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T S A V A M V G G S Q I T Q G V R F I Q A N D D V C I V D G T I D G L T P P
M I A I C A M I S G D V T G K I L F T Q E T P R H F V K I S G Y I L N L P K
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A V A T I K S N S N V S G E V I F T E T N G K V S M V A N I K G L S A
A V A M L T A D G A E L G R A T A T E V T G G L R V T L D L H G L P P
S G Q S I G T I V V S N Y D D D G V V F A P N L T G L T P P
A T A M L Q G D G T E H G T V N I Q Q T P S G Q A V M V T L D L T D I P P
V A I H T A D G K D A G T V T L R P G K R E A V N V K V D V K N L P P
I S I Y N S E N D K I G T A T F T E R P E G V E V A L K V E G V E P P
M K A Q A E L K A S G N K V G T A T L T E R Q K K G V K V V L K V K G L T P P
V K A V A V L N S N E G V C G T I X L A E E G D G S T T V T G S L S G L K P P
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P N P T R G T V T F A A L D H G V R V S G E V R G L A P P
I Q T V D G E K K E V G Q V F L R P V D D G G V Q E V Y G K L T N L Q P P
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I G D I G N I Q I N E K N G N G T I S R T D L W C I N C E D D I I G K A I I I H
A G D M P N L E V G A D G V V N V P D V T L K G G M N Q L T D Q N G R S F I I H
V G D L E N I T A D Q K R A R A E F I T G L V T L E K L L D A D G S A L V I H
P G D F G N F T P K K G K I H K M K S N S K A T M F G P E S V L S R A V V V H
V G D L G N M L Q S A Q G V A S T Q F R D E V I S L Q G Q G S I L G R S L V V K
R G D L G N L N A D K N G H A T L F S T D K W C L G C G D N L Y N K S I I I H
I G D F G N V R E D G N G N I A E F P V P Q T S I V G P R S V I G R A V V L H
K G D I G N F E V D A N G N G T V N M S T E E W C I G C G D S I L G K A V I V H
A G A M F L K A N A N G V A K A T Y Q T L D T V T L S T E K Y D I V G L P L I I H
L G D L P A L Y V T H D G K A T Y P V L A P R L S E L K E L D G R S L M L H
N G D L P N V I A D D T G K I K A E I E A S N V S L E T L Y R K D G A S I I T
A G D L P N L E V S E E G S I Q K E L T A S R V T L S S L L K E G G T A L V I H
V G D L G N V K E D S S G E V Q V N I E D S L V K L L E G L N T V I G K A I V V H
D G D L P N I T V D K D G T V K A D I I S K N V T L D T P N S L L G T A L V I H
Q G D L P N I Y A G A D G K A M A D L Y S P Y A S L A N L D A D G S A V V I H
V G D F G N V E A J E N Q G I N A M F T D S L A T L T G P N S I L H R T L V I K
A G D M A N I F V A D R H G N V D T V L F N P R V T L N S L R D A D G S A L I I H
V G D F G N V T A D A N G N I D F S I D I P L T Q L T G S P E A L A G R S V I L H
G G D M P N I K A D A Q N A V V D S T N V N I G K L D D F D I I G R G L I V H
A G D L P N I E V G A D G K V D V T V N A P D V T L D R L L D Q D G S A F I I H
A G D L P N L R A D T Q G V A T L N Y V S R S I S L G Q A S D V I G K S V I I H
A G D L P N L E V N L D G T A K T T F V A K N V S L L Q E L F H V G G T S L I I H
A G D M P N I T V G E D G T V K M S Y V A E D V T L E Q D N S L L G R A L V I H
A G D L P N L T A D A N G V A S M N F V K K D S V A M D N S V Y R R A F I V H
L G D L P N I E A D A G G V A D A D L M L P Q T T L L D G K N G D G T S I V T H
A G D L S N L T T D E N G E V S E E F K A G E V T L Q E L L N G D G T A L V I H
P G D F G N F V A H Q G R V H K L T E S K A T A E N V K L G E A H S L L G T A L V I H
A G D L P N I E V D S D G T V S Q E F K A E N V K L G E A H S L L G T A L V I H
L G D M P N I H V P D S G K L Q F E L F L T G I A I G P L L D A D G T T V M I H
K G D I G N F T A D E K G N G K I T L T T D E W C I G C G D D V L G K A I V V H
A G D W G N I E C D D K G E V H A D M N D T I T S L V G P H S I I G R G I V H
A G D F E N I V V G E D G T A N V E F D T D Q I S L Q Q D A D E E G T S L V I H
V G D L G N V V A N E Q G I A V V N F D S V I S L T G P L S L D G R A L V V H
G G D L P A L L F P D E D G T A S L T V S T D R V T K E N L L D D D G S A L I I H
P G D F G N F V A H E G R I S E Q T I E S E A T L F G G L S V L G R A V V V H
W G D L P N L I V G T D G A G R V E A T I P G A R L T P L I D A D G A L V V H
I G D W G N F E V T G I P F M L V F N D P V A R L T G D I A I N R S I V I H
L G D L P A L T V N D K G F A T T P V L A P R L K L T D I I Q G R A I M I H
A G D L P N V T V G P D G T A N V S F K V P Y I V L D A P N N L G T A I M I H
A G D M P N F T V K P N G M A K L T V D D A A V T L G D G A N S V G T A L V I H
L G D L P A L A V D H E G N A T N P V L A P R L K K L E E V K G R S L M I H
