W F N N E K G F G F I		
UniRef90_H9BWZ8		Q G T V	I K W F N S S K G Y G F I		
UniRef90_Q0BPU3		G T V	V K W F N P T K G Y G F I		
UniRef90_I1B316	MA	T G T V	V K W F N T T K G Y G F I		
UniRef90_UPI000360F379	MR Q	N G T M	K F F N T T R G F G F I		
UniRef90_UPI000382C80C		MA T G	T V K W F N A T K G F G F I		
UniRef90_UPI0003498C77	V	E M T G	T V K W Y D P A K G F G F V		
UniRef90_R7JJ68		MT G Q	V K W F D S K K G Y G F I		
UniRef90_Q1LFQ8		T G T V	V K W F N D A K G F G F I		
UniRef90_X8J016	M S S	I S G S	V K W F N G S K G Y G Y I		
UniRef90_S5XW14		MA T	G T V K W F N A T K G F G F I		
UniRef90_UPI000478A90A		G T V	V K W F N D E K G F G F I		
UniRef90_R5Q0W0		G T V	V K W F N N T K G Y G F I		
UniRef90_F0LAE2		T G T V	V K W F N A T K G F G F I		
UniRef90_I3DJ03		K G T V	V K W F N N E K G F G F I		
UniRef90_UPI000393ED2B		G T V	V K W F N E T K G F G F I		
UniRef90_D1C6U7		T G T V	V K W Y D P E K G Y G F I		
UniRef90_Q1QIR3	M S M	T G T V	K F F N T K E R G Y G F I		
UniRef90_R7G2A4		M Q G K	V K M F N Q E K G Y G F I		
UniRef90_UPI000367797D	MA K	H Q G T	V K W F N E S K G F G F I		
UniRef90_E8X765		MY K	G T V K W F N A K G Y G F L		
UniRef90_UPI0004784F51		G T V	V K W F N R L R G F G F L		
UniRef90_UPI000362717C		NG T V	V K W F N P E K G Y G F I		
UniRef90_B1C711		GE V	V K W F N P N K G F G F I		
UniRef90_B4X5M3		R V D G	T V K F F N G T K G F G F I		
UniRef90_UPI0002F68E13	MA	D S G M	I K W F S N A K G F G F I		
UniRef90_UPI00037A2C39	M S S	I K G K	V K W F N G S K G Y G F I		
UniRef90_UPI000109107A		T G K V	V K W F D T E K G F G F I		
UniRef90_D5UJD4		R K T G	V K W F N V L K G F G F I		
UniRef90_W6NP69		G K V	V K W Y D A E K G F G F L		
UniRef90_UPI000368C89B			F N T V K G Y G F I		
UniRef90_F0Y901	M R R	E G K V	T W F N D K G F G F I		
UniRef90_E6VTS9		MA T	G T V K W F N T T K G Y G F I		
UniRef90_G2KQ78		NG R V	R W Y D S K K G Y G F I		
UniRef90_E3D9J9		MA Q	T G Q V K F F N S E K G F G F I		
UniRef90_M3I282		T G K V	V K W F N A E K G Y G F I		
UniRef90_B9Y3I9		NG K V	K F F D A E K G F G F L		
UniRef90_S3YJ09		M S R	K S K V K W F D G K K G Y G F I		
UniRef90_B3EP04		M G T	G T V K W F N S G K G Y G F I		
UniRef90_D4KG33		MA T	G T V K W F N A T K G Y G F I		
UniRef90_UPI00036F967A		S G K I	R W F N D A K K G Y G F I		
UniRef90_W5IHH2		T G L V	V K W F N R T K G Y G F I		
UniRef90_K2JHZ2		T G K V	V K W Y D P E R G Y G F V		
UniRef90_W5WPD2		K G K V	V K W F N G T K G Y G F I		
UniRef90_UPI00002556D5		R R V	G R C K M Y N C D K G V G F L		
UniRef90_F4RZ11	M S M	S G T V	K F F N A D K G Y G F I		
UniRef90_F3X0Q3		R T G	T V R W F N A E Q G F G F L		
UniRef90_I0WNJ9		MA I	G L V K N F N K D K G F G F I		
UniRef90_R5Q7F2		MA N	G T V K W F N S T K G F G F I		
UniRef90_A3K7V9		T G T V	V K W F N A E K G F G F I		
UniRef90_UPI00035C33E9		NG T V	V K W F N Q T K G F G F I		
UniRef90_A3JQA9					

UniRef90_A9IRJ6
UniRef90_UPI00041BEB30
UniRef90_A0A023D4F4
UniRef90_A8UAT4
UniRef90_Q9KXN2 A P
UniRef90_G8UT97
UniRef90_D3NX84 S T A Q R S
UniRef90_H8GN35
UniRef90_Q488P6
UniRef90_UPI00037135B7 P P
UniRef90_K6X6Z4
UniRef90_K2MZ50
UniRef90_UPI0003B5A2CE V P
UniRef90_A3PLY2
UniRef90_R8WU93
UniRef90_M1E8F3
UniRef90_UPI0003337B77 V P V E G S
UniRef90_Q1YI97
UniRef90_L7EQL7
UniRef90_A9W6W4 A
UniRef90_M1YIF5
UniRef90_Q65TK8
UniRef90_UPI0004655E22
UniRef90_K8E3R2
UniRef90_K0JU83
UniRef90_R6WDN0
UniRef90_UPI00047AC4C6 G
UniRef90_F1PZ69 V P V Q G S
UniRef90_UPI00047E7F04
UniRef90_J1H714
UniRef90_U2YR60
UniRef90_UPI000255E3D8 S A P R G
UniRef90_L2TTJ5
UniRef90_L1Q6T3
UniRef90_F1M451 V I V Q G S K
UniRef90_T1JBU1
UniRef90_U7VDE9
UniRef90_S3N7W3
UniRef90_A9D9Z3 A P L P K S H
UniRef90_Q4JMV8
UniRef90_A0A010ZS94
UniRef90_H9BWZ8
UniRef90_Q0BPU3
UniRef90_I1B316
UniRef90_UPI000360F379
UniRef90_UPI000382C80C
UniRef90_UPI0003498C77
UniRef90_R7JJ68
UniRef90_Q1LFQ8
UniRef90_X8J016
UniRef90_S5XW14
UniRef90_UPI000478A90A
UniRef90_R5Q0W0
UniRef90_F0LAE2
UniRef90_I3DJ03
UniRef90_UPI000393ED2B
UniRef90_D1C6U7 N P P R
UniRef90_Q1QIR3
UniRef90_R7G2A4
UniRef90_UPI000367797D
UniRef90_E8X765
UniRef90_UPI0004784F51 A P
UniRef90_UPI000362717C
UniRef90_B1C711
UniRef90_B4X5M3
UniRef90_UPI0002F68E13
UniRef90_UPI00037A2C39
UniRef90_UPI000109107A
UniRef90_D5UJD4 V P
UniRef90_W6NPP69
UniRef90_UPI000368C89B P P
UniRef90_F0Y901 D Y V Q G
UniRef90_E6VTS9
UniRef90_G2KQ78
UniRef90_E3D9J9 A P
UniRef90_M3I282
UniRef90_B9Y3I9
UniRef90_S3YJ09 A P
UniRef90_B3EP04 V P A Q P S D
UniRef90_D4KG33
UniRef90_UPI00036F967A
UniRef90_W5IHH2 A P
UniRef90_K2JH22
UniRef90_W5WPD2 G P R R A K H
UniRef90_UPI0002556D5
UniRef90_F4RZ11 R P V M G A E
UniRef90_F3X0Q3
UniRef90_I0WVJ9
UniRef90_R5Q7F2
UniRef90_A3K7V9
UniRef90_UPI00035C33E9
UniRef90_A3JQA9

UniRef90_J9E1J8
UniRef90_UPI00036A7209
UniRef90_Q742M5
UniRef90_K8WEU6
UniRef90_BOU8Z6
UniRef90_UPI0003FF1B0F
UniRef90_G2I380
UniRef90_UPI0002FB82F4
UniRef90_X1KXK3
UniRef90_A0A059DZ34
UniRef90_U5S8P3
UniRef90_A5G2F0
UniRef90_UPI0004674F3C
UniRef90_G4RGU3
UniRef90_A0A021VTF2
UniRef90_G5HQH5
UniRef90_R5VX22
UniRef90_UPI0002483D63
UniRef90_HOQY04
UniRef90_M5ADW4
UniRef90_Q07IJ5
UniRef90_UPI000255D562
UniRef90_A0A059FD24
UniRef90_R5VMH4
UniRef90_UPI0003B68772
UniRef90_G2RP28
UniRef90_A0A021XD17
UniRef90_E0TBE3
UniRef90_UPI000237A30B
UniRef90_F7ZAI3
UniRef90_V5BUZ1
UniRef90_UPI00036B12EA
UniRef90_U2Z226
UniRef90_B9T6B7
UniRef90_L8M1Y7
UniRef90_F0J0G6
UniRef90_E2CF97
UniRef90_E6YPW1
UniRef90_D7AV29
UniRef90_UPI00037AF928
UniRef90_H1S582
UniRef90_UPI0003189649
UniRef90_E8RU06
UniRef90_F6THZ4
UniRef90_Q5YRW9
UniRef90_UPI0002E62F3E
UniRef90_A5EIW0
UniRef90_I0RS26
UniRef90_I2Q8S5
UniRef90_UPI0003796BD4
UniRef90_D1BKC9
UniRef90_A5V9E9
UniRef90_A4U251
UniRef90_A0A024KC49
UniRef90_G0HD11
UniRef90_K2M479
UniRef90_UPI00040D54D1
UniRef90_X5MPF9
UniRef90_T4VEJ7
UniRef90_Q1GHI4
UniRef90_A0A024K882
UniRef90_W0JXN1
UniRef90_UPI000410B395
UniRef90_U3A2U9
UniRef90_A3VKA9
UniRef90_F8JDR3
UniRef90_L8DH25
UniRef90_UPI0003B3CE63
UniRef90_UPI000299FF84
UniRef90_B7RPT8
UniRef90_E0S477
UniRef90_UPI00036CF539
UniRef90_C2G129
UniRef90_D8JV49
UniRef90_A0A021XF29
UniRef90_UPI0003638CC8
UniRef90_UPI000477B5E5
UniRef90_W1TPN4
UniRef90_UPI00046A7EB1
UniRef90_F8ESM8
UniRef90_G0L572
UniRef90_UPI00046A4B23
UniRef90_B2S9R3
UniRef90_G2HXZ7
UniRef90_UPI00037A643F
UniRef90_G0IXQ0
UniRef90_D8I7N8
UniRef90_UPI0003639521
UniRef90_L7LAQ3
UniRef90_Q163Z2
UniRef90_UPI0003A469BB
UniRef90_UPI0004756CB3

