

QUERY	G	I	A	K	E	H	A	K	W	G	P
UniRef90_R8BL20	G	I	A	K	E	H	A	K	W	A	P
UniRef90_M7SJH4	G	I	A	K	E	H	A	K	W	A	P
UniRef90_L2G2G0	G	I	A	K	E	H	A	K	W	M	P
UniRef90_Q6C2S4	G	I	A	K	E	H	A	K	W	S	P
UniRef90_W3X1N1	G	I	A	K	E	H	A	K	W	M	
UniRef90_L8FZL7	G	I	A	K	E	H	A	K	W	A	P
UniRef90_W6MGT5	G	I	A	K	E	H	A	K	W	S	P
UniRef90_W1QGP6	G	I	A	K	E	H	A	K	W	S	P
UniRef90_UPI000441A425	G	F	G	K	E	H	A	K	W	N	P
UniRef90_B6QC30	G	I	A	K	E	H	A	K	W	S	P
UniRef90_R7Z1Y8	G	I	A	K	E	H	A	K	W	A	P
UniRef90_K2R708	G	I	A	K	E	H	A	K	W	A	P
UniRef90_F7VP43	G	I	A	K	E	H	S	K	W	A	P
UniRef90_K0KH51	G	I	A	K	E	H	A	K	W	S	P
UniRef90_U4L4V0	G	I	A	K	E	H	A	K	W	S	P
UniRef90_J5K218	G	L	A	K	E	H	A	K	W	M	P
UniRef90_A7S164	G	F	A	K	E	H	A	K	W	N	P
UniRef90_A5E4Q9	G	I	A	K	E	H	A	K	W	S	P
UniRef90_E4ZPJ4	G	I	A	K	E	H	A	K	W	A	P
UniRef90_S3CW72	G	I	A	K	E	H	A	K	W	A	P
UniRef90_C1GI99	G	I	A	K	E	H	S	K	W	A	P
UniRef90_C4R7L2	G	I	A	K	E	H	A	K	W	S	P
UniRef90_A0A024J7R0	G	I	S	K	E	H	A	K	W	S	P
UniRef90_G3B2S0	G	I	A	K	E	H	A	K	W	S	P
UniRef90_U1GDV9	G	L	A	K	E	H	A	K	W	A	P
UniRef90_E9G1A5	G	F	G	K	E	H	A	K	W	N	P
UniRef90_J3PCT0	G	I	A	K	E	H	A	K	W	C	P
UniRef90_C5MDV1	G	I	A	K	E	H	A	K	W	S	P
UniRef90_UPI000455EB19	G	L	A	K	E	H	A	K	W	S	P
UniRef90_C3Z918	G	F	A	K	E	H	A	K	W	N	P
UniRef90_UPI0002654980	G	F	G	K	D	H	A	K	W	V	P
UniRef90_S2K833	G	V	A	K	E	H	A	K	W	S	P
UniRef90_W7HVS8	G	L	A	K	E	H	A	K	W	Q	P
UniRef90_F1LC10	G	F	G	K	E	H	A	K	W	N	P
UniRef90_F8NUW3	G	I	A	K	E	H	A	K	W	S	P
UniRef90_O97183	G	F	G	K	E	H	A	K	W	N	P
UniRef90_T2MGQ0	G	F	G	K	E	H	A	K	W	N	P
UniRef90_G6CJX9	G	F	G	K	E	H	A	K	W	N	P
UniRef90_B6K2N9	G	I	A	K	E	H	A	K	W	S	P
UniRef90_Q54DH7	G	V	G	K	E	H	A	K	W	S	P
UniRef90_H6C6M3	G	L	A	K	E	H	A	K	W	A	P
UniRef90_B6GWS8	G	T	A	K	E	H	A	K	W	A	P
UniRef90_UPI0001CBBF53	G	F	A	K	E	H	A	K	W	N	P
UniRef90_G4N9Z3	G	I	A	K	E	H	A	K	W	C	P
UniRef90_M0S369	G	I	G	K	D	H	A	K	W	S	P
UniRef90_D8QNS1	G	L	A	K	D	H	A	K	W	S	P
UniRef90_UPI000359D8F2	G	F	A	K	E	H	A	K	W	N	P
UniRef90_L0PEQ4	G	I	A	K	E	H	A	K	W	S	P
UniRef90_UPI00044494F8	G	L	A	K	E	H	A	K	W	S	P
UniRef90_C1BV58	G	F	A	K	E	H	A	K	W	N	P
UniRef90_A9SHD1	G	I	G	K	D	H	A	K	W	S	P
UniRef90_W5NJ36	G	V	G	K	D	H	A	K	F	S	P
UniRef90_F0ZT58	G	V	G	K	E	H	A	K	W	S	P
UniRef90_W5KXU0	G	L	G	K	D	H	A	K	F	S	P
UniRef90_H2YEA9	G	F	G	K	E	H	A	K	W	Q	
UniRef90_B3RV95	G	L	G	T	E	H	A	K	W	N	P
UniRef90_K5W2E9	G	I	A	K	E	H	A	K	W	S	P
UniRef90_UPI0003C27140	G	I	G	K	D	H	A	K	F	S	P
UniRef90_UPI00034F60CB	G	L	G	K	D	H	A	K	F	S	P
UniRef90_J3JZ55	G	F	G	K	E	H	A	K	W	N	P
UniRef90_F4P8K9	G	T	A	K	E	H	A	K	W	S	P
UniRef90_A0A016VXZ2	G	F	G	K	E	H	A	K	W	N	P
UniRef90_I1G6S9	G	F	G	K	E	H	A	K	W	S	P
UniRef90_U9U469	G	C	G	K	E	H	A	K	W	S	P
UniRef90_B9HS44	G	I	G	K	D	H	A	K	W	S	P
UniRef90_V2XDD5	G	L	A	K	E	H	A	K	W	S	P
UniRef90_R7TNL5	G	F	A	K	E	H	A	K	W	N	P
UniRef90_UPI000265762B	G	F	G	K	E	H	A	K	W	N	P
UniRef90_H3E9U3	G	F	G	K	E	H	A	K	W	N	P
UniRef90_B8PBS2	G	V	A	K	E	H	A	K	W	S	P
UniRef90_R4X6D5	G	V	A	K	E	H	A	K	F	A	P
UniRef90_C4WTK3	G	F	G	K	E	H	A	K	W	N	P
UniRef90_A2ATX1	G	I	G	K	D	H	A	K	F	S	P
UniRef90_T1G647	G	F	A	K	E	H	A	K	W	N	P
UniRef90_A0A024GLH5	S	I	G	K	D	H	A	K	F	S	P
UniRef90_A8PAX3	G	F	G	K	E	H	A	K	W	N	P
UniRef90_K5XBU6	G	V	G	K	E	H	A	K	W	S	P
UniRef90_F7B0W1	G	V	G	K	D	H	A	K	F	S	P
UniRef90_W4K3P5	G	L	A	K	E	H	A	K	W	S	P
UniRef90_G4LUY0	G	F	G	K	E	H	A	K	W	N	P
UniRef90_W2RKY2	G	V	G	K	D	H	A	K	F	S	P
UniRef90_F4Q3D5	G	V	G	K	E	H	A	K	W	I	P
UniRef90_E1ZQP2	G	V	G	D	D	H	A	K	W	S	P
UniRef90_U9TS65	G	V	A	K	E	H	A	K	W	S	P
UniRef90_U5HCM2	G	K	A	L	E	H	A	K	W	S	P
UniRef90_M2XDV5	G	I	G	K	E	H	A	K	W	S	P
UniRef90_Q5CSH3	G	I	G	K	F	H	A	K	W	I	P
UniRef90_S8FH34	G	I	A	K	E	H	A	K	W	S	P
UniRef90_S2JI72	G	V	G	R	E	H	A	K	W	S	P
UniRef90_F9WVV9	G	I	A	K	E	H	A	K	W	A	P
UniRef90_K5W688	G	I	A	K	E	H	A	K	W	S	P

	50	60	70	80
UniRef90_N1PYP9	DGRDCT	CD	DDYCC	DNCS
UniRef90_G1KJC2	YKSE	EE	DEE	DEE
UniRef90_B4N0H9	YRTE	SE	ENEA	EQE
UniRef90_H2M2M7	YKNT	SE	GEQA	SEED
UniRef90_L8H8M4	FKKK	PG	EEEA	ETTT
UniRef90_S8EG49	FSTR	CD	DA	GGCC
UniRef90_UPI00044110FE	YTRD	CC	CE	VRCC
UniRef90_I0YJE2	YKGF	VF	ED	ADGE
UniRef90_M7X6B0	YKNE	CD	DD	QQAD
UniRef90_UPI0004560877	YAKR	MP	GG	DDAD
UniRef90_M9LUN7	DHRD	CA	GG	EDDG
UniRef90_W2RZZ1	YTRD	CC	YT	CC
UniRef90_R2RGL5	YTRD	CC	YT	CC
UniRef90_R7UBF7	YRSED	N	E	E
UniRef90_L8X0D5	FPTD	SA	AV	G
UniRef90_M2MTP9	YTRD	CC	CA	CC
UniRef90_F2TZG3	YMRD	CC	CC	CC
UniRef90_A9URC4	YPRD	CC	CC	CC
UniRef90_D2W3Y1	YTS	D	CC	CC
UniRef90_UPI00044083AE	YNRD	CC	CC	CC
UniRef90_M5ED40	FKLQ			
UniRef90_V3Z1P0	YRAE	GD	TE	GT
UniRef90_D3TQZ8	YRGD	ED	SD	Q
UniRef90_E9CIH1	TRD	PT	DA	SA
UniRef90_G3ND06	YRST	GE	AS	AE
UniRef90_G4TQ08	DA	P	Q	N
UniRef90_I1I1S1	FSTR	CD	DA	GGCC
UniRef90_F4PDW3	FREG	S	DD	DP
UniRef90_K1RM70	YKSE	E	GE	D
UniRef90_H9J5X2	YKSE	E	GE	D
UniRef90_H6BPX3	W	L	K	W
UniRef90_B6TCC3	FSTR	CD	DA	GGCC
UniRef90_A8N5W0	YTRD	CC	CC	CC
UniRef90_UPI0002652CC0	YREE	V	N	DE
UniRef90_UPI0004404CAB	YRNQ	G	DE	E
UniRef90_W1Q8B1	W	L	D	P
UniRef90_F4W6A3	YSP	N	D	K
UniRef90_Q93338	YTRD	CC	CA	CC
UniRef90_Q94616	FQH	P	L	PG
UniRef90_A0A058Z9D0	FK	F	A	E
UniRef90_G4T8F0	YTRD	CD	CE	GL
UniRef90_K7J3Y0	YPSK	T	A	D
UniRef90_Q5BAL5	WYN	K	G	S
UniRef90_S7ZRQ4	WYR	K	P	S
UniRef90_UPI00045600F8	D	H	G	D
UniRef90_UPI0004621A02	FSP	R	L	P
UniRef90_R4XFB4	FKR	P	A	E
UniRef90_C5DLD4	W	V	D	T
UniRef90_W6MRC2	W	V	D	T
UniRef90_E2BIJ1	Y	P	S	N
UniRef90_M2PBE5	F	E	D	A
UniRef90_I1FUC4	F	E	D	A
UniRef90_UPI000252BC62	Y	P	S	S
UniRef90_D7FHB9	Y	N	D	C
UniRef90_N6U2F2	S	V	A	D
UniRef90_C4XY85	W	L	D	P
UniRef90_UPI0004407F59	F	M	R	E
UniRef90_C1GK69	W	F	R	Q
UniRef90_E9BZM2	Y	L	A	E
UniRef90_W9XDV7	W	F	F	E
UniRef90_E9GTW6	F	R	A	E
UniRef90_D3AXW3	Y	T	R	D
UniRef90_A0A026WCW5	F	P	Q	N
UniRef90_B6AI35	F	K	D	R
UniRef90_Q39212	F	C	E	D
UniRef90_R7SMG9	F	R	P	G
UniRef90_Q0UUA6	W	Y	K	K
UniRef90_A4RSP9	K	P	Y	E
UniRef90_D5GKC0	L	S	W	Y
UniRef90_B0W725	Y	K	T	N
UniRef90_B6GYD0	W	F	K	K
UniRef90_B8NHK8	W	F	K	K
UniRef90_C5P1D3	W	F	R	M
UniRef90_E3JPW7	W	Q	R	D
UniRef90_G3B4V4	W	V	D	T
UniRef90_F8N1F7	F	L	K	W
UniRef90_L7MJV0				
UniRef90_L7MJV0				
UniRef90_Q014V0	F	E	Y	R
UniRef90_T2MJF5	F	P	P	A
UniRef90_K8ENH8	L	P	S	E
UniRef90_J7RFU5	W	L	D	Q
UniRef90_F4Q915	F	K	Q	A
UniRef90_C1EBY2	F	P	Y	D
UniRef90_ROGHJ5	Y	L	S	A
UniRef90_F6YKL2	Y	S	R	G
UniRef90_B0D0L9	S	T	R	D
UniRef90_A3GGP5	W	V	D	K
UniRef90_S7RW72	E	T	R	E
UniRef90_UPI00042C8115	Y	R	N	Q
UniRef90_D7FPF8	F	E	E	G
UniRef90_B7Q825	Y	R	E	K

