

QUERY	1	10	20	30	40																																																
UniRef90_R6WNN2	V	R	I	F	F	E	H	V	V	H	E	T	V	D	R	R	K	K	H	H	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	D	K	K	G	G	I	D	K	I	L	L	K	K	V	V	G	G	
UniRef90_UPI0004637644	L	E	I	F	F	F	F	D	V	D	V	I	L	K	D	R	R	K	V	N	N	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	D	K	K	G	G	I	D	K	I	L	L	K	K	V	V	G	G
UniRef90_UPI000479EA7E	L	K	V	L	E	D	V	Y	A	V	I	L	L	D	R	R	K	K	N	N	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	D	K	K	G	G	I	D	K	I	L	L	K	K	V	V	G	G	
UniRef90_D4KXE4	L	T	L	K	E	E	D	V	I	L	L	L	D	R	R	K	K	N	N	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	D	K	K	G	G	I	D	K	I	L	L	K	K	V	V	G	G		
UniRef90_R5JXM0	L	T	L	K	E	E	D	V	I	L	L	L	D	R	R	K	K	N	N	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	D	K	K	G	G	I	D	K	I	L	L	K	K	V	V	G	G		
UniRef90_F3ZX38	L	D	V	L	A	K	E	D	V	I	L	L	D	R	R	K	K	N	N	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	D	K	K	G	G	I	D	K	I	L	L	K	K	V	V	G	G		
UniRef90_R5DU14	L	K	V	F	N	S	V	M	S	I	L	L	E	D	R	R	K	K	H	H	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	D	K	K	G	G	I	D	K	I	L	L	K	K	V	V	G	G	
UniRef90_R5VBV8	L	K	V	L	E	S	D	L	Y	Q	V	L	C	K	D	R	R	K	H	H	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	D	K	K	G	G	I	D	K	I	L	L	K	K	V	V	G	G	
UniRef90_K9ULP4	L	D	T	L	S	D	L	Y	Q	V	L	L	C	K	D	R	R	K	N	N	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	D	K	K	G	G	I	D	K	I	L	L	K	K	V	V	G	G	
UniRef90_S2YD59	L	Q	V	F	E	T	L	Y	E	K	I	L	L	E	D	R	R	K	N	N	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	D	K	K	G	G	I	D	K	I	L	L	K	K	V	V	G	G	
UniRef90_A1HMG3	L	I	L	L	R	D	L	Y	Q	V	L	L	L	D	R	R	K	K	N	N	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	D	K	K	G	G	I	D	K	I	L	L	K	K	V	V	G	G	
UniRef90_R5CF04	M	K	V	L	E	R	D	Y	R	T	I	L	L	L	D	R	R	K	H	H	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	D	K	K	G	G	I	D	K	I	L	L	K	K	V	V	G	G	
UniRef90_R7R3C7	L	K	V	F	E	N	V	Y	A	V	I	L	L	A	D	R	R	K	H	H	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	D	K	K	G	G	I	D	K	I	L	L	K	K	V	V	G	G	
UniRef90_U9VUF8	D	T	L	L	S	Q	V	Y	Q	V	L	L	L	C	Q	S	R	R	K	A	N	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	D	K	K	G	G	I	D	K	I	L	L	K	K	V	V	G	G
UniRef90_E0NWH9	E	V	L	S	R	L	Y	Q	V	L	L	L	A	D	R	R	K	S	N	N	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	D	K	K	G	G	I	D	K	I	L	L	K	K	V	V	G	G	
UniRef90_H6LC53	M	E	V	L	N	R	M	L	Y	A	L	L	A	D	R	R	K	S	N	N	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	D	K	K	G	G	I	D	K	I	L	L	K	K	V	V	G	G	
UniRef90_B1555	V	L	E	N	K	M	L	Y	A	L	L	L	A	D	R	R	K	S	N	N	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	D	K	K	G	G	I	D	K	I	L	L	K	K	V	V	G	G	
UniRef90_Q8R886	L	E	V	L	N	K	M	L	Y	A	L	L	L	A	D	R	R	K	S	N	N	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	D	K	K	G	G	I	D	K	I	L	L	K	K	V	V	G	G
UniRef90_Q2RGW3	T	L	L	S	Q	V	F	Q	V	I	L	L	L	K	E	R	R	K	A	T	R	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	N	N	G	G	I	D	K	I	L	L	K	K	V	V	G	G	
UniRef90_F6CR30	L	L	L	S	Q	V	F	Q	V	I	L	L	L	K	E	R	R	K	A	T	R	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	N	N	G	G	I	D	K	I	L	L	K	K	V	V	G	G	
UniRef90_K9YJW5	D	T	L	L	T	E	L	F	Q	V	I	L	L	L	C	K	D	R	R	K	N	N	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	A	G	G	I	D	K	I	L	L	K	K	V	V	G	G	