UniRef90_J9E1J8 H M E T L R D A S G V I F E I L Q P G D R V L V A Y G Q G P K G L M V T R V I T
UniRef90_UPI00036A7209 H I S S A L P A S G V I N E G S L A K A G G Q R V E F G V I A S R D G R S P Q A L S L K L I E P
UniRef90_Q742M5 T R K S I A N A K K I K S L S E G G Q N V E F S V I T R N S D G I T A A D V I A
UniRef90_K8WEU6 H I S A V E R R A G L R S L A S E G G Q K V S Y E L Q T D K R R G K V A A
UniRef90_B0U8Z6 H I E V L R R R A G L L Q N E G G E A I G I R T I E G R K R M T A E V C A
UniRef90_UPI0003FF1B0F H I S A V E R R Q A G G Q A D L P N E G G O A V I T Y D L E R G R N G K S S A
UniRef90_G2I380 H M E T L R R R F G G T T D V L K P G G Q Q V L V R F G N G P K G L M A A E V R P A D G
UniRef90_UPI0002FB82F4 G Y S S I R Q A D Y G F F K T L K R D E G G A R I V C D A V K G E R G W Q T A N I V V
UniRef90_X1KXK3 H I S A V E R A G G L T G R I D E A G Q R L E F E V R K G R E N G K M S A E
UniRef90_UPI0004674F3C H I S A V E R A G Y T G L A E E G A K I S Y E L V T T R N R G K T A A E
UniRef90_G4RGU3 H I S A V A Q N S G M T G L A E E G Q K I S Y E L V K D K R R G K S A A
UniRef90_UPI00021VTF2 H A K A L A G M G F L T E L A S E G D R I T F E V A A S D R D P Q A T N V R L V G G
UniRef90_G5HQH5 H Y S G I V G M R F T L L A S E A E P V E Y D I V E C D K G V Q A T N V R L K G
UniRef90_R5VX22 H F S A I Q T E G F K T L K D G G Q T V E F D V V T D P E K L R A A N V V
UniRef90_UPI0002483D63 H S S A L P D G V E G L K P G Q R V E F E V G E G R K G P C A V N V
UniRef90_HOQY04 R S S A L P D G V E G L K P G Q R V E F E V G E G R K G P C A V N V
UniRef90_M5ADW4 Y T G I G E G F R K L E A G G Q T V E F V I V Q G M R G P Q A A K V T P
UniRef90_Q07IJ5 H I S A V S R A G L S T L N E T G Q S L E F E E V A A N R G R T S A E N
UniRef90_UPI000255D562 H S S A L P A G V L S V K L A E T G T R M E Y G V A D G R R G K Q A L S V R L L D D
UniRef90_UPI000368772 H I S A V E R S G L R T L A E D Q A V S Y E L Y K D E R P R A V N I
UniRef90_G2RP28 H I S N A I D H E E Y K N L S E G G Q K V E F E I Q E G A K G P S A A E K V H P V D
UniRef90_UPI000237A30B H M V T C L R R A A G G Y Q T V L E G T R V V A L I Q R D R T K G L L A A A I E P P
UniRef90_F7ZAI3 H I S A V E R S G L T G L A D D G Q K V D F E L T E R S D G R Q M A
UniRef90_V5BUZ1 S R R A I A N T N K K S L L N E G Q N V E F S L Y R S H G L T A A D V I A
UniRef90_UPI00036B12EA H I S A V E R S G F Q A S L D S G Q R V S F E T E P D R K G P K A V N L Q A L E G
UniRef90_U2Z226 H A N V S L R N Y G Q N S V A D G A M I R I Q A Q R T E R Q T A V E I L S L D P
UniRef90_B9T6B7 H S S S L K N S N G H L V G A G A M P L E Y E T I I S N A G L Q A I N V T A P K G
UniRef90_L8M1Y7 H H S E I Q G Q T L N D G D K V E F G V G E G R K G P C A I E V
UniRef90_F0J0G6 H I T A V E R Q A A G M R T L N E G Q K I S Y E V V Q D R R G K A A A T N
UniRef90_E2CF97 H I S A V E R A G M T L S E G G Q K V S F E V V Q D R R G K S A A D
UniRef90_E6YPW1 H I S S A L P P G T T S L R P G Q K V D F G V A E G R K G A Q A L S Q V R
UniRef90_D7AV29 H S S S L P E G T T S L R K K G V R E F G I V E G R K G A Q A L S V K V L D
UniRef90_UPI00037AF928 H A N A L Q V R G G A P L Q D N Q R V Q Y Q S Q Q G K K G P E A A N V S P
UniRef90_H1S582 H I S A I E R A N G M S T L N Q G D R L E F D L E V D R G K H A V N L V P
UniRef90_UPI0003189649 H I S A I E R A N G W R M L V E G Q K I A Y E V Q S D R G K A A A V N L Q A
UniRef90_UPI0002E62F3E H Q V S L L P P P Y S H H P Q G E
UniRef90_Q5YRW9 D Y L E L V I G A G F R S G L H E G Q R I V R F D L R Q S K S G P E A V G V H V I G
UniRef90_UPI0002E62F3E S M R S L E A A G F N S G A E P G A R I V V R L R E G P K G N Q V A E V L E I E D
UniRef90_A5EIW0 H M E T L R R R F G M T E L E P G Q R V L V R Y G P G S K G M M A A E I H P E T G
UniRef90_I0RS26 D Y R C I D M P G F K T L A S G Q R V A Y R Y R R T R S G P E A I Y V R P T G
UniRef90_I2Q8S5 H I S A V E R A G L S D L R A S G Q T V S Y E V K V D P K
UniRef90_UPI0003796BD4 N K S V L P D G G V E E L E Q G Q R I E F D F A A G R R G P Q A L R V K V L D
UniRef90_D1BKC9 H S S A I V G G G V I A E G Q R V A F L V V E G E K G P Q A
UniRef90_A5V9E9 H F S V L R D H G R R T L P E G A R I A C E V V A R D R G L Q A R R I L A I D
UniRef90_A4U251 H I K A L E R S G G K A L E T G Q R V R C T T T Q G Q K G P Q A D T V
UniRef90_UPI00040D54D1 H I S A V E R S G M T L N E G Q K V S Y E L Q A G R D G K M S A
UniRef90_X5MPF9 G R S A L P E G V T E L V P G Q R V E Y D V A T G L R G P E A L R V T V L D H
UniRef90_K2M479 H V T C L R K D G F Q T A L E G A R V E C L V R Q G E K G F Q A F K V
UniRef90_UPI00040D54D1 H I T A V Q A A G L R S L V E D Q K L S F D L V T E R G K V A A
UniRef90_UPI00036CF539 H I L T A V Q A A G L R S L D E G Q V V E F E L Q E G R N G K M S A E
UniRef90_T4VEJ7 H F S N V K E N G C K D L H E G E V G F D V I D A P K G L S A I N V V S I
UniRef90_Q1GHI4 H I N V L R N F G Q S S V A D G A G I E V V T H R T D R G V Q A V E I V S I
UniRef90_UPI00042K882 H I S A V E R A G G L T L E E G Q E V E F D M E D A E K G P R A T N V T
UniRef90_W0JXN1 H I T A V E R A G M H T L K Q A D Q R V S Y E L E Q D R R G K M S A
UniRef90_UPI000410B395 H I S A V E R A G L E G L A E G Q T L E F N L V D R G G K I S A A D L Q V V G
UniRef90_U3A2U9 H I V E V L R R S G L A D L Q P G E A I G M R A A M G E R G R M A L L V T
UniRef90_A3VKA9 H I S A V E R A G L D T L R E G Q K V S F D I V D G R T G K S A E
UniRef90_F8JDR3 H I V N D L D F D K R L L A P G V R V E Y V A V E G D R G L K A T E Q Q L I D G
UniRef90_L8DH25 H I S A V E R S G M S G L A Q G D R V E F D I E V D R R G Y S A V N L H A I D
UniRef90_UPI0003B3CE63 H F S A I Q T T G F K T L P A D G A R I E L T A H E T Q R G Q A T V H A I
UniRef90_UPI000299FF84 H V N V L R N T T G Q S S V A D G A R I E L T A H E T Q R G Q A T V H A I
UniRef90_B7RPT8 H Y S A I S S D G Y R K L T Q D E K V E F D V R I D D K G R T A V N V R
UniRef90_E0S477 H I S A L E E A G I D T V R A E G D A V S F E I A E N R G K E N A I N I
UniRef90_UPI00036CF539 H T T G L K N Q V R A E G D A V S F E I A E N R G K E N A I N I
UniRef90_C2G129 H M E T L R R F G F T E L R P G Q I V Q V R W G Y G S K G C M A A E L R P D G
UniRef90_D8JV49 H I S A V E R S G L R S L A E G Q K I S Y E I V R D R K G K N S A D
UniRef90_UPI0003638CC8 H I S A V E R A G M R L V E G Q K I G Y E V E R D N R
UniRef90_UPI000477B5E5 H I E T L R R C G L D D L V P G D A V R V R F A N G P K G L V V A D I R
UniRef90_W1TPN4 L H A S V L P V I G A K S P S A G T R V E F S V A D S R R G P Q A L S I Q I L Q R
UniRef90_UPI00046A7EB1 H V N V L R N F G Q S S V A D G S K V K L V A Q K T E R G V Q A S E I S P P E G
UniRef90_F8ESM8 H I S A V E Q A G L T G L A E G Q P L S F T L V D R G G R V S A T N L G I E G
UniRef90_G0L572 H A T A L N G T S L N E G D K V E Y E E E E G R K G I V A A Q V Q V V G
UniRef90_UPI00046A4B23 H V N V L R N F G Q S S V A D G A G I C L L V Q E T D R G G Q A V E T A I G G
UniRef90_B2S9R3 H I S A V E R A G L H S L V E G Q K V G Y E V V A D R R G K S A A
UniRef90_G2HXZ7 H S E V K K F G R V S L E D G Q K V T F S I G T G V K G E Q A K S V
UniRef90_UPI00037A643F H M E T L R R H G L A E L R P G Q I V L V R F G P G P K G L M A A E V R P D G
UniRef90_G0IXQ0 H N S G L I D E I R E N D K V S Y E E E Q G R K G L N A V N V E V I G
UniRef90_D8I7N8 H A R A L A E G L T W L A E G D R V A Y E V A S G D K G P Q A R D V H L V R G
UniRef90_UPI0003639521 H A S G L T E I S E G D R V S Y D L E E S P K G L N A V N V
UniRef90_L7LAQ3 H I N D L Q G I D E G Q L R P G A K V E F D V E D T D R G A K A T N L K V T E E
UniRef90_Q163Z2 H M E V L R R S G L S D L A P G E A L A L R V I E G R G H M A S E V
UniRef90_UPI0003A469BB H I S A V E Q A G L T G L A E G Q T L A F T L V D R G G R V S A S D L K I E G E
UniRef90_UPI0004756CB3 H A S E V L I G D G T V L R E G Q A V E F E L G E N D R G P Q A L R V R