UniRef90_N1PYP9
UniRef90_G1KJC2
UniRef90_B4N0H9
UniRef90_H2MZM7
UniRef90_L8H8M4
UniRef90_S8EG49
UniRef90_UPI00044110FE
UniRef90_I0YJE2
UniRef90_M7X6B0
UniRef90_UPI0004560877
UniRef90_M9LUN7
UniRef90_W2RZZ1
UniRef90_R2RGL5
UniRef90_R7UBF7
UniRef90_L8X0D5
UniRef90_M2MTP9
UniRef90_F2TZG3
UniRef90_A9URC4
UniRef90_D2W3Y1
UniRef90_UPI00044083AE
UniRef90_M5ED40
UniRef90_V3Z1P0
UniRef90_D3TQZ8
UniRef90_E9CIH1
UniRef90_G3ND06
UniRef90_G4TQ08
UniRef90_I1IIS1
UniRef90_F4PDW3
UniRef90_K1RM70
UniRef90_H9J5X2
UniRef90_H6BPX3
UniRef90_B6TCC3
UniRef90_A8N5W0
UniRef90_UPI0002652CC0
UniRef90_UPI0004404CAB
UniRef90_W1Q8B1
UniRef90_F4W6A3
UniRef90_Q93338
UniRef90_Q94616
UniRef90_A0A058Z9D0
UniRef90_G4T8F0
UniRef90_K7J3Y0
UniRef90_Q5BAL5
UniRef90_S7ZRQ4
UniRef90_UPI00045600F8
UniRef90_UPI0004621A02
UniRef90_R4XFB4
UniRef90_C5DLD4
UniRef90_W6MRC2
UniRef90_E2BIJ1
UniRef90_M2PBE5
UniRef90_I1FUC4
UniRef90_UPI000252BC62
UniRef90_D7FHB9
UniRef90_N6U2F2
UniRef90_C4XY85
UniRef90_UPI0004407F59
UniRef90_C1GK69
UniRef90_E9BZM2
UniRef90_W9XDV7
UniRef90_E9GTW6
UniRef90_D3AXW3
UniRef90_A0A026WCV5
UniRef90_B6A135
UniRef90_Q39212
UniRef90_R7SMG9
UniRef90_Q0UUA6
UniRef90_A4RSP9
UniRef90_D5GKC0
UniRef90_B0W725
UniRef90_B6GYD0
UniRef90_B8NHK8
UniRef90_C5P1D3
UniRef90_E3JPW7
UniRef90_G3B4V4
UniRef90_F8N1F7
UniRef90_L7MJV0
UniRef90_L7MJV0
UniRef90_Q014V0
UniRef90_T2MJF5
UniRef90_K8ENH8
UniRef90_J7RFU5
UniRef90_F4Q915
UniRef90_C1EBY2
UniRef90_R0GHJ5
UniRef90_F6YKL2
UniRef90_B0D0L9
UniRef90_A3GGP5
UniRef90_S7RW72
UniRef90_UPI00042C8115
UniRef90_D7FPF8
UniRef90_B7Q825

90 100 110 120
SQA GY P P R G S P I L S D P A Q Q Q G P L L C Q L L R R R P G G Q Q E E L K L K C V A K R
K H M E W V P L G S S Q A D N R G P V H H D D I L I A Q L L R R P G G Q Q E E L D L V L M H C V K
P K G K Q G Q I L Y N T E Q A D V F C L I H H D D I L I A Q L L R R P G G Q Q E E M D D V V M H C V K
K D I N W V P L I G N S A D V F A D H H D D I L I A Q L L R R P G G Q Q E E L E D D V V M H C V K
P V G G Q A E L F A D D P R S P A V H H D D I L I A K L L R R P G G Q Q E E L E V E V E C R C A K
D Y S V I Q A V D F S Y P S S R D D D Q G Q I V I V K L R R M Q G Q Q E E L V L R A I A R K
P T N K P E N F G H P I G K S D D V P P I L L V K L R M G G Q Q E E L R V R A I A R K
N H P D V R P V G Y P G G Y D P E N R G I L L V K M R K K N G Q Q E E L R L K A I A R K
G G V S Q E V G K P A T N P P R A V H H D D I L L A K L A K M R P G G Q Q E E L N D L E C I A V K
P K G S D Q E E D F A D C P P P A V Q D R I L L A K M R P G G Q Q E E L N D L E L H C E K
D S I E G P D F G R P V G H D G S M A P L M L V K M S K G G Q Q E E L D D L R C I A R K
D D R A D S I G Q P V I R D D P N G E G P P L L L K L R K H N G Q Q E E L D F T C C I A K K
P G G G Q K N F G H P V G K D P N V P P V L L L K L R K P G G Q Q E E L K L L C I A K K
P K G N Q Q E E L F K D S I C P V Q D D I L L A K L L R P G G Q Q E E L D L E M H C V K
G V G E Q V N D F G N N P P R H N R K P L L L A K L R K K G G Q D L K L R C I A K K
H A E E L P P R G F P I L M D P E N Q K G P L L L C C C L R K K G G Q D L K L R C I A K K
L D G P D T S V V P V A D Q S I Q G N H I V I V I C K I R K Q G Q Q E E L K L T C Y A R K
G D F M A V K P I L S A R S R D N E R N G I T I V K L A K R K G G Q Q R I Q L T A F A K K
N P S C A P C T L S A T S R E S N E H N G I T I V K L A K R K G G Q Q R I Q L T A F A K K
P N K R P E K F G C P V G Q E N E G V H P V L I C K M R P G G Q Q L K A R C I A K K
P K G D Q A E L M S D S D P P R P I H P D D I L V I A K M A P G G Q A M D I E M L H C E K
P V G N Q Q E E L F M S K E G D T K P V I H D D I L V I A K L R P G G Q A M D I E M L H C E K
P K G K Q A Q I Y S E S D V G P I V D D D I L I T Q M R P G G H E L D L R L A A V K
P K G D Q E A Q F Q D A P I A P V H D D I L I A K L R P G G Q A V L A C E M H C I V K
P I G N Q Q A D V F A S D P P R A A N I L I A Q L L R P G G Q Q E E L D V I M H C V K
P Q G E Q E T I F A S D P P R A A N I L I A K L R P E Q Q S I H L E M H A V K
D P K V I Q Q A L G T A D S P Y R D S D H R D D I L I V K L R R P G G Q E E L R L R A I A R K
P Q G D Q Q E E K F A D S P P R Y Y Y G D I L I T K L R P G G Q E E L E A E L H C Q K
P M K G Q D T I F K E G D L R P V N D D I L I A K L R P G G Q E E I D I R V F C N K
P I G N Q A T V Y K E A D V G P V H K D I L I S K M R P G G H E L D L Q M I A V K
P Q G Q Q E R F K D G P I E P V S P D I L I A K L R P G G Q E E I D M V L H A H L
D P K V C P T D P F G A N A S N E N R G I L I V K L R R K G G Q E E L R L R A I A R K
P D Y M Q E E E T G H P V G K N P G T P P V L I C K L R K K G Q E E L R V V K C I A K K
P L E N Q E E T Y G P V K A F A P V N K D I L I A K L R P G G Q E E L D L K M H C V K
H K G N Q A D L F P E G T I R P V H D D I L I A Q L L R P G G Q E E I D L L M H C V K
P N G R Q Q V T Q F A N C P V V P C D P D I L I A K L R P N G Q E E I S L R V M H C V L
K D I K W V P I G R Q A E K V F K A E N D I L I C K M R P G G H E I H L R V M H A V K
H N L D T R E R G S T R D E F H N R E E I L I V K L R K G G Q E E L N L K A Y V K K
P Q G R Q A E R F A D N P I R V V N D I V V A K L R P G G Q E E L D D L E A H A I L
P Q G Q Q A E R F A D N P I R V V H D A I E I R L R P G G Q E E L D D L D M H C V K
S G G R G E D F G L P V I S K S R N G H P I A S L R K K G Q E E L K L R C E A K K
K D I K W V P I G R Q N E L Y P D N G D D I L I C K M R P N G Q E E I H A Y M H A V K
P V G R Q E E F F T G E N I R A V N P D I L I V A K L R P N G Q K I E D L E M H C I K
K D I T F S P V G R Q E E I R P V N P D I L I A K L R P G G Q K I E D L E M H C I K
P A P K H P D F G K P V G H D T S T P P I I V K M T R G G Q E E L D N V E L H A I K
P Q G E Q E S V F G K D L V P G T A T N K D I V I A K L R P G G Q V I D V L E H A I K
P M G E Q S N T L S R F K I G P T Q D D I L I A K L R P G G Q E E I D L E M H A I L
P Q G K Q E E T F A K N P V V P A C D P D I L L A K L R P G G Q E E I S L R A H C I L
P Q G R Q V E V F A D Q P V V P C D P D I L L V K L R Y G Q E E V S L R V H C I L
K D I K W V P I G R Q A E M F P N G N D I L I S K M R P G G H E I H V Y M H A F K
P Q G E Q E V F A D K P P A P T N K E I V L A K L A P G G Q E E I N V L E H A I K
P I E D Q S Q L F S H V H D I R P V D K D I L I A K L R P G G Q E E I N V L R L I C V K
R D I K W V P I G R Q A E L Y P R G N D I L I C K M R P G G Q E E L H A F M H A V K
D P R L R A V H F A P S D Q T S Q D A G I I A K L A K G G R M Q D L K T A V A K K
P I G S Q R S R F N E S D V T P I H Q Q D I L I A K M R P G G H E I Q D L K L F A T K
P Q G R Q A E L F K D S P V V P C D P D I L L A K L R P G G Q E E I S L R V H C V L
P Q G E Q A D V P Q L K P P G P T N P D I V L A K L R P G G Q V I D M E C H A I K
K D I T F Q P V G R Q E A Y F P E P D G I L I A K L R P G G Q K I D M E C H A I K
D E S V I P L S Q R D A S G S E Q H D I V V L V K L G A G G Q R I K L T A I A K K
V Q G S Q E E Q F R D G P I E P V S P D I L I A K L R P G G Q E E I D I M H A H L
P I G G Q K D I F T P D A V I G P V V D D K I L I A K M R P G G H E L D I K L H A M K
N D H V I P V G S S D G R P P D T V I P I V K L H R G G Q E E V K L R A I A K K
K D I K W V P I G R Q A D M F P V N D E D I L I A K L R P G G H E I H A Y M H A V K
L P V P N I P I G R Q A D V T P V N D E G I L I A K L L G P G G Q E E I T A R M T A T K
D P T V I P V D F T S N S S T S E H K G I I A K L R R P G G Q E E L K L K A L A R K
P Q G E Q A T V F A S R P P A A T N P D I V L A K L R P G G Q V I E M L H A I K
K D L V W E P L G K Q F D E F P S G E D I L I V K M R P G G Q K I Q L L S M H A I K
D E R V K P S F G G T G G G S A K S G G I L I A K L R K N G Q Q L S L K C I A R K
P A G R Q K S F A H D P V R A A N P D I L I A K L R P G G Q E E L D L T M H C I K
P V I G N Q A S I Y K E A D V G P I D D D I L I S R M R P G G H E F D L K L F A V K
P V G R Q E E Q Y F G D G A I A P V N P D I L I A K L R P G G Q K I E M E L H C Q K
P V G R Q E E Q F F T E D A I Q P V N P D I L I A K L R P G G Q K I D D I E M H C I K
K D I V F E P V G R Q A A L F P A Y P D I L L A K L R P G G Q K I D D I E M H C I K
P R E D G A H R G D F T M P G G E Q P G V L I T K L R K G G Q E E V R L K C R A I K
P Q G K Q V I E L F K G N A I R T A A D P N I L I A K L R P G G Q E E I S L R A H C I L
K D I K F V P K G R Q A A I R T A D P N I L I V A K M R P G G Q E E I D L T M H M H K
P L G S Q A E I F G N K P P R P V H D D I L A K L R P G G Q E E I D L K L H C V K
P L G S Q A E I F G N K P P R P V H D D I L L A K L R P G G Q E E I D L K L H C V K
P D G S Q R A E S F G E E L G C P V H D D I L L A K L A P G G Q E E I E L E C H C V K
P I G R Q A E K F S T N I V R P V F D D I L I A K L R P G G Q E E L D I R M H C V K
D A K F L P V N F H P I D S D S E P P G V L I V K L R K N Q E E L V V K C I A R K
P Q G K Q L E T F A D C P V V P S D P D I L L A K L R P N G Q E E I S L R V H C I L
P T E D Q E S M F G E N P E D P V H D D I P I V K L R P G G Q T V D L Q L Y C E K
G D Y T Q Y D T V K P V H Y A P S G H P I L I L K L R K N G Q E E I N M R C V A R K
P N G S R O G H J 5 P E F A D N P I A S D D I D I L I A K L A P G G Q E E I D L T M H M H K
L Q V T S R S R D N D P N D Y V I E Q D D I L I V K L R K G G Q E E L R L R A Y A K K
P Y P R G E Y F G H P V G K N P G V A P D I L I C K L R K K G Q E E I K V K C V A K K
P H G K Q A E L F K D L P V V A A P D I L I A K L R P G G Q E E I S L R A H C I L
P S V F N P Q F G H P V G K D P S L P P V L I A K I R K G G Q E E L K V R C L A K R
P L G N Q A D L F P E G T I R P V H D D I L I A Q L R P G G Q E E V D L L M H C V K
P H G D Q Q A D L R F E G G L R P V H D D I L I A K L R P G G Q E E I V A E M H C R K
P I G S Q A E L F G N K P P V Y D D I L A K L R P G G Q E E I D L K L H C M K

