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

60

				50		60																
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UniRef90_W7Z575	V	A	I	R	G	M	V	N	K	V	K	H	L	V	T	V	N	E	I	V	D	
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UniRef90_D3QB96	P	E	I	R	G	M	I	H	T	V	R	H	L	V	A	V	E	N	V	E		
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UniRef90_V6IVQ6	P	A	I	R	G	M	I	N	K	V	S	H	L	L	A	V	R	E	L	I		
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UniRef90_D8K1A2	Q	S	V	R	G	M	I	Q	K	V	R	H	L	V	E	V	A	E	A	E		
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UniRef90_D1NVB9	S	Q	T	R	G	L	I	Q	V	V	R	H	L	V	T	V	E	E
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UniRef90_M2PNP9	V	Y	V	Q	G	Q	I	N	T	V	R	H	L	V	T	V	E	E
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UniRef90_L1M9C2	S	Q	V	R	G	W	I	N	V	V	R	H	L	V	K	D	V	E
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UniRef90_X5DPL5	P	I	V	R	G	Q	I	N	T	V	R	H	L	V	Q	V	E	E
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UniRef90_R5EQL5	T	Q	T	R	G	K	I	A	K	I	G	Y	L	L	Q	V	T	E
UniRef90_E1YG71	P	S	I	R	G	M	I	G	K	V	S	H	L	V	K	A	E	E
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UniRef90_M1MUZ4	P	A	V	R	G	M	V	H	V	V	R	H	L	V	T	V	E	E
UniRef90_UPI00035C725F	P	A	V	R	G	M	I	A	K	V	A	H	L	V	R	I	V	E
UniRef90_C5WCS3	P	A	I	R	G	M	V	K	L	I	S	Y	M	V	E	V	R	E
UniRef90_UPI00036BEFD9	Q	Q	L	R	G	Y	V	R	A	V	A	H	L	V	K	V	E	E
UniRef90_I4CE79	A	A	I	R	G	M	I	D	K	V	S	H	L	V	Q	V	E	E
UniRef90_Q6AP52	P	E	I	R	G	M	L	N	K	V	K	H	L	V	R	I	D	E
UniRef90_UPI000362E2A8	P	A	L	R	G	M	I	N	K	V	R	H	L	V	R	L	E	
UniRef90_R6ITH7	A	A	T	R	G	K	I	R	K	L	A	H	L	V	E	T	S	E
UniRef90_D3QZ83	A	A	I	R	G	M	V	T	R	I	A	H	M	V	K	C	I	E
UniRef90_U4L6P9	P	D	I	A	G	K	I	N	K	V	K	E	L	V	T	V	S	E
UniRef90_K4IR87	S	S	L	M	G	M	V	N	K	V	K	H	L	V	S	V	E	E
UniRef90_Q4UMR1	N	S	I	L	K	G	M	V	E	K	V	K	H	L	L	K	I	E
UniRef90_R5BLR7	P	V	T	E	G	Q	I	A	K	I	R	H	L	V	E	V	E	E
UniRef90_F2IIQ8	P	Q	I	L	L	G	M	I	K	K	V	E	H	L	V	Q	V	
UniRef90_D8TL09	P	S	I	L	R	G	M	L	S	K	V	P	H	L	V	L	I	E
UniRef90_Q0AIH8	P	S	T	R	G	M	I	N	K	T	A	Y	L	L	K	V	E	E
UniRef90_V6KMV9	P	E	V	V	I	G	M	V	H	T	V	R	H	L	V	T	V	E

UniRef90_Q8D1Z4 1 MN K L K I T Q I K S S I G C L K K H K S T L Y G L L R R 30 H L G H T V I R Q N S 40
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UniRef90_A1ALV9 T L K I I T L V K S S I G T P K Q Q R N V V A G L L G L L R R K R M N R Q T V F H K I T S