UniRef90_J9E1J8
 UniRef90_UPI00036A7209
 UniRef90_Q742M5 P P
 UniRef90_K8WEU6
 UniRef90_B0U8Z6
 UniRef90_UPI0003FF1B0F
 UniRef90_G2I380
 UniRef90_UPI0002FB82F4 G H A P A T H
 UniRef90_X1KXK3
 UniRef90_A0A059DZ34
 UniRef90_U5S8P3
 UniRef90_A5G2F0
 UniRef90_UPI0004674F3C
 UniRef90_G4RGU3
 UniRef90_A0A021VTF2 A A R R G
 UniRef90_G5HQB5
 UniRef90_R5VX22
 UniRef90_UPI0002483D63
 UniRef90_H0QY04 A P V K N S
 UniRef90_M5ADW4
 UniRef90_Q07IJ5
 UniRef90_UPI000255D562 G P
 UniRef90_A0A059FD24
 UniRef90_R5VMH4
 UniRef90_UPI0003B68772
 UniRef90_G2RP28
 UniRef90_A0A021XD17
 UniRef90_E0TBE3
 UniRef90_UPI000237A30B P V R
 UniRef90_F7ZA13
 UniRef90_V5BUZ1
 UniRef90_UPI00036B12EA E
 UniRef90_U2Z226 P P
 UniRef90_B9T6B7 K L L Q D S
 UniRef90_L8M1Y7
 UniRef90_F0J0G6
 UniRef90_E2CF97
 UniRef90_E6YPW1
 UniRef90_D7AV29
 UniRef90_UPI00037AF928 P V Q S
 UniRef90_H1S582
 UniRef90_UPI0003189649
 UniRef90_E8RU06
 UniRef90_F6THZ4
 UniRef90_Q5YRW9
 UniRef90_UPI0002E62F3E L P P Q
 UniRef90_A5EIW0 S P A L S S H
 UniRef90_I0RS26 A V Q G
 UniRef90_I2Q8S5
 UniRef90_UPI0003796BD4
 UniRef90_D1BKC9
 UniRef90_A5V9E9
 UniRef90_A4U251
 UniRef90_A0A024KC49
 UniRef90_G0HD11 G P R R A A H
 UniRef90_K2M479
 UniRef90_UPI00040D54D1
 UniRef90_X5MPF9
 UniRef90_T4VEJ7
 UniRef90_Q1GHI4
 UniRef90_A0A024K882
 UniRef90_W0JXN1
 UniRef90_UPI000410B395
 UniRef90_U3A2U9
 UniRef90_A3VKA9
 UniRef90_F8JDR3
 UniRef90_L8DH25
 UniRef90_UPI0003B3CE63
 UniRef90_UPI000299FF84
 UniRef90_B7RPT8
 UniRef90_E0S477
 UniRef90_UPI00036CF539
 UniRef90_C2G129
 UniRef90_D8JV49 V
 UniRef90_A0A021XF29
 UniRef90_UPI0003638CC8
 UniRef90_UPI000477B5E5
 UniRef90_W1TPN4 T P
 UniRef90_UPI00046A7EB1 V
 UniRef90_F8ESM8 E P
 UniRef90_G0L572
 UniRef90_UPI00046A4B23 S P A R
 UniRef90_B2S9R3
 UniRef90_G2HXZ7
 UniRef90_UPI00037A643F A A T P S S H
 UniRef90_G0IXQ0
 UniRef90_D8I7N8 A E P Q
 UniRef90_UPI0003639521
 UniRef90_L7LAQ3 A P
 UniRef90_Q163Z2
 UniRef90_UPI0003A469BB A
 UniRef90_UPI0004756CB3