UniRef90_N1PYP9	G I A K E H A K W A P
UniRef90_G1KJC2	G I G K D H A K F S P
UniRef90_B4N0H9	G L G K D H A K F S P
UniRef90_H2MZM7	G L G K D H A K F S P
UniRef90_L8H8M4	G E G K E H A K W S P
UniRef90_S8EG49	G T G K D H A K W S P
UniRef90_UPI00044110FE	G I A K E H A K W S P
UniRef90_I0YJE2	G L G K D H A K W P
UniRef90_M7X6B0	G R A L E H A K W A P
UniRef90_UPI0004560877	G L G K D H A K F S P
UniRef90_M9LUN7	G F A K E H A K W S P
UniRef90_W2RZZ1	G L A K E H A K W A P
UniRef90_M2RGL5	G T A K E H A K W S P
UniRef90_R7UBF7	G L G Q D H A K F S P
UniRef90_L8X0D5	G V G Q D H A K F S P
UniRef90_M2MTP9	G I A K E H A K W A P
UniRef90_F2TZG3	G V G K E H A K W P
UniRef90_A9URC4	G F G K E H A K W C P
UniRef90_D2W3Y1	G V G K G H A K W S P
UniRef90_UPI00044083AE	G I A K E H A K W S P
UniRef90_M5ED40	G I G K D H A K F S P
UniRef90_V3Z1P0	G I G K D H A K F S P
UniRef90_D3TQZ8	G I G K D H A K F S P
UniRef90_E9CIH1	S I G R D H A K F S P
UniRef90_G3ND06	G I G Q D H A K F S P
UniRef90_G4TQ08	S I G R D H T K F S P
UniRef90_I1IIS1	G I A K D H A K W S P
UniRef90_F4PDW3	G I G K E H A K W S P
UniRef90_K1RM70	G I G K D H A K F S P
UniRef90_H9J5X2	G I G K D H A K F S P
UniRef90_H6BPX3	G I G A D H A K F S P
UniRef90_B6TCC3	G I G K D H A K W S P
UniRef90_A8N5W0	G I A K E H A K W S P
UniRef90_UPI0002652CC0	G I G K D H A K F S P
UniRef90_UPI0004404CAB	G I G K D H A K F S P
UniRef90_W1Q8B1	G I G A D H A K F S P
UniRef90_F4W6A3	G L G K D H A K F S P
UniRef90_Q93338	G F G K E H A K W N P
UniRef90_O94616	G T G Q D H A K F S P
UniRef90_A0A058Z9D0	G I G K H A K W S P
UniRef90_G4T8F0	G I A K D H A K W S P
UniRef90_K7J3Y0	G I G K D H A K F S P
UniRef90_Q5BAL5	G I G A D H A K F S P
UniRef90_S7ZRQ4	G L G A D H A K F S P
UniRef90_UPI00045600F8	G F A K E H A K W S P
UniRef90_UPI0004621A02	G V G K E H A K W S P
UniRef90_R4XFB4	G L G Q D H A K F S P
UniRef90_C5DLD4	G I G S D H A K F S P
UniRef90_W6MRC2	G L G S D H A K F S P
UniRef90_E2BIJ1	G I S K D H A K Y S P
UniRef90_M2PBE5	G V G K E H A K W N P
UniRef90_I1FUC4	G I G K D H A K F S P
UniRef90_UPI000252BC62	G I G K D H A K F S P
UniRef90_D7FHB9	G L A K E H A K W S P
UniRef90_N6U2F2	S N G K D H A K F S P
UniRef90_C4XY85	G V G S D H A K F S P
UniRef90_UPI0004407F59	N V G K E H A K W S P
UniRef90_C1GK69	G I G A D H A K F S P
UniRef90_E9BZM2	G L G K E H A K W N P
UniRef90_W9XDV7	G K G G D H A K F S P
UniRef90_E9GTW6	G T G R E H A K F S P
UniRef90_D3AXW3	G V G K E H A K W S P
UniRef90_A0A026WCW5	G V G K D H A K F S P
UniRef90_B6AI35	G I G K F H A K W P
UniRef90_Q39212	G I G K D H A K W S P
UniRef90_R7SMG9	G V G K E H A K W S P
UniRef90_Q0UUA6	G L G Q D H A K F S P
UniRef90_A4RSP9	G T G K D H A K W S P
UniRef90_D5GKC0	G T G Q D H A K F S P
UniRef90_B0W725	G V G K D H A K F S P
UniRef90_B6GYD0	G I G A D H A K F S P
UniRef90_B8NHK8	G I G A D H A K F S P
UniRef90_C5P1D3	G I G Q D H A K F S P
UniRef90_E3JPW7	G I G Q E H A K W S P
UniRef90_G3B4V4	G V G S D H A K F S P
UniRef90_F8N1F7	G V G S D H A K F S P
UniRef90_L7MJV0	G T G Q V H A K F S P
UniRef90_L7MJV0	G T G Q V H A K F S P
UniRef90_Q014V0	G T G Q E H S K W S P
UniRef90_T2MJF5	G I G K D H A K F S P
UniRef90_K8ENH8	G I G K D H A K W S P
UniRef90_J7RFU5	G I G S D H A K F S P
UniRef90_F4Q915	N I G R E H K W S P
UniRef90_C1EBY2	G V G R D H A K W Q P
UniRef90_R0GHJ5	G L G K T H A K W S P
UniRef90_F6YKL2	G F G K E H A K W N P
UniRef90_B0D0L9	G T A K E H A K W S P
UniRef90_A3GGP5	G V G D H A K F S P
UniRef90_S7RW72	G L A K E H A K W S P
UniRef90_UPI00042C8115	G I G K D H A K F S P
UniRef90_D7FPF8	G L G K D H A K F S P
UniRef90_B7Q825	G T G Q D H A K F S P

UniRef90_A0A059LLC2	G	V	G	E	D	H	A	K	F	S	P
UniRef90_B9GFY9	G	M	G	K	T	H	A	K	W	S	P
UniRef90_M7PLN2	G	I	G	Q	D	H	A	K	Y	S	P
UniRef90_J9I4J8	G	T	G	K	L	H	A	K	W	S	P
UniRef90_I4YBL8	G	I	N	K	E	H	A	K	W	G	P
UniRef90_UPI0004413648	G	R	G	N	E	H	A	K	W	S	P
UniRef90_T1KCG6	G	I	G	R	D	H	A	K	F	S	P
UniRef90_D8QCE2	G	I	A	K	E	H	S	K	W	S	P
UniRef90_R8BYC5	G	I	G	A	D	H	A	K	F	S	P
UniRef90_B9S9W7	G	L	G	K	T	H	A	K	W	S	P
UniRef90_B6KGB1	G	I	G	K	V	H	A	K	W	S	P
UniRef90_R1CTV8	G	L	G	K	T	H	S	K	W	S	P
UniRef90_L8WJX6	G	T	A	K	E	H	A	K	W	S	P
UniRef90_R1DHL1	G	I	G	K	E	H	A	K	W	S	P
UniRef90_A0A017SIW5	G	I	G	A	D	H	A	K	F	S	P
UniRef90_E4ZXG8	G	I	G	Q	D	H	A	K	F	S	P
UniRef90_S4NXL6	G	I	G	K	D	H	A	K	F	S	P
UniRef90_K5X518	G	V	G	K	D	H	A	K	F	S	P
UniRef90_F6YSX7	G	V	G	Q	D	H	A	K	F	S	P
UniRef90_F4S444	G	I	G	K	D	H	A	K	F	S	P
UniRef90_A7TPZ5	G	L	G	A	D	H	A	K	F	S	P
UniRef90_D6WP50	S	N	G	R	D	H	A	K	F	S	P
UniRef90_A4S0F8	G	I	G	Q	E	H	A	K	W	S	P
UniRef90_H3AXA9	G	I	G								
UniRef90_D8PQE9	G	V	G	K	D	H	A	K	F	S	P
UniRef90_V4P7Y7	G	I	G	K	T	H	A	K	W	S	P
UniRef90_V5I0T0	G	I	G	A	D	H	A	K	F	S	P
UniRef90_W9XB85	G	I	G	G	D	H	A	K	F	S	P
UniRef90_C4JJM6	G	L	G	Q	D	H	A	K	F	S	P
UniRef90_U6IM87	G	F	G	K	E	H	A	K	W	N	P
UniRef90_G1XAZ6	G	I	G	Q	D	H	A	K	F	S	P
UniRef90_UPI00042B30F2	G	M	G	K	T	H	A	K	W	S	P
UniRef90_Q6FXP6	G	E	G	K	D	H	A	K	F	S	P
UniRef90_A7AQ72	G	I	G	K	T	H	A	K	W	S	P
UniRef90_A0A044U881	G	L	G	R	D	H	A	K	F	S	P
UniRef90_I4YFV5	G	L	G	Q	D	H	A	K	F	S	P
UniRef90_Q01F02	G	T	G	K	D	H	A	K	W	S	P
UniRef90_K1Y256	G	V	G	S	D	H	A	K	F	S	P
UniRef90_UPI000455EE0E	G	V	G	K	D	H	A	K	F	S	C
UniRef90_C5M6J2	G	I	G	S	D	H	A	K	F	S	P
UniRef90_S7RLW8	G	V	G	K	D	H	A	K	F	S	P
UniRef90_U5DCR5	G	L	G	K	T	H	A	K	W	S	P
UniRef90_G0T0N0	G	I	G	K	D	H	A	K	W	S	P
UniRef90_D8RH60	G	I	G	K	T	H	A	K	W	S	P
UniRef90_UPI00035A1DFB	G	I	G	K	D	H	A	K	F	S	P
UniRef90_B2A971	G	V	G	S	D	H	A	K	F	S	P
UniRef90_J3QB55	G	I	A	K	D	H	A	K	F	S	P
UniRef90_M5G6J6	G	I	A	K	E	H	A	K	W	S	P
UniRef90_A8N510	G	V	G	K	D	H	A	K	F	T	P
UniRef90_U1HJ21	G	L	G	M	D	H	A	K	F	S	P
UniRef90_A9V9D0	G	V	G	K	T	H	A	K	W	S	P
UniRef90_J4DPE1	G	T	G	K	V	H	A	K	W	S	P
UniRef90_M1VXQ1	G	I	G	A	D	H	A	K	F	S	P
UniRef90_B6KLD3	G	V	G	K	T	H	A	K	W	S	P
UniRef90_E3K9Z5	G	I	A	K	D	H	A	K	F	S	P
UniRef90_B8MRS0	G	L	G	A	D	H	A	K	F	S	P
UniRef90_D8U6A9	G	R	G	K	E	H	A	K	W	S	P
UniRef90_R7YJM6	G	L	G	G	D	H	A	K	F	S	P
UniRef90_U6NL40	G	I	G	R	D	H	A	K	F	S	P
UniRef90_UPI0004449954	G	V	A	K	D	H	A	K	F	S	Q
UniRef90_N4VXB6	G	V	G	S	D	H	A	K	F	S	P
UniRef90_K0KLJ2	G	I	G	S	D	H	A	K	F	S	P
UniRef90_J4I2I9	N	V	G	K	V	H	A	K	W	S	P
UniRef90_T1J5W7	G	I	G	R	D	H	A	K	F	S	P
UniRef90_E6R474	G	V	G	A	D	H	A	K	F	S	P
UniRef90_W9QYH6	G	I	G	K	T	H	A	K	W	S	P
UniRef90_G3J8P4	G	I	G	A	D	H	A	K	F	S	P
UniRef90_V4UNK9	G	I	G	K	T	H	A	K	W	S	P
UniRef90_T1G2S8	G	I	G	K	D	H	A	K	F	S	P
UniRef90_A5DTC9	G	L	G	C	D	H	A	K	F	S	P
UniRef90_R7SCW2	G	T	G	A	D	H	A	K	F	S	P
UniRef90_D7UAJ8	G	M	G	K	T	H	A	K	W	S	P
UniRef90_B2WCA1	G	I	G	Q	D	H	A	K	F	S	P
UniRef90_A0A023B0I0	G	I	G	K	T	H	A	K	W	S	P
UniRef90_C5LCN7	G	V	G	K	M	H	A	K	W	N	P
UniRef90_M2XXQ9	G	V	G	K	E	H	A	K	W	S	P
UniRef90_A6R4R6	G	I	G	A	D	H	A	K	F	S	P
UniRef90_M2T8Z0	G	I	G	Q	D	H	A	K	F	S	P
UniRef90_F0ZYH1	N	I	G	R	E	H	I	K	W	S	P
UniRef90_UPI0004414E93	G	V	A	K	E	H	A	K	W	S	P
UniRef90_B0EJB9	G	L	G	Q	D	H	A	K	F	S	P
UniRef90_K4DD13	G	M	G	K	T	H	A	K	W	S	P
UniRef90_M0S179	G	I	G	K	I	H	A	K	W	S	P
UniRef90_C9S1I8	G	I	G	S	D	H	A	K	F	S	P
UniRef90_D8TPK6	G	I	G	K	D	H	A	K	F	I	P
UniRef90_D3B3A4	N	L	G	R	E	H	I	K	W	S	P
UniRef90_A9SM40	G	M	G	S	L	H	A	K	W	S	P
UniRef90_U5HJP4	G	I	G	K	D	H	A	K	W	S	P
UniRef90_A0A016PYN2	G	I	G	S	D	H	A	K	F	S	P
UniRef90_A0A023F271	G	I	G	K	D	H	A	K	F	S	P
UniRef90_UPI00032A666F	G	V	G	K	T	H	A	K	W	S	P
UniRef90_F8NR44	G	V	G	K	D	H	A	K	F	C	P

