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50 60 70 80

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

	50															60															70															80														
UniRef90_J9I0A9	V	A	D	L	I	L	I	A	A	D	T	E	P	P	L	E	I	I	L	H	L	P	L	L	C	E	D	K	N	V	V	Y	V	Y	V	G	K	Q	A	D	L	L																		
UniRef90_M4C1U3	E	K	G	V	C	V	I	A	G	D	V	S	D	P	I	E	V	I	S	H	L	P	P	L	C	E	E	N	D	N	V	P	Y	I	F	T	P	S	R	K	V	D	L	L																
UniRef90_A0A016U340	K	A	Q	L	V	V	I	A	H	D	V	S	D	P	I	E	V	I	F	L	L	P	P	L	C	E	R	K	F	M	G	V	P	Y	A	I	V	P	R	S	G	K	A	S	R	L	L													
UniRef90_F1M3Q8	K	A	Q	L	V	V	I	A	H	D	V	S	D	P	I	E	V	I	F	L	L	P	P	L	C	E	R	K	F	M	G	V	P	Y	A	I	V	P	R	S	G	K	A	S	R	L	L													
UniRef90_A0A016PNK4	V	S	E	L	V	V	L	A	A	D	T	Q	P	P	L	E	I	L	L	H	L	P	P	L	C	E	E	D	K	N	V	P	Y	V	Y	V	V	S	S	K	K	M	A	R	L	L														
UniRef90_C1N2G9	K	A	Q	L	V	V	I	A	H	D	V	S	D	P	I	E	V	I	F	L	L	P	P	L	C	E	R	E	D	K	N	V	P	Y	C	I	V	P	K	G	G	K	A	R	L	L														
UniRef90_G4RM18	L	A	R	L	V	L	I	A	E	D	V	D	P	P	L	E	V	I	V	A	H	L	P	P	L	C	E	R	E	K	K	V	P	Y	V	Y	V	V	S	S	K	K	E	K	A	R	L	L												
UniRef90_I7IFG4	L	A	E	L	I	V	L	A	A	D	A	E	P	P	L	E	I	L	L	H	L	P	P	L	C	E	E	D	K	N	V	P	Y	I	F	V	V	K	S	S	K	T	T	A	L	L														
UniRef90_G9MVK9	T	C	E	L	A	V	L	A	A	D	T	P	P	L	E	I	L	L	H	L	P	P	L	C	E	E	E	D	K	N	V	P	Y	V	Y	V	V	P	S	S	K	T	T	L	L															
UniRef90_G3MGK9	T	E	G	L	V	V	F	A	A	D	T	H	P	P	L	E	I	D	I	F	S	H	L	P	P	L	C	E	E	E	K	G	L	P	Y	I	F	T	P	S	S	R	R	D	M	L														
UniRef90_T2M3W1	E	K	G	L	V	I	F	A	A	D	T	S	P	P	L	E	V	I	Y	S	H	L	P	P	L	C	E	E	E	N	K	L	V	P	Y	C	F	V	P	A	S	R	I	D	L	L														
UniRef90_M1VFX0	L	A	E	F	V	V	L	A	A	D	T	Q	P	P	L	E	I	L	L	S	A	P	P	L	C	E	E	D	K	N	V	P	Y	V	F	V	P	P	S	S	K	A	A	L	L	L														
UniRef90_L117R9	L	S	E	F	I	V	M	A	A	D	T	Q	P	P	L	E	I	L	L	S	A	P	P	L	C	E	E	D	K	N	V	P	Y	V	F	V	P	P	S	S	K	A	A	L	L	L														
UniRef90_C5LT93	Q	K	G	M	I	L	L	A	A	D	V	Y	P	P	L	E	V	I	A	H	L	P	P	L	C	E	E	K	N	G	I	P	Y	A	Y	V	P	P	S	S	R	Q	A	L	L	L														
UniRef90_S5ZVH1	Q	A	Q	L	V	L	I	A	T	A	D	V	D	P	P	L	E	V	I	V	A	H	L	P	P	L	C	E	E	K	K	V	P	Y	I	F	V	P	P	S	S	K	E	R	D	L	L													