1 10 20 30 40

UniRef90_A0A011A3G3 T G K V E W F D Q K K G Y G F I A G S D G K N A F V V

UniRef90_UPI0002490D25 T G R V K N F D E H K G F G F I E V L N E P D V F V V

UniRef90_G2RYQ9 T G I V K W F S K E I K G F G F I I S D S D K S N A P D A G G D D L F V F

UniRef90_F8A6H6 L A M A Q G T V D F F N D T G G Y G F I S T E D A D A P D A G G D D L F V F

UniRef90_U1MLN0 T G T V K F F N E S K G F G F V K P D D G G S E D V F V

UniRef90_UPI000376C9F8 T G T R V K W F D K G K G F G F A N A Y G S K P D D G G S S E D I F L

UniRef90_S9QGK1 D V V E I A G T I K W F D A G K G Y G F I T V P D S G L P D V L L

UniRef90_V4RD63 T G T V K F F N G K G F G F I Q P E D G G S R D V F V

UniRef90_F2IVC1 Q V K A V V K W F N A T K G F G F V P M D G S P D A F L

UniRef90_UPI0003B31EFA M A Q G I V K W F N G E K G F G F I A P D D G T P D V F V

UniRef90_J2J1W7 I V K W F N R T K G F G F L S R G P D D G G E D L F V

UniRef90_UPI00039A3714 G T V T W Y D P D K G F G F V P D D G G E D L F V

UniRef90_F4H7M1 T G K V K W Y D V D K G F G F L S R D D G G G D V F V

UniRef90_E3J3I3 T G K V K F F D A D K G F G F A T D D P S E G G D V F V

UniRef90_NODYF1 G T V K F F N P D K G F G F I Q L E A P S D G S P D V F L

UniRef90_F6IED9 I T G T V K W F N A E K G Y G F V A P S D G S P D V F L

UniRef90_K2KCW6 N G T V K W F N A T K G Y G F I Q P E D G S A D I F V

UniRef90_Q2W6X8 V R L A G V V K W F D V T R G F G F A V A D D L T Y G D V L L

UniRef90_F3WYI6 V K G H V K W F D P A K G F G F V V A D S G G P D L L L

UniRef90_S9QSF4 M K G T V K W Y N A R K G Y G F L E G E D G K D T F V

UniRef90_X1MRJ8 R V K W F D K G K G F G F A N V F G D D A D V F V

UniRef90_M9R7V5 M I K W F N R A K G Y G F V N R P D A S D V D I F V

UniRef90_UPI0003B3EE28 T G I V K W F N S Q K G Y G F I S Q P D G G G N D V F V

UniRef90_A3WV12 K W F D A D K G F G F L S Q D S G P D V V Y L

UniRef90_R7Y0R2 Q L L H G A G I C K W F N V R M G F G F L S M T A R A G V A L D P P V D V F V

UniRef90_H0W1B1 T G T V K F F N V N K G Y G F I Q P D S G S A D V F V

UniRef90_E3I0G9 S G K V K W Y D A E K G F G F L T R D D G G E D V F V

UniRef90_D6Y922 K V K W F D G K K G Y G F I V N P E G G E D I F V

UniRef90_A1BHA2 I R K E G K V K F F N T K K G F G F I A L D N S D E E V F V

UniRef90_A2TNS0 Q G T V K W F N S E K G F G F I S S A P A D G T P D A F L

UniRef90_Q3D4R8 T V K W F N G V K G F G F V S D E G G A D I L L

UniRef90_B6IXJ6 L Q Q I Q G V K W F D P A K G Y G F V S D D G G P D I L L

UniRef90_V9VS04 V K G R V K W F D A K G F G F L S D P D E G G D D S F V

UniRef90_W8RUS4 G T V K F F N T E K G Y G F I S E Q D P D N G G K D V F V

UniRef90_G2IM10 K M T G L V K W F N A D K G F G F I S P V D G S K D V F V

UniRef90_Q68W69 G K V K W Y N S T K N F G F I S A P D N G E K D V F V

UniRef90_U0CMJ0 K M T G L V K W F N A D K G F G F I S P D A G G E D V F V

UniRef90_G6YJ33 V Q G R V K W F D P V K G F G F V V A N D G G P D I L L

UniRef90_A0A059ITP0 T G I V K I W Q K E R G Y G Y I T P D A G G E D V F V

UniRef90_B1MZK9 M A K G T V A R L I S D R G Y G F I T T E E G K D V F F

UniRef90_X1SXX8 M A S G R V R F D G A R G Y G F I A P D H G G E D V F L

UniRef90_E2D2H8 M V T G K V L R F D E F K G Y G F V S P S T G G E D V F I

UniRef90_UPI000462F6E3 R V K W F D K A K G F G F A N V F G R A P D D G G N D A F V

UniRef90_V7ELN0 M A T G T V K W F N A Q K G F G F I A G D D G H E Y F I

UniRef90_V6F4K6 M I K G K V I W F N D Q K G Y G F I V S D E G G P D I L L

UniRef90_R2S202 V S G H V K W F D P T R G F G F V S D P D T G G S D V F V

UniRef90_K2JUD3 M A T G T V K W F N P T K G F G F I Q V P D H G G E D V F V

UniRef90_L1QRY4 M V S G K V I R F D V R K G Y G F V P D G G D K D V F V

UniRef90_L8F0N2 M A N G T V K W F N S Q K G F G F I Q E R E G G D D V F V

UniRef90_A7HX4 K G N V K W F N G E K G F G F I E R P E N G G A D V F V

UniRef90_C3HAV6 M A T G T V K F F N Q D K G F G F I T P E N G G A D V F V

UniRef90_W6W5R5 K K Q G I V K W F Q K E K G F G F I Q C E G Q D Y F V

UniRef90_G9EP18 G T V K F Y N S E R G F G F I Q A P D D G G K D V F I

UniRef90_V5SBK7 M A V S G K V V H Y D P N R G F G F L A P E E G G A D V F L

UniRef90_M3URU7 M A T G K V K W F D A T K R F G F I T A P D D G G P D V F L

UniRef90_Q9KI38 A S G T V K W F N P T K G F G F I A R D E G E D V F V

UniRef90_M2U440 N G T V K F F N S T K G F G F I T Q D G G G A D V F V

UniRef90_A0A011UL76 M S K I K G N V K W F N E S K G F G F I T P E D G S K D V F V

UniRef90_I4ZM08 G I V K F F N E S K G F G F I T P N D G S S E V F V

UniRef90_U2HPC9 T G I V K W F N T V K G Y G F I T P D D G T P D A F V

UniRef90_U2XTV5 M S T Y T G V V K W F D N E R G Y G F I S G N E G M D A Y V

UniRef90_D9SKX8 G T V K F F N E D K G F G F I T P N D G G N E V F V

UniRef90_UPI00047B4724 K Q V G M V K W F N N K S G Y G F L T L M T P H E G F S N P D I F S

UniRef90_R4TQX3 P Q L L H R S L H L Y V F S V H M G F G S R S M T S P T G V V L N P P V D V F V

UniRef90_G1QAJ3 Q G T V K F F N E T K G F G F I T P S N G D A E I F V

UniRef90_UPI00029A9DE8 M V A I G K L V S F D S R G F G F I R P E D G G P D V F V

UniRef90_H6R6R6 G T V K W Y D A E R G F G F V S N P G G E D C F V

UniRef90_A4QCG1 T G T T K W F N A Q K G F G F V K L A D G S D A Y L

UniRef90_HOHXF4 T G T T K W F D A K K G F G F I T D Q D G I D Y Y V

UniRef90_U2DLW4 N G I V K F F N S Q K G F G F I S P T N G G N D V F V

UniRef90_Q0C3K7 T V K W F S R V R K G Y G F L E S P A V D D D V F V

UniRef90_UPI0003B46E9E T G T V K F F D E T K G F G F L K D N A T S K D Y F V

UniRef90_U5Q6A0 E L E L V A A R I K W F D K S K G F G F A N E F G S S D D I F V

UniRef90_A3JSE0 A Q V E R E Q G T V S K F S D I R G F G F I R G D H H E D I F V

UniRef90_UPI0002D278F4 T G T V K W F K P E Q G F G F V A D D G A K D V F V

UniRef90_G8AZS2 G T V K W Y D P Q K G F G F I Y G Y I N M N A P N K G E K D A F V

UniRef90_F7YAU1 M A N G T V K W F N G T K G F G F I A P T D G G S D V F V

UniRef90_G1LN73 V T G K V V R F D E F R G Y G F V A P D S G G E D V F I

UniRef90_UPI00047299DC T G T V K F F N T E K G F G F I T E D N G T E L F V

UniRef90_UPI00035CF240 T G T V K W F N T K G Y G F I Q P S D S G K D A F V

UniRef90_W6TYH2 T G K V K F F D A D R G F G F I E G D D G E S V F L

UniRef90_V4RIZ4 D V I E V S G A I K W F D V S K G Y G F L V P D L A N L G D I L L

UniRef90_S2WG87 V S G V I K W F D V T R G F G F A V A D D R A F G D V L L

UniRef90_J0QZT1 M E K I D G Y V K T W N A D K G F G F I E L K G E D D V F V

UniRef90_UPI00031HZD3 G T V K F F N V D K G Y G F L A P D G G A P D N F V

UniRef90_H1X6T4 V E G W I K W Y D P G K Y G F M V P K D G G S D V L L

UniRef90_Q2G551 R I T A T V K W F N A T K G F G F V R V N D G E P D A F L

UniRef90_UPI00036AD60F M V A G R V R F D G S R G Y G F I A P D Q G G E D V F L

UniRef90_H6SPV9 T L K W F N R T R G Y G F V L R D G Q E T D I F V

UniRef90_E4N0R6 M A K G R I K K L F S E K Q Y G F I Q P D Q G R E D V Y F

UniRef90_Q0C0S6

UniRef90_D5VRW4

UniRef90_A0A011A3G3 H Y S S I L V D G Y K T L E A G Q G V S Y D V E Q T G K G P K A L N I T V V D
UniRef90_UPI0002490D25 H F S G I E G T G R R Y F V P G Q E V S E L V V V Q G V R G G P Q A A H V T V V D
UniRef90_G2RYQ9 H Y K N I N I N D L N Y F D S G E K V T F V L A E N K K G F E A D N V S
UniRef90_F8A6H6 H V S V I R G G G E V L E E E G D R V R F K V R Q S A D K G P Q A D A V
UniRef90_U1MLN0 H M E D I G G G P D L E E E G Q D L E F F E I V Q A D K G P R A K N V
UniRef90_UPI000376C9F8 H H S A T S E E L E E E N D K V T Y N V E Q G K G L N A V N V
UniRef90_S9QK1 H I E V L R R C G A R V C G L L J A G E A R V C V R V V E G E R G G M A E V H A
UniRef90_V4RD63 H V T C L R R D G G Y Q T A Y E G A R I V C E A L L E R P R G L Q A F R I
UniRef90_F2IVC1 H I S V L R E T G R N D L D E E G A K V Q F E L E Q D R Q G R S S A
UniRef90_UPI0003B31EFA H I S V L Q S T I G R N D L P E G G A E L I C D I G P G R K G L Q V S A T S I E S
UniRef90_J2J1W7 H Y S E I S G S G F T S L D E N Q R L V E F E V G Q G
UniRef90_UPI00039A3714 H M E T L R R F G M M E L R P G Q V V L V R F G H G D K G L M A A E I H P D I G G
UniRef90_F4H7M1 H A R S L V G D L S E L L V E G D R V T Y D V A A G D R G G P Q A R D V R L A G G
UniRef90_E3J3I3 H K A A L P A G V L E K L R A G G D R V E F G V A A G R K G G D Q A L S V R R L A G E P
UniRef90_NODYF1 P A S A V P A D A G L L K E A G T K I E F S I V E G R R G G K Q A M A V L R V L A G E P
UniRef90_F6IED9 H I S A V P Q S A G L E T L A E G G Q Q I E F F L V E R N G K V S A S E L T R I V G E
UniRef90_K2KCW6 H I S A L K R A N L D D A P Q G G S T I V C Q V Q Q G Q K G R Q V S Q V S E L D
UniRef90_Q2W6X8 H I S A V E R A G L G N L L K E G G K L S F E T E R D P R
UniRef90_F3WYI6 H F T V L R S H G R R S L V A D G S G V E M I A V E R G R G Y Q A R E V V S I D
UniRef90_S9QSF4 H V N V L R S F G Q G T V A D G S G V E I E V A R T E R R G Y Q A V A V I P P A A
UniRef90_X1MRJ8 H R T S V P T G T F L N E S G E A K V E Y E C E D S D R G L K A L N I
UniRef90_M9R7V5 H N E V L R L A G L A D L F S G E A L A L R A M O S K R G L M A A E V
UniRef90_UPI0003B3EE28 H M V A V R K A G L D D L L D G G R Y E A I R E G P K G E H V E Q I K E I G
UniRef90_A3WV12 H I S A V Q R A G L N T L G E G Q R K V S F E A R T D E R G K V S A Q
UniRef90_R7Y0R2 H A D A L P E G M T T I L K N G T R K V E F G I A Q G R R G D Q A L Q V R V V D
UniRef90_H0W1B1 H Q V R L L V I G F R S H G G G E G V S F E I V R D A R R
UniRef90_E3I0G9 H I S A V E R A G M R T I V E G Q K L S F E I A E S R R G Q Q A L S V R I E P
UniRef90_D6Y922 H S S V L P K G V T A L K P G Q K L E F F E L E K T Q K G F Q A K N V R E
UniRef90_A1BHA2 H F S A I I C Q S F K V L N Q D A D V E F F E L E K T Q K G F Q A K N V R E
UniRef90_A2TNS0 H T T N V T G R L R E N D K V T F F E V E D G E K G P S A V N V
UniRef90_Q3D4R8 H S E I K V D G G F K T L R E E G Q K V T F D I Q D G Q
UniRef90_B6IXJ6 H A S V L S R V G L S D L A E G A E V M V V I G P G P K G P Q V V D V I G G G
UniRef90_V9VS04 H V N V L R N F G Q S S V A D G A R I E I V T H Q T G R G V Q A V E V V L A I E P
UniRef90_W8RUS4 H A N V L R N F G Q S S V A E G A I T V L A N E T P R G L Q A Y E V L A I E P
UniRef90_G2IM10 H I S A V E Q A G M A T L N K D Q R L S Y Q V Q K D Q R G R
UniRef90_Q68W69 H K S A I E A A G L H S L K E R Q E V I F D I E E K Q G K A Y A I N
UniRef90_U0CMJ0 H F S A I Q N D N Y R T L F E G Q K V T
UniRef90_G6YJ33 H A S T L T R S G L S V L V I E G Q K V F A K C G Q T Q R G A Q A V E V
UniRef90_A0A059ITP0 H A N V L R N F G Q S S V A D G A G I S I R I Q Q T Q R G A Q A V E V
UniRef90_B1MZX9 H N G I D M P G K A L K Q G K V S Y V L V Q G Y K A P Q A A Q V Q P I
UniRef90_X1SXX8 H R T S L Q G L E F D S L K D G Q A L E F F E I E E G S R G P R A V N V
UniRef90_E2D2H8 H V N E M L I P E S Y L V R S G T A V E F F E V E D G D R G L K A S S V R G P D G
UniRef90_UPI000462F6E3 H V N D L E F D K R L R P S G A F V E F F E V E D G D R G P K A S C V R L T S G
UniRef90_V7ELN0 H I E V L R I S G F A D L Q A G E A I C L R I V E G K R G R M A V Q V V
UniRef90_V6F4K6 H I S A V E R S G G L R E R E G Q K I G Y E L V A D R R
UniRef90_R2S202 H T G I I M P G G Y R D L E K A Q S V E F F E S E D T P Q G K K A F N L S P
UniRef90_K2JUD3 H A N V L R N F G Q S S V A D A A L I R L S V Q E T D R G V Q A I E V L G I E P
UniRef90_L1QRY4 H T T A V Q K A G L V G L D E N A K V E Y E L E T Q R G K T S A V D
UniRef90_L8F0N2 H V N D L E F D K G L M A P G V K V E F V V D E T G D R G P K A S N V R F L E G
UniRef90_A7HX4 H I S A V E R A G M S L L N E G Q K V I G Y D L E T D Q R
UniRef90_C3HAV6 H F S A I Q G E G Y K T L E E G Q A V T F D L E
UniRef90_W6W5R5 H V S A L Q G A G S L Q D Q D G Q K V S Y E L Q D R K K S K A E N V R A I
UniRef90_G9EP18 H F S G I T A E G Y K T L P D G A H V S F K T M D G K K G K Q A H E V
UniRef90_V5SBK7 H A T A L E R A G E T H L L S E G Q K V T F N I Q E E D R R
UniRef90_M3URU7 H I N D I N I D E D S L R P P G A K V S F D I E E T D R G S K A V N V E V T E E
UniRef90_Q9KI38 H L S S I T D P A C P T L H P G F R L H Y G V E Q R G G K V T A S D V R P
UniRef90_M2U440 H I S A V E R A G H T T L A E G Q A V R F N L M D R G G R L S A S D
UniRef90_A0A011UL76 H I S A V E R S G M Q G L V E G Q K L S F D I V K D N R G K S A A E
UniRef90_I4ZM08 H F S A I Q S N G F K T L A E G Q R V
UniRef90_U2HPC9 H V T G L T Q N V R E N D H V S F D I Q E G K K G P N A V N V
UniRef90_U2XTV5 H I T A V Q E S G L R L I V E G Q R L K Y Q M I E S K N G K L A A
UniRef90_D9SKX8 H H S Q V K E K T H K D L H E G E S L V K Y D M V E T N K R P M A I N V V
UniRef90_UPI00047B4724 H V S G L T E N I R E N D V V R Y N V E E G R R G P N A V N V V
UniRef90_R4TQX3 H H S S I S A A G Y K Y L V Q G E Y V E F D V Q K M E H T H Q A A N I T G I M G
UniRef90_G1QAJ3 Q Q S K L Y L E G C W R L K E G E A V E F F F K K S S E G H E S I R D T G A G W
UniRef90_UPI00029A9DE8 H A S G L I D N I R E N D T V N Y D V E E G R K K N A V N V
UniRef90_H6R6R6 H V N D I G L D E D E L R R Q R V F E F E I T E G D R G P K A V N
UniRef90_A4QCG1 G K Q V L P K G V T E L H K G Q R I D F D F A A G R K G P Q A L R I T V S G
UniRef90_H0HXF4 H I S K L Q A S G H A E V S E G M L L R V T E A G P K G P Q V A Q V I T V S G
UniRef90_U2DLW4 H F S E I Q M D G F R K L S E N G M L V S F E A G E D E H R C A K N V V
UniRef90_Q0C3K7 H I S T L E R S G I A H L N E G Q K V S F D T A I D K R K S A V
UniRef90_UPI0003B46E9E H M E T L R D A G F G P V E P E D R M M I Q I G E G K K G P M A I T V R
UniRef90_U5Q6A0 H S N G L K E K I K E N D E V T F D L E Q G K K G L N A I N V R
UniRef90_A3JSE0 H V E T L R R Y G L A D L M P G E A I C L K I A D G E R G K M A V E V R
UniRef90_UPI0002D278F4 H F R E I R E A E Q K L F P G D I V E F V L V K N E K G L K A V N V V
UniRef90_G8AZS2 H K S V L R R C N L T G L E S G Q R V L L R A R A P K G R E A S W V V
UniRef90_F7YAU1 H A T A L T R S G I S E L L J E G Q M V L V E C G Q G K K G L E V L S I R
UniRef90_G1LN73 H P T A I K K N D P R G V G D G E T V E F D V V J E G E K G V K A T N V S G P R R
UniRef90_UPI00047299DC H I S A V E R A G L N G L N E G D N V S Y E V E
UniRef90_UPI00035CF240 H V N D L H F D K R L I A P G A L V E F T V E D S N R G L K A S G V R I L E Q
UniRef90_W6TYH2 H T T G V L G K I R E N D Q V E Y E V E Q G K K L N A V K V R A I
UniRef90_V4RIZ4 H I S A V Q R A G L T E L R E N D Q V E Y E L V T D R R G K G A A D V T G
UniRef90_S2WG87 H A S A L P E G V R A P K G G T R V E Y S V V D G R K G A Q A
UniRef90_J0QZT1 H I T V M R K D G G F Q T A L E G A R I V C F V K N G E R G L Q S I K V K S I D
UniRef90_A0A031HZD3 H F S V L Q S H G R R S L P E G T R V T T L A V Q R G R G Y Q A R E V
UniRef90_H1X6T4 H F S A I E T P H V R D L E V G E P V K L V V V Q G V R G P Q A A V
UniRef90_Q2G551 H I S A V E R A S G M A T L D K D Q R V Q Y E L E T D K R G K S A V N
UniRef90_UPI00036AD60F H A S T L R A A G V Q T L V J E G E A V S V E A R S E R G L Q A L R I V K L D
UniRef90_H6SPV9 H I S V L Q R A G Y D E L P E G A V I V C D L G P G Q K G M Q V T Q I H G A G G
UniRef90_E4N0R6 H V N D L L I P E S Y I R T G L S V V F E I E D G D R G P K A S S V Q A P G V
UniRef90_Q0C0S6 H A V A F R K A G Y E D I E P G T R I D V I I E V G A K G
UniRef90_D5WRW4 H V S W I K G F T P R E G L R V E F D V E R G E K G P R A R N V R