UniRef90_J9IMY5	G	L	G	K	T	H	A	K	W	S	P
UniRef90_M1UUX6	G	T	G	R	E	H	A	K	W	S	P
UniRef90_T5AH65	G	T	G	A	D	H	A	K	F	S	P
UniRef90_A0A024G378	G	I	G	K	E	H	A	K	W	S	P
UniRef90_G2Q686	G	V	G	S	D	H	A	K	F	S	P
UniRef90_M0WSU9	G	V	G	K	V	H	A	K	W	S	P
UniRef90_V4JVG1	G	I	G	K	T	H	A	K	W	S	P
UniRef90_UPI0002C64BBF	G	L	G	K	D	H	A	K	F	S	P
UniRef90_B3S4F3	G	T	G	A	D	H	A	K	F	S	P
UniRef90_P16925	G	T	G	K	M	H	S	K	W	N	P
UniRef90_Q4UFV7	G	I	G	K	V	H	S	K	W	S	P
UniRef90_H2WFC7	G	I	G	R	D	H	A	K	F	S	P
UniRef90_S8EGP7	G	V	G	K	E	H	A	K	W	S	P
UniRef90_C1BZA1	G	L	G	Q	D	H	A	K	F	S	P
UniRef90_UPI0002B42F50	G	M	G	K	T	H	A	K	W	S	P
UniRef90_J6EWL9	G	V	G	A	D	H	A	K	Y	S	P
UniRef90_L8FX09	G	I	G	A	D	H	A	K	F	S	P
UniRef90_M5WB66	G	I	G	K	T	H	S	K	W	S	P
UniRef90_W4JMB8	G	V	G	K	D	H	A	K	F	S	P
UniRef90_E0VYJ4	G	L	G	K	D	H	T	K	F	S	P
UniRef90_A0D2I2	G	V	G	K	R	H	A	K	W	S	P
UniRef90_I0YTG9	G	T	G	A	E	H	A	K	W	S	P
UniRef90_UPI00044182E4	S	V	G	K	D	H	A	K	F	C	P
UniRef90_G7E608	G	I	A	L	D	H	A	K	H	C	P
UniRef90_A0A059BYU3	G	V	G	K	T	H	A	K	W	S	P
UniRef90_V7BNG0	G	I	G	R	T	H	A	K	W	S	P
UniRef90_C5FSZ3	G	I	G	A	D	H	A	K	Y	S	P
UniRef90_G0RE40	G	I	G	A	D	H	S	K	F	S	P
UniRef90_G7IXS2	G	I	G	K	T	H	A	K	W	S	P
UniRef90_A0A023B7T7	G	L	G	K	I	H	T	K	W	S	P
UniRef90_V9DGN5	G	K	G	G	D	H	A	K	F	S	P
UniRef90_V2Y1G5	G	V	G	K	D	H	A	K	F	N	P
UniRef90_K2RIG0	G	I	G	S	D	H	A	K	F	S	P
UniRef90_C4R920	G	L	G	S	D	H	A	K	F	S	P
UniRef90_R1GU26	G	I	G	A	D	H	A	K	F	S	P
UniRef90_F0XE51	G	I	G	S	D	H	A	K	F	S	P
UniRef90_A8P6Y5	G	L	G	R	D	H	A	K	F	S	P
UniRef90_A2F4R6	G	I	G	R	N	H	A	K	W	S	P
UniRef90_F1L0W8	G	I	G	R	D	H	A	K	F	S	P
UniRef90_J4GNI8	G	I	A	K	E	H	A	K	W	S	P
UniRef90_A0A024J764	G	V	G	S	D	H	A	K	F	S	P
UniRef90_M2N9D3	G	I	G	M	D	H	A	K	F	S	P
UniRef90_C1MVZ5	G	V	G	R	D	H	A	K	W	Q	P
UniRef90_C1E0F4	G	Q	G	K	E	H	A	K	W	S	P
UniRef90_F2UC17	G	V	G	K	L	H	A	K	W	S	P
UniRef90_Q235X0	G	L	G	K	T	H	A	K	W	S	P
UniRef90_S8BXW2	G	M	G	K	T	H	A	K	W	S	P
UniRef90_H3FVS3	G	I	G	R	D	H	A	K	F	S	P
UniRef90_S3DCA3	G	Q	G	S	D	H	A	K	F	S	P
UniRef90_A7SL38	G	V	G	K	D	H	A	K	F	S	P
UniRef90_C5LDA1	G	I	G	K	I	H	A	K	W	S	P
UniRef90_M3CJH1	G	L	G	A	D	H	A	K	F	S	P
UniRef90_F6TR29	G	F	G	K	E	H	A	K	W	N	P
UniRef90_E3LHV2	G	T	G	R	D	H	A	K	F	S	P
UniRef90_S3BZ54	G	I	G	A	D	H	A	K	Y	S	P
UniRef90_W3XP53	G	V	G	S	D	H	S	K	F	S	P
UniRef90_W7TIN0	G	V	G	K	D	H	A	K	Y	S	P
UniRef90_J9K0P2	G	L	P	K	D	H	A	K	F	Q	
UniRef90_A3CWH9	G	T	G	K	E	H	A	K	W	Q	
UniRef90_B6AC64	G	T	G	K	T	H	A	K	W	S	P
UniRef90_E5S6Q3	G	I	G	R	D	H	A	K	F	S	P
UniRef90_UPI0002C3E404	G	L	G	Q	D	H	A	K	F	S	P
UniRef90_Q9AW23	G	L	G	K	E	H	S	K	W	N	P
UniRef90_A0A022QIU7	G	M	G	K	T	H	A	K	W	S	P
UniRef90_G2YZC4	G	T	G	R	D	H	A	K	F	S	P
UniRef90_UPI0004416F1F	G	I	S	K	E	H	A	K	F	S	P
UniRef90_UPI0002C33E47	G	I	G	K	T	H	A	K	W	S	P
UniRef90_J7M4H7	G	L	G	K	F	H	A	K	W		
UniRef90_A9BL73	G	I	G	K	E	H	A	K	W	S	P
UniRef90_I1GQN8	G	V	G	K	V	H	A	K	W	S	P
UniRef90_C1MRA1	G	D	G	K	E	H	A	K	W	S	P
UniRef90_M4FGX3	G	I	G	K	T	H	A	K	W	S	P
UniRef90_M7SAL9	G	F	G	W	D	H	S	K	Y	S	P
UniRef90_J3NX08	G	Y	G	W	D	H	A	K	F	S	P
UniRef90_R7QCA5	N	I	G	R	E	H	A	K	W	S	P
UniRef90_A8Q352	G	F	A	K	E	H	A	K	W	S	P
UniRef90_F9XBY9	G	T	G	A	D	H	A	K	F	S	P
UniRef90_L0AY30	G	L	G	K	T	H	S	K	W	S	P
UniRef90_G7E7N5	G	N	G	K	T	H	A	K	W	S	P
UniRef90_L7LSV1	G	F	G	K	E	H	A	K	W	N	P
UniRef90_Q5CPY6	N	I	G	R	V	H	A	K	W	S	P
UniRef90_B4FAR4	G	T	G	N	V	H	A	K	W	S	P
UniRef90_A2SSV7	N	Y	G	K	E	H	A	K	W	Q	P
UniRef90_I0A0E7	G	R	G	K	E	H	I	K	W	S	P
UniRef90_I7I8S9	G	T	G	K	L	H	A	K	W		
UniRef90_J7GAM7	G	I	G	L	E	H	A	K	W	S	P
UniRef90_A4HH22	N	L	A	K	T	H	A	K	F	M	P
UniRef90_E8R7Q4	G	R	G	K	E	H	A	K	W	S	P
UniRef90_Q8SSL9	N	V	G	K	V	H	A	K	W	S	P
UniRef90_UPI0003F48E4E	G	L	A	K	F	H	A	K	W	S	P
UniRef90_A9T5P0	G	S	G	N	I	H	A	K	W	S	P
UniRef90_B7G229	G	T	S	K	E	H	A	K	W	C	P

UniRef90_J8TJ70
UniRef90_BOCTH8
UniRef90_UPI0002658A5D
UniRef90_Q12ZR3
UniRef90_Q5KG24
UniRef90_M3A449
UniRef90_G4MQN0
UniRef90_N1PBK3
UniRef90_H8I735
UniRef90_F0Y1J0
UniRef90_L0B0C7
UniRef90_H9GUD4
UniRef90_K3XJ25
UniRef90_D7E8Q4
UniRef90_L1JYV0
UniRef90_Q4N473
UniRef90_D5U3F4
UniRef90_J8ZX59
UniRef90_F4X4P8
UniRef90_B5Y3D1
UniRef90_Q7RLX3
UniRef90_D8LXL7
UniRef90_U6IM36
UniRef90_W6KEL3
UniRef90_F2HIB5
UniRef90_J0RYG1
UniRef90_I3E110
UniRef90_DONVB1
UniRef90_E4XCX5
UniRef90_D5EC45
UniRef90_D2UXC7
UniRef90_D3RX00
UniRef90_A7IAH5
UniRef90_E0S711
UniRef90_S9WAD7
UniRef90_G0EF28
UniRef90_M5G5V5
UniRef90_X1XW65
UniRef90_L5LRT6
UniRef90_A7AWB4
UniRef90_D2RD94
UniRef90_Q7RN53
UniRef90_Q6C4T2
UniRef90_Q8TVB8
UniRef90_F2L3Y7
UniRef90_R9SN57
UniRef90_F0TBA8
UniRef90_G0QT24
UniRef90_R4WPS2
UniRef90_A3DMQ6
UniRef90_B8BWN8
UniRef90_B8GEG5
UniRef90_F7XMN5
UniRef90_I3TDW7
UniRef90_B8CCH8
UniRef90_S5ZUX9
UniRef90_K0SEJ9
UniRef90_UPI000359C8E5
UniRef90_U6KRY9
UniRef90_Q2NFZ6
UniRef90_A2BK79
UniRef90_U4L7M8
UniRef90_W7L8P7
UniRef90_F3KMA8
UniRef90_U6HYJ3
UniRef90_E1QSA7
UniRef90_C6LSX9
UniRef90_R0KMW6
UniRef90_L1I1H9
UniRef90_E5SQN3
UniRef90_G0UYR5
UniRef90_W9DQA6
UniRef90_K8F3D5
UniRef90_H1YWA0
UniRef90_L0KZP7
UniRef90_R0KLT4
UniRef90_S9V4X7
UniRef90_H2KQJ0
UniRef90_UPI00035E7323
UniRef90_A0DID7
UniRef90_D9PV73
UniRef90_P39471
UniRef90_Q46GD0
UniRef90_U6EDP0
UniRef90_J3PTY6
UniRef90_F4B765
UniRef90_DOA0L6
UniRef90_V6LY42
UniRef90_H2C8S5
UniRef90_W6LAR9
UniRef90_V6AS69
UniRef90_E1ZC65

UniRef90_J8TJ70
UniRef90_BOCTH8
UniRef90_UPI0002658A5D
UniRef90_Q12ZR3
UniRef90_Q5KG24
UniRef90_M3A449
UniRef90_G4MQN0
UniRef90_N1PBK3
UniRef90_H8I735
UniRef90_F0Y1J0
UniRef90_L0B0C7
UniRef90_H9GUD4
UniRef90_K3XJ25
UniRef90_D7E8Q4
UniRef90_L1JYV0
UniRef90_Q4N473
UniRef90_D5U3F4
UniRef90_J8ZX59
UniRef90_F4X4P8
UniRef90_B5Y3D1
UniRef90_Q7RLX3
UniRef90_D8LXL7
UniRef90_U6IM36
UniRef90_W6KEL3
UniRef90_F2HIB5
UniRef90_J0RYG1
UniRef90_I3E110
UniRef90_DONVB1
UniRef90_E4XCX5
UniRef90_D5EC45
UniRef90_D2UXC7
UniRef90_D3RX00
UniRef90_A7IAH5
UniRef90_E0S711
UniRef90_S9WAD7
UniRef90_G0EF28
UniRef90_M5G5V5
UniRef90_X1XW65
UniRef90_L5LRT6
UniRef90_A7AWB4
UniRef90_D2RD94
UniRef90_Q7RN53
UniRef90_Q6C4T2
UniRef90_Q8TVB8
UniRef90_F2L3Y7
UniRef90_R9SN57
UniRef90_F0TBA8
UniRef90_G0QT24
UniRef90_R4WPS2
UniRef90_A3DMQ6
UniRef90_B8BWN8
UniRef90_B8GEG5
UniRef90_F7XMN5
UniRef90_I3TDW7
UniRef90_B8CCH8
UniRef90_S5ZUX9
UniRef90_K0SEJ9
UniRef90_UPI000359C8E5
UniRef90_U6KRY9
UniRef90_Q2NFZ6
UniRef90_A2BK79
UniRef90_U4L7M8
UniRef90_W7L8P7
UniRef90_F3KMA8
UniRef90_U6HYJ3
UniRef90_E1QSA7
UniRef90_C6LSX9
UniRef90_R0KMW6
UniRef90_L1IH90
UniRef90_E5SQN3
UniRef90_G0UYR5
UniRef90_W9DQA6
UniRef90_K8F3D5
UniRef90_H1YWA0
UniRef90_L0KZP7
UniRef90_R0KLT4
UniRef90_S9V4X7
UniRef90_H2KQJ0
UniRef90_UPI00035E7323
UniRef90_A0DID7
UniRef90_D9PV73
UniRef90_P39471
UniRef90_Q46GD0
UniRef90_U6EDP0
UniRef90_J3PTY6
UniRef90_F4B765
UniRef90_DOA0L6
UniRef90_V6LY42
UniRef90_H2C8S5
UniRef90_W6LAR9
UniRef90_V6AS69
UniRef90_E1ZC65

