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

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90 100 110 120

R Y V P A L S D A T E G S G Y E V S I N D D R N R Q T G L P D A I Q A E V F L H L T T E
H F S A A E L S D E T A D S G F V I S I N D D R N R Q T G L P D A I Q A E V F L H L T T E
R Y S A A E L S R D S E H D A D E I Q V S E G A A K R R E L A A A N Y Q P E N A F F T A L L T
R F H A E L S R L I S D A D E I Q V P E L I D T H F A R Y A A N Y Q P E N A F F T A L L T
K Y S S H L S R Q T T H H D G I D V C L M S A L N K P K Y A G K D G L T S L N T E
R F S P E L S R D S E H D L T L R I A Q S A E R R E L S R A R A E S S A F T A L L T
R F V R E L S R L D L P E G L Q V A P L E E L V G Q R A R A E S S A F T A L L T
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V F S S H L S R S T T H H D G I D V C L M S A L N K P K Y A G K D G L T S L N T E
H Y R A D L S R L V S P A T L Q I R S F A E A L Q T D A D F Q D S A F T A L L T
V F N A E L S R D A W G P Y Q V D V Q A S R A Q G I L P A A I Q S S E V F L H L T T E
R Y A P E L S R C A C G P Y Q L T R L S A D N A Q F P A A I Q S S E V F L H L T T E
Q Y R P E L S R L I S N E V V I K E L L S E A Y Q E Q P E L V A N D A V F L A L L T
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V F S T A L S E D V E L P E G G I S I E P L T T A M G R L A G D V F S P F F T A L L T
R F V P G L S E I L E E P E Q G A V V G S L A D V F A G Y A D H H N Q P F F T A L L T
I Y S S H L S E N T T H H D K I D V C L M S A L N K D K P V I D N Q Y F N A L L T
V Y S S F L S E T T H H Q G I D V C L M S A A L T K E V A S K E E S N L T A L L T
V Y S S F L S E T T H H D G V D V C L M S A L T K P K F K Q K E S N L T A L L T
V Y S A E L S Q I V S P D N Q Q P E L I E G H F A K Y A N Y E T D A F T A L L T
R F Q P Q L S A V S E G D G A I S L R T A L Q Q A H P E L L Q R R E H L F V A L L T
R F S A E L S D T D T G D E I E K L T P A C Q Q T L P E A L Q S E V F L H L T T E
V Y N S F L S E T T H H D T L D V C L M S A A L N K S K Y K P S D S L T S L N T
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Q F S A E L S Q L D N L E G V L T L S P L E S T S L D K A E D V E K P G L N A L L T
L L J A P E L S S L E L P P G V R V E A L L E A V L G Q R A R A E A H P F V A L L T
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V F S S F L S E T S H D G L D V C L L E K Y K A I E A Y Y K D S I T S L N T
Y F A A E F S V L E E P P G T Q V T M L E A L F S H A F R T Q P Q A F T A L L T
R Y S S T L S S I D M G P F T Q V A L L D S Q D M L P D A V N S E I F L H L T T E
V Y A P D L S A A D L P P G I V V D N L S A L Q E R V Q K Y L A E V F T A L L T
W Y Y A R N K P D G L P E G V R I S F L E K Y Y G K N A P Y L S D G I V A M T
