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UniRef90_J7LJ09 M H L N P Y G Q D P L T L A V D L V N H P P E H P E D L E R C S E H
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E T F L N R Q V S G V G E L G D E A D L E G Q V R A L R E A L H K V F T A P D
S E T L R Q E Y P Y S G V R R D D E A V E L S A E L R S E T A R R S Q L R Q L R F T A W T G D E
U N I R E F 9 0 _ I 0 H 8 Y 8 S E L L R A G Y V Y S G R D R H D E A E L S A A V R D V R D R A L R E L R E V L W T L E
D A Y L A V N P Y T G V R R D E A E D L S A A V R D V R D R A L R E L R F R E A L W Q R V D
U N I R E F 9 0 _ U P I 0 0 0 3 B 4 B 3 7 B D D F V T R W G W T G P I R H D E A E L E Q V V R G R L R P L F R E A L W Q R V D
U N I R E F 9 0 _ W 0 Z 9 Q 9 D D F L R V H P Y T G G R H D E A E L A E M R D I R G R L R R P L F R E A L W Q R V D
U N I R E F 9 0 _ D 3 Q 6 L 6 A T V L S A R K R D R H L L T A T E T T E E V Q A L A Q R L R P I F T A V S L A D
U N I R E F 9 0 _ D 6 Y 8 K 3 Q D F V L R R R L I S G G T V T E R A E L L E N S E V R A L R E V E R S V F T A V S L A D
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U N I R E F 9 0 _ U P I 0 0 0 3 8 0 1 4 A D D E Y L R V N P Y T G L I R R D S E S E L E A I R A I R P R L R R L W E V D
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U N I R E F 9 0 _ S 3 Z Q M 9 N E F V K H A S D V G V L T E T E T D L Q E V R E L R P L F A P V F T A T S S
U N I R E F 9 0 _ D 2 P K U 3 E K F V Q E R E F A V G T L T E T D L Q E V R E L R P L F A P V F T A T S S
U N I R E F 9 0 _ U P I 0 0 0 4 7 D 9 1 4 D T A V N A V W G E A G G R A T E K E D L L G E L A A V A L R L R E V F E A V A D G
U N I R E F 9 0 _ N O C K 7 0 Y D F A E R H H S G V G T L G E A K D L G A V R A D V R S R F A E V F A A P D
U N I R E F 9 0 _ R 4 L Q K 1 R T L L E Q C T F S G R I D H D D A E V R D M R Q L R A Q L H Q L W S L D
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U N I R E F 9 0 _ U P I 0 0 0 2 D 6 E 5 4 2 E R T N V S G V G A L S E D D V R A V R A V R E R F A Q V F A T E D
U N I R E F 9 0 _ U P I 0 0 0 3 5 C C 1 E 3 A A L Y A Y N L S D V G D L G E H D L N A V R E V R D R F E N V F A A P D
U N I R E F 9 0 _ U P I 0 0 0 3 6 1 3 0 E C D E F F A A Y D W A G T W R T K E L K A V Q E L R P R L R E L W D A
U N I R E F 9 0 _ U P I 0 0 0 4 6 3 4 0 1 E A A V G M E A L Q G I S R L T A D E A A E L A A V A R E L R V V F E A V A A G D
U N I R E F 9 0 _ Q 9 L 2 6 7 Q E F V G T H E I S D V G V L T E F D L S A V R R I R A R F A A V F A A P D
U N I R E F 9 0 _ U P I 0 0 0 2 E C 8 9 8 9 R A F V E S H G V Q V G A L G E R D V A D M R A T R E L F A R L F A A E S D R
U N I R E F 9 0 _ C 0 Z S 5 4 E R V D A G I L D F P I A E K D L D E T L D L L I E W S K I V D V T E