UniRef90_R5U641	L	E	V	F	E	N	E	Y	N	I	L	L	L	L	D	R	R	K	H	H	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	D	K	K	G	G	I	D	K	I	L	L	K	K	V	V	G	G	
UniRef90_UPI0003819E44	N	T	L	S	G	L	Y	E	V	I	L	L	L	R	E	R	Q	A	N	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	A	G	G	I	D	K	I	L	L	K	K	V	V	G	G				
UniRef90_Q3AD47	E	V	L	A	K	L	Y	Q	V	L	L	L	L	D	R	R	K	Q	K	L	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	Q	K	G	G	I	D	K	I	L	L	K	K	V	V	G	G		
UniRef90_UPI00047CE308	R	V	L	D	S	V	F	E	V	I	L	L	L	K	D	R	R	K	V	N	N	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	E	K	G	G	I	D	K	I	L	L	K	K	V	V	G	G	
UniRef90_K9Z3W3	D	T	L	L	D	E	L	F	K	V	L	L	L	L	C	K	E	K	H	H	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	E	K	G	G	I	D	K	I	L	L	K	K	V	V	G	G		
UniRef90_R7HVE8	T	V	L	D	E	J	Y	K	T	I	L	L	L	D	R	R	K	H	H	H	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	D	N	G	G	I	D	K	I	L	L	K	K	V	V	G	G		
UniRef90_R5DJE8	L	E	V	F	E	T	I	Y	N	T	V	L	L	L	D	R	R	K	N	N	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	D	K	K	G	G	I	D	K	I	L	L	K	K	V	V	G	G	
UniRef90_A6P0M3	E	V	L	K	R	L	Y	Q	V	L	L	L	L	D	R	R	K	A	N	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	D	K	K	G	G	I	D	K	I	L	L	K	K	V	V	G	G		
UniRef90_R6T7X4	V	Q	V	F	E	H	V	V	Y	Q	T	I	L	L	D	R	R	K	N	N	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	E	K	G	G	I	D	K	I	L	L	K	K	V	V	G	G		
UniRef90_E6PNN3	D	V	L	D	R	L	A	A	V	I	L	L	L	E	A	R	K	A	A	D	P	A	S	S	Y	V	A	R	L	F	F	A	K	G	G	I	D	K	I	L	L	K	K	V	V	G	G						
UniRef90_R7IF45	N	V	L	Q	G	E	D	Y	A	T	I	L	L	L	A	D	R	A	A	N	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	D	N	G	G	I	D	K	I	L	L	K	K	V	V	G	G		
UniRef90_L0EH00	E	V	L	A	Q	L	E	A	I	L	L	L	L	R	E	R	E	V	T	R	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	D	K	K	G	G	I	D	K	I	L	L	K	K	V	V	G	G	
UniRef90_G7VX47	E	V	L	A	Q	L	E	A	I	L	L	L	L	R	E	R	E	V	T	R	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	D	K	K	G	G	I	D	K	I	L	L	K	K	V	V	G	G	
UniRef90_T3H7D9	N	L	L	S	K	E	L	Y	D	L	L	L	L	C	N	R	R	D	N	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	E	K	G	G	I	D	K	I	L	L	K	K	V	V	G	G			
UniRef90_UPI0003604A44	L	L	S	K	E	L	Y	D	L	L	L	L	L	C	N	R	R	D	N	P	K	E	E	G	G	S	Y	T	T	N	Y	L	F	F	E	K	G	G	I	D	K	I	L	L	K	K	V	V	G	G			
UniRef90_F3B9P6	L	Q	V	F	E	Y	V	Y	Q	T	I	L	L	L	L	E	R	R	K	Q	N	P	K	E	E	G	G	S	Y	T	T																						

QUERY UniRef90_R6WNN2 UniRef90_UPI0004637644 UniRef90_UPI000479EA7E UniRef90_D4KXE4 UniRef90_R5JXM0 UniRef90_F3ZX38 UniRef90_R5DU14 UniRef90_R5VBV8 UniRef90_K9ULP4 UniRef90_S2YD59 UniRef90_A1HMG3 UniRef90_R5CF04 UniRef90_R7R3C7 UniRef90_U9UVF8 UniRef90_E0NWH9 UniRef90_H6LC53 UniRef90_B1555 UniRef90_Q8R886 UniRef90_Q2RGW3 UniRef90_F6CR30 UniRef90_K9YJW5 UniRef90_R5U641 UniRef90_UPI0003819E44 UniRef90_Q3AD47 UniRef90_UPI00047CE308 UniRef90_K9Z3W3 UniRef90_R7HVE8 UniRef90_R5DJE8 UniRef90_A6P0M3 UniRef90_R6T7X4 UniRef90_E6PNN3 UniRef90_R7F45 UniRef90_L0EH00 UniRef90_G7VX47 UniRef90_T3H7D9 UniRef90_UPI0003604A44 UniRef90_F3B9P6 UniRef90_R6P300 UniRef90_K9RJN0 UniRef90_M1ZHL5 UniRef90_K9H2X0 UniRef90_W8TFV5 UniRef90_UPI00035E6E71 UniRef90_S9SU04 UniRef90_B3E616 UniRef90_D5UB39 UniRef90_UPI000374BFBF UniRef90_U2FGD7 UniRef90_A5UPU0 