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UniRef90_UPI00046A56C T L T V I Q I A S V I G S K P G Q A E T I K G L L G L L R G I G S F R V L E D T
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UniRef90_K4INB6 Q I K I T L V K G V I A H A T D R Q K E N V R S L L G L L H K I G O S V L R E D T
UniRef90_UPI00036E4F89 MA K I K V R Q T G S P I R R K P E Q R A T L V G L L G L L N K V G R E S E L Q N T
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UniRef90_X0S3L1 MT K L K I T W R K S A I G Y A A N Q R R T I R A L L G L L R K I R Q V E H S D S
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UniRef90_K2E7C4 Q L K V T L V K S T N K K L K S H K A C V H G L L G L L R R I G Q T V E L E N N

				50		60											
UniRef90_Q8D1Z4	P	R	L	L	G	M	I	N	S	I	S	Y	L	V	K	I	K
UniRef90_S8A9H2	P	S	T	A	G	Q	L	M	K	V	K	E	L	I	A	V	V
UniRef90_W8VVW6	L	A	V	L	G	M	I	A	K	V	A	H	L	L	S	V	E
UniRef90_T0LHN4	P	Q	I	K	G	M	V	A	K	V	R	H	L	L	Q	V	E
UniRef90_A1ALV9	P	E	I	R	G	M	I	N	K	L	S	H	M	L	H	I	E
UniRef90_X3YI34	P	A	V	R	G	M	V	X	X	X	X	X	X	X	K	V	E
UniRef90_R7HCN8	A	S	T	R	G	Q	I	Q	Q	I	G	Y	M	L	K	V	E
UniRef90_F0RS35	P	A	N	L	G	M	V	R	V	V	A	H	L	V	K	V	E
UniRef90_UPI00037E9F81	P	E	I	M	G	M	I	K	K	I	P	H	L	L	K	V	E
UniRef90_N1ZQS3	A	A	T	R	G	A	L	M	K	I	A	H	L	L	S	V	E
UniRef90_F3YWP7	G	A	T	R	G	M	I	M	Q	V	A	H	L	V	E	V	T
UniRef90_UPI00046F71D4	P	A	V	R	G	M	I	N	K	V	S	Y	L	V	K	V	E
UniRef90_W6M8A5	P	E	N	R	G	M	I	R	K	V	S	Y	L	L	K	V	E
UniRef90_UPI00037307EF	P	A	V	R	G	M	I	R	K	V	H	L	V	H	I	E	E
UniRef90_B6J5F0	P	A	N	R	G	M	I	E	K	V	S	Y	L	L	M	I	D
UniRef90_G4STK0	P	E	N	R	G	M	I	N	K	V	S	Y	M	L	R	V	E
UniRef90_Q9RSL0	P	A	V	R	G	M	V	K	T	V	K	H	L	L	E	V	Q
UniRef90_W9BFL8	D	A	V	R	G	M	V	N	K	V	S	H	L	V	A	V	K
UniRef90_J5PPP7	P	S	V	Q	G	M	I	S	K	V	H	H	L	V	R	V	L
UniRef90_UPI000255D536	A	V	T	V	I	G	M	L	N	S	V	K	H	L	V	T	V
UniRef90_A6RAW6	P	D	V	A	G	Q	I	M	K	V	K	E	L	V	S	V	R
UniRef90_F2IUV5	P	E	V	R	G	M	I	N	K	I	P	H	L	V	R	I	V
UniRef90_F8JIG3	P	A	V	R	G	M	L	K	K	V	Q	H	L	V	Q	V	E
UniRef90_T0ZZB7	P	E	N	R	G	M	A	A	S	V	H	H	L	V	R	S	E
UniRef90_A9BG00	P	Q	I	R	G	M	I	R	T	V	H	H	L	V	E	W	E
UniRef90_D3PN24	P	A	M	R	G	Q	I	R	K	V	A	H	L	V	E	V	L
UniRef90_Q5X841	P	A	I	R	G	L	V	N	E	I	N	A	L	L	L	V	E
UniRef90_C7JFS7	P	S	V	R	G	M	V	R	K	V	A	H	L	V	K	V	E
UniRef90_B0PCU4	G	A	T	K	G	K	I	A	K	I	A	H	L	V	E	V	E
UniRef90_C7M2Z0	P	E	I	R	G	M	L	A	R	V	A	H	L	V	V	V	R
UniRef90_C9RR16	P	S	I	Q	G	M	I	N	A	V	K	D	M	V	K	V	E