UniRef90_G6CVM4	E	K	G	I	V	V	F	A	A	D	L	S	P	P	L	E	V	I	M	C	H	L	P	P	L	C	E	E	E	K	D	V	P	Y	C	Y	T	P	S	S	K	R	K	D	L	L														
UniRef90_Q4VG17	T	A	A	L	I	I	L	A	A	D	A	M	P	P	L	E	I	V	L	L	H	L	P	P	L	C	E	E	D	K	N	V	P	Y	V	F	V	P	K	S	K	A	R	L	L	L														
UniRef90_E5L9Q5	K	A	Q	L	V	V	I	A	H	D	V	D	P	P	L	E	V	I	L	F	L	P	P	L	C	E	R	E	D	K	N	V	P	Y	C	I	V	P	K	G	K	A	R	L	L	L														
UniRef90_A0A023B1L6	K	A	E	I	V	V	L	A	A	D	A	E	P	P	L	E	V	I	L	V	L	H	L	P	P	L	C	E	R	D	K	N	V	P	C	V	F	V	H	S	R	K	V	A	R	L	L													
UniRef90_F1L9L8	E	T	G	I	V	I	L	A	A	D	V	S	P	P	L	E	D	V	Y	S	H	L	P	P	L	C	E	E	D	K	D	L	P	Y	V	F	T	P	S	S	R	K	H	L	L	L														
UniRef90_C1G9W8	T	S	E	L	V	I	L	A	A	D	T	T	P	P	L	E	L	A	I	L	L	H	L	P	P	L	C	E	E	D	K	N	V	P	Y	V	I	V	P	P	S	S	K	M	A	L	L	L												
UniRef90_R7V0U0	E	K	G	F	V	V	L	A	A	D	T	N	P	P	L	E	L	D	V	I	C	H	L	P	P	L	C	E	E	E	K	S	I	P	Y	C	Y	T	P	S	S	K	M	A	H	L	L	L												
UniRef90_T0M3Y7	E	S	K	V	V	V	L	A	E	D	V	S	P	P	L	E	V	V	Y	Y	L	P	P	L	C	E	E	E	R	K	V	P	Y	G	F	V	K	K	K	S	D	L	L	L	L															
UniRef90_F4P827	L	S	E	F	I	V	M	A	A	D	T	E	P	P	L	E	I	L	L	H	L	P	P	L	C	E	E	D	K	N	V	P	Y	V	F	V	P	P	S	S	K	T	A	L	L	L														
UniRef90_D5GLV8	L	S	E	F	I	V	L	A	A	D	T	A	P	P	L	E	I	L	L	H	L	P	P	L	C	E	E	D	K	N	V	P	Y	V	F	V	P	P	S	S	K	T	A	L	L	L														
UniRef90_I3SFX3	H	K	G	L	C	V	L	A	A	D	T	E	P	P	L	E	I	L	L	H	L	P	P	L	C	E	E	E	S	D	V	P	Y	V	Y	V	T	S	S	K	E	D	L	L	L															
UniRef90_E4XVW4	L	A	E	F	V	V	L	A	A	D	A	E	P	P	L	E	I	L	L	H	L	P	P	L	C	E	E	E	D	K	N	V	P	Y	V	F	V	P	R	S	S	K	Q	A	L	L	L													
UniRef90_B3MAV5	E	T	G	I	C	I	F	A	A	D	V	T	P	P	L	E	I	M	C	H	L	P	P	L	C	E	E	E	K	G	I	P	Y	A	Y	T	P	S	S	R	S	K	A	S	D	L	L	L												
UniRef90_E4XGW7	K	A	A	L	V	V	I	A	H	D	V	D	P	P	L	E	I	V	L	F	L	P	P	L	C	E	R	K	M	G	V	Q	Y	C	I	V	K	G	K	A	S	R	L	L	L	L														
UniRef90_F4RBP3	D	K	G	L	V	V	M	A	G	D	I	S	P	P	L	E	M	D	V	I	A	H	L	P	P	L	C	E	E	K	A	V	G	Y	V	F	V	T	P	S	S	K	E	E	L	L	L													
UniRef90_R1FLF2	T	K	G	L	C	I	A	A	G	N	I	S	P	P	L	E	M	D	V	I	A	H	L	P	P	L	C	E	E	K	A	V	P	Y	C	I	V	P	S	S	K	E	E	L	L	L														