90 100 110 120
P S P Q Q S P Y G P P D I D P T A S P I Q L A R L I S R G I E V I C K A Y K
P A G E Q E E V F A G N P P A P T N P N I V L A K L R R P G G Q Q D V H V E L H A M K
P L E G Q E M L F A K N P P K P I H D D D I L I A K L R R V G G Q Q V D M K L E Y L K
D P N V I Q P I D L R V G G Q Q V V L E A I A H M
P N N R D P E M G Q P I G K N P T V P P I L I A K M G K G G Q Q E I D V L C K A Y K
H Q M T P P Q Q G K E N A I R P V N P N I L I A K L R R P G G Q Q T I D N V R M H H C C K
P A G Q Q T D Y F S D G A I V P V N P D I L I A K L R R P G G Q Q G I D N L E M H H A H I
H Q I Q F E P Q G D E E I I R P V N P D I L I A K L R R P G G Q Q R I N V R M H H A H I K
D P E T V P A D D N I P I V E L K E K G Q Q L V L T A V A R L
D P D V A P F V S K R E E T S Q E T G I A L V K L A K G Q Q E L K L T C I A R K L
E A E I N S N D E R K I P M P G A T D G I P I V K L K R G G Q S L S M K L T A T K
N P R V S Q S R D N D P N D Y A E Q D D I L I A K L R R P G G Q Q E R R L R P Y A K K
P E G S Q L S M A S P K P L G V K F K D I T I A R L G A G Q A I E L E A H A V K
D P G I Q P A D T N I P I T E L K E D Q Q R V V L E A L A H K
E V L R H G G G V K P V E Y D P E Y P V V I A K L K R N G Q I K L T A M L A K K
K D N P P K P V Y D D I P I T K L A P G Q E I D L N M L A K K
D P D V K P S F G K P I V K L I K P Q K V K L E A Y A R L
P L G N Q K R D T L V P R P R I K S G I P I T K I C N G Q Q E I E I R A Y A I K
D P R V S R H R E D D A S E Y S G E T S G E I L I V K L R K G Q E L K L R A Y A K K
P Q G D Q E E R L Q D I A S E Y A M H D D E I L I A K L R R G G Q S I E L E V H G R V
D H E P N I P M P K N N I E K M E N A I P I L T L S K N Q T I H M K L T A T K
K L G R Q L D L P E G Q I G L V H D D I L L T K L A P G Q A I D L E C Y A T A K
P L G Q E E I F T P N K P G A V F D A I L A K L N T E D E I I A R C V A V K
N E S L K I N D D E V Y P V S A E E K G V W L V T L G R C Q K L S L R I V I R K
L E R K P N L L N Q H V L K K I N F D S E I I T K L T T K G Q S I K L I C V A R K
D D P E T R P V H D D I P I V K L F E G Q Q V V L E A R A V L
G G D S I N I G D P R Y P S I L T R L G H K C K C I A V K
P Q G N Q E E R F G S I N R P V H E D I L M A K L R P G G Q S I A L E A H C R K
N P S V Q P A L G K S D D D Y N D S N Q I L I V K L R K G Q T L K L T A H A K
D P K I K A A D D I A V V K L K G G Q Q L V L E G I A K M
G D L K W V P I G N Q S T I R P V Y D D I L A K L N P G G Q S I H V Q C Y C V K
I P D D P E V K P V Y D N I P I V E L Y E G Q Q L M L E A V A R L
D P Q A A P V S D N I P I V K L I K G Q Q L V A R A V L
E E D V V V K S G P I T K L A R D Q G L K A R C I G R K
N E S L S I D T P E V Y P V S S E K S G V W L V T L G R S Q K L N V R V I R K
D P T V K P V Y P N I P I V L M A P G Q R L H V R A Y A R L
S H L R W K P V G A Q A P P S V A K Q D I V L V K L R P G Q E L N I E M H C V K
N H S I Y S G Q I N K M R P G H E F D I K L F A V K
S P R V S R N R D N D P N D Y V D Q D D I L V K L R K G G Q E L S R L R A Y A E K
N S R G N V N A P M P V P D G P G I P I V K L R K G G Q C L S K M T A T K
D P E I K P V Y D N I P I V E L Y E G Q Q L M I E A V A R L
P N E E Q K K K F E N N P K K V V E D N I L I T K L G S N Q S I E L I C F L E K
P M G N Q C Q W V K D E G L E V A N P D L I L A K L R P N Q S I N L T M F C H L
H P D V E P A F P D T L I T E V G E D Q Q R I R L E V I A V P
H P D V K P V Y P D I P I V K L V K G Q S I S L E A Y A R L
D P K I K P V Y D T I P I V K L V K E N E E I E L I A V A K L
D P D V V P V H D T I P L L K L K E G Q E V E L I A V A K L
F M N S D E D A V R P V K F Y S I L V P G I P I P I V K L K E G Q Q I H F E C E A M K
D P K V C P V D G A D G F D P N E Q R G I V K L R R R G Q E L R L R A I A R K
D P D V K P V Y D N I P I I V L G K N Q E I R L E A Y A R L
N M L V S P A H F E E E Q D E S H D E G I S I V K L E K G Q K V I E A R A E M
D P E A V P V D E K I P I V K L E K G Q K V I E A R A E M
D P E A V P A D S N I P I I D L K E G Q K L F I E A L A H A
T G D P D V R P V Y E K I P I V Q L L E N Q R I K L E A Y A R L
P Q G S Q V G S G V G G I R P I S E D I L A K L R P G Q V I E L E A H A R K
G V E G A V I T S E A S S I E P V S E N I P I A K L A K G Q R L V L T A I A R M
N V Q V S P A H F E E E Q D N A H D E G I S I V K L G Q G H L R L K A I A R M
S P R V I P I V T S R N R D N D P N D Y P I V L V K L G Q G H L R L K A I A R M
P M S R Q K Q K F A Q D P P A P V H P D I L I T K L R P G G Q E I E L F G F L E K
D P A V K P V Y D T N P I V R L R E G Q E V L E A I A E L K
D P D V R P V Y D N M P I V M A P D Q E R L R L Q A Y A R L
R D L Q W R P A F G D D P V R A G N P D I V I A K L R P G Q E I V V T S H A I K
G D D P N V V P I S K N I P I V L L G A N Q Q R I T L E A K L R L
D E S V K P T S D K I P I V Q L A G Q Q R I T L E A Y A R L
P L P G Q E D A F K N S Y P A P V S R K V L L N K L G P G D E I M A R C L A V K
D D P E V R P V Y E D I P I V K L V P G Q K I V L E A Y A K L
P I G G Q K N W G T S L P A P L D P D I L A K L A P G Q R I F C E I Y C H K
P K D D Q N D L C R N V I E L K K D I P I A K L A P K Q R I E V N M I A I K
P I G K Q A E T F K S S P P A P V H D D I L I T R L P G G Q E L D M E M H C H K
D S R V I V P L R D D G Q E L I V T C V A R K
P L R S Q E E V S E D N R V F L V H P D I V L T R L G P G Q R L K L R A I A I K
D E R V I Q A A D Q N V P I T D L K E G Q E V L E A I A H M
P K G S Q E T K F G K E G I K T V H D D I L A K L V P G Q E I E L E A H C M K
N P G A V P V N P D I P I V K L D E D Q Q K V L E A R A E L
D D K V I Q P A D P N I P I A D L R E G Q K I V L E A I A H M
S D D T F I R S S P V I A K L G K N Q N L K V C I A R K
P L P G Q E E W A N S A V D D D V H P D I I L T K L G P G Q K L K L Q A V A V K
P L P G Q E E L F G E D Q P T V S P H I L I N K L A V G D E I E A R C V A V K
R E T G T E V V E P V S G D F P I V K L A P G Q T I E L E L Y V R L
F G Q V G E M A I R P V P I N G K E V G I P I T R L G K N Q S V H V R C H A L K
T P A V E P V Y P D I P I V K L G D E D E V L E A V A Q L
D Q M I T P V S G A I P I V L L G S K Q K I S L E A R L R L
D P K I Q P A D P N I P I V E L K K G Q K L V L E A I A H M
D P N L K P V L D T I P I V K L K E G Q E V R L E A I A Q L
P R E D G A H R G D F T M P N G E Q P G V L I T K L R K G Q E V R L E A C A R K
D P A V V P I S K D I P I V L L G K N Q K V S L E A R L R L
P I A K Q E E L A A R S E D R V H P D I V L T R L G P G Q R I K L R A I A I K
P F G N Q K Q R L N N V R P L I E N I A H G Q K I V L E L Y A H K
D P H V V P I S R D I P I V L L G K N Q K V S L E A K V R L
P L P G Q E E F G P S S P S D P E H N D I L T K L A P G Q K V K L E R A M A V K
D E T I K P V S D K I P I V Q L A P G Q K V K L E A Y A R L
V A R R R R H Y I H P V I G Y D R E D K G I L L V K M R R N Q E L K L R A V A R K

UniRef90_J8TJ70	G I A K H H A K W S P
UniRef90_BOCTH8	G V G K D H A K Y C P
UniRef90_UPI0002658A5D	G L G K T H A K F S P
UniRef90_Q12ZR3	G Y G N K H A K W Q
UniRef90_Q5KG24	G I A K H H A K W S P
UniRef90_M3A449	G L G A D H A K F S P
UniRef90_G4MQN0	G Y G W D H A K F S P
UniRef90_N1PBK3	G I G A D H A K F S P
UniRef90_H8I735	G H G K E H A K F Q P
UniRef90_F0Y1J0	G C G K E H A K W I P
UniRef90_L0B0C7	G L G K F H A K W
UniRef90_H9GUD4	G F G K E H A K W N P
UniRef90_K3XJ25	G V G K V H A K W S P
UniRef90_D7E8Q4	G L G K D N A K W Q
UniRef90_L1JYV0	G V G K M H S K W S P
UniRef90_Q4N473	G L G K V H S K W S P
UniRef90_D5U3F4	G R G K E H I K W S P
UniRef90_J8ZX59	G I G K D H A K W S P
UniRef90_F4X4P8	G F G K E H A K W N P
UniRef90_B5Y3D1	G V G K D H A K F S P
UniRef90_Q7RLX3	G I G K M H A K W I P
UniRef90_D8LXL7	G V G E D H A K W S P
UniRef90_U6IM36	G I G M D H A K F N P
UniRef90_W6KEL3	N L A K T H A K F M P
UniRef90_F2HIB5	G T G K M H A K W N P
UniRef90_J0RYG1	N T G T E H A K W Q
UniRef90_I3EI10	G I G K K H S K W S P
UniRef90_D0NVB1	G V G K D H A K F S P
UniRef90_E4XCX5	
UniRef90_D5EC45	G Y G H D H A K W Q
UniRef90_D2UXC7	G I G R S H A K W Q P
UniRef90_D3RX00	G T G K E H A K F Q P
UniRef90_A7IAH5	N K G K V H A K W Q P
UniRef90_E0S711	G I G R T H A K W S P
UniRef90_S9WAD7	N L A K V H A K F M P
UniRef90_G0EF28	S Y G K E H A K W F P
UniRef90_M5G5V5	S C G R D H A K Y S P
UniRef90_X1XW65	G I G K D H A K F S P
UniRef90_L5LRT6	G F G K E H A K W N P
UniRef90_A7AWB4	G L G K F H A K W M
UniRef90_D2RD94	G T G K E H A K Y Q P
UniRef90_Q7RN53	G I G K T H A K W S P
UniRef90_Q6C4T2	G F G H D H A K F S P
UniRef90_Q8TVB8	G L G L E H A K W K P
UniRef90_F2L3Y7	G R A K E H A K W Q
UniRef90_R9SN57	G F G K D H A K W M P
UniRef90_F0TBA8	G I G L E H S K W Q P
UniRef90_G0QT24	G I G K M H S K W S
UniRef90_R4WPS2	G L G K D H A K W S P
UniRef90_A3DMQ6	G R G K E H A K W S P
UniRef90_B8BWN8	G I S K E H A K W C P
UniRef90_B8GEG5	N L G K V H A K W Q P
UniRef90_F7XMN5	G Y G K E H A K W Q
UniRef90_I3TDW7	G R G R E H I K W S P
UniRef90_B8CCH8	G V G K D H A K F S P
UniRef90_S5ZUX9	G T G K E H A K W Q P
UniRef90_K0SEJ9	G I S K E H A K W C P
UniRef90_UPI000359C8E5	V E Q D H A K W N P
UniRef90_U6KRY9	G L G K T H A K W S P
UniRef90_Q2NFZ6	G L G S E H A K W Q
UniRef90_A2BK79	G Y G R E H A K W M P
UniRef90_U4L7M8	G L G K D H A K F S P
UniRef90_W7L8P7	G Y G K E H I K Y S P
UniRef90_F3KMA8	G R G T E H A K W N
UniRef90_U6HYJ3	G V G R D H A K F S P
UniRef90_E1QSA7	G R A R N H A K W Q
UniRef90_C6LSX9	G V G H T H A K F Q P
UniRef90_R0KMV6	G T G S E H G K W S P
UniRef90_L1IH90	G N N R G H A K W S P
UniRef90_E5SQN3	G I G K E H A K W N P
UniRef90_G0UYR5	G L G V V H A K W S P
UniRef90_W9DQA6	N Y G H K H A K W Q
UniRef90_K8F3D5	S I G A D H A K F S P
UniRef90_H1YWA0	N T G M E H A K W Q P
UniRef90_L0KZP7	G Y G N K H S R W Q
UniRef90_R0KLT4	G I G K M H S K W S P
UniRef90_S9V4X7	G L G I V H T K W S P
UniRef90_H2KQJ0	G V G R D H A K F S P
UniRef90_UPI00035E7323	G T G R K H A K W I P
UniRef90_A0DID7	G F G K M H A K W T P
UniRef90_D9PV73	G V G R D H A K W E P
UniRef90_P39471	G Y G K E H I K Y S P
UniRef90_Q46GD0	G Y G R D S V K W Q
UniRef90_U6EDP0	G Q G Q E H A K W Q P
UniRef90_J3PTY6	G I G Q E H A K W S P
UniRef90_F4B765	G Y G I E H A K F N P
UniRef90_D0A0L6	G I G A V H A K W T P
UniRef90_V6LY42	G L G K V H A K W S P
UniRef90_H2C8S5	G Y G K E H A K F M P
UniRef90_W6LAR9	G I G A V H T K W S P
UniRef90_V6AS69	G R G T D H A K W N
UniRef90_E1ZC65	G T G K D H A K W M P