UniRef90_A0A011A3G3
UniRef90_UPI0002490D25
UniRef90_G2RYQ9
UniRef90_F8A6H6
UniRef90_U1MLN0
UniRef90_UPI000376C9F8
UniRef90_S9QGK1
UniRef90_V4RD63
UniRef90_F2IVC1
UniRef90_UPI0003B31EFA P
UniRef90_J2J1W7
UniRef90_UPI00039A3714 S P
UniRef90_F4H7M1
UniRef90_E3J3I3 P P
UniRef90_NODYF1 A P
UniRef90_F6IED9
UniRef90_K2KCW6
UniRef90_Q2W6X8
UniRef90_F3WYI6
UniRef90_S9QSF4 P P G A G
UniRef90_X1MRJ8
UniRef90_M9R7V5
UniRef90_UPI0003B3EE28
UniRef90_A3WV12
UniRef90_R7Y0R2
UniRef90_H0W1B1
UniRef90_E3I0G9
UniRef90_D6Y922
UniRef90_A1BHA2 P T G
UniRef90_A2TNS0
UniRef90_Q3D4R8
UniRef90_B6IXJ6 S P
UniRef90_V9VS04
UniRef90_W8RUS4
UniRef90_G2IM10
UniRef90_Q68W69
UniRef90_U0CMJ0
UniRef90_G6YJ33
UniRef90_A0A059ITP0
UniRef90_B1MZK9
UniRef90_X1S XK8
UniRef90_E2D2H8
UniRef90_UPI000462F6E3 G
UniRef90_V7ELN0
UniRef90_V6F4K6
UniRef90_R2S202
UniRef90_K2JUD3 P Q S D
UniRef90_L1QRY4
UniRef90_L8F0N2 A P
UniRef90_A7HXY4
UniRef90_C3HAV6
UniRef90_W6W5R5
UniRef90_G9EP18
UniRef90_V5SBK7
UniRef90_M3URU7 A P A D D S
UniRef90_Q9KI38 A P E
UniRef90_M2U440
UniRef90_A0A011UL76
UniRef90_I4ZM08
UniRef90_U2HPC9
UniRef90_U2XTV5
UniRef90_D9SKX8
UniRef90_UPI00047B4724
UniRef90_R4TQX3 G
UniRef90_G1QAJ3 L C G S E
UniRef90_UPI00029A9DE8
UniRef90_H6R6R6
UniRef90_A4QCG1
UniRef90_H0HXF4 G
UniRef90_U2DLW4
UniRef90_Q0C3K7
UniRef90_UPI0003B46E9E
UniRef90_U5Q6A0
UniRef90_A3JSE0
UniRef90_UPI0002D278F4
UniRef90_G8AZS2
UniRef90_F7YAU1
UniRef90_G1LN73 P Q G S K
UniRef90_UPI00047299DC
UniRef90_UPI00035CF240 A P G Q S D
UniRef90_W6TYH2
UniRef90_V4RIZ4
UniRef90_S2WG87
UniRef90_J0QZT1
UniRef90_A0A031HZD3
UniRef90_H1X6T4
UniRef90_Q2G551
UniRef90_UPI00036AD60F
UniRef90_H6SPV9 G S R G S D
UniRef90_E4N0R6 D P
UniRef90_Q0C0S6
UniRef90_D5WRW4

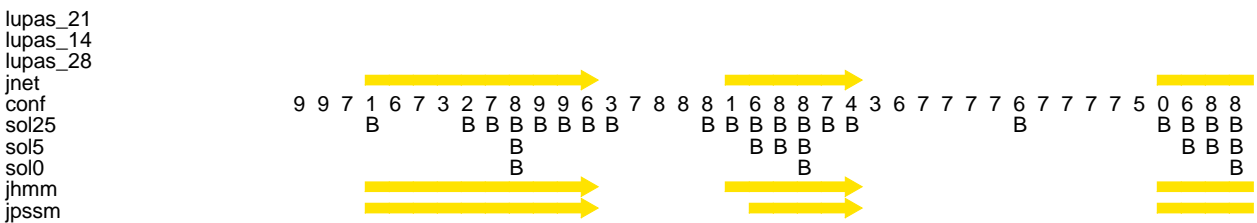
UniRef90_W7VG26
UniRef90_UPI00041120E3
UniRef90_UPI00036065A7
UniRef90_E3EYG7
UniRef90_UPI0002D74B4A
UniRef90_F4AWX6
UniRef90_F4BYW6
UniRef90_C6XG83
UniRef90_S3AVJ2
UniRef90_T2KLH3
UniRef90_X1U7R4
UniRef90_K2AMD5
UniRef90_H1GX13
UniRef90_UPI0004070CB8
UniRef90_A1UT19
UniRef90_G7Y440
UniRef90_UPI000382331B
UniRef90_UPI000248A44D
UniRef90_MOLZA6
UniRef90_A3WEV0
UniRef90_UPI00026CA21A
UniRef90_X5M4Q2
UniRef90_UPI0002D63E56
UniRef90_W8F265
UniRef90_UPI00034B1FB
UniRef90_UPI00047DA98F
UniRef90_I4K695
UniRef90_C2BI97
UniRef90_UPI00026CC573
UniRef90_I3TSH5
UniRef90_E2MYZ1
UniRef90_R9GSE6
UniRef90_A3U3R3
UniRef90_X1YEE4
UniRef90_G2N9B0
UniRef90_UPI000361CB95
UniRef90_I0W5N1
UniRef90_E4TSH1
UniRef90_UPI000475D204
UniRef90_R7D625
UniRef90_U5BZ11
UniRef90_UPI0003689107
UniRef90_G2MI82
UniRef90_D5MIM3
UniRef90_UPI00036054FF
UniRef90_V4Q8S6
UniRef90_C2G1J6
UniRef90_UPI0004761AAD
UniRef90_UPI0003F8E95B
UniRef90_UPI000468590F
UniRef90_I4YL55
UniRef90_UPI0003C75091
UniRef90_X1SDJ7
UniRef90_D0Z9M8
UniRef90_V6SPH2
UniRef90_UPI00029AB109
UniRef90_UPI00035D12B2
UniRef90_P0A977
UniRef90_W8VWC1
UniRef90_UPI00035E489E
UniRef90_D8VMP1
UniRef90_Q0YQY4
UniRef90_R5J1C8
UniRef90_V9XLJ7
UniRef90_X1RZY7
UniRef90_UPI000468A44E
UniRef90_UPI0003D6FB24
UniRef90_F4FSX8
UniRef90_UPI0003701398
UniRef90_UPI000471983D
UniRef90_X7GB68
UniRef90_I0HY65
UniRef90_G8AZ21
UniRef90_H1ZF40
UniRef90_C8WB38
UniRef90_E4N1Y3
UniRef90_Q5P4M3
UniRef90_F4D0D3
UniRef90_X1HPY9
UniRef90_V7BEM0
UniRef90_W6L6E8
UniRef90_A2U1S7
UniRef90_UPI0003A143A5
UniRef90_K5ZBK2
UniRef90_U2CNN7
UniRef90_F0XY6
UniRef90_K1IQF7
UniRef90_G0CP38
UniRef90_X0TLE5
UniRef90_F1M2W5
UniRef90_H3FFG5
UniRef90_G8WVG88

