

QUERY UniRef90_A7FPH4 UniRef90_W6RY7Y7 UniRef90_A0Q380 UniRef90_C6PQB4 UniRef90_N9WBM9 UniRef90_Q0TM95 UniRef90_B7JUJ9 UniRef90_T0PPC9 UniRef90_U2EIU1 UniRef90_K9T2K3 UniRef90_R7RUD7 UniRef90_E0UDD5 UniRef90_I9AC43 UniRef90_T0MPX4 UniRef90_UPI000288CBB5 UniRef90_UPI000288E238 UniRef90_L8LXW8 UniRef90_A0A037Z3Y6 UniRef90_U5RU00 UniRef90_V9H4H9 UniRef90_B0JV88 UniRef90_UPI00037DA6EF UniRef90_D4ZY97 UniRef90_H1YDD2 UniRef90_UPI00037598DD UniRef90_H8KWQ2 UniRef90_B1XQ41 UniRef90_A6LPF0 UniRef90_UPI00046ECE1 UniRef90_F4CDK3 UniRef90_D9THY7 UniRef90_UPI00035E0B07 UniRef90_Q116L2 UniRef90_F2IFA6 UniRef90_UPI00047A1268 UniRef90_UPI00037AA2D UniRef90_UPI000415333C UniRef90_DOMJN1 UniRef90_H1PSL4 UniRef90_R9H1A3 UniRef90_I0AHA3 UniRef90_A0A017RV02 UniRef90_M1MBR7 UniRef90_K9U1W2 UniRef90_K9PZ92 UniRef90_K9W1T2 UniRef90_U7VE39 UniRef90_S6ENK5 UniRef90_A4XFZ6 UniRef90_K9V6X0 UniRef90_X5JRD4 UniRef90_M1X062 UniRef90_UPI000347BC14 UniRef90_I2GC74 UniRef90_F0SDD7 UniRef90_K9RLI0 UniRef90_UPI00036CF681 UniRef90_W6N619 UniRef90_F4XQ51 UniRef90_A1ZHL1 UniRef90_I7LK25 UniRef90_UPI000420ADEB UniRef90_D8FXC1 UniRef90_UPI00047E0245 UniRef90_W9E7H7 UniRef90_E4TST2 UniRef90_UPI00047DB5F7 UniRef90_UPI00046F3273 UniRef90_UPI0003463953 UniRef90_A1HTB8 UniRef90_UPI0004027F6D UniRef90_A3I0R1 UniRef90_A0YIX9 UniRef90_P73849 UniRef90_K9XJN8 UniRef90_I2ESV2 UniRef90_UPI00034BC5FE UniRef90_K9YFF7 UniRef90_UPI000255CB8A UniRef90_R7ZS36 UniRef90_W7Y0S0 UniRef90_D9S0R8 UniRef90_UPI0003B2F93A UniRef90_UPI000365AC55 UniRef90_W6MDN1 UniRef90_M7N073 UniRef90_S7WP34 UniRef90_L8LSP6 UniRef90_F6DQV4 UniRef90_W2E3N0 UniRef90_C7PHB6

50 60 70 80

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

QUERY	F	S	N	S	P	M	E	Y	T	E	D	V	V	K	G	K	T	L	I	M	T	T	N	G	T	R	A	I	I	110	K	G	S	E	T	A	R	D	I	L	I	120			
UniRef90_A7FPH4	F	S	N	S	P	L	E	Y	T	K	K	V	V	K	G	K	T	L	V	L	S	T	T	N	G	T	R	A	I	I	K	N	G	S	F	N	K	T	I	L	L	I			
UniRef90_W6RY7	F	S	N	S	P	L	E	Y	T	K	E	D	K	V	A	G	K	T	L	V	L	S	T	T	N	G	T	R	A	I	I	K	N	G	S	F	N	K	T	I	L	L	I		
UniRef90_A0Q380	F	S	N	S	P	L	E	Y	T	K	E	D	V	V	K	G	K	T	L	V	L	S	T	T	N	G	T	R	A	I	I	H	K	G	A	E	M	S	K	A	K	N			
UniRef90_C6PQB4	C	A	N	S	P	L	E	Y	K	E	D	V	V	K	G	K	T	L	V	L	S	T	T	N	G	T	R	A	I	I	K	G	S	I	V	G	A	K	N	I	L	L	I		
UniRef90_N9WBM9	L	S	N	S	P	L	E	Y	K	E	V	V	K	G	K	T	L	V	L	S	T	T	N	G	T	R	A	I	I	L	T	K	S	I	V	G	A	K	N	I	L	L	I		
UniRef90_Q0TM95	F	S	N	S	P	L	E	Y	K	R	E	L	V	E	G	K	N	V	L	I	M	S	T	T	N	G	T	R	A	I	L	N	L	C	S	K	A	K	D	K	V	I	V		
UniRef90_B7JUJ9	L	G	N	S	P	L	D	C	T	P	E	Q	M	G	G	K	R	L	F	L	T	T	T	N	G	T	R	A	I	L	Q	R	V	E	K	S	P	T	V	I	L	T			
UniRef90_T0PPC9	F	S	N	S	P	L	E	Y	T	S	R	E	N	V	E	R	D	K	T	L	V	L	S	T	T	N	G	T	R	A	I	L	K	N	S	E	V	A	D	S	N	I	L	I	
UniRef90_U2EIU1	C	L	G	N	S	P	L	E	Y	T	S	E	R	V	R	E	G	K	R	L	F	L	S	T	T	N	G	T	R	A	I	L	Q	R	V	E	Q	S	P	L	V	I	A		