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W F Y K E T E K G D L P E G V L D S L D E K Y A S L A N V E A D P M V A L L T
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H Y D P H Y S N A S L P P G V R M L Q L J A S A S T L A T P E T C D V F A N L L T
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V Y H Q I R E D L E E K G V I F V D L F R E H F G S V I P S G D N K F S A L L T
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F Y K A A L P Q A K L P E G V I V S L R D A A V I E H P D L V T K D A I T A L L T
S Y D A K L S N V S L P S G V V V G S L N D L P N N F D P S K Q D A F S A L L T
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F Y T R Q L P Q A H L P E G A T I V D L V E P Y Y G R L A Q T G A D A L V A L L T
K S D A K V P A L D G V T V Q S L S E A P G L D S Y G S D D A L G A L L T
V V Y H Q L R E D L E T Q G V V I E L F Q E Y F G T V V P A G D N K F S A L L T
W Y Y S G N E Q L T E T K G V V T L V E K Y Y G K M A D P E K D P L T A L L T
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F Y N K A L P K V E L P E G V I V D S L A K Y Y A K I A K T D E D G L T A L L T
V A A Q Y F T D T D T G L R E Y P L E F A K Y Y F G T V I P A G D N K F A A L L T
V Y H S I R E D L E A Q G V I F L D T D T A L K E H P D P A G D N K F S A L L T
Q Y E S E F T D T D S A I L R D Y P E L V R E H F G T V I P S F D N K F A A L L T
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S L A Q S V T H I 130 K R G Q R P A K L L L M H H I T Q G V A G E E V N T A H Y
S L A E T V T H I A D V D R R N T Q P K K R T L L L M H H I V T Q R G S G Q Q V M A T A H Y
S L A E E V T S I H L R S P A N T T S A T R Q A L L Y L L R F L T S S T G S S A Q A E K N I T S H Y
S L A S D G L V I R V P K N K L V N K P I Q I L L H F S D T R T S E E A V M L Q P
A F S S E G A Y L H V P K N K L V N K P I Q I L L H F S D T R T S E E A V M L Q P
S L A E E G V T F M Q L A R G T A A A R P L Y L L L F L A R S S G S T A G E L N S L A S H Y
A L L E E G A V W V D V A P G A C P E R P L V Q L L L H F S D S T P A D S L N T V H Y
S L S A S V T H I D V A P G A C P E R P L V Q L L L H F S D S T P A D S L N T V H Y
A F A T J E G A F I N I P D N K K V A D K P E I E I M Y F S T G T G N E A A L M V Q P
A F A Y D G V F I R V P D N K K V V E E P V I L R F I T D V R T Q N V A A Q P
S L A S T S T L I R L A A G Q Q A E K P L Y L L L H H I S S S Q A A A L N T V H H
S L A Q E S T L H I R L P Q G E T S D K P L Y L L L H H I S S S G S N D A E A V N T S H Y
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A F A S E G A Y I Y I P K N I E V S Q P I Q I L L N F T T T G S E P A T M I Q P
A L S E E G A V V Y I G Q G T V V D K P I Y Y V V F A S R R A N E A P R M S H P