UniRef90_F8AIQ5
UniRef90_D8M326
UniRef90_E3GZF2
UniRef90_A0RXU9
UniRef90_Q2FTA0
UniRef90_G0U4R6
UniRef90_E6N510
UniRef90_C3N054
UniRef90_L0A8X7
UniRef90_C9ZKR1
UniRef90_B0EHR6
UniRef90_G4VD46
UniRef90_A0B9L4
UniRef90_G3UXX5
UniRef90_G4RL48
UniRef90_U6KV52
UniRef90_B1L798
UniRef90_C3Z3J6
UniRef90_W6KIA5
UniRef90_G0TTN9
UniRef90_A4HA24
UniRef90_D3E2J8
UniRef90_K4DX57
UniRef90_A8MDY7
UniRef90_UPI00035C3F6C
UniRef90_G1Q7F7
UniRef90_A2ER03
UniRef90_A0A031LK31
UniRef90_F4BXF3
UniRef90_X1AZ03
UniRef90_M0SE79
UniRef90_X0UL11
UniRef90_UPI0003621DCB
UniRef90_A9BKT2
UniRef90_G7WKZ9
UniRef90_Q0W1V3
UniRef90_A0A059EYD9
UniRef90_E4XNL9
UniRef90_C4V751
UniRef90_Q28002
UniRef90_V4JHY3
UniRef90_I719X9
UniRef90_UPI000161C68B
UniRef90_C6LU00
UniRef90_M1VCT4
UniRef90_A6UW03
UniRef90_L0HKY5
UniRef90_F8AN60
UniRef90_F6BD45
UniRef90_D9Q275
UniRef90_U3AC08
UniRef90_J7G2H0
UniRef90_Q9YB53
UniRef90_S7XPP5
UniRef90_M5ENP0
UniRef90_V5I7S3
UniRef90_UPI0002C3E526
UniRef90_A5UN55
UniRef90_K0IHB5
UniRef90_H8ZEB8
UniRef90_I3T9I1
UniRef90_L2GLK3
UniRef90_T0L9M2
UniRef90_UPI00037EA28E
UniRef90_UPI00037C593A
UniRef90_B3TAN3
UniRef90_R4VXK9
UniRef90_J9D4P7
UniRef90_L2GNQ3
UniRef90_UPI00035F00D3
UniRef90_W2TR19
UniRef90_R9T5Y4
UniRef90_UPI0003F11F83
UniRef90_T0LRX7
UniRef90_T1GGD1
UniRef90_A4WNA4
UniRef90_D7DRW7
UniRef90_E0SQ92
UniRef90_L0I9U7
UniRef90_J3JFB7
UniRef90_C4V9J5
UniRef90_B7XJB4
UniRef90_T0LUK9
UniRef90_A8A8W5
UniRef90_M0MQ17
UniRef90_UPI000333E00B
UniRef90_I3EFC5
UniRef90_Q6KZP5
UniRef90_B3TBC2
UniRef90_V8NS85
UniRef90_A3MXZ5
UniRef90_Q9HJD9

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

UniRef90_F8AIQ5
UniRef90_D8M326
UniRef90_E3GZF2
UniRef90_A0RXU9
UniRef90_Q2FTA0
UniRef90_G0U4R6
UniRef90_E6N510
UniRef90_C3N054
UniRef90_L0A8X7
UniRef90_C9ZKR1
UniRef90_BOEHR6
UniRef90_G4VD46
UniRef90_A0B9L4
UniRef90_G3UXX5
UniRef90_G4RL48
UniRef90_U6KV52
UniRef90_B1L798
UniRef90_C3Z3J6
UniRef90_W6KIA5
UniRef90_G0TTN9
UniRef90_A4HA24
UniRef90_D3E2J8
UniRef90_K4DX57
UniRef90_A8MDY7
UniRef90_UPI00035C3F6C
UniRef90_G1Q7F7
UniRef90_A2ER03
UniRef90_A0A031LK31
UniRef90_F4BXF3
UniRef90_X1AZ03
UniRef90_M0SE79
UniRef90_X0UL11
UniRef90_UPI0003621DCB
UniRef90_A9BKT2
UniRef90_G7WKZ9
UniRef90_Q0W1V3
UniRef90_A0A059EYD9
UniRef90_E4XNL9
UniRef90_C4V751
UniRef90_Q28002
UniRef90_V4JHY3
UniRef90_I719X9
UniRef90_UPI000161C68B
UniRef90_C6LU00
UniRef90_M1VCT4
UniRef90_A6UW03
UniRef90_L0HKY5
UniRef90_F8AN60
UniRef90_F6BD45
UniRef90_D9Q275
UniRef90_U3AC08
UniRef90_J7G2H0
UniRef90_Q9YB53
UniRef90_S7XPP5
UniRef90_M5ENP0
UniRef90_V5I7S3
UniRef90_UPI0002C3E526
UniRef90_A5UN55
UniRef90_K0IHB5
UniRef90_H8ZEB8
UniRef90_I3T911
UniRef90_L2GLK3
UniRef90_T0L9M2
UniRef90_UPI00037EA28E
UniRef90_UPI00037C593A
UniRef90_B3TAN3
UniRef90_R4VXK9
UniRef90_J9D4P7
UniRef90_L2GNQ3
UniRef90_UPI00035F00D3
UniRef90_W2TRI9
UniRef90_R9T5Y4
UniRef90_UPI0003F11F83
UniRef90_T0LRX7
UniRef90_T1GGD1
UniRef90_A4WNA4
UniRef90_D7DRW7
UniRef90_E0SQ92
UniRef90_L0I9U7
UniRef90_J3JFB7
UniRef90_C4V9J5
UniRef90_B7XJB4
UniRef90_T0LUK9
UniRef90_A8A8W5
UniRef90_M0MQ17
UniRef90_UPI000333E00B
UniRef90_I3EFC5
UniRef90_Q6KZP5
UniRef90_B3TBC2
UniRef90_V8NS85
UniRef90_A3MXZ5
UniRef90_Q9HJD9

50 60 70 80

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

UniRef90_F8AIQ5 DD P D V K P V T P 100 P I V K L A E G Q R L V F N A Y A K L 120
UniRef90_D8M326 N P Y Y A P A H A T S Q A E A Q N N E N G I R I V S L A E G G Q R T L H V E C E A I L
UniRef90_E3GZF2 D P E I K P I S Y E N I P I I K L L A E E D E K I E L E A I A Q L
UniRef90_A0RXU9 D S S V K P I L S D T I P I V K L L A E E G Q R I K V E A Y A R L
UniRef90_Q2FTA0 D A V V R P A E D N I P I V K L L A E K N G Q R V V I E A Q A Y M
UniRef90_G0U4R6 P L P S Q E P W G T G Q S D D R V H P D I V L T R L G P G Q R I K L R A I A L K
UniRef90_E6N510 P E R H D T K V A P F D G N I P I V V L A P R Q K I E L E L Y V R L
UniRef90_C3N054 D P S I V P I S G D I P I V L L A G A N G Q R I S L E L A R L R L
UniRef90_L0A8X7 D A S I K P A Y P D T V L V L A P G S Q E I H L R V A Y A R L
UniRef90_C9ZKR1 D E G V Y P V S S E E R G V W L T L L G R S Q E I N L R V L I R K
UniRef90_B0EHR6 I G D K R V A P V N Y R N D V D P I V I T Q L G P R R Q N I H M V C Y V K K
UniRef90_G4VD46 P L A G Q E D H F N N N P I P V S S T I L N K L A L G G E K L E A R C V A V K
UniRef90_A0B9L4 D P S V R A A F D N I P I V V L L G E G E K L V I E G F A T L
UniRef90_G3UXX5 R H M T W V P L G N Q A D V F P E G D D I L I A Q L R P G G Q S I S M E A Y A R L
UniRef90_G4RL48 H P G V K Y P V S S T I P I V K L A K K N Q S I S M S C L A T K
UniRef90_U6KV52 L G A P G S Q Q G P P L P V P S P S D G P I V K L R K N Q T K L R F Q A I A R I
UniRef90_B1L798 D P L I Y P A N D K I P I I K M R K G Q K L R F Q A I A R I
UniRef90_C3Z3J6 P L P G Q E Q D D E D N Q V I K P V H D D I L I A K L R P G G Q E M D L K L H C V K
UniRef90_W6KIA5 T D S L K I D D E E V Y P V S S E E R G L W L T L L G R S Q E L K L R A M A V K
UniRef90_G0TTN9 P L P G Q E K K G D D A V F L V H P D I L L T K L A L G P G Q R I K L K A I A V K
UniRef90_A4HA24 G D S R I K P V Y D T I P L K L K E G D Q D R I E L E A V A K L
UniRef90_D3E2J8 P L P G Q E A W A T G A D E D R V H P D I L L T K L G P G Q R L K L R A I A L K
UniRef90_K4DX57 I P D D P D F A P V P D T L V K M S K G Q V L S I E A Y A K L
UniRef90_A8MDY7 D D P E V K P I S G D I P I V L L A A G G Q S V S L E A K L R L
UniRef90_UPI00035C3F6C S P R V S R N R D N D P N D Y V D Q D D I L I V K L R K G Q E I R L R A Y A K K
UniRef90_G1Q7F7 P Y E G Q R E K F G N V A P L H A D I P I T K I L P G Q T I S L Y C R A I K
UniRef90_A2ER03 D D P T I T P I L S D S I P I V L L G K N Q T I S L Q A K L R L
UniRef90_A0A031LK31 D P G V R P A F D K I P L V I L G E G E K L V M E G Y A T K
UniRef90_F4BXF3 D P Q I T P V D S K I P I V K I D K N N Q L L E A Y A V L
UniRef90_X1AZ03 N P R V C P V D V A A K A P S S T E G V I V K L R R G Q E L K L K A V A T K
UniRef90_M0SE79 N K A V K P T D S K I P I A E L L K G Q G I K L Q A I A R L
UniRef90_X0UL1 D P K V K P V G P N M P I T K L K G Q Q L Q F E A T A S L
UniRef90_UPI0003621DCB K Y G V L K S F F K N V P V K V V F K D I L I A K L N P G Q K L E C E C E S L I
UniRef90_A9BKT2 D P G V K V V F E K I P I A I L G E G E K L M L E G I V T L
UniRef90_G7WKZ9 D P E T V P V D N N I P I I E K K G Q K V V A S G T A R L
UniRef90_Q0W1V3 D D T G M N D Y F L T L R N P V V I I K L S N G H S L E A N L V V R K
UniRef90_A0A059EYD9 S E L K W S P V G N Q K N V M P C F H D I T I A K I K P K Q F I D I E L H A F R
UniRef90_E4XNL9 K K D G Q P D I E I S K D I P I A K L A F E K Q A L I E I M V A C K
UniRef90_C4V751 D P D V V F A I D N I P V L E L F E G Q Q L M L E A V A R L
UniRef90_O28002 D P L V K P V Y P D T P L V Y L A P G Q R V H L V A Y A R L
UniRef90_V4JHY3 P L G E Q H K R L G K N Q P R P L F E D I L L T K L A P G Q Q S L K A Y L E K
UniRef90_I719X9 N S F K W I P I G D Q S T S L P C H C L K
UniRef90_UPI000161C68B H G G I S S N Y M G S L L G V I E A P S I P I L K L A P G E S I N A L L Y A R K
UniRef90_C6LU00 P H R S S S D A Q Q Q V E P V Q V Q R G I L L T K M L K E G Q R L D I R M E A V K
UniRef90_M1VCT4 S D S M V A F D N I P I V K L K E G Q K L E L E C E A L V
UniRef90_A6UW03 G D D K F R V V D P L I P I V K L K E H Q A I L E A E A I M
UniRef90_L0HKY5 T G E V V F K H I P I V K L K E G Q R I E L E C E A L V
UniRef90_F8AN60 N G E V A F K N L P I I K L K E G Q R I E L E C E A T V
UniRef90_F6BD45 S D L K F S D P D I R P I Y P E T P I V Y L A P G Q R I H L V G Y A R L
UniRef90_D9Q275 D P Q V I E P A D E N I P L V A K L N D G Q R I E A E A D A V L
UniRef90_U3AC08 N T G I L N S W M K N S P I K P A F K D I L L V A K L N P G Q K I I A E C H C V L
UniRef90_J7G2H0 D L S I S D P Q V K P V Y P E T P I Y V A P G Q R I H V I Q A F A R L
UniRef90_Q9YB53 Q Q H N L S D V V K K G C I T K L A P G Q H I H L E M Y A E K
UniRef90_S7XPP5 P A P R H P D F G K P V G D D P N A P G V S I V Q L R K G Q H I K A R C I A R K
UniRef90_M5ENP0 D P R V S K H R D D E S S E Y G E T D E I L I I K L R K G Q E L K V R A Y A K K
UniRef90_V5I7S3 E G K K L F P V G Y K S D N P I I T Q L G P R G S L N Y V D C A F A T K
UniRef90_UPI0002C3E526 D S K I K P V Y D T I P L V K L N I E A V A K V
UniRef90_A5UN55 D E M V K P V S K D I P I V L A P N Q K L K F E A Y A R L
UniRef90_K0IHB5 S N T K T T L K Q N V I T R L A P G K R I E C K M A I A V V
UniRef90_H8ZEB8 D H T V V P V D F S P D S D S A V N G V I I V K L R R G Q E L R L R A I A R K
UniRef90_I3T9I1 P A E G Q D H F S F R F K P N V L V C K M V P G N Q V E M T F K A I K
UniRef90_L2GLK3 T N L I S I K N A P I A K L G A N G N L K V A C A F K
UniRef90_T0L9M2 E P I G G Q E L R V K D E L V P I V K L G P G Q A L L A Y A S A E L
UniRef90_UPI00037EA28E D P N Y K I A F E N I P I C K L A K G Q R I F L E A I A R V
UniRef90_UPI00037C593A D Q V V K P I S K Q I P I V H L A P G Q R I K L E A Y A R L
UniRef90_B3TAN3 D E L V Q P A E D N V I D L K E D Q R L E L E A D A V L
UniRef90_R4VXK9 L P K N F E R K M F N E N I P I V K L Q R R Q K L C L T A V A R K
UniRef90_J9D4P7 D V P G V H C S A A L L R L A P G Q K I D M I C I A T I
UniRef90_L2GNQ3 D P N I R P V Y D T I P I V K L A K G Q K I A L E A I A R V
UniRef90_UPI00035F00D3 I P I I K E E Q F A N D P R I V F D D I L V A K L R P G Q Q I E A N C H A V K
UniRef90_W2TR19 E P L G P P E L R I K D E L I P I V K L G P G Q A L L A Y A S A E L
UniRef90_R9T5Y4
UniRef90_UPI0003F11F83 P V G N P D L V P A D K D I P I V K L G P K Q A I L L T A E A I L
UniRef90_T0LRX7 P K G K Q S T L Y K E E D V G V I H S D I L I S Q M R P K G H E L D L K L F A V K
UniRef90_T1GGD1 R P D V V P V Y K D I P I V K L V K G Q S I V I E A Y A K L
UniRef90_A4WNA4 N S E V G E S A F D N V P I V K L A E G Q S L E A E C E A L V
UniRef90_D7DRW7 D E F V K P V Y G N P I V I L S P G Q R I S L E L R A R V
UniRef90_E0SQ92 E P D L V K P A D E N I P I I Q L K D D Q R L E A E A D A V V
UniRef90_L0I9U7 V E Y V Q P A D E N I P I I E L K E G Q H L E F E A D A V L
UniRef90_J3JFB7 D D V V I R S S P V I C K L G T R N Q L K V I C K A F K
UniRef90_C4V9J5 G S G R P A N L L N N T F I C K L A P N Q T L K I K C I A R K
UniRef90_B7XJB4 P F T G N V E L K P V D P L I P I V K L G P K Q A L L V T A E A T M
UniRef90_T0LUK9 D E D V R P V Y E N I P V V P L I G D Q R V K V I A Y A R L
UniRef90_A8A8W5 D S V V E P A E D N V P I E I K E D Q R L E V E A E A V L
UniRef90_M0MQ17 R H M T W V P L G N Q A D V F P E G T D I L I A Q L R P G Q E I D L L M H C V K
UniRef90_UPI000333E00B S K T N A A I K Q N V I T R L V K G K L E C R L F A I I
UniRef90_I3EFC5 P I N N P D L K P V D P M I P I V K L K G Q A M L V T C E A I M
UniRef90_Q6KZP5 L S D D K V V K P S S D Q I P I I H L T P G Q K L K F E A Y A R L
UniRef90_B3TBC2 N N L P F S F I F L Q A F A I P S S L P Y P G F M A D W Q
UniRef90_V8NS85 A D R P D V A P V Y K D I P I V K L V E G Q S V V V E A Y A K L
UniRef90_A3MXZ5 S H P D L I P V D G E I P I V K L G P K Q A I L I T A E A I L
UniRef90_Q9HJD9