A G D L E N I E V S E D G T V S A E R T A D M V T L E E G Q D E D G T A L V I H
K G D I S N I P V G E N G K G M L S M D V K G W T I L D D K S N I L N K A V I I H
I G D L G N I V G D A N G N G T I S R E T D L W C I V G C K D N V V G K A I I I H
E G D M P N L I V G A N G R G T I G A V L P G A T M A G L L D A D G A L V I H
V G D L G N V E A S D S G V A E F Q M H D R L R L A G N Y S V I G R T L V V T
E G D L P T L Y V D I E G K A D L P V F A P E L E L E D I E G R A I M I H
P G D F P N I T A G S D G V Q V S Y F N E R I D V D H L M D E D G A V V V H
A G D M P N L T V G A D G T D K T E F S T T G I S L D P L D S V D G T S I V I H
T G D M A N I E A D G S G M I D V K L T L S E A K L K E A Q Q S L G T S I V L S
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F E Q Q D A N S P V K V T S G E V I T G L S T K E
E P V V V S S G K I T G L T P
M V G A D G M E M G T V A F T Q T P N G V L L T L G I L T N L P E
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K S G T D T Q G T A K F T Q Q G K N V E L D L N V Y T G L T P
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A Q Q A E A N L A P A S A S L V S G R L A L V P D A R G V H I T G V I G G L Q P
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G L A R F V Q V D E E T C L L I D L T V E G L S P
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A P K T V S V V K S G S T E G E A Y F T E E N G M V K L E A K F S G L K P
A T A S A R L M T A S G Q P A G T A V L T E T P S G V E I V A Q V Q G L T A
K S G S N L T G N A V F T Q E N G E V T M T A V I D G L A E
D G A D L T G V S V R D T P S G A A L A T V T L K N L P A
A S A S A T I K D A K G D S V G L L R I D A R N N G K S R I R V V V R G L P P
S R A T A L L N E T G A V V T G T A T F E A V T T G G S T R V T V Q A F G L T P P
M R A V C L I K E N I D G N I F F N Q I N K S P V Y I E G I N G L P P
M V S A D G K E L S I G K I T V Q E T A Y G L L F T P E L D S L P E
I N T D G E S I G T A T L Q E T P H G L L I Q G K A T D L P P P
A T E N G P G A P V G S V T I S Q S P Y G L V F T P E L Q G L P P
V H L V S A D G V G A S I G T I S F Q E T P K G L L I T P A L W K L S P P
V E M F N T S G D S L G T I K L S E Q S E G V E L D V M L E G L P D
K V N A S A R D H R A
T G T G K S L G K V H V T E N S H G L I F T P E L A G L P P
D P Q G T A Q G T V T L R Q M G M G V Q V R V E A R S G L K P
S G K I V G Y V S A E Q N E Y G V V F T P N L S G L P Q
A L E S G Q G K E M G T V T V S Q S A D G L S F K A D L S G L P A
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V E M K G D G S A G T V T V T P T P H G L L S A D L A N L A D
S T L S G T L L S P E G E L R G G F K L T P A P G G L L V S A T L E N M P V
D G V G E S I G T I T V R D H E E G V L F E P D L E G L D T
L D Q E G Q E A G S A A L T A T P S G V L I E V E A T T G L P A
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K G G Q Q F V G T V T I S E S P Y G L L L T P H L S H L P P P
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S S R L N T V L K G D G K A A G T A T F V G D G E T V V V T V A A N G L P P
A R A E V G V I N G S E L L G V A T F T Q F D D T V A L S I I E G G V A R P
V E L K I D A A G T I V G T A D I T E A G S F L K I S I E A H G L P P
A M T A S A V L K S G S T V Q G S V K L A Q Q G D N R V A I A V D I S G L P A
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A E A V T L M T P D G R S A A N A T I E F T N G H A T V T L E T T V P G L P P
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L E K N N I K K S I G T I K I E E N A Y G L V F T P N L S T L P P
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A Q Q A E A V L A S A S G R V S G K L T L A P M G D G V H I S G E V G G L A P P
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UniRef90_B4M0J5	S K P D D L N T A L N A E A	L T V P N A G P P L A C C G V I	S L
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UniRef90_S5THS6	S D A D N Y A N G V D E E T	L L S T G D A G S R L A C C G V L G	
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UniRef90_POA609	E S P D D Y	R S Q P S G N S G K R I A C C G I I	
UniRef90_A0PZP2	A D A D D Y	E S Q P S G D A G R R I A C A V I	
UniRef90_UPI00047EAE38	Q G A D D F	T S Q P S G A A G A R V A C C G G I	
UniRef90_A3XMG6	A G G D N Y	S D T P K P L G G G G D R I A C C G V I	
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UniRef90_E9ER45 N G D R E V R G L A R M V Q V S S G R T L T V D L T V R G L A P