A F M A D G A Y L Y I P A K A V L T K P I Y H L L F I T T F S T G N E S S L L L Q P
A F T K E G A Y I H I H K N I T M A D K P I Q I L L F I N F S T G N E S S L L L Q P
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A F F D D A A V I Y L P H E A Q L E K P I Y L L L F I S S A G N T S E A L M S T P
S L A Q D G L N I R L A A G K Q A E K P L Y L L L H H I S S S G R A N E A V N T S H H
A F T K E G A Y I N I P A H K E V E K P I E I L F Y I N S F S T G N E A A M F L Q P
A H M S D G F Y L H V P K N S K I E K P I H L F Y I N S F S T G N E A A M F L Q P
F L M Q E G A Y L H V A A N D S K I E K P V E I L V I N S S Q N G E T N D N L F A T H
A L L E E G V F V R V A P G T V A Q V P V V Q L L F L V S S G D G A A Q V L A S P
A Y A E E G A L I E I A P A K A E V S L P I V L H F L S R S R Q G G T A A M H P
A F F E E G A L V R L P A G T V V E K P I V L Q F F L T T A P T D D D R M T H P
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A F M A D G A Y L Y L P P R T V L A K P I V L Q F F L T T G R S E A V V T H S
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A G F D D G L V M L I D A K V R L R L E P V E L L N I S I G L D A E E P G L A Q P
A F M E E G A V I R L D R G C V V E K P I V L Q F F L T T G R S R E N A E P T M C H P
A F A K E G A Y I N I P N N K E V D K P I E I L I H F S T G N E T A L M M Q P
A L A E D G A L V I P A A H T T V E K P I H L V L F F S S D T G A T P L M T H P
S L A Q Q P L V I H L G A N Q T I A Q K P L Y L L N I F S S G S D G D T V N T S Q Y
A G I S D V A V V L V A K N V I V E T P I H L V F I L M S A V A G E E T I S Q P
M F A S D G F Y I H I P R G V T V E K P V V Q V V N I L M S E E E L M T T Y P
A L M H D G L C I V I P A N V S I T V P I H L V L F V S S A G D Q D P W M S H P
A F A G E G V Y L E V A R N V E L E K P V V Y V L F V S S A G D Q D P W M S H P
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A L A Q D G A L H I A A G K H L E Q P V H L V F V S R T O A G G S A S F T
G L A Q E T C E I H L P A G K T P G K P L Y L L H I S S G R E T E D M N I L H Y
A C I H E G A F V Y I P D D D T I V D Q P I E I L I F I S S G Y S T E E E V I S Q P
S L A Q Q P L V I T L K A G Q V A E K P L Y L L N I T S G Y C G E A L N T S H Y
A G M D D G L V L F V A R G V V L E R P I E L I H L L S V G L D E P R V A Q P
A V W S G G S F I Y V P K G V K C D I L Q A Y F R I N S E N M G Q F E
A S V E N G G F V R V Q D G V A A S K P V H V L S I A T D A G E P V A S H P
A V W S G G S F I Y V P P G V H V D I L Q A Y F R I N T E N M G Q F E
A A I A D V A V V I P K N V V E T P I H L L F I V S T A S V A P L V T Q P
A L A S D G A V I R L A R G V E L E K P V H L L F I V S A A S Q Q A A S F P
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M F A Q D G V C M Y I P K N V V L E R P I Q L V N I L R S D V D Q A F M V N R