U N I R E F 9 0 _ E 3 J 8 S 5 D D F F D E F H Y T G R R D H D E A E L A A V R A L R A D L R L L T S A G
U N I R E F 9 0 _ U P I 0 0 0 3 F 5 8 6 7 E D V F V Q E Q F Y T S G S R T H D E A E L A A V R R M R Q L R A I W T A G
U N I R E F 9 0 _ X 0 M X 9 5 E F V R R N E V S G V G S L G P D D L A A V R A V R A R F A E T F A A G D
U N I R E F 9 0 _ E 3 B 7 F 0 D A F V I E S W G Y T G T H E R T H A E L D E V R A L R P R F L E A W S L S
U N I R E F 9 0 _ U P I 0 0 0 3 9 D 6 6 6 9 K E L F R N S G N F T R R A T D A D V S R L R Q V R G R L R G V F E A E D E G D
U N I R E F 9 0 _ C 8 X D 6 9 D R F V R T W G W T G S R R H R D E A E L A A V H A L R P R L R P I W D A D
U N I R E F 9 0 _ U P I 0 0 0 4 7 8 4 6 1 6 D E F F A G S Q Q Y T G R R D T G A E L E Q V L D L Q P K L R E L L T A D
U N I R E F 9 0 _ F 8 J P B 8 R A L F G S Q Q S A R R A D G E A D I T R L R A V R T R L R A V F E A A S E G A
U N I R E F 9 0 _ U P I 0 0 0 4 7 B 4 E E 8 R E L L E R N E S D V S G L A E R D L E V R G L R D R F H A V F L A A D D
U N I R E F 9 0 _ C O Z N 0 7 T R F L D A D H W T G R R D T R E E L T A V R A L R P R L R K F W E A A G
U N I R E F 9 0 _ U P I 0 0 0 4 0 4 C D B 0 D E F V L R Q E Y T G S R T H D D V E L Q A V R A L R P D L R K L W T V S
U N I R E F 9 0 _ V 6 L 2 R 6 R E L F G P S R Q M A R R A T D G D V A R L R A V R T R L R A V F E G A A E G D
U N I R E F 9 0 _ U P I 0 0 0 4 7 B B 9 B 0 E G F R T W D Y T G R R T P A E L A E V R A T R A R L M L L R S D
U N I R E F 9 0 _ S 7 W 2 G 4 Y D L I M R F R Y T G R D R D P A E V A E V R L V R R I R R V W R L T
U N I R E F 9 0 _ U P I 0 0 0 4 7 C 6 F C D V D W C I H A E V L T P S E A G D V L K Q A I E M R E V M Y R I F K S I S K G P
U N I R E F 9 0 _ U P I 0 0 0 3 6 A 8 E 6 2 K Q F Y L A D H G E P T A T V D E D D L A A M K A I R E R L R P V F H A E
U N I R E F 9 0 _ U P I 0 0 0 3 A 2 8 7 E 4 D A F Y A E W G W T G R H D R D E A E L R G V H E L R T R L V R L W E L D
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U N I R E F 9 0 _ Q 5 W A M 5 V N W L L E K A E N Q P A K A K E V L Q Q A I E L R E S I Y H V F S L V S I N E
U N I R E F 9 0 _ G 8 N N Q 4 F S W L R Q T G L A P V G V T E S L V R A A H A L R S V I R I L L I E A R K A G K
U N I R E F 9 0 _ U P I 0 0 0 4 7 6 1 A 8 4 K A L F P E P W M C E D P T D R D L Q I F R R A Q R L R D V F E H G S G G R
U N I R E F 9 0 _ U P I 0 0 0 3 0 9 9 8 4 8 R A L F G P M Q Q L A R R A G E A D I T R L K G V R T R L R A V F T A A A D G D
U N I R E F 9 0 _ X 4 Z U R 8 K S W L T A H G L P A P A D S A Q L Q E L K K L R G C L F D T V R E I V D G G
U N I R E F 9 0 _ U P I 0 0 0 3 7 3 F 0 E 6 H R L L L D I L D F N T G P P T P A D L A A V R R L R T R L S A V L T A D S
U N I R E F 9 0 _ I 6 S D W 7 A G W L I K V G L L L P D Q I P D G L L I E A R E L R D T A R N V V N S A M N S V