UniRef90_UPI000457370E K R V S A V I G M K G V K G Y L N F S Q L S P F D P T I F T I F L T N L N K

UniRef90_M7A212 T A A A T L K T T S G K E I G E A T F S P T G E S L A V V V K I N S S G L A E

UniRef90_Q7NIL3 I E L K N A D G L P V G N A S L T Q L S D G V R V S V Q V G L D L P

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UniRef90_J3PNM4 S S G L S G T A T F A Q S G E E V T L T L T V S G C P A

UniRef90_S4XM92 D G D L A V A G S V M V M Q T D A G I E L T G T L G G L E A

UniRef90_F0YLJ7 A V K Q V R A D N G I K G Y F S F R Q A S P F D L T V L S V N L T N L Q S

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UniRef90_Q4TAY8 N G D P T I K G K L E M V Q Q S E Y D L T N V E V D F K G L E

UniRef90_Q17HX0 A L S S G T G E N I G E I T V S E T P Y G L L F T P H L N G L T P

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UniRef90_A4SAG3 N V V G I I Q F Y S L N G T T K V H V D I T G L P A

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	50	60	70	80
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UniRef90_T1KEP7	Q A S G F R V	H E V G S E F P C G S N D S V Y	G H F N P L G H Y P G V G S	S S D Q Y E
UniRef90_W4YR39	G E H S L R V	H E Q V D I S D G C C A S V G N I	F D A R G F L H G E K A G E	Q K V
UniRef90_K1PKM5	G K H K L R F I	H E L G D I S Q G C D S C G D I	L L G R L S P Q T E K P	
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UniRef90_UPI0004647B69	G A H G L Q V	H E R G D C S A A D A S S A G R Y	F D P A A G A E Q R G V A	A
UniRef90_H6TAB6	G S H N L T I	H E Y G D E S N G I V N V G N E Y		
UniRef90_A0A016V162	G T H G F H V	H E E G K L G D S C N A A G G R F N	P N I	
UniRef90_H3E9H6	G P H A V V V	H Q F G D I S M N C T R L G P M L		L P R S S T
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UniRef90_F4S8S3	A Q F A Y H I	H T N G N C S S A L G H L D P L	Q V T D G L T C D P L M P Q Y C	Q
UniRef90_A9SNG9	G A H G W A V	H E Y G D L T R G A L S T G P A S	N F P S S A N S P T	
UniRef90_E0CU69		M T N G C M S T R P Y F N P S R K D	H G A L E D K N S H	
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UniRef90_A9V3S8	S Q H N W H V	H V D A P D L L N C A S A G G H Y N	P L D T C G V G R L Q P G C E	E
UniRef90_A9V3S8	S Q H N W H V	H V D A P D L L N C A S A G G H Y N	P L D T C G V G R L Q P G C E	E
UniRef90_J3PNM5	A A Y A Y H I	H T N G N C S S A L G H L D P L	A V T D G L V C N P Q I L S Q Y C	Q
UniRef90_E8KFD7	G L H G F H I	H E N P S C E A G L G A G D H W D	P K G T K Q H G F P W S D N A H	H
UniRef90_U3PWG5	G E H G F H V	H E F G D I S N G G C T S A G A H Y N	P D K V D H A G P E D A V R H	H