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L L A C D G L F V Y V P K N M V V E K P I Q V V N I L R S D T G D T D R M V N Q
M L A Q D G L F I Y V P R G V V V E R T L Q V V N I L R S D V D L M A N R
A Y K Y G F E L K V P K N V V I E K P I H V F E Y I S Q N Q E E N T F Y N T
A G I S D A A V V W I A Q N V I V E T P I H L L F V A V V G E Q A T I S Q P
A L F E D G V L I D L G P G E D G G V V E V L H V T L A D R P V A A H P
A F T E G V F I H L S K T K H E K Q P V Y I Y H L T T A E H E P G F T Q P
M L A Q D G L F I Y V P K N V Q L E R T I Q V I N I L R S D V D L M V N R
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QUERY UniRef90_S3JC96 UniRef90_UPI000467EE1A UniRef90_UPI00035E6431 UniRef90_T2KRB4 UniRef90_D41Y7 UniRef90_S9P6C0 UniRef90_I2B8B7 UniRef90_A5FKQ4 UniRef90_I0K8I2 UniRef90_C6DKM7 UniRef90_C4U5X3 UniRef90_UPI000344F2CC UniRef90_A2TYS4 UniRef90_Q1QY68 UniRef90_D5BWY9 UniRef90_D5BCR0 UniRef90_C0BL69 UniRef90_A3XHH9 UniRef90_I2EXJ7 UniRef90_S0EXB8 UniRef90_UPI00036F3DA5 UniRef90_I3YV14 UniRef90_UPI000369CCB4 UniRef90_CON7U0 UniRef90_Q09CC4 UniRef90_M7N9G6 UniRef90_W1N829 UniRef90_G2LLD7 UniRef90_Q3J8A5 UniRef90_UPI000372CB2D UniRef90_UPI0003B4C178 UniRef90_H8Z4V2 UniRef90_UPI00034A4CCC UniRef90_H6RHV0 UniRef90_J3ASA8 UniRef90_I0DZC8 UniRef90_Q8YU60 UniRef90_UPI000237C296 UniRef90_Q0AGP0 UniRef90_UPI00046F8B88 UniRef90_X5DVF3 UniRef90_D3RQ84 UniRef90_L7W8A4 UniRef90_D1CCT9 UniRef90_J0UXX3 UniRef90_W0LIY1 UniRef90_UPI00036485D1 UniRef90_U7QV17 UniRef90_G2E135 UniRef90_M9M1N8 UniRef90_I0IB41 UniRef90_S5SUZ8 UniRef90_K9XJK7 UniRef90_F4GTZ6 UniRef90_F8GL38 UniRef90_F8GPB1 UniRef90_UPI0002D78295 UniRef90_UPI0002D82BB9 UniRef90_UPI00046E8521 UniRef90_R5V952 UniRef90_UPI00047B9CB4 UniRef90_UPI00046ACB4F UniRef90_UPI0004789B04 UniRef90_R5NXQ5 UniRef90_D7VV70 UniRef90_A0ZAJ0 UniRef90_D5RT50 UniRef90_UPI000402F167 UniRef90_D9RRD6 UniRef90_L1N0V6 UniRef90_J7Q9M3 UniRef90_UPI000375F1B8 UniRef90_C7NHK6 UniRef90_Q0F1D0 UniRef90_R5FSI9 UniRef90_UPI000346F86F UniRef90_W6MED2 UniRef90_R6VQ79 UniRef90_Q98NR4 UniRef90_H2GB88 UniRef90_UPI0004714A44 UniRef90_J3TWW0 UniRef90_R6AUM6 UniRef90_U2PT07 UniRef90_A1UFS0 UniRef90_D5SP72 UniRef90_K2D177 UniRef90_UPI00036B13B3 UniRef90_C4LIQ0 UniRef90_D1NY64 UniRef90_UPI00047B91B2

170 180 190 200

R H H L D L A E G A E A T V I E H F V S L N D D A S H F T T G G S R F F T A E V V A A N N A
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250 260 270 280

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

QUERY K G F C N S R Q L H K T I V S D K G R A V F N G M I N V A Q H A I K T D G Q M T