U N I R E F 9 0 _ U P I 0 0 0 2 D A F 9 7 A D R F L A E Q D F S G S R A T A N E Q L A A V V L R A E L E E V W T S T
U N I R E F 9 0 _ U P I 0 0 0 3 7 1 8 B 6 5 A D R C R S A G L V L E R P T A N E Q D L D R A R Y A L E S W E K V V D A A P
U N I R E F 9 0 _ F 4 F G S 1 N D F F T V H S Y S G R H E H T E A E L R A V R A L R P R L R R I W H A D
U N I R E F 9 0 _ U P I 0 0 0 4 7 8 E D D 9 A G L L D L W E F T G R R D G D D A E L E A L R E L R G R L R R L W T A T
U N I R E F 9 0 _ U 2 Y J 3 3 D A F L S E F A F T G A I V R D D A E L Q A M R G I S R L H E L W E L D
U N I R E F 9 0 _ U P I 0 0 0 3 0 C A E E 0 E R F V T L H D F T G S E A S A F D V A A V A T L R E R F R V L D G D
U N I R E F 9 0 _ U P I 0 0 0 4 7 C 1 6 4 E D T F L T E Q R F S G S R T H T R A E L D A V R A L R A E L I L W F A P
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U N I R E F 9 0 _ N 1 U X 7 5 D E F L R V N E F T G S R T H T M H E L R A V R H L R P Q L R A V W T A D
U N I R E F 9 0 _ F 3 Z 7 Z 2 R A L I G A D T Q A A R R A G E A D V T R F R G V R A R L R A T E A A D G G E
U N I R E F 9 0 _ J 7 L J 0 9 R L L L E R A V T G E D L E A V R G F L R W E G V I E A P
U N I R E F 9 0 _ M 3 B 9 C 8 R D M F G P G S Q M A R R L T D G D V T R L R G V R T R L R A V F E A A A E G D

QUERY UniRef90_D2AZS3 UniRef90_A0A031FXG3 UniRef90_I0H8Y8 UniRef90_UPI0002EE81C4 UniRef90_UPI0003B4B37B UniRef90_W0Z9Q9 UniRef90_D3Q6L6 UniRef90_D6Y8K3 UniRef90_A1RC04 UniRef90_UPI00038014AD UniRef90_UPI00047A9E1F UniRef90_S3ZQM9 UniRef90_D2PKU3 UniRef90_UPI00047D914D UniRef90_NOCK70 UniRef90_R4LQK1 UniRef90_M7MZ36 UniRef90_F2RCS0 UniRef90_G8SJB4 UniRef90_E4N7V8 UniRef90_G2NS97 UniRef90_E6SCA5 UniRef90_D1A505 UniRef90_UPI00036750EB UniRef90_E8NGB0 UniRef90_W4ARA2 UniRef90_UPI0003B7050B UniRef90_UPI00039FFFC5 UniRef90_D9WVJ1 UniRef90_A0A024YKN9 UniRef90_D5UQE6 UniRef90_A0A011SJ80 UniRef90_M3A6L9 UniRef90_UPI000375F376 UniRef90_W1SJ67 UniRef90_V6JK51 UniRef90_UPI00039EB0BF UniRef90_UPI00047D9661 UniRef90_UPI00029A4DE2 UniRef90_UPI00047CE8BA UniRef90_A3TPW9 UniRef90_V6L7B3 UniRef90_Q7ND30 UniRef90_D2ASW3 UniRef90_S6I4R8 UniRef90_UPI0002D6E542 UniRef90_UPI00035CC1E3 UniRef90_UPI00036130EC UniRef90_UPI000463401E UniRef90_Q9L267 UniRef90_UPI0002EC8989 UniRef90_C0ZS54 UniRef90_E3J8S5 UniRef90_UPI0003F5867E UniRef90_X0MX95 UniRef90_E3B7F0 UniRef90_UPI00039D6669 UniRef90_C8XD69 UniRef90_UPI0004784616 UniRef90_F8JPB8 UniRef90_UPI00047B4EE8 UniRef90_COZN07 UniRef90_UPI000404CDB0 UniRef90_V6L2R6 UniRef90_UPI00047BB9B0 UniRef90_S7W2G4 UniRef90_UPI00047C6FCD UniRef90_UPI00036A8E62 UniRef90_UPI0003A287E4 UniRef90_UPI0003798562 UniRef90_D2AZ10 UniRef90_D6B9A7 UniRef90_Q5WAM5 UniRef90_G8NNQ4 UniRef90_UPI0004761A84 UniRef90_UPI0003099848 UniRef90_X4ZUR8 UniRef90_UPI000373F0E6 UniRef90_I6SDW7 UniRef90_UPI0002DAF97A UniRef90_UPI0003718B65 UniRef90_F4FGS1 UniRef90_UPI000478EDD9 UniRef90_U2YJ33 UniRef90_UPI00030CAEE0 UniRef90_UPI00047C164E UniRef90_UPI00041BC385 UniRef90_N1UX75 UniRef90_F3Z7Z2 UniRef90_J7LJ09 UniRef90_M3B9C8