UniRef90_G7XD12	G K Y Y A T V	R D T G D I S Q G A G T S G G I W E	A V K A K V L G S E P V K E P	
UniRef90_X5KXH1	G F H G L R I	H S V G K C E S A S E N G G G A D F	A S A G S Q V S G H N T Y P A	
UniRef90_UPI00035A19D8	S K P I F S V	H E C G D L S N G C E N C G S L L		T T D Q G F
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UniRef90_K9SG01	G E H A I H I	H E V G K C E H A S D K H G A M H H	N S H S S N A L D A H D H G A	
UniRef90_E5A8M7	G T Y H A T V	R E S G D I S Q G P E S T G S I W E A A Q		A R K E G K P C H
UniRef90_UPI00037B484E		H A G A H Y D P K N T N S H Q G P Y G K G	H	
UniRef90_V4AP91	H V H E F A I	P E N A D N K C S G A S V A G H F N	P F G I T N A N G T H D Q Y E	
UniRef90_Q54RN1	S V H G F H I	H A F G D L T T D G A S I G G H W L	S G A Q V H A F P E N T S R H	E
UniRef90_D6WZU6	N S G Y H I	H I T P E F P C E A S S I Y D H W N	P L N T Y H G T P D Q Y E	
UniRef90_B8MC86	G K Y W A T V	R E A G D I S R G A E S T G G I W E	A V K N K I L G P D Q Q P Q P	
UniRef90_Q9BKB9	H L H D V Q I	Y A N G D L T S G C D N L G A K Y D	P H E D Y H S E	
UniRef90_K1QMK9	L S G G Y H S	H K W P D N V C D A Q S I S G H F D	P R M K P R S P P P D Q Y E	
UniRef90_D3BUH8	T K P G I S I	N Q F G D M T D D G S C G D I W G	L A N Q T H G L A S N N T R L	
UniRef90_UPI00034F7560	S K R A I H V	H R F G D I S Q G C D S T G P H Y N	P L S V P H P Q H	
UniRef90_C5GS91	G K Y W A T V	R D T G D I S Q G P A S T G G I W E	A L K K Q K V Q G S A L P	
UniRef90_K8EBN3	N K H G V N I	H D N P E L R P H G A P D S V K K F	G A S A C H G D G C V L N R H	
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UniRef90_S4AAH2	N N H M W H I	H V N P K N G T D C L T T G G H Y N	P L G V D L T Q P A Y G G C E	E
UniRef90_S4AAH2	N N H M W H I	H V N P K N G T D C L T T G G H Y N	P L G V D L T Q P A Y G G C E	E
UniRef90_UPI0003836EFC	K A G G Y H I	H M L P I K S C S D S N I M G H F N	P S V N P G N T V D Q Y E	
UniRef90_UPI00034F745B	N G H N W H V	H E F P M E S D S C A S A G G H F N	P Y N V S T G G N Y K Y E C K	
UniRef90_K1QXK9	N D H N W H V	H E N Q V T S D C M S T G G H Y N	P F Q V N V A Q N Y D R C E	
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UniRef90_UPI0002A49D8A	G P Y H V H Q	F P V G S G L C S N A N V G G H W N	P F G I D T M G S T H D K Y E	
UniRef90_UPI00027F8715	S S R A I H V	H V F G D L S Q G C D S T G P H Y N	P L A V P H P R H	
UniRef90_W8C2D4	N S G Y H I	H M T P E F P C E A T T L Y G H W N	P F N V N P Q Q G T T D Q Y E	
UniRef90_W4Z379	V V A P W H I	H V L P V C S P T S T Q G H Y N P F	G I T G S P P A G T F D Y E	