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UniRef90_D41Y7 K G Y D C Q T S R R E L L Y K G I F L D D D N A R A G T V F N G K I F V V R P D A Q K K T D G Q M T
UniRef90_S9P6C0 Q P D C C S R R E L L Y K G I F L D D D N A R A G T V F H G K V F V R P D A Q K K T D G Q M T
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UniRef90_D5BCR0 Y P N C E S R H Q Q D Y K G I F S D D K S T G V F F N G K V I V V E K E A Q K K T N A Y Q A
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UniRef90_I2EXJ7 K P N C C Q S S N E L L Y K G I V L M D K S T G V F F N G K I F V V R Q D A Q K K T N A Y Q N T
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QUERY	330	340	350	360
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UniRef90_UPI00035E6431	C K N V V L L S S D K A T V N S T K P Q Q Q L L E I F A D D D V V K C C C S H H G A T T V I G R R I I D D D D E E Q Q			
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UniRef90_I2B8B7	N N N N L L L L G S R R L L A E E V D T K P Q Q Q L L E I Y A D D D V V K C C C S H H G A T T V I G R R I I D D D D E E Q Q			
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UniRef90_I0K8I2	C K N V V L L S S P E A S M N T K K P Q Q Q L L E I Y A D D D V V K C C C S H H G A T T V I G R R I I D D D D E E Q Q			
UniRef90_C6DKM7	N N N N L L L L G S R R L L A E E V D T K P Q Q Q L L E I Y A D D D V V K C C C S H H G A T T V I G R R I I D D D D E E Q Q			
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UniRef90_A2TYS4	N N N N V L L V S S D K A T I N A K P Q Q Q L L E I F A D D D V V K C C C S H H G A T T V I G R R I I D D D D E E Q Q			
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UniRef90_C0N7U0	N R N L L L L S S E E A L V D T R K P E E L L E I L A D D D V V K C C C S H H G A T T V I G R R I I D D D D E E Q Q			
UniRef90_Q09CC4	N R N L L L L S S E E A L V D T R K P E E L L E I L A D D D V V K C C C S H H G A T T V I G R R I I D D D D E E Q Q			
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UniRef90_UPI000372CB2D	N A N L L L L S S E D R A E I V D A K P E E L L E I Y A D D D V V K C C C S H H G A T T V I G R R I I D D D D E E Q Q			
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L E T Y E K L G I P L
L E T Y N K L G I P L I E E Q K
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R F A A G L S A L D L P A G V R I A L G Q V L R Q D P D A V R A H L F A A L N T S
V I F C S I S E A I R E H P E L V Q K Y L A S V V P V G K D N Y Y A T A L N T S
V Y A P D L S A V L R P E G V Y V L P N A Y Q E R I P N Y L G V S K D V F A A L N T S
V Y H Q I Q K D L E D K G V I F V E L F K E Y F G T V I P V G D N K F A A L N T S
I Y A P E L S N A D L P V G V V S L S V Q D K Q E R V S K Y L A E V F T A L N T S