UniRef90_M7NWK6	P	V	T	A	G	K	I	L	K	V	K	E	L	V	S	V	E
UniRef90_Q38US9	A	A	T	R	G	V	I	F	K	L	A	H	L	V	T	V	E
UniRef90_K2BTS9	P	S	I	R	G	L	I	E	K	V	L	L	L	L	T	V	E
UniRef90_UPI00016DAF88	P	Q	I	R	G	M	V	N	R	I	R	H	L	V	K	V	E
UniRef90_Q057C2	A	A	I	R	G	M	I	K	K	V	Y	Y	M	I	S	I	K
UniRef90_G9ZCR1	L	S	N	R	G	L	I	N	K	I	S	Y	L	L	K	I	E
UniRef90_D8PCX0	D	Q	V	K	G	M	I	A	K	V	G	Y	L	L	E	V	E
UniRef90_Q30Z60	A	V	V	R	G	M	I	A	K	V	V	H	L	V	E	V	T
UniRef90_C4R475	P	Q	Q	A	G	M	L	A	T	V	K	E	L	V	K	V	E
UniRef90_F9MT64	P	Q	V	R	G	M	I	N	A	I	D	Y	M	V	E	I	E
UniRef90_UPI00047C01C3	S	A	T	R	G	Q	I	Q	Q	I	R	H	M	V	K	V	E
UniRef90_C0BMB4	P	A	V	I	G	M	I	N	K	V	K	H	L	V	S	T	E
UniRef90_S7UR21	D	A	M	R	G	M	V	K	H	V	A	H	L	V	E	V	Q
UniRef90_K1XLE4	P	E	V	A	G	Q	I	M	K	V	K	E	L	V	S	V	R
UniRef90_E1VY48	P	V	T	V	I	G	M	V	N	K	V	P	H	L	L	K	V
UniRef90_E8T4B3	P	A	I	E	G	M	I	E	K	V	K	E	L	V	K	V	E
UniRef90_UPI0000F89843	D	A	I	V	I	G	M	I	K	K	I	D	Y	L	V	K	V
UniRef90_Z9JJ51	P	Q	V	R	G	L	I	K	K	V	H	Y	L	V	R	V	Q
UniRef90_F1ZBA7	A	E	V	R	G	A	I	A	K	L	P	H	L	V	A	V	E
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UniRef90_F7WZ2 P S I R G M I K K V Y Y M I Q I K E K E
UniRef90_UPI00033321DD P S V N A K L K V V K H L I S L K P L K
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UniRef90_M1F6U1 P S I R G M A N R V D Y I V R V E E
UniRef90_A0A024JHH0 P Q M V G Q I L K I K E I V K V N L V K
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UniRef90_B0D7E1 P E T A G K I L K L K E L L S V E N V
UniRef90_S3D9X3 P E V A G Q I M R V K E L V S V E V D
UniRef90_H3ZNK6 P T Y K G M L Q K V K D Y L T W G E I N
UniRef90_X0UL15
UniRef90_J9GL20 A Q T Q G K I A K I S H M V A V
UniRef90_H9G4D2 P S V N D Q L K V I K H L I R I Q P L K
UniRef90_I1Q261 P S L L G M L T Q V K C H L V V V E T Q E
UniRef90_B4U762 P M V C G N L E K V K H L V C V E E L
UniRef90_B5X9J1 P S V N N Q L K F I K H L V R I Q P L K
UniRef90_T0TB38 P G V A G K I L R I K E L V S V T T V E
UniRef90_D2RE45 P S Y R G M L Q V V K D Y V A F G E I D
UniRef90_O26132 P S Y L G M L Q K A K D Y I T W G E V D
UniRef90_D2VK00 P Q I R G L I Y K C R L L L S R L Q S V
UniRef90_UPI000273ACA9 P S V N A K L K V V K H L I R I Q P L K
UniRef90_B3V5I3 P S Y A G M L Q K T K D F V T W G E V D
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UniRef90_F2NJC1 P A V R G M V R Q V A H L V E V
UniRef90_K0KM59 Q S I A G K L L T L K E L I K V D I V D