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

UniRef90_W7VG26 H A N M L D G D K W A L T P G V P V 60 E Y E A V E T E R G G P K A V L V R V S G 80
UniRef90_UPI00041120E3 H V T A L P P E G V T S T L K P G T R V E Y G I A D G R K G G A Q A L S V R V T D
UniRef90_UPI00036065A7 H S S A L P P E G G V Q N S V L K K G E G I E E F G V V E G R G Q Q A L S L Q V L D T
UniRef90_E3EYG7 H A N V L R R R F G G L V Q N S V L K K G E G I E I T V L V S R T P K G A Q A L E I V G D N G
UniRef90_UPI0002D74B4A H A S A L P A G G V T S E V V K V G T K L E F G V A D G R K G G L Q A
UniRef90_F4AWX6 H V T G L I D P A G G V T S E V V K V G T K L E F G V A D G R K G G L Q A
UniRef90_F4BYW6 H A T G L M P D V T I R E T E G D A V E F E L K E G K G G L N A V N V R V I D
UniRef90_C6XG83 H R S A V A S A G L F N L T E G Q L V T Y D Y V Q N D
UniRef90_S3AVJ2 H A N D L M M P E S Y I H A G V A V E F E I E D G D R G L K A S S V R
UniRef90_T2KLH3 H V I S G L I D P E S Y I H A G V A V E F E I E D G D R G L K A S S V R
UniRef90_X1U7R4 H Y S S I D S S G F K T L A E E G E R V S F E L K E E T D R G G P K A K N V R
UniRef90_K2AMD5 H T S A V E N G P I A E G G D N V E F E V G Q G K G P C A E K V R
UniRef90_H1GX13 H A T G L E E D I K Q G D N V T Y N V E K G Q K G F N A V N V R
UniRef90_UPI0004070CB8 H Q N E I S G T A V K E N D K V N F E V E K G P K G G L N A I N V R
UniRef90_A1UT19 H I S V M Q R D G F Q P A L L E G A K V V I C S V K K T K R G G L K C I Q V R K S I D
UniRef90_G7Y440 H Q S N I R G I L T P E L T P N P V S F M I R L T S K G P E A F N V R P
UniRef90_UPI000382331B H V T A L Q T R S V K P K P G D R V S F E L A K G K D G M Q A L N V T I A G
UniRef90_UPI000248A44D H F S V L R H L D R R T L P E G A R A S V I A V R S D R G L Q A R A V T G P D
UniRef90_MOLZA6 H M E D V G G P D L E E G T D V E F E I E E S R Q K G P R A S N L T
UniRef90_A3WEV0 H I S A V E R S G L S A L I N E G E R F E F D L E V D R R G Y S A V N V
UniRef90_UPI00026CA21A H M S S V E E G V R Y E Q T L R E G E T V S F D V G Q K G P K G P R A E N V
UniRef90_X5M4Q2 H V T V M R R D G F D T V L E E G A K V V I C A V E K T E R G L K C V Q I K S I D
UniRef90_UPI0002D63E56 H V S A I E R A G L P A L V I E G Q K V G Y E L L V D K R G P S A V G V
UniRef90_W8F265 H I N Q V Q T S A P I K E N D K V T F E V E M G Q K G P S A V G V
UniRef90_UPI00034AB1FB H I N G L M E P I K E N N K V S F E V E K G P K G L N A I N V
UniRef90_UPI00047DA98F H A S A L P A G V S E I K A G T R M E F G V A A G R K G A Q A L S A R I L L D T
UniRef90_I4K695 H A A D V R A S G L G S L E A D G Q R V S Y E V G P N K R
UniRef90_C2BI97 H F S D I V E E E F K L E T E G D N V E F E K I E A P R G P Q A K K V
UniRef90_UPI00026CC573 H F S V L R P H N R R S L P E G A R L E C L A G M R D R G L Q A T E I L S I D
UniRef90_I3TSH5 H I S A V Q R S G L T E L V T E G Q K V A Y E L A D R K G L A A A N
UniRef90_E2MYZ1 H G K N V L P K G V E E L V T G Q R L E Y D Y A D G R P Q A L R I K V L D E
UniRef90_R9GSE6 H S T G L V D E I R E N D R V K Y E V E K G K G L N A V N V
UniRef90_A3U3R3 H A N V L R N F G Q S S V A D G A K I S I L A Q T T Q R G
UniRef90_X1YEE4 H Q V H I Q M G F S R S L E G E N E E F E S K L T G K G Y E A T N V Y G P A H
UniRef90_G2N9B0 H V N D L L I P E S A V R A G L M V E F E I E D G D R G L K A S E V R G L T G
UniRef90_UPI000361CB95 H V N D V L F D K T L V A Q G V R L S F D I E E G D R G L K A S H V R
UniRef90_I0W5N1 H I T G L L D N V A P E N D K V T Y D I E H G Q R G M F A V N V
UniRef90_E4TSH1 H V S G L I D D I R E N D E V Y E L Q D G K G L N A V N V
UniRef90_UPI000475D204 H F S V L R P F G R R S L P E G A R A I C I A T P R E R G L Q A R S I V
UniRef90_R7D625 H F S A I Q M D G F K T L D E G D R V E Y E V G P G K K P T Q A I V R K I G
UniRef90_U5BZ11 H A T G L T D K V L G Q N D N V T F E L K E G K G P N A V N V
UniRef90_UPI0003689107 H V S A L V R G G S L L G Q G E K V E Y D L G Q D R K
UniRef90_G2MI82 H A S D V E G G G A T P R E N D D V E F D L G Q D D R G R K A V R V R I L L R G
UniRef90_D5MIM3 H A T G L N A E N L R E G D K V S Y I E E D G K K G K V A Q V
UniRef90_UPI00036054FF H I E T L R R Y G L E D V Q Q G D V I M V R F E G E G P K G L V V T E V
UniRef90_V4Q8S6 H V T G L I D K I R E N D N V S Y E V E Q G R K G L N A V N V
UniRef90_C2G1J6 N F T A I P G E G Y R T L S A G T P V K F E L V E G K F G L V A R N V
UniRef90_UPI0004761AAD H V S G L V H E I R E N D E V T F E L K E G K G M N A V N V
UniRef90_UPI0003F8E95B H A S G L I D E I R E N D T V E Y E V Q E G K K G L N A V K V R
UniRef90_UPI000468590F H V R Q V E A A G Y S A L E S G T T L V I K V G A G Q K G P Q V Q E I V S V D
UniRef90_I4YL55 H A N D L V D E K Y L Y Q A G R E V E F I L E M G D K G P K A S E I R L V D R
UniRef90_UPI0003C75091 H V S D L L D R D H N P Q Q N D E V E F E L T E G R K G R Q A I Q V
UniRef90_X1SDJ7 N R T G I A S A R N K L L R E G D R V E F S T P R G R R S Q M A E D V I A
UniRef90_D0Z9M8 H V S G L V D Q V K E N D S V S F E L E E G R K G L M A V N V R
UniRef90_V6SPH2 H M E D V G G P D L E E G Q E V E F D I V I Q A D N G
UniRef90_UPI00029AB109 H A S V I P D G T E V Q Q G M R L E Y S V A D G R K G P Q A L S V R V L D
UniRef90_UPI00035D12B2 H V S A L N L R D A E E V R E G D K V E Y E E K E G K G M N A V N V R
UniRef90_P0A977 H I N A L A G P L N E N D K V S F M T T M P T K G L N A V N V R
UniRef90_W8VWC1 H V T G L I D E V R E G D K V E Y E E K E G K G M N A V N V R
UniRef90_UPI00035E489E H I N A L A G P L N E N D K V S F M T T M P T K G L N A V N V R
UniRef90_D8VMP1 H Y S T I D V H R F K F L N Q D A E L D F E L D D S K Q R L Q A R Y V R R V G D
UniRef90_Q0YQY4 H I N N V T G D I S E N D V T F D L E R G M K G M N A V N V R
UniRef90_R5J1C8 H Y S Q I D G S G Y R F L T G G Q R V R F E L I G Y G I F G R Q A V N V R
UniRef90_V9XLJ7 H K A D I E K N L N L D E G D K V S F E T E E D P K G T K A V K V
UniRef90_X1RZY7 Y L H A S V L P E G V E V Q Q G T R V E Y S V A D G R R G P Q A L S V R V L D
UniRef90_UPI000468A44E Q Q S K L H M E G F R S L K E G E A V E F T F K K S A K G L E S I R V T G P G G
UniRef90_UPI0003D6FB24 F K N A F P E D Q Y G T I Q V G K P V E Y V V V A G Q K G P Q A A K
UniRef90_F4FSX8 H I S A L Q G R A V A P K V G D R V S F E L S A G K D G P Q A S Q V S I A G
UniRef90_UPI0003701398 H M S A V E E A G I S T L I E G Q R V S Y E L A
UniRef90_UPI000471983D F Y E E I V I G E D K F L N I G D R V R F T I E K K S K G P R A Y N I
UniRef90_X7GB68 H V S A W P K G E P R P R L G Q A V S F E I E L G P K G K R A C K V Q P L A
UniRef90_I0HY65 H S R V L A S L G E V S L T E G T G L V C D I A E T P K G P Q V V S I T P A D P
UniRef90_G8AZ21 H T T G L L D N I C E N D D V V F D L Q H S Q K G L I A V N V
UniRef90_H1ZF40 H F S L Q E Y G K R F L P E G S W V K C L A A R T V R S Q G W K A H K I
UniRef90_C8WB38 Y Y D S V D Q E H R R F L H Q G Q R V R Y D E T V Q E S R P V A E R V R P
UniRef90_E4N1Y3 H V S A F P R D G R R P Q I G E P L S F E I E D K D R K K R A V G V S R P G R
UniRef90_Q5P4M3 S G A Q I D G G G Q S L C P G D R V T F T L V E G P D G P H A T G V
UniRef90_F4D0D3 H R S A L A E E D F D A L E E G T S V E F N L E E G P K G S R A V S V R
UniRef90_X1HPY9 H Q L Q I K Y D D F R S L A E A E S V E F A I K D S D R R T K M I N I T
UniRef90_V7BEM0 S A L Q T E P G G Y R A L S V D Q E V E Y E V T F Q D G R T R A E N V T A P G G
UniRef90_W6L6E8 H V S G L I D T I A E N D K V T F E L K E G M R G M N A V K V
UniRef90_A2U1S7 H F S A I Q S N D F K T L T E N Q E V E F G I E N G P K G P A A V H V V A L
UniRef90_UPI0003A143A5 H V N F L L S K V E E G D V T F D L E R G L K G M N A V N I S
UniRef90_K5ZBK2 Y F F H I S N A P A S I V E E G D R V T F D L E R G L K G M N A V N I S
UniRef90_U2CNN7 H A G D V V G C A R R L A P G D A V E F A Y I Q A Q S G P K A L D V V
UniRef90_F0XY6 H V T A L Q S D G R V P V P G E R V T Y L I G S G Q D G P R A L Q V F F P D
UniRef90_K1IQF7 G K N V L P A G V D K L E K G Q R I E F D F A D V G K K P Q A L R I
UniRef90_G0CP38 H H S A I N A D G F K S L N E G D
UniRef90_X0TLE5 H Q T A V K K N P R K R R V G D D G E T F D V V E G E K G A E V A S V T D P G G
UniRef90_F1M2W5 H S S A L K K N I S E D D R V I F D L E L G E K
UniRef90_H3FFG5 H I S S L N K N I S E D D R V I F D L E L G E K
UniRef90_G8WVG88 H I S A V N S R E S E L L I P G S R I E F C R I N G L R G P V A A N I