90 100 110 120

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

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130 140 150 160

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UniRef90_D6YQH8	K A H R R R W C	S M A C	G N R A K V	A R F R A
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UniRef90_U1LFG1	K S H R R R W C	S M S C	G N R K K V	A A F R S R
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UniRef90_D6YAS8	R N G T R R F C	S T A C	Q N R V K T	A A F R A R
UniRef90_S9S3T4	K S H K R R W C	S M A C	G N R H K V	A E Y R K R
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UniRef90_D1ACF9	A D R S R R Y C	S E H C	A A R	
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UniRef90_H5XAU3	K N G L R R W C	S M A C	G N R A K A	S R H Y Q R
UniRef90_A8LZH1	S N C C R R F C	S E R C	A T R S H V	
UniRef90_I1DTT8	K A H K R R W C	S M T C	G N R Y K A	A Q F R K R
UniRef90_D9VFL4	R N G R R R F C	S T R C	G T R V N V	A D H R A R
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UniRef90_A1SNQ8	P N R S R R Y C	S E R C	S S R A N V	A A F R A R
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UniRef90_F8FRA6	R N R S K R Y C	D D K C	G N L M K V R R F R	
UniRef90_UPI00036DF0EF	T N R S R R Y C	S D R C	A T	
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UniRef90_W7SQD7	R N G R R R F C	S T R C	A T R V Y V A D H R Q R	
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UniRef90_UPI000361C054	R N G R K R Y C	S D V C	A N R A N	
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UniRef90_UPI00036EA1D6	R P G R Q R Y C	S H A C	A N R D A V R R H R H	
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UniRef90_UPI00037ED479	Q S R S R R W C	D M T C	G N K E K K A R F L A	
UniRef90_UPI000420F46F	K N G T R R W C	S M A C	G N R A K A A R H Y E R	
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W K G L G H L F A A I V S T Q R E G Y W P R M K V C A A G A C C Q E A F Y D T S
V E D A L S V I A A D A I S I T A G E R D H R M A L L C A S P T C C Q A A F F D T S
A A D A L A P I L D A A E L V T A G D H E R L F C A S P S C C D W L F E D H T
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T S W L G R S C A A A L A H V I C G S D P H V T V G R C C A Q A D G C E R F Y L D D S
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P R Q A L S H L A R E A V E I T G G D D A A L L R E C C S R P E C C T Q V Y L D T S
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80

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