UniRef90_K9T2K3	L	G	N	S	P	L	E	Y	T	S	E	R	V	R	E	G	K	R	L	F	L	S	T	T	N	G	T	R	A	I	L	Q	R	V	E	Q	S	P	L	V	I	A			
UniRef90_R7RUD7	F	S	N	S	P	L	E	Y	T	K	E	D	K	V	A	G	K	R	L	F	I	F	T	T	T	N	G	T	R	A	I	L	V	R	S	R	Y	S	D	E	I	L			
UniRef90_E0UDD5	L	G	N	S	P	L	E	Y	T	C	S	P	E	L	V	Q	G	K	R	L	F	I	S	T	T	N	G	T	R	A	I	L	Q	R	V	E	Q	S	H	T	V	L	A		
UniRef90_I9AC43	L	S	N	S	P	L	E	Y	T	R	E	K	V	E	N	K	T	L	I	F	T	T	T	N	G	T	R	A	I	L	K	K	V	S	L	J	A	D	N	V	L	L			
UniRef90_T0MPX4	L	G	N	S	P	F	E	Y	T	K	D	V	V	K	G	K	T	L	I	F	A	T	T	T	N	G	T	R	A	I	L	V	K	A	A	S	G	A	D	K	R	I	L		
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UniRef90_V9H4H9	F	T	N	S	P	L	E	Y	T	R	D	Q	L	E	G	K	R	L	F	L	S	T	T	N	G	T	R	A	I	L	N	L	S	L	E	K	A	S	K	L	L				
UniRef90_B0JV88	L	G	N	S	P	L	D	C	T	P	D	L	M	K	G	R	R	L	F	L	S	T	T	N	G	T	R	A	I	L	Q	R	V	E	Q	S	P	L	V	I	L				
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UniRef90_D4ZY97	L	G	N	S	P	L	N	C	T	A	E	V	V	E	G	K	R	L	F	V	M	T	T	T	N	G	T	R	A	I	L	Q	M	T	V	Q	L	A	P	V	I	L			
UniRef90_H1YDD2	F	G	N	S	P	F	S	Y	T	A	E	K	V	E	G	K	R	L	F	V	L	T	T	T	N	G	T	R	A	I	L	H	Q	S	L	K	A	K	R	I	L	I			
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UniRef90_H8KWQ2	F	G	N	S	P	R	S	C	T	P	E	K	M	V	A	G	K	R	L	V	L	T	T	T	N	G	T	R	A	I	L	N	E	S	K	N	A	D	E	I	L	I			
UniRef90_B1XQ41	L	G	N	S	P	R	S	C	T	P	E	K	M	V	A	G	K	R	L	V	L	T	T	T	N	G	T	R	A	I	L	K	R	V	E	Q	S	P	L	V	I	L			
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UniRef90_F4CDK3	F	G	N	S	P	F	S	Y	V	S	E	K	V	N	G	R	T	L	I	V	L	T	T	T	N	G	T	R	A	I	L	H	L	S	R	E	A	K	N	V	I	L			
UniRef90_D9THY7	L	D	N	S	P	L	S	Y	K	K	E	V	V	C	G	R	K	I	I	M	T	T	T	N	G	T	R	A	I	L	K	R	A	V	M	A	K	R	I	L	L	I			
UniRef90_UPI00035E0B07	L	D	N	S	P	L	N	A	C	T	S	E	V	V	K	G	K	R	L	F	L	T	T	T	N	G	T	R	A	I	L	Q	R	V	Q	N	A	S	P	Q	V	L	L		
UniRef90_Q116L2	E	G	N	S	P	L	A	F	T	S	E	V	V	K	G	K	R	L	F	F	M	T	T	T	N	G	T	R	A	I	L	C	L	K	R	I	Q	N	A	K	V	L	A		
UniRef90_F2IFA6	F	G	N	S	P	F	S	Y	M	K	E	E	F	R	G	K	E	V	V	L	T	T	T	N	G	T	R	A	I	L	D	V	A	K	D	A	K	E	T	V	V	L			
UniRef90_UPI00047A1268	F	S	N	S	P	L	S	Y	K	A	S	E	F	V	N	G	K	R	L	V	F	M	T	T	T	N	G	T	R	A	I	L	K	G	S	T	A	A	K	N	I	L	L		
UniRef90_UPI0003F7AA2D	L	G	N	S	P	L	S	C	T	P	E	F	V	K	N	K	R	L	V	F	M	T	T	T	N	G	T	R	A	I	L	E	R	I	Q	A	T	P	V	I	L	L			
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UniRef90_DOMJN1	L	G	N	S	P	L	E	Y	T	T	D	V	V	E	G	K	R	L	I	V	L	N	T	T	T	N	G	T	R	A	I	L	W	N	A	R	N	G	S	H	L	L	V	L	
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UniRef90_R9H1A3	F	G	N	S	P	F	S	Y	V	P	E	K	V	A	G	R	T	L	V	V	L	T	T	T	N	G	T	R	A	I	L	H	L	S	K	M	A	K	Q	I	V	I	L		
UniRef90_I0AHA3	L	G	N	S	P	L	E	Y	E	E	N	V	N	G	K	S	I	V	F	E	Y	T	T	T	N	G	T	R	A	I	L	T	K	A	K	F	S	E	N	V	L	F	V		
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UniRef90_U7VE39	F	G	N	S	P	L	E	F	T	K	E	A	V	K	G	K	E	I	F	E	M	T	T	T	N	G	T	R	A	I	L	E	N	A	L	S	A	D	E	I	L	L			