UniRef90_W7VG26
 UniRef90_UPI00041120E3
 UniRef90_UPI00036065A7 L P
 UniRef90_E3EYG7 R P G T G
 UniRef90_UPI0002D74B4A
 UniRef90_F4AWX6
 UniRef90_F4BYW6
 UniRef90_C6XG83
 UniRef90_S3AVJ2
 UniRef90_T2KLH3
 UniRef90_X1U7R4
 UniRef90_K2AMD5
 UniRef90_H1GXI3
 UniRef90_UPI0004070CB8
 UniRef90_A1UT19
 UniRef90_G7Y440
 UniRef90_UPI000382331B A P
 UniRef90_UPI000248A44D
 UniRef90_MOLZA6 P V Q G
 UniRef90_A3WEV0
 UniRef90_UPI00026CA21A
 UniRef90_X5M4Q2
 UniRef90_UPI0002D63E56
 UniRef90_W8F265
 UniRef90_UPI00034AB1FB
 UniRef90_UPI00047DA98F P P
 UniRef90_I4K695
 UniRef90_C2BI97
 UniRef90_UPI00026CC573
 UniRef90_I3TSH5
 UniRef90_E2MYZ1 G P
 UniRef90_R9GSE6
 UniRef90_A3U3R3
 UniRef90_X1YEE4 A E C K G S D
 UniRef90_G2N9B0 V P
 UniRef90_UPI000361CB95
 UniRef90_I0W5N1
 UniRef90_E4TSH1
 UniRef90_UPI000475D204
 UniRef90_R7D625
 UniRef90_U5BZ11
 UniRef90_UPI0003689107
 UniRef90_G2MI82
 UniRef90_D5MIM3
 UniRef90_UPI00036054FF
 UniRef90_V4Q8S6
 UniRef90_C2G1J6
 UniRef90_UPI0004761AAD
 UniRef90_UPI0003F8E95B
 UniRef90_UPI000468590F
 UniRef90_I4YL55
 UniRef90_UPI0003C75091 A
 UniRef90_X1SDJ7
 UniRef90_D0Z9M8
 UniRef90_V6SPH2
 UniRef90_UPI00029AB109
 UniRef90_UPI00035D12B2
 UniRef90_P0A977
 UniRef90_W8VWC1
 UniRef90_UPI00035E489E A P V Q L S K
 UniRef90_D8VMP1
 UniRef90_Q0YQY4
 UniRef90_R5J1C8
 UniRef90_V9XLJ7
 UniRef90_X1RZY7
 UniRef90_UPI000468A44E
 UniRef90_UPI0003D6FB24 V F C I G S E
 UniRef90_F4FSX8
 UniRef90_UPI0003701398 A P G Q
 UniRef90_UPI000471983D
 UniRef90_X7GB68
 UniRef90_I0HY65
 UniRef90_G8AZ21 A E A K
 UniRef90_H1ZF40
 UniRef90_C8WB38
 UniRef90_E4N1Y3
 UniRef90_Q5P4M3 A P V R
 UniRef90_F4D0D3
 UniRef90_X1HPY9
 UniRef90_V7BEM0
 UniRef90_W6L6E8 A
 UniRef90_A2U1S7
 UniRef90_UPI0003A143A5
 UniRef90_K5ZBK2
 UniRef90_U2CNN7
 UniRef90_F0XYY6
 UniRef90_K1IQF7
 UniRef90_G0CP38
 UniRef90_X0TLE5
 UniRef90_F1M2W5 V P V Q G G K
 UniRef90_H3FFG5
 UniRef90_G8WG88

	1	10	20	30	40
UniRef90_X0SDV2		MKGTIKRILYENKNGFGL	SEDEE		KDLFF
UniRef90_R6ARP6	PVILR	GRIEFFNEARGFGFI		KDLA	GIEKYFF
UniRef90_UPI00031A2AC7		RFQGEVWKWFRVEKGYGFI	QTDKPK	VEGQT	DDEFFV
UniRef90_R1D0L2		KMMGTAKRFDMERGF		VP	DDGGEDTFA
UniRef90_UPI00047057D0	MLMQS	GKIKHWNQDKGYGFI	DVDNQ		NEDVFF
UniRef90_R9HDI9		GVKFFDSSKGF	VTKGVSNK	PE	DQGLYDF
UniRef90_T2KN24		RKGVKVSFFDSSKGF	IDAENSEK		
UniRef90_S3ZGQ0		GKVLRFDEVRGYGFI		PE	VGDEDVFM
UniRef90_UPI00037E55F6		NGTFKWFNANIFYGFI	E	PKGS	
UniRef90_UPI00046F4455	MRYG	GKIKQWDEKGYGFI		L	NDGSRQVFL
UniRef90_M5UGH6		MAEGTIKRITDKGF		L	PDGSGEPLVFL
UniRef90_UPI000378A537	MR	FQGRITRWKDDQGF	T		PDGSGEPLVFL
UniRef90_UPI0003677487		NGKVKFYNKKRYGFI	T		GDDGVDF
UniRef90_A6C990		MAEGTIKRVTKKGF			DTESGKDLFF
UniRef90_X2GMC8	MKRE	GLVKWYKNEKGYGRI	M	LNGEEDN	HVFVHFSLIL
UniRef90_F6AFK7		GRIKRWDDEKGF	Q		PLAAGGTDVFA
UniRef90_H7EQK7	ME	QRGLKSWNDQKGF			RPEQGGEDVFA
UniRef90_C4K9K8	MR	HQGKITTWKDDKGF	T		PNGGGEPLVFL
UniRef90_X0QLL8		SGKIKHWNSDKGF	D	V	DNQSEDFVFF
UniRef90_A6C7F3		GKIKRIVSDRGGFI	E	G	ERGD
UniRef90_H9GBV2	YK	GVCKCF	SRAKGHGFI	T	PEEGGLDVFV
UniRef90_UPI000299CED4		RKGTVNAFFDSSKGF			KDLETKESVFF
UniRef90_UPI0003A7D383	MRT	HGTLSRWNAERGF			APARP
UniRef90_F0Y4I3	R	H	TGVVLRWYTEKKHYGFI	ESK	GASATDLFV
UniRef90_A5G2U9	V	H	GQVVRFAADADYGF	A	T
UniRef90_UPI000365E210		GKVSFFDHSKGF			IDSINQEK
UniRef90_Q53984			EKGF		ST
UniRef90_K2BVX8	L	MYGK	IVRLFN	GD	GF
UniRef90_K0HYB6	MR	FE	GLTRW	ND	DRG
UniRef90_T1PB57	V	T	GT	V	KSF
UniRef90_F3HKR8		GE	V	V	SFV
UniRef90_S5JFQ5	MK	GQ	I	VE	W
UniRef90_Q2MF47		G	V	K	WF
UniRef90_N8VR54	M	F	VE	G	KLK
UniRef90_UPI0002556FC5	ME	V	H	GS	T
UniRef90_N9MUP5		G	Q	I	K
UniRef90_J1ENK6	M	Q	K	Q	T
UniRef90_S8CLK5		T	G	T	V
UniRef90_N9RM64	M	I	L	E	G
UniRef90_W4XMT5		G	R	V	N
UniRef90_C6XBC0	M	R	Y	Q	G
UniRef90_L1IGF5	K	V	P	G	T
UniRef90_UPI0003A8D0D1		M	K	G	K
UniRef90_A1TSW1	M	Q	F	D	G
UniRef90_B9R149		G	N	V	K
UniRef90_UPI0003612E18	R	E	N	G	I
UniRef90_UPI0002A47873		T	G	V	C
UniRef90_UPI00036882F4		M	T	G	Y
UniRef90_X1XMX3	V	M	A	M	N
UniRef90_UPI0002F0D50F	MR	H	R	G	R
UniRef90_X0UDS4		R	D	T	G
UniRef90_D5BA40	A	Q	T	V	R
UniRef90_UPI0003EBD80C		Y	Q	G	K
UniRef90_N9GM22					
UniRef90_A0A058ZHA7		G	V	V	R
UniRef90_UPI000377C666		M	R	A	K
UniRef90_B8GRE3		Y	S	G	V
UniRef90_V8N722		R	L	L	G
UniRef90_U5VL10	P	R	G	E	R
UniRef90_C1FHR4		T	G	I	V
UniRef90_R9CKV0		T	G	I	V