UniRef90_F8AIQ5	G R G K D H A K W Q P
UniRef90_D8M326	G V G K E H A K W S P
UniRef90_E3GZF2	G L G K K H A K W R P
UniRef90_A0RXU9	G R G T E H A K W N
UniRef90_Q2FTA0	E R G M E H A K W S P
UniRef90_G0U4R6	G G A V H A K W A P
UniRef90_E6N510	G R G R K H A K W Q
UniRef90_C3N054	G Y G K E H A K F P
UniRef90_L0A8X7	G R G K E H G K W S P
UniRef90_C9ZKR1	S A K T H A K F M P
UniRef90_BOEHR6	G T G K F H A K W N P
UniRef90_G4VD46	G G R D H A K F S P
UniRef90_A0B9L4	R T G K E H A K W Q
UniRef90_G3UXX5	
UniRef90_G4RL48	G R A R E H A K W Q
UniRef90_U6KV52	G G K L H A K W S P
UniRef90_B1L798	G R G K D H S K W S P
UniRef90_C3Z3J6	G T G R D H A K F S P
UniRef90_W6KIA5	G I G A V H T K W S P
UniRef90_G0TTN9	S L A K T H A K F M P
UniRef90_A4HA24	G F G A V H A K W C P
UniRef90_D3E2J8	G T G K E H A K W V P
UniRef90_K4DX57	G L G G V H A K W T P
UniRef90_A8MDY7	G R A R D H A K W Q
UniRef90_UPI00035C3F6C	G Y G L E H A K F P
UniRef90_G1Q7F7	G F G K E H A K W N P
UniRef90_A2ER03	G G S D H A K F Q P
UniRef90_A0A031LK31	G Y G A E H S K F N P
UniRef90_F4BXF3	R V G K E H S K W Q
UniRef90_X1AZ03	G K A K E H V K W Q
UniRef90_M0SE79	G T G K D H
UniRef90_X0UL11	G L G R T H I K
UniRef90_UPI0003621DCB	G Y G R D H V K Y S P
UniRef90_A9BKT2	G G N N H A K F S P
UniRef90_G7WKZ9	N R G T V H A K W Q
UniRef90_Q0W1V3	G F T K E H A K Y Q P
UniRef90_A0A059EYD9	G T A Q T H S K Y S P
UniRef90_E4XNL9	G I G R D H A K F S P
UniRef90_C4V751	N V G R V H A K W S P
UniRef90_O28002	G T G R E H A K F Q P
UniRef90_V4JHY3	G R G F E H G K W S P
UniRef90_I719X9	G T G R T H A K W S
UniRef90_UPI000161C68B	G L G R D H A K F S P
UniRef90_C6LU00	D R G K L H A K W C P
UniRef90_M1VCT4	G L G H D H A K W S P
UniRef90_A6UW03	G V G K N H A K W Q P
UniRef90_L0HKY5	G T A K E H A K W Q
UniRef90_F8AN60	G T G K T H A K W Q P
UniRef90_F6BD45	G G K V H A K W Q P
UniRef90_D9Q275	G R G Y E H G K W S P
UniRef90_U3AC08	G R G R D H A K F Q
UniRef90_J7G2H0	G T G N I H A K F S P
UniRef90_Q9YB53	G R G K E H T K W S P
UniRef90_S7XPP5	N T A K V H T K W S P
UniRef90_M5ENP0	G F A K E H A K W S P
UniRef90_V5I7S3	G F G K E H A K W N P
UniRef90_UPI0002C3E526	G T G K F H A K W N P
UniRef90_A5UN55	G Y G K E H A K W M P
UniRef90_K0IHB5	G T G K D H A K W Q P
UniRef90_H8ZEB8	G T G R E H A K W M P
UniRef90_I3T9I1	G G K D H A K W S P
UniRef90_L2GLK3	G R G E Q H A K W S P
UniRef90_T0L9M2	G T G S I H A K W S P
UniRef90_UPI00037EA28E	G T A K R H A K W Q
UniRef90_UPI00037C593A	K T G N I H A R F Q P
UniRef90_B3TAN3	G R G T E H A K W N
UniRef90_R4VXK9	D R G R E H A K H Q
UniRef90_J9D4P7	G A K D N S K W Q
UniRef90_L2GNQ3	G T P Q T H V K Y C P
UniRef90_UPI00035F00D3	K T G S E H A R F Q P
UniRef90_W2TRI9	G G R D H A K F S P
UniRef90_R9T5Y4	G T A K R H A K W Q
UniRef90_UPI0003F11F83	
UniRef90_T0LRX7	G R A S E H A K W Q
UniRef90_T1GGD1	G T G K D H A K F S P
UniRef90_A4WNA4	G I A K D H A K W Q
UniRef90_D7DRW7	G T G K I H S K W Q P
UniRef90_E0SQ92	G R G I E H I K W S P
UniRef90_L0I9U7	D H G K K H A K H Q
UniRef90_J3JFB7	D S G K S H A K H Q
UniRef90_C4V9J5	G V G K I H S K W S P
UniRef90_B7XJB4	G L V R T H A K Y C P
UniRef90_T0LUK9	G T A K E H A K W Q
UniRef90_A8A8W5	G R G R E H A K W M P
UniRef90_M0MQ17	D T G K S H A K H Q
UniRef90_UPI000333E00B	G G K D H A K F S P
UniRef90_I3EFC5	G T G R E H S K W M P
UniRef90_Q6KZP5	G R G K D H A K W Q
UniRef90_B3TBC2	G R G T E H A K W N
UniRef90_V8NS85	
UniRef90_A3MXZ5	G R A R D H A K W Q
UniRef90_Q9HJD9	G T A K E H A K W Q

UniRef90_W0K4Q5
UniRef90_L2GV78
UniRef90_A8PVP1
UniRef90_D8J326
UniRef90_T1C8D2
UniRef90_M0CUM9
UniRef90_E5SNI8
UniRef90_C7NMY7
UniRef90_S7PZS1
UniRef90_G2MJ55
UniRef90_Q98S79
UniRef90_H0H2H2
UniRef90_S7W9P7
UniRef90_A0A015JM31
UniRef90_T0KX77
UniRef90_X0YNK1
UniRef90_C7DIN8
UniRef90_M9SFU1
UniRef90_S0AR36
UniRef90_D6PDG8
UniRef90_UPI00042B2D78
UniRef90_U6MRL0
UniRef90_Q6Z5L9
UniRef90_B7XIP8
UniRef90_E2LFN6
UniRef90_UPI0003441C66
UniRef90_Q3LWA1
UniRef90_C6T9J6
UniRef90_F2HHE8
UniRef90_M4YM42
UniRef90_D1J901
UniRef90_V4Y0B1
UniRef90_B3T3X4
UniRef90_A2ATX2
UniRef90_U6LSJ7
UniRef90_E0XP30
UniRef90_R1G3G0
UniRef90_A0A059LD27
UniRef90_G5E3A3
UniRef90_A0A059F0M1
UniRef90_M7TZT3
UniRef90_M5VUS2
UniRef90_V6LPE8
UniRef90_X1JNJ2
UniRef90_L2GX97
UniRef90_W7U996
UniRef90_N1JEE0
UniRef90_X8J9E5
UniRef90_T0LNF0
UniRef90_R7WE45
UniRef90_Q3LWA0
UniRef90_G0QDR1
UniRef90_K0SHX6
UniRef90_K0SHX6
UniRef90_S9VL27
UniRef90_D6GVN7
UniRef90_Q74M82
UniRef90_F9WJU9
UniRef90_A0A058Z879
UniRef90_H0A9I7
UniRef90_K7MRR8
UniRef90_L7JZJ4
UniRef90_G0QHL7
UniRef90_V5LN77
UniRef90_E3T5Q3
UniRef90_H0XHU6
UniRef90_X6NG38
UniRef90_M5YY08
UniRef90_T1CKE9
UniRef90_T0ZFF8
UniRef90_T1BYN6
UniRef90_B5A4G4
UniRef90_A0DMR9
UniRef90_L8G5G4

```

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

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

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

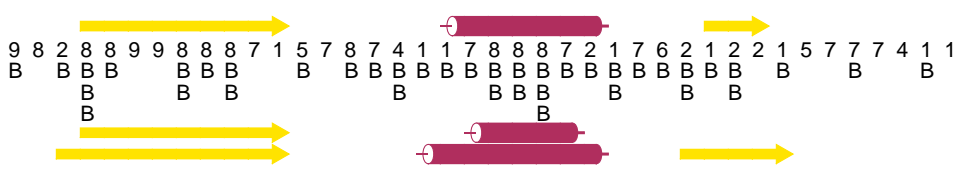
P T M A V E K V L V Y N N T S I V Q D E I L A H R L G L I P I H A D P R L F E
T I A I E D I Y V F E N T S I L N D N I L A H R L I G L I P L R I N P K Q I Q
P T M A I E R V Y F L A N N T S V L Q D E V L S H R L G L I P I R A D P R L F E
T I C I D H K V Y F Y N N S V L D D E L L S H R L A L I P L I V S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

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

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

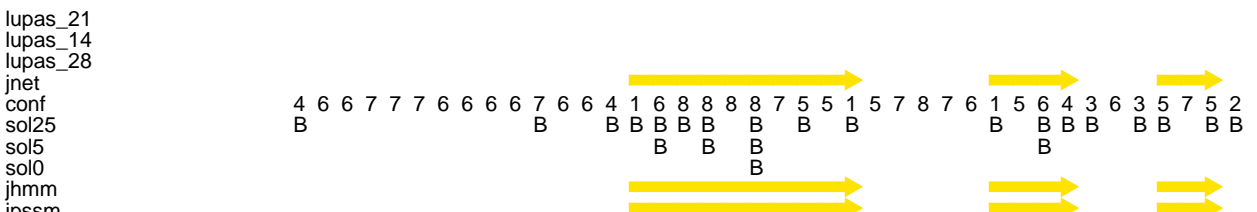
```

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm



UniRef90_W0K4Q5 UniRef90_L2GV78 UniRef90_A8PVP1 UniRef90_D8J326 UniRef90_T1C8D2 UniRef90_M0CUM9 UniRef90_E5SNI8 UniRef90_C7NMY7 UniRef90_S7PZS1 UniRef90_G2MJ55 UniRef90_Q9S79 UniRef90_H0H2H2 UniRef90_S7W9P7 UniRef90_A0A015JM31 UniRef90_T0KX77 UniRef90_X0YNK1 UniRef90_C7DIN8 UniRef90_M9SFU1 UniRef90_S0AR36 UniRef90_D6PDG8 UniRef90_UPI00042B2D78 UniRef90_U6MRL0 UniRef90_Q6Z5L9 UniRef90_B7XIP8 UniRef90_E2LNF6 UniRef90_UPI0003441C66 UniRef90_Q3LWA1 UniRef90_C6T9J6 UniRef90_F2HHE8 UniRef90_M4YM42 UniRef90_D1J901 UniRef90_V4Y0B1 UniRef90_B3T3X4 UniRef90_A2ATX2 UniRef90_U6LSJ7 UniRef90_E0XP30 UniRef90_R1G3G0 UniRef90_A0A059LD27 UniRef90_G5E3A3 UniRef90_A0A059F0M1 UniRef90_M7ZTZ3 UniRef90_M5VUS2 UniRef90_V6LPE8 UniRef90_X1JNJ2 UniRef90_L2GX97 UniRef90_W7U996 UniRef90_N1JEE0 UniRef90_X8J9E5 UniRef90_T0LNF0 UniRef90_R7WE45 UniRef90_Q3LWA0 UniRef90_G0QDR1 UniRef90_K0SHX6 UniRef90_K0SHX6 UniRef90_S9VL27 UniRef90_D6GVN7 UniRef90_Q74M82 UniRef90_F9WJU9 UniRef90_A0A058Z879 UniRef90_H0A9I7 UniRef90_K7MRR8 UniRef90_L7JZJ4 UniRef90_G0QHL7 UniRef90_V5LN77 UniRef90_E3T5Q3 UniRef90_H0XHU6 UniRef90_X6NG38 UniRef90_M5YV08 UniRef90_T1CKE9 UniRef90_T0ZFF8 UniRef90_T1BYN6 UniRef90_B5A4G4 UniRef90_A0DMR9 UniRef90_L8G5G4