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130 140 150 160

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L I D N C L Y N I R K N D L E L S D D I A K T A H F V I Y T N N N D N D I E G S F V K K A T
H I I N N C L C N M N R N E D E E L S S D I A K T A L F V V Y Y K S E N N K D N D I E H S D Y F V K K E A R K
Y I I D C L L K M S T D I E L S S D I A K T A H H Y I Y T E N K N D D I T E H S F I H H K A K
Y I I D S E L S K I N T N K I E L T D D I A K T A Q Y I Y Y E S S E N K D D I L T E G F I S S K A K
Y I I S E L C K N K N E A E L T D D I A K T A K Y V Y E S S E N K E G I L E E F F I K D A K
A I A Q S L V T A L G I G M G N D E V T A A I A L Y S Q F Q N L L Q L F H Q S S
Y I I D C L K K L S E E E C L T D D I A T T A H Y I Y K N N E E I F S F V K Y A T S
Y I I D C L I N M T H V E L T D D I S K T A H Y I Y K N N E E I F S F V K Y A T S
A I A Q S L M S Q G V E I G N D E A I A A I A L Y H Q W K D L L E L F R L A S S
K I I Y E L N K L T K V N M S D F S S L A Y L T Y Y K N K D N V L E D Y L K Y A S
A I A D L L M Q H Q D N I E G N D E V I A A R A L Y Y T Q W Q N L L E M F H K C S
V I Y K K L Q D L M K F E S D D L S K A C Y F L Y K P Y E D L L E I M K E G Y
M F I N K L Q E Q K K A D V N D D A A Q A A A V I Y Q K N H K D L L K V L E T G A D
Y I I S R I K E K I S V K L T D D I A T T A L Y I Y Q N N K D I T S F V L K G A T
Y I I S I L K K K S E F H L S D D I A T T A L Y I Y E N N K D I K S F I R Y G A N
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Y I I D C L L K S S K A E L T D D I S K T A H Y I Y K G S P D L L E F I K F A S
Y I I K R I L E K T E V E L T D D I S K T A L Y V Y E K N P D I V G F I Q N A R
Y M I N L L C E N N H N L S D D I A K T A K Y I Y E N N K N I V N F L K E A R S
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M V V N S L R D V F P N H Q E V D A N L T A Q L L Y K L G N N I L E I L R K S Q
A I I H S L C S E M G Y P I G N D D A T I A A N D L Y Q A Q H D L N V Y L K M T A S S
A V A E Q L K A D A Y K W I G N D D A T I A A N D L Y Q A Q H D L N V Y L K M T A S S
A V V D A L K G D F S H D E D D S V L T A L N L Y S A K N D M M G F L L N S S
A V V N K L K D G F D S A W C S S V L A E D L Y L A Q Q G N L N E Y M K K T A S S
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A M I D A L Q N M G K P L E M D D L G L V C L Q M Y S T H K N D L R K V L R Q T Y
A V I N K L K D S H Q K G D D A I A A E N L Y A A N D L A D F L A Q S A S
Y F V D M F K N G L G D V E I D D L S L A S F E L Y K K F E D P H K I L K Y S Y
A I A Q S L E Q Q S A V P Q L N D E V I G A I S L Y Q W Q D L L N V F R L C S
A I A H S L L A E T N E N V G N D E V F G A M S L Y L Q W Q D L L H E L M N H A S S
A I C D H L I N T G N F T S V E D S S I A K Y L Y L S A K D Y L G F L K S S S