V I F C S I S E A L K E Y P E L I F E E Y F G T A I P L G D N K F A S L N T S
Q Y E S E M R E D L E K G V I E T D M D E H F G T I V P V A D N K F A S L N T S
V I F C S I S E A L K E Y P E L I Q K Y L G T V V P V A D N F F T A L N T S
F T D T D S A L K E H P E L F K K Y F S K L V P P T D N K F A A L N T S
V V Y H Q I R E D L E A Q G V I F E L F K E Y F G T I V P V G D N K F A S L N T S
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Q Y D S E M K E D L I K Q G V I Y T D M E E H F M K C V P V S D H K F V A L H G
I I F C S I S E A L R E Y P E L V Q K Y V I G A L V V P V G D N F A A L N T S
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Y F S E K H S I K A L N D K I I E A N S S I F D K F V S D S V S I F S D I N T S
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S I K Y S T V Q Q N W Y P G D E N V T K R G A C R G R N S K I S W T Q V E T G S A
K L Y H T T L Q T E G P Q A I A L A T T Y V Q V A G H G V Y N S F A L G L G S L
E I K Y S T V Q Q N W Y P G D Y N F V T K R G D C G D R S K I S W T Q V E T G S A
Y C R Y T T I Q Q N W S K N V Y S L E T K R A A A A E N A T M E W V D G N I L G S K
Y C R Y S T V Q Q N W S N N I V N L V T K R T L V E E D G T M E W I D G N V G S G
R V R Y T T V Q Q N W S N N V Y N L V T Q R A Y V R E D G T M E W V D G N I L G S K
R L S H S V L Q A E A A E A F H V A M T S V R L A D K A T Y D G F V L A T G A R
N I R Y S T V Q Q N W S P G D Y N F V T K R G E C G E G A D S K I S W T Q V E T G S A
R V R Y T T I Q Q N W S T N V Y N L V T Q R A I C E E G A T M E W V D G N M G S K
K V L H Y K I Q R E S K S A Y H M G H L A V N L A K N S Q F D S H S L S L G G K
Q V V N H S R I Q R E A A G K S F H I A K S T I A S Q K R D S N Y T I N E I S F G G K
E V K H T R V Q R D A Q A F H I G R T A I S Q A R T S R Y T I N T I S L G A K
E I K Y S T V Q Q N W Y P G D Y N F V T K R G H C G A R S K I S W T Q V E T G S A
E I K Y S T V Q Q N W Y P G D E N F V T K R G L C K G A R S K I S W T Q V E T G S A
E E V K Y S T V Q Q N W Y P G D Y N F V T K R G D C C G A R S K I S W T Q V E T G S A
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H H H T V L Q Q A A S G A S L I R R T S L R L H A R A H A T L H L A E L G G A
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K I Q Y I T V Q R N W A P N V Y N L V T K R G L A M E N A E V K W I D C N G S R
D V N H V Q E N D A G S A F H I G T A V T Q A R D S R Y R F H A L T L G A Q
R L R Y T T V Q Q N W S N N V Y N L V T K R A I A E R D A T V E W V D C N L G S K
H A Y Y Y R L Q N E N R K A I S V T N F A T D I H R D A D F T S V A L Q L Q A D
R V R I A S L H T H E G Q G V T E A N Y R R T V V G R D A D L E W I V G D L N S G
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A L I H A K L Q A E D P A A Q H L A V H A E V G A G A S Y D S F T L T L G G A S