UniRef90_UPI0002247286	K M S G Y H V	H M T P T F P C E G T S L Y G H W N	P L N V D P S T G T S D Q Y E	
UniRef90_UPI0004439BC	L F G P Y H V	H N F G Q C S N D N V G G H A V D T	T S E T Y P V G P T H D K Y E	
UniRef90_UPI00034A0390	N D Y S F L I	H Y E R G H C N A F S A R D S G Q V	E D P S R W S G G S A R P	
UniRef90_UPI0004654B2C	N T H A F A I	H Q G G D C G G P R E S S G G V G L	T R D A I S P A W Q D D A	
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UniRef90_C1FI37	G A Y A V T V	R Q F G D T T H G V A T T G G V Y	T D A D A A A D A D I D A A R A	
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UniRef90_B0WC98	S P Y K L N V	H E C G D I S A G C E S T V G D V Y		
UniRef90_L8HCY2	G E Y D L A V	H E F G D L S D A E R S V G D V F	G R H P G Y A D K P	
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UniRef90_UPI000457370E	L A K A Y H V	H N F P D M L C S N D N L G G H W N	P F G K F P N G T H D H Y E	
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UniRef90_Q7NIL3	G K Y P I L F	H S K G K C A P D F R S S R G V F	D T H S L G H K T R P D G Q P P	
UniRef90_C1G384	G N Y W A T V	R E K G D I S Q G A S T G N I W E S	L W S L K Q N L E G S E S S	
UniRef90_J3PNM4	G F A Y H V	H E H A V D G N C S A L G H F K V L	K P S C K S E V P D Y C Q	
UniRef90_S4XM92	G E H S A H I	H E N K S C E E N G D A A G A H W I	L P N G E L G S F T C D D A G	
UniRef90_F0YLJ7	S T G G F H I	H S G T T C E A S D D V A G G H Y	F E G M A D D P W	
UniRef90_UPI000393CFB4	K V A F Y H V	H Y L P V R S C S N D S T G D H W N	P F S L N R S S P T H D M Y E	
UniRef90_Q4TAY8	R V I G P Y H V	H K F P V R S C S N D D L G G H W N	P F G L N T S A P T Y D M Y E	
UniRef90_Q17HX0	N S G Y H V	H I E G D L Q F P C E D S T V Y G H W N	P R P A Q G T S D M Y E	
UniRef90_A0A018QZ16	G I H G F H V	H T N P S C M P G M K D G K E V P A	L M A G G H L D P E K P G N I	
UniRef90_G8BES2	G P F Y Y H I	H E R S V P E N G C E A C G L H F N	P Y N S C L A Q K H D G Y C Q	
UniRef90_F2UAX0	Q L R E Y S I	Y A G P T S A D R C C T V G S L F D	P L N C E Q G E D D A A S C A	
UniRef90_U5EJ42	N E Y N L N V	H E C G D L S R G C S S V G E P I N T	Q K	
UniRef90_A4SAG3	G A H A L R V	H E Y G D L T R G M D S I G D V Y	G G E G G A G M I G I	
UniRef90_K0KU80	G V I F S Y H I	H E F V G E D G C E N S G K H F N	P Y G A C E A Q K D D S L C Q	
UniRef90_E3KF14	G E H A Y H I	H A N G N C E A T G G H L N P T G I	A D S V T C N P M V P K T C K	
UniRef90_Q59081		G K L T A G L G A G G H W D P K D T	K Q H G Y P W Q D D A H	
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 UniRef90_Q51853 E G G D N H S D H P A P L