UniRef90_C7LK16 P S I M G M I K K V S H L L
UniRef90_U1NBB7 D A Y R G M I S K V N D Y V A F G E
UniRef90_UPI0003F0E602 P A V N E M L Q A I K H L V R I Q P V
UniRef90_W9DYA2 P H N A G M I Q K V K D Y V A F G E I
UniRef90_UPI0003EBC379 P S V N A K L K V V K H L
UniRef90_S4RIX3 E S V N A Q L T M V K H L I K V Q P L K
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UniRef90_W4XVT2 P L V N S L L T R V R H L I R I K P V N
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UniRef90_T2M8D9 P Q I N E R L Q M L K K L I T V Q P I

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UniRef90_B5IBH8	P S Y K G M L	Q K V K D Y V	T W G E L N
UniRef90_U1P0J9	P T Y R G M I	T K V N D Y V	A F G E
UniRef90_H0XT68	P S V N A K L	R V V K H L I	R I
UniRef90_A0A034WHH0	P D V N A M L	W K I K H L I	K V T P I
UniRef90_UPI000060850D	P S V N A K L	K R I Q P L	
UniRef90_A0A023EHE0	P E N N A R L	W K V K H L I	E V L P I
UniRef90_Q97BV5	A V T K G M L	Q K V K D Y V	T W G E I D
UniRef90_D5VRT1	E T Y K G M L	Q K A K D Y I	T W G E I N
UniRef90_R4UM68	P E V N A M L	W K I K H L V	K I T P I Q
UniRef90_W5STX5	K S L Q G M L	S S V I S M V	L L S E V N
UniRef90_B7XHR4	E C I R N M L	Q I V K D Y V	
UniRef90_J6F3U5	V T A A G K I	L K	
UniRef90_L9WC32	D A Y Q G M I	S K V N D Y V	A V G E
UniRef90_S0ASS3	E S L N G M L	N R V K D Y V	T W G E V D
UniRef90_D7E8R4	P S N L G M V	Q K V K D Y V	
UniRef90_A4FVT8	E H Y T G M I	K K V K D Y V	T Y G E I D
UniRef90_H0AFA2	D S V E G M M	N K A K D F I	T Y G E V D
UniRef90_E0SQ70	K D I E G M L	M K V K D W V	T W G E I D
UniRef90_E3GZE0	P S Y E G M L	Q K A K D Y I	T W G E I D
UniRef90_A1RU38	P S I L G M I	Q K V N D W V	T W G E I D
UniRef90_C4VA71	K S M K R M L	Q F A K D Y V	
UniRef90_G7VDI8	P D I M G M I	R K V N D W V	T W G E I D
UniRef90_S7W946	E S S R Q M L	Q K I R N F V	A Y G E L K
UniRef90_Q8TRS6	P H Y K G M V	Q K V K D Y V	A Y G K I D
UniRef90_F3KMF1	D N T L G M L	N K V K H Y V	T W S E L D
UniRef90_L9X7I2	D A Y V G M V	N K V N D Y V	
UniRef90_U3A643	D A Y R G M I	A K V N D Y V	A Y G E
UniRef90_B3V6D6	D V Y A G M L	Q K A K D Y I	T W G Q V D
UniRef90_UPI00022C8EB5	P E I C A K L	W R V K H L V	K I V P V K
UniRef90_I6TTS7	K S T K N M L	H I I K D Y V	A F G T I E
UniRef90_UPI00037D1455	P Y L K G M L	E V I S T I A	T F G E I
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UniRef90_A0A022R0A3			