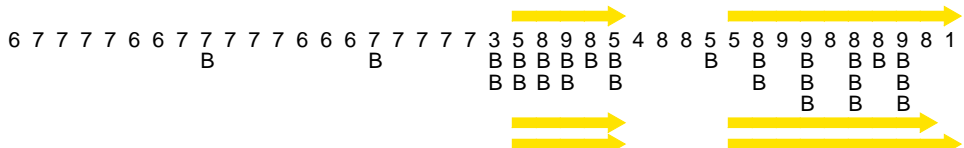
R K E E C T P D D V F A V G D T V T L A L D V E G P G T A Y S S G D L V S S S D
M D D E A N D Q N T V V F N L K A D C W K N G N S K V Y S S Q L F E W D
P E D Y E L G E D V L T L A L D V E G P A T A Y S S G D L V S S S S
P S K G Y T D S D E V L F T L D A S G P G T I Y S S K D L V S S S S
P E G E F E T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



UniRef90_W0K4Q5
UniRef90_L2GV78
UniRef90_A8PVP1
UniRef90_D8J326
UniRef90_T1C8D2
UniRef90_M0CUM9
UniRef90_E5SNI8
UniRef90_C7NMY7
UniRef90_S7PZS1
UniRef90_G2MJ55
UniRef90_Q98S79
UniRef90_H0H2H2
UniRef90_S7W9P7
UniRef90_A0A015JM31
UniRef90_T0KX77
UniRef90_X0YNK1
UniRef90_C7DIN8
UniRef90_M9SFU1
UniRef90_S0AR36
UniRef90_D6PDG8
UniRef90_UPI00042B2D78
UniRef90_U6MRL0
UniRef90_Q6Z5L9
UniRef90_B7XIP8
UniRef90_E2LFN6
UniRef90_UPI0003441C66
UniRef90_Q3LWA1
UniRef90_C6T9J6
UniRef90_F2HHE8
UniRef90_M4YM42
UniRef90_D1J901
UniRef90_V4Y0B1
UniRef90_B3T3X4
UniRef90_A2ATX2
UniRef90_U6LSJ7
UniRef90_E0XP30
UniRef90_R1G3G0
UniRef90_A0A059LD27
UniRef90_G5E3A3
UniRef90_A0A059F0M1
UniRef90_M7ZTZ3
UniRef90_M5VUS2
UniRef90_V6LPE8
UniRef90_X1JNJ2
UniRef90_L2GX97
UniRef90_W7U996
UniRef90_N1JEE0
UniRef90_X8J9E5
UniRef90_T0LNF0
UniRef90_R7WE45
UniRef90_Q3LWA0
UniRef90_G0QDR1
UniRef90_K0SHX6
UniRef90_K0SHX6
UniRef90_S9VL27
UniRef90_D6GVN7
UniRef90_Q74M82
UniRef90_F9WJU9
UniRef90_A0A058Z879
UniRef90_H0A9I7
UniRef90_K7MRR8
UniRef90_L7JZJ4
UniRef90_G0QHL7
UniRef90_V5LN77
UniRef90_E3T5Q3
UniRef90_H0XHU6
UniRef90_X6NG38
UniRef90_M5VY08
UniRef90_T1CKE9
UniRef90_T0ZFF8
UniRef90_T1BYN6
UniRef90_B5A4G4
UniRef90_A0DMR9
UniRef90_L8G5G4

```
          90          100          110          120
D P           D V E A A D K N V P I I E L K D D Q R L E F E A D A V L
A V D T T R L K G             L I C K M G E K Q S V K M T A L A R T
P K G D Q A E T M A D S P P R P V N Q D I V I A K L A P G Q Q M E M E L H C E K
D E Q V           E P A D R N V P I T I E L K E G Q R L E L E A D A V L
D K A I           R V A N E G I P I I K L A E G Q K I R V D G K A V L
D E M V           R P A N D N I P I I D L K A G Q R L E A E A D A V L
D P R V Q K N T M H F R L A D R N G K K I T I A K L C R G Q E L N V V C L A R K
                G N D E M V E P A E P D V P I T I E L K D D Q R L E L E A D A V L
P P G H S S D I P E P
D P D V I Q           P A D E N I P I T I E L G E N Q R I E L E A E A V L
Y K S I E F D L Y K N Q L I F P V Y R D I L L K I N P G Q E I H C E C H C L I
P Q G R Q S T T F A A C S V V P A D P D I L L A K L R P G Q E I S L K A H C I L
E N I I           R T D S I I T K L N Y N Q T L R A R G V I A K M
D           P R F T P I T E G P K D A G I L I A K L R K G Q E I K V K C I A K K
                G D F L K P D I L I A K L A P R Q C I D M E M T A E I
D P K I           V P V D P H I P I V K I D K N G Q I T E A Y A I L
D K S V           V V A N P I I K L G R D Q K I R I E G A V M
                P L G D N T L K V K D E F I P V V E L T D N Q A V L I Y A T A V M
N N P           E L T V T D P L I P I V E L K K N Q A M L V T C E A I L
G D L T N I S D Q M F D I R D E H K R I P L T V L S K G Q F L E Y A F A T L
P N G S E L P E F A N N P I A P K Y P D I I I S K L G P G Q E L E L E A H A V K
                P E G S R L P L A S P A P L G V K F K D I T I A R L G P G Q
I E I F D I Q           K D V L I C K L A P K N T I S M K L R I A E
T D I R T P D F G H P V G K N K L G Q P V L I C K I R K G Q E L K L K C V A K K
                D P N E L Y V N H K
H Q S R V Y F S I K Q D I V K K N S E D I L I T K L K P K Q L L F L E A H C K K
P N G S E L P C E D V K P N G S K P K T I Y I F Y L Q P
L Y G I H S S W L K N L H T K P V F G D I L I A K L N S G Q K I K C E C H C N F
                P L G D K S L A V K D G N I P I V E L T K G Q A I I V Y G T A V M
Y P K V           E A A S E N I P I V E L K A R Q K I D L D A I A R W
D G M V           R A A D D V P I J E L K E N Q R L E L E A E A V L
                L G A Q S L E I P E H Y T I P I T K L Y K G Q M L E F I A I A V M
                P S E R Q K Q K F S A E P P A P V H P D I L I T K L R P G Q
                P K G G Q A E L F G D R P P R P A N P N I L V A K M
                D K K D T Y V V Y P E T M I A Y I D E N Q K V K L E A V A I L
                E N F F K P N           V L L T K L G P K Q E I H L E I F C N I
                T D P K V C P V D Q Q
D H
R S E F Q M F S I R N           Q T D P V P I L L L A P N Q S V E I E L F A F K
                N D P I I V P V S P N I P I V K L E H D S S L T F E A F T V L
H F D S G R R I G T N N S S P M I K Q G V L I T K L G P N Q H L D V I E M Y A T K
                P Y G Q Q V H E F A E D A I G T T Y P D I L I A K L R P G Q C I D L Q A H A I K
                P S G G G E F G G E D E G K R P P N F G M P I G K
                G D S K           M A P T D K E I P I V E L N E R Q A I M L D A E A Y M
                D P L I T S L F H G V H P Y S F K G G I L I V K L R C G Q E L R L R A I A R K
                D K I N Q E N K F N L V N Y           S H I L I L K L K Q S Q V L S M K I T L K K
                S A G N Y D V T P V           N D T T I V K L K E G Q D L K F E A D A E L
                P L P G Q E W V E D D D K V F L V H P D I L L T K L G P G Q K L K L R A I A V K
                D K D V V P A I P E M L I I N L K D G S L E L E A E T T W
                D E N V K I           A Y K K I P L I W V E K W H E I D M E F E I K V
                D E Q V
                N E           E A E P V Q E G V D I V T L K E D Q D L E L E G T A V L
                H F D S G R S W S R A V E E D V D G D G I L I T K L G P N Q C L D A E M Y A T R
                N E           E S E P V N P D T V L V T L K E D Q E L E F E G T A V L
                K D T G K E V T Q P G I M L I P L A K G H E I H F S C E V T K
                Y L G S           E I K S P Y P N V I I I K L Q P G Q K I K L T A K S V L
                N L A I           L V A S Q S Q D S D P S D Y V R I E K G P G
                D
                D H T V V P V D F S D S
                P R R G R E P R D P R A G R A D P S A V
                P L G D A N L Q I I E P D I P I V Q L G A R Q A L L A Y A T A V L
                P L G D P L A I I E P E I P I V R L G A K Q A L L A Y A T A V V
                R F G S R I P F K K Q S S I D P S H Q D V I L T K L K P L Q K L F I E C H A K K
                F G Q M G E M A I R P V R M F S L V N G I P I T R L G K N Q S V H V R C H A L K
                K D I M A V S W R H A Y G R Q P           S D I L L L T E G E G Q R K S L R C I A E R
```

lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmh
jpssm



UniRef90_W0K4Q5 A H G R D H A K H Q
 UniRef90_L2GV78 G V A K E H A K F C
 UniRef90_A8PVP1 G I G K D H A K F S P
 UniRef90_D8J326 D V G R E H A K H Q
 UniRef90_T1C8D2 G D A T R H A K F Q P
 UniRef90_M0CUM9 D R G R D H A K H Q
 UniRef90_E5SNI8 G I G K E H A K W N P
 UniRef90_C7NMY7 D K G R E H A K H Q
 UniRef90_S7PZS1
 UniRef90_G2MJ55 E R G S D H V K Q S
 UniRef90_Q98S79 N S G L N H A K F S P
 UniRef90_H0H2H2 G I G G D H A K F S P
 UniRef90_S7W9P7 D N A K K H A K W
 UniRef90_A0A015JM31 G V A K E H A K W S P
 UniRef90_T0KX77 N I G K V H S K W S P
 UniRef90_X0YKN1 G F A K N H A K W Q
 UniRef90_C7DIN8 G S A L K H A K F Q P
 UniRef90_M9SFU1 G T A K K H V K W Q
 UniRef90_S0AR36 G R G K E H A K W Q
 UniRef90_D6PDG8 G R G R Q H S K W S P
 UniRef90_UPI00042B2D78 G M G K T H A K W S P
 UniRef90_U6MRL0
 UniRef90_Q6Z5L9
 UniRef90_B7XIP8 G I G K T H V K W S P
 UniRef90_E2LFN6 G L A K E H A K W S P
 UniRef90_UPI0003441C66 I G K D H A K F S P
 UniRef90_Q3LWA1 G Y S T Q H S K Y S P
 UniRef90_C6T9J6
 UniRef90_F2HHE8 G N G E A H A K F S
 UniRef90_M4YM42 G T A R K H V K W Q
 UniRef90_D1J901 G R G E E H A K W Q P
 UniRef90_V4Y0B1 E S G K G H A K Q Q
 UniRef90_B3T3X4 G V G S E H A K W S P
 UniRef90_A2ATX2
 UniRef90_U6LSJ7
 UniRef90_E0XP30
 UniRef90_R1G3G0 G N G K Q H A K F I P
 UniRef90_A0A059LD27
 UniRef90_G5E3A3
 UniRef90_A0A059F0M1 N I G K D H A K Y S P
 UniRef90_M7ZTZ3
 UniRef90_M5VUS2
 UniRef90_V6LPE8 A P G R V H A K Y S P
 UniRef90_X1JNJ2 G R A K D H A K F Q
 UniRef90_L2GX97 G T A K E H A K Y S
 UniRef90_W7U996
 UniRef90_N1JEE0 G I G S D H A K F C P
 UniRef90_X8J9E5
 UniRef90_T0LNF0 G R A R E H A R F Q
 UniRef90_R7WE45 G I G K D H A K W S P
 UniRef90_Q3LWA0 G K G S D H T K W C
 UniRef90_G0QDR1 G Y G T E H A K H Q
 UniRef90_K0SHX6
 UniRef90_K0SHX6
 UniRef90_S9VL27 G I G A V H T K W S P
 UniRef90_D6GVN7 G N G A I H T K F T P
 UniRef90_Q74M82 G Q G K V H S K W I P
 UniRef90_F9WJU9
 UniRef90_A0A058Z879
 UniRef90_H0A9I7 G T G R D H A K H Q
 UniRef90_K7MRR8
 UniRef90_L7JZJ4 G T A K E H A K Y S
 UniRef90_G0QHL7 G K G K D H A K H Q
 UniRef90_V5LN77 G T G R K H A R F
 UniRef90_E3T5Q3 G I E K E D G K Y S P
 UniRef90_H0XHU6
 UniRef90_X6NG38
 UniRef90_M5VY08
 UniRef90_T1CKE9
 UniRef90_T0ZFF8 G A G R D H A K W Q
 UniRef90_T1BYN6 G T A R E H A K W Q
 UniRef90_B5A4G4 S I G L V H S K Y S P
 UniRef90_A0DMR9 G F G K M H
 UniRef90_L8G5G4 G I R H E L A Q W S

lupas_21
 lupas_14
 lupas_28
 jnet
 conf 2 5 6 7 6 7 7 7 8 8 9
 sol25 B B B
 sol5 B
 sol0
 jhmm
 jpssm