UniRef90_Q3T2L9	K	A	K	L	V	V	I	A	H	D	V	D	P	P	L	E	I	L	V	L	F	L	P	P	L	C	E	R	K	M	D	V	P	Y	C	I	V	K	G	K	S	R	L	L	L	L														
UniRef90_N1QDU9	K	T	S	L	V	L	I	P	A	D	V	D	P	P	L	E	I	L	V	I	F	L	P	P	L	C	E	R	K	M	G	V	P	Y	A	I	V	K	G	K	A	R	L	L	L	L														
UniRef90_C4WSM9	K	A	Q	L	V	I	L	A	H	D	V	D	P	P	L	E	L	V	I	Y	L	P	P	L	C	E	R	K	M	G	V	P	Y	C	I	V	K	G	K	W	R	L	L	L	L															
UniRef90_Q6PBV6	E	T	G	I	V	V	F	A	A	D	T	L	P	P	L	E	D	V	Y	C	H	L	P	P	L	C	E	E	D	R	S	L	P	Y	A	Y	V	P	S	S	K	V	D	L	L	L														
UniRef90_L8GS62	L	S	E	L	I	M	A	A	D	A	E	P	P	L	E	I	L	L	H	L	P	P	L	C	E	E	E	D	K	N	V	P	Y	V	I	V	P	P	S	S	K	A	A	L	L	L														
UniRef90_A0A059LN09	K	P	A	L	V	V	I	A	H	D	V	D	P	P	L	E	L	V	V	L	P	P	L	C	E	R	K	M	G	V	P	Y	I	I	V	K	G	K	A	R	L	L	L	L	L															
UniRef90_M3WV80	K	A	Q	L	G	V	F	A	R	A	V	D	P	P	L	E	P	A	V	F	L	P	P	L	C	E	W	N	M	G	F	P	Y	C	I	V	K	G	K	A	R	L	L	L	L															
UniRef90_G1M2R4	K	S	Q	L	V	M	I	A	A	D	V	D	P	P	L	E	L	V	V	L	P	P	L	C	E	H	R	M	G	A	P	Y	I	I	K	G	K	A	R	L	L	L	L	L																
UniRef90_Q66V63	K	A	Q	L	D	I	I	A	H	D	V	D	P	P	L	E	L	V	L	Y	L	P	P	L	C	E	R	K	M	G	V	P	Y	C	I	V	K	G	K	A	R	L	L	L	L															
UniRef90_R7R625	S	A	W	L	V	I	I	A	S	D	A	S	P	P	L	E	D	N	T	T	K	F	S	N	S	C	E	F	Y	E	V	Q	Q	Y	I	Y	G	T	K	E	E	L	L	L	L															
UniRef90_U1NJ31	N	A	D	L	V	L	V	A	E	D	V	Q	P	P	L	E	E	T	V	M	H	L	P	P	L	C	E	A	D	E	K	G	I	P	V	V	E	V	A	N	Q	D	E	I	L	L	L													
UniRef90_B6JVX1	K	A	S	L	V	L	I	A	N	D	V	D	P	P	L	E	L	V	L	F	L	P	P	L	C	E	R	K	M	G	V	P	Y	A	I	V	K	G	K	A	R	L	L	L	L	L														
UniRef90_K0KTK0	K	A	K	L	V	L	I	A	N	D	V	D	P	P	L	E	I	L	V	I	F	L	P	P	L	C	E	R	K	L	G	I	P	Y	A	I	V	K	G	K	A	R	L	L	L	L														
UniRef90_F7DIK6	K	A	Q	P	M	V	I	A	A	D	V	E	P	P	L	E	K	L	L	V	F	L	P	P	L	C	E	H	K	M	E	A	P	Y	C	I	V	Q	R	K	A	R	L	L	L	L														
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J A L V V R S G K Y T L G F K S T I K T L R T G
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V I G V K Q V T K A V Q K S

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