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L L L H R L W E G R E P E Y Q S D D A A H I A L T Q Y L H S D R D L A D A T L R H S N
E I I R R V K E K D R D I Q L T D D S S L A M K R L A E T S D L G I L A E T L K G S K
A V V H Q L N G A S Y K L D D S S I A A E D L Y L A K S D L L R G Y L K K T S
K L V S E I L S L K P E V E I E N D S V A A A L A L H K Y G S D L F S K M L R M A S D
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Y I I N E M L V I G E K L E L T D D I A K T A N I I Y E G N L E I M S Y V K Q A T
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A I A A A L E N S D P A T L G N D E V L G A I A L Y Q W Q D L L V G L M K L A S S
A I A H S L V T Q L N C P A G N D E V I A A I A L Y R Q W Q D L L E M F H H A S S
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Y M I Y L L S K D K E H D L T D I A K T A K L I Y K S N E N I L D Y I K D A R
Y F V D L F L I E N F P D V F L D D L S L A S H V L Y K K F E D P H E I L K Y S Y
A I A H G I S Q Q L D Q P A G N D E M I S A I A L Y Q W Q D L L G L L H H A S S
A I A D S I V Q Q A N D I A G N D E V I S S I A L Y T Q W Q D L L V E L F H H A S S
A V A Y G I V Q Q S N N I A G N D E V I S A I A L Y T Q W Q D L L V E L F H H A S S
A I A D S L L G Q L G S I A G N D E T I A A V A L Y R Q W Q D L L E L M H A S S
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A I A A H L L E K T D E V A G N D E V V A A M A L Y S Q W Q D L L Q M F K H A S S
A L V N S L K D H T T F E C D G A I A M K A L Y E Q N Q D L L K G F L S Q A S
Y I I E N I M S I T D S I I T S D I A T T A K Y I Y D N N K N I I S F I K Y A K
A I S Q R L M E E T G D I A G N D E V I G A I A L Y S Q W Q D L L E M F Y H A S S
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K I I Y E L L K L G N C N I D D I S T A A Y T A Y R D Y K K I L E Y V K Y A G
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A L V K S L E S T H L S E D D G A M A M K S L Y F E K G H Q M K G F L S Q A S
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A I A E S F V T E M G Y P A G N D E V Y G A I S L Y L Q W Q Q L Y Q L M N C A S S
A I A S L I R E K G D F T V G N D E V V A A Q S L Y R Q W R D L L N L F K Q A S S
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A I A H S V L Q H P D E V A G N D E V I S A I A L Y S Q W Q S L L G L F H H A S S
A I A H A L L G N L S H D V G N D E V I G A I A L Y C Q W Q S L L E L F R F S S
Y I T N L L E S E L G S N A L L T D A A L A A R Q L F N A Q Q N L L A L A S Q G K
A L A S L H F P Y D C D G T L A M E S L Y R Q S G D M G G F L K K A S
K I A H Q L Q G L V D P T D L S D A A L A M A H L Y E Q N K N L H A L A S Q G Q
L I V D I L V R N N E I P L E S D L A F A C R D L Y E H R H D L K T F I S H A A
V L L D R L W E N D D P G L V S D A A H T A V T L Y H H R S D D V E D A L K R A N