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UniRef90_R5ZQ53 C E S L M L D D I S M S D T Y P T N D I I R R N D E V E F S H H E A K I I S S D K D T Q
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A N A L L L S N D A E F D S K P E L E I
C D T I L M D D S A S S D T F P V E N D I
C D T I L L M D D I S R S D T V P V N D I
S R V L M L S E K A R G D A N P I L L I
S Q S L L L D D D A Q F L A K P E L E I
C S S L M L D D I S R S D T I P A M D V
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330
340
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360

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UniRef90_R9XYR9	L	F	Y	F	L	Q	R	G	I	P	N	I
UniRef90_V7I6V8	L	F	Y	L	L	M	S	R	G	I	T	S
UniRef90_M4XPk4	M	F	Y	L	M	S	R	G	I	P	T	K
UniRef90_H3NLV7	I	F	Y	L	L	M	S	R	G	I	S	E
UniRef90_U2JSR6	L	F	Y	L	M	T	R	G	I	P	P	S
UniRef90_X7E5H0	L	Y	Y	L	Q	T	R	G	I	V	S	R
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UniRef90_C4ZMD4	L	F	Y	L	R	S	R	G	I	V	D	A
UniRef90_B1MVR4	L	Y	Y	L	L	M	S	R	G	I	S	P
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Y N D F Y I G E G A D V I V A G C G I H N C G T S K H D G V H T F Y L E K N A
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S V D V V A A P D S A L T L T V I S L D S D A S E P A F T G S T L R V F A G A R S
Y N D F Y V I E D G A D V R I V A G C H N S G C N E S R H D G I H T F H V G K N A
Y N D F H I G E G A E I I A G C H N C G C D D S V H E G I H R F F L G K N S
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T I L I G D G V N A S L F M L G L G G C P S T T V E I Y L G R N S
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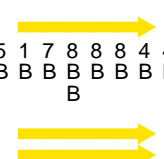
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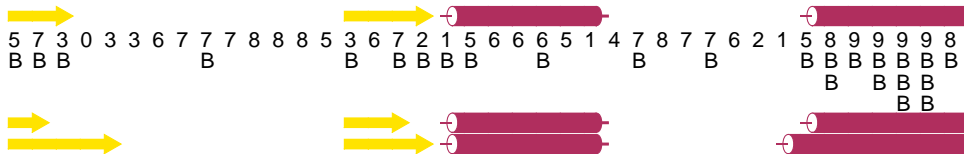
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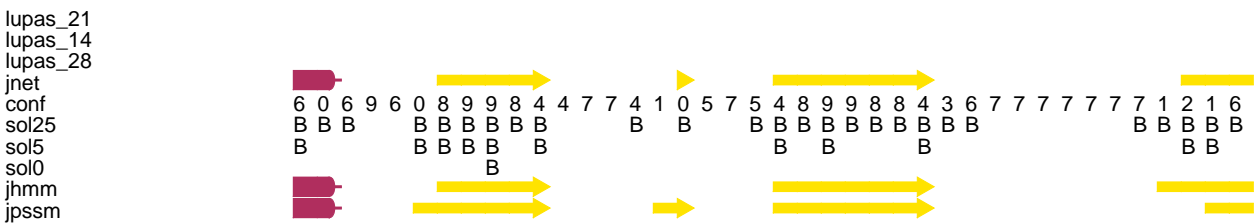
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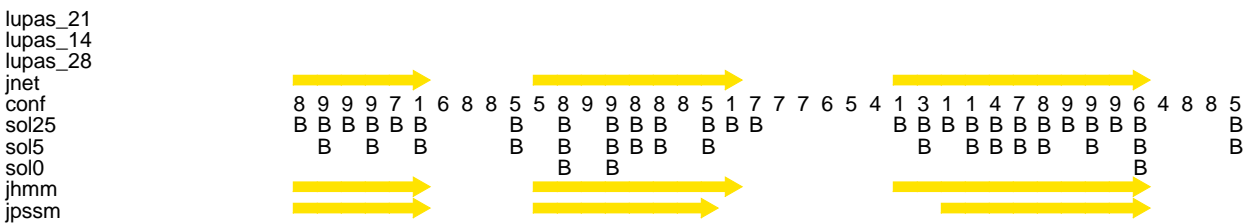
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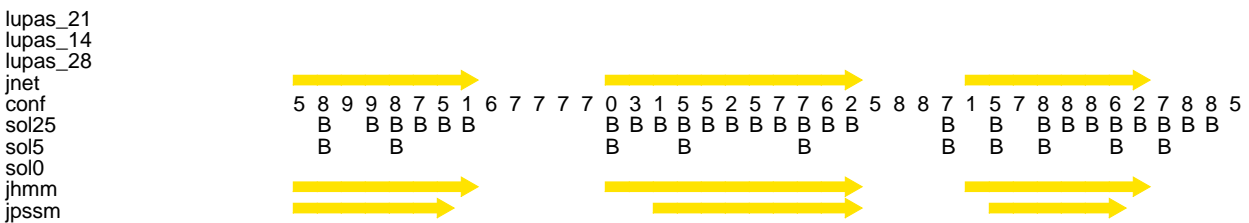
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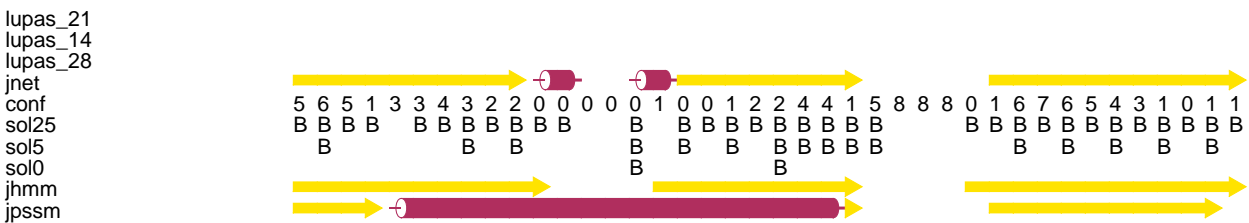
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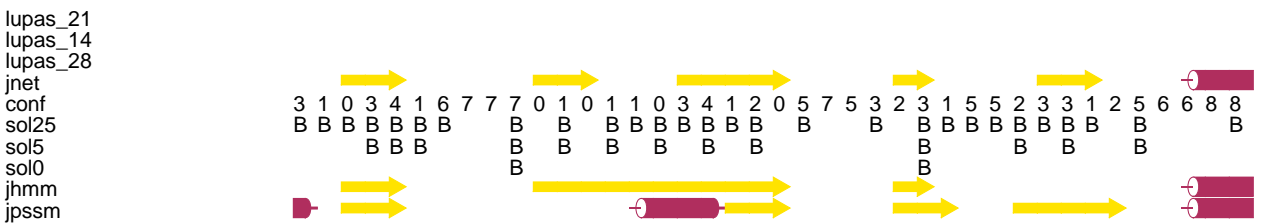
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UniRef90_R8VU66	H	V	L	Y	Q	E	K	H	I	G	T	G	T	G	R	I	D	P	I	T	D	I	Y	L	K	E	N	A	V	L	E	M	D	T	V	Q	L	R	G	V			
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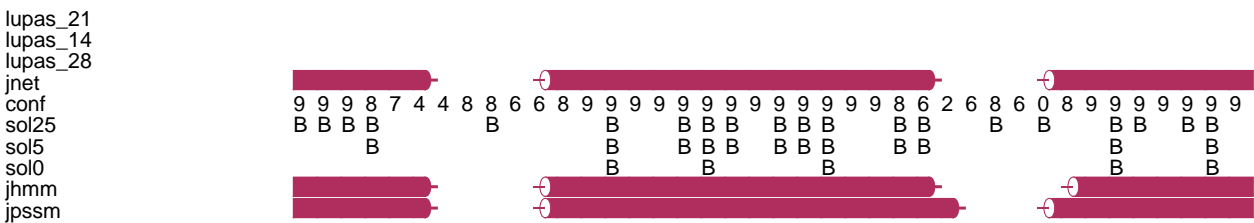
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D I L M E
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D V I S K

S E I K R R M R

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