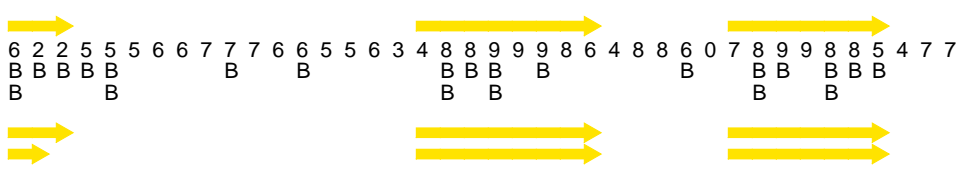
UniRef90_X0SDV2
UniRef90_R6ARP6
UniRef90_UPI00031A2AC7
UniRef90_R1D0L2
UniRef90_UPI00047057D0
UniRef90_R9HDI9
UniRef90_T2KN24
UniRef90_S3ZGQ0
UniRef90_UPI00037E55F6
UniRef90_UPI00046F4455
UniRef90_M5UGH6
UniRef90_UPI000378A537
UniRef90_UPI0003677487
UniRef90_A6C990
UniRef90_X2GMC8
UniRef90_F6AFK7
UniRef90_H7EQK7
UniRef90_C4K9K8
UniRef90_X0QLL8
UniRef90_A6C7F3
UniRef90_H9GBV2
UniRef90_UPI000299CED4
UniRef90_UPI0003A7D383
UniRef90_F0Y4I3
UniRef90_A5G2U9
UniRef90_UPI000365E210
UniRef90_Q53984
UniRef90_K2BVX8
UniRef90_K0HYB6
UniRef90_T1PB57
UniRef90_F3HKR8
UniRef90_S5JFQ5
UniRef90_Q2MF47
UniRef90_N8VR54
UniRef90_W4GUF5
UniRef90_UPI0002556FC5
UniRef90_N9MUP5
UniRef90_J1ENK6
UniRef90_S8CLK5
UniRef90_N9RM64
UniRef90_W4XMT5
UniRef90_C6XBC0
UniRef90_L1IGF5
UniRef90_UPI0003A8D0D1
UniRef90_A1TSW1
UniRef90_B9R149
UniRef90_UPI0003612E18
UniRef90_UPI0002A47873
UniRef90_UPI00036882F4
UniRef90_X1XMX3
UniRef90_UPI0002F0D50F
UniRef90_X0UDS4
UniRef90_D5BA40
UniRef90_UPI0003EBD80C
UniRef90_N9GM22
UniRef90_A0A058ZHA7
UniRef90_UPI000377C666
UniRef90_B8GRE3
UniRef90_V8N722
UniRef90_U5VL10
UniRef90_C1FHR4
UniRef90_R9CKV0

```

                    50          60          70          80
H R S G V K E D   F N D L R D G E E V E F E I E D K E R G P Q A T N I V
H V N N V V T D V R E G N I V T F D L E R G A K G M N A V N I L
H Y T D I Q T G G H R S L V Q A G E R V E F T L Q E
H G N A L T D G N A L R E G A R V Y F R K S Y D P N K A A A E E V T G P M R
H V S T V R L S Q P I S E G Q R V Y F H S Q R N D K N L R A T E V T
Y I N S S E W N F S S S P N D G D W I V F T P Q K G H R G W S V V D
Y F C H V S G L T D T I E N D K V Q F E L E R G M K G M N A V R V
H A N D L V D E K Y L Y Q E G S E V E F F L E M G D K G P K A S R I R
Y I S D L E A A G M N T L K D G A K T G F D L E T G K I G K E A V D I R
H I K S F T R R R H Q R R L L P G D L V T Y V L G K D A Q G R P F A N E V R L V G
H L S N L D G V J A F D D L R E G Q R V T Y T E G R G P K G P C A E N V S
H I K S F T R R R R L R P Q D V V T Y T L G P G E R G P Q A L K V A Y P G
H E T G L T N G I Y V R D E D K V E F N I T E T D R G N K A V D I S L I D
H S S N L E G V S F E Q L Y E G Q R V S F T E G R G E K G P R A E N V
P D K E R F P N A F R F L K Q G G Q K V S F D L T E
H I S A M R G D R R P S A G D Q V L F V A G R D D K G L R A E H V R L A G
H I S A V H G E R R P L V G D R V L Y V A G R D P Q G R
H V S S L A N R Q R R P E G T E L V S Y E L A T D A K G L Q A K A V A F V G E
H V S K V R L S Q P I T V G Q S M V E Y E V G Q G R K G P C A T G V K V V D
H Y S E V Q G V T L E L L Q E G Q M V E Y E V G Q G R K G P C A T G V K V V D
H I S D I E G E Y V P V A G D E M T Y K L T T V P D R L Q A V E V V I T H L
H V S N V V D E V I E G N L S Y E V E M G P K G P V A V N V
H L S A F P R D G G P P R I G E L L S Y E I A A G P D G P R A V R V
H S S E L E E P L R A G D T V S F V I G E R R G R S A A T K V E V V E R
Y R N S V A G N G F A R L R V G D D V R L A V A E G R D G P Q A S L V R P A G
Y F V H V I S G T L E P I E E N D K V T Y E L E R G Q K G M N A V R V
H F S A I Q T N G F K T L E E G Q K V E F D V E E G Q R
N A S H V Q H P D F H K L S V G M P V H F I Q E A G Q D D G P Q A H R V
H I S A F A R D G L R P Q L G N E T L S F E I S L N Q D D G K Q A V R V R
H I S D I E G E F V P M E G D E V K Y R L C K N E K F Q A V H V K I I N L
H Q K D V Q G G E T L T S G Q R V A F V P T P S P K G S K A R H V V P G L
H I S I T N R G Y R P K L Q D S V T F D V A E D K K G L N A A N V V G V N G
Y R S A I Q G D E P R T L T T G E R V S F N L V I E D F E G I R A E N I
H I T D F P K A A G E P K V G E R L K F L M V I E D K G K F K A V N I V R L D
H F S S I K D G N C L R E G D K V E F E V R D E Q K G K R A E D V T G
H I S A M R G D R R P L V G D K V L Y I A S R D D K G R
H V T D F P Q A A G E P K L G E R L K F L I V I E D K G K Y K A V N I V R L D
H V R D F Q G A G A P R E G Q S V S Y E I H V G G K G P R A M A V Q P V G A
H F S A I Q G D E P R N L E E G Q
H I S D F P K K T G E P K L G E R L K F L V V I E E R G K F K A V N I V R L D
V F F H I S A V P K K C I K V G D V V K F D L V V G P K G H I A E S I
L H I S A F S H R K R R P E G D E L V T Y E R T L D A K G P H A L K V A F V G H
H Q S N I L D N V N L R K M D S V K L K V L S G T K G L Y G K E V R
H A S S V K N S N H R P R L N D E V T F E V R E D N R G R N A V D A T I E G
H I K A F Q G G A P R P Q A G Q R V R F A V E A G P G G R K R A
D I T A L R R S G I D S L K E G Q L V A F D L E W R R G Q M V A E D
L F D E A L S V V G E L T V G D L V S F E V E M K P R G P R A K N I
H I S D I E G E Y V P V I G D E V S Y K V C A I P E K V I Q A V E V
Y F L H I E V R G G E I P D A G Q Q V H F T P T A T E K G P A A
Y F H V I K V A N P D L I K K D A V T F E P T T N N K G L S A F S V
H I K A F S K A T R R P A G N E R V Y A L A R D G K R G P
H Y S E I P G D R T V G E G T R L K F D I E V S E K G R
H H Q D S K P L S E R M K V S Y R K E R S P K G F Q A T S V E V L D
H I S D V E G E Y V P V I G D E V T Y K M C S I P E K L Q A V E V V I T H L
H I S D F P S A E G E P K R N E K V K F A V V I E N Q G K F K A V Q I E R V D P
H H T A I C G S G H N T L A D G E V E Y T R L V G P K G P Q A T K V T G V G G
H R N N V E G A G F D A L E R G D R V R Y V P E D A E D G P Q A S A V R P L G
H I R S F N N R T R Y R V R N E I V T Y D L V I D D Q G P R A E K V
H I S D I E G E Y V P V A G D E V T Y K V C K N E K L Q A V E V
T Q L A I I E G G Q G S L Q E G E R V S F E V I E G
H F S S I T D G N M L N E G A R V E Y D E S D D R K G P R A E R V T G
H N N N C I H Q V K K G N K V S F E K E K T A K G F A A V N I

```

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm



UniRef90_X0SDV2
 UniRef90_R6ARP6
 UniRef90_UPI00031A2AC7
 UniRef90_R1D0L2 A P P R G
 UniRef90_UPI00047057D0
 UniRef90_R9HDI9
 UniRef90_T2KN24
 UniRef90_S3ZGQ0
 UniRef90_UPI00037E55F6
 UniRef90_UPI00046F4455 E E R
 UniRef90_M5UGH6
 UniRef90_UPI000378A537
 UniRef90_UPI0003677487
 UniRef90_A6C990
 UniRef90_X2GMC8
 UniRef90_F6AFK7
 UniRef90_H7EQK7
 UniRef90_C4K9K8 R A
 UniRef90_X0QLL8
 UniRef90_A6C7F3
 UniRef90_H9GBV2 A P
 UniRef90_UPI000299CED4
 UniRef90_UPI0003A7D383
 UniRef90_F0Y4I3 A P
 UniRef90_A5G2U9
 UniRef90_UPI000365E210
 UniRef90_Q53984
 UniRef90_K2BVX8
 UniRef90_K0HYB6
 UniRef90_T1PB57 T P
 UniRef90_F3HKR8 A P
 UniRef90_S5JFQ5 F P
 UniRef90_Q2MF47
 UniRef90_N8VR54
 UniRef90_W4GUF5
 UniRef90_UPI0002556FC5
 UniRef90_N9MUP5
 UniRef90_J1ENK6 P A
 UniRef90_S8CLK5
 UniRef90_N9RM64
 UniRef90_W4XMT5
 UniRef90_C6XBC0 R P A P A S
 UniRef90_L1IGF5
 UniRef90_UPI0003A8D0D1
 UniRef90_A1TSW1
 UniRef90_B9R149
 UniRef90_UPI0003612E18
 UniRef90_UPI0002A47873
 UniRef90_UPI00036882F4
 UniRef90_X1XMX3
 UniRef90_UPI0002F0D50F
 UniRef90_X0UDS4
 UniRef90_D5BA40
 UniRef90_UPI0003EBD80C A P
 UniRef90_N9GM22 N P A K T K K
 UniRef90_A0A058ZHA7 G P
 UniRef90_UPI000377C666
 UniRef90_B8GRE3
 UniRef90_V8N722
 UniRef90_U5VL10
 UniRef90_C1FHR4
 UniRef90_R9CKV0

lupas_21
 lupas_14
 lupas_28
 jnet
 conf 7 4 3 2 4 8 9
 sol25 B
 sol5
 sol0
 jhmm
 jpssm