A L V D N L S D T H M R S D S A I A T Y L M Y K S E N L K E F V S Q S K
A I A C G L S E R D S D C A G D D E S I A A M A L F R W E K R L P Q L I R Y A H
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QUERY H Y K R L I M E L L G N G L L E K K D F E Y C C K K 220 I V K L V P Q Y T N G E I L
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G V T H V I P V V D M A D A L H Y K S Q D Y V I T A G E R N N T G E K I I E G F D
G A R E V I P V S T V E D F A M K I S D A F R N S Q T L L C G E R N S G L K M V I E G F D
G C Q C V I P V K T V E E A F L S I K A Q N P D A V L A G E R S G L L I P G F N
G A E A V Q V F S D L D K L L S E S W P A S R I R A G E R S G G K Q V I E G F D
G A S G V I P V E T V S Q A K Q I A K D E D E V L A G E R Y C K K I S G G F D
G A K K V I P V V N I E E A K D L A T K E D N C L L T G E R D G I K V I E G F D
G V K A I Y P Y K D I E S V L K N S K L D K N P L L C G E R K G L K I I E G F D
G A R K I T P V G A M E D A V R Q I A F T M D A S I L L C G E Q N G T I K G F H
G A Y V I P V E T P T D A E R L A F T D R S F L L A G E K E G I K I K G F R
G V K S I V P V M E V A E C D E Y G K Q G F L T A G E R N G I K V I P H F N
G A D A V H V F S D M D K L M H Q S E A L P P E K R L A G E R D G S K V I C D
G A A R V I P V D T V D K C L M Q I G K N T G G I T A G E R D G K V I A G L E
G C Q A V I P V G S I S E A Q K E A A R R E N V L L A G E R N A I K P E H F H
G A E A I P V A S I E E A Q Q Y K A K G Y L V G A E R N V K R C V D F A D
G A E V E V F A D L D K L K S R S A E H P P E C L R A A E R N G G A P V I A G F D
G C K A I T P A L S I E D A Q K L A S Q I G A V L F A G E R Q S I K I I A G Y E
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G C Q A L I P V L T P E D A L E K R M E I P A G A L L G G E R R A M R I E G F D
G A S S I M P V A T V E E A K A Y K D K G Y L V G G E R N V V K F E F G D
G C K E V I P V V E V E D A F A V A K T L S E N F I I C G G E R N A L K V I P G F H
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G A E A I Q V F S D I D D L T I S E H W P A D R R L A G E R G G K V I D G C D
G C Q A V I P V S E V A D A L A L A Q S V L P G E Q C I A G G E R D G A V R L P G F H
G A G S V I P V D S V S E A L I K I S K E V L V G G I A A A E R N G G K V I A E G L S
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	90	100	110	120							
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170 180 190 200

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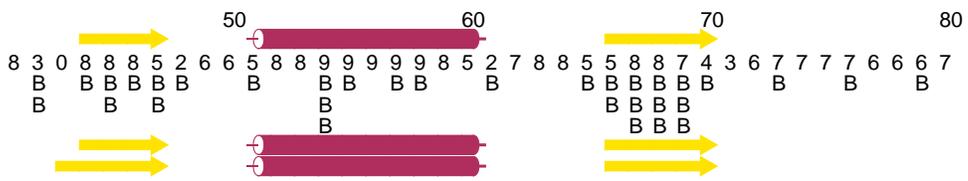
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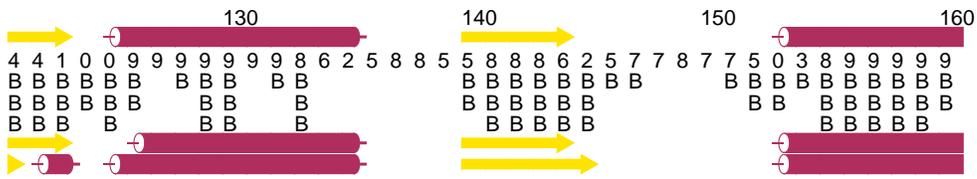
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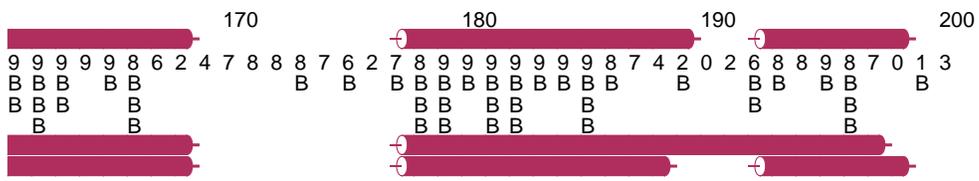
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