UniRef90_C8W204 UniRef90_B8HQN4 UniRef90_L8Y310 UniRef90_E6SHE7 UniRef90_R6J032 UniRef90_Q46LX2 UniRef90_R6JUD5 UniRef90_UPI00047A9E62 UniRef90_B1XX96 UniRef90_J1HA91 UniRef90_I0GR99 UniRef90_D9SC18 UniRef90_UPI0004189BC5 UniRef90_B2VA74 UniRef90_G5H606 UniRef90_F2JGU5 UniRef90_UPI000347DC12 UniRef90_F2LU61 UniRef90_R5H281 UniRef90_R7HMD9 UniRef90_UPI00037C84EF UniRef90_L1NSG3 UniRef90_E6MGJ0 UniRef90_G9RW14 UniRef90_Q603K5 UniRef90_B5EDR3 UniRef90_R7B3X0 UniRef90_E3CJ71 UniRef90_Q9RPQ3 UniRef90_UPI0003708155 UniRef90_D1Y7T2 UniRef90_R513X8 UniRef90_R9M2A0 UniRef90_F7YYS2 UniRef90_N1ZAA0 UniRef90_H6SS11 UniRef90_D9TSW3 UniRef90_UPI00038F53ED UniRef90_D5CNF7 UniRef90_K4KVT1 UniRef90_E3HCR7 UniRef90_R5N012

50 60 70 80

E E A G E V W L A A E H E S N D A L A Q L L Y W T Q V L M T S R G L S 80
E E A T E T V I A A A K N N P N T E E E L K Y E E V A D L L Y H L M V L M V I E R R G G L S W
E E A A T E V I I A A K N N P E N T E E E L K Y E E V A D L L Y H L M V L M V I E R R G G L S W
E E A A T E I V I I A A S K N N P E E K E E I L K Y E E V A D L L Y H L M V L M V I E R R G G L S W
E E A S E E L I I A A K N N P D P A D E E I L K Y E E V A D L L Y H L M V L M V I E R R G G L S W
E E A T E M V I I A A K N N G V Y I A D E E V I K R W E V A D L L Y H V L V L L M V I E Q K G G M T L
E E A T E V I I A A K N N P E P E E E I K Y E E V A D L L Y H V M V L M V I E K G G V T W
E E A T E I V I A A K N N P E P A P E E I K Y E A S D F L Y H C M V L M V I E K G G I T S W
E E A V E V V M A C K D D R A P E I K G E A S D F L Y H T L V A L A H H K R V I T S W
E E A T E L I I A A K N N Q D K P D E I K G E T S D F L Y H A M V L M V I E R R G V K W
E E A A T E T I I A A K N N Q D K P T E T V Y E M A S D L W Y H C L V L L A H H D I T P
E E A C T E I V I A A K N T D P T E T V Y E T S D L M Y H L M V V M A E K N N V T W
E E A T E I V I A A K N N P N V N E T I K Y E I C D F L Y H M M V L M V I E K G V T W
E E A S A E V V M A C K D D D P R E D D I A G E V G A D L L Y H T L V A L A H H N M D T
E E T A E T I I A A S K N N P R E D E E V L Y E M G A D L L Y H C L V L L A Y H H N M T P
E E A A E T I I A A K N N D P R E E E V L Y E S S D L L Y H L L V L L N N Q N N V D L
E E T T E T V I I G A K N N T R E E E V I Y E V S D L L F F H V L V L L A E K N N I H L
E E A T E V V I A A S K N N S K R H E I V L Y E M A D L L Y H T L V L L A Y H G L I T P
E E A G E T I I A A S K N D S R K E I V L Y E M A D L L Y H T L V L L A Y H G L I T P
E E T T A E L I I E A K N R D R K E V A G E E S A D L L Y H L L V L L A E Q N N I T P
E E T A E V V M A F K D D N P A E E I K Y E V S D L L Y H T L V A L A H H N I T D
E E A T E I V I A A K N P D S E E I K Y E I A D F L Y H M M V M M V D K G V T W
E E A S A E V V M A C K D D D K G E D I A S E V A D L F Y H T L V A L A H H K R V I T D
E E A V E T V I A A S K N D D P K G E L I Y E A A D L V Y H L L V L L A A K D V D L
E E S T E M V I A A K N T N S N E L V Y E M A D F L Y H M M V L M S E K N N I A S W
E E A S A E V V M A C K D N D P R E E E I V A E V I A D L F Y H T L V A L A Y C D V N
E E A T E M V I A A K N P D S A E E T K Y E I S D F L Y H M M V L M V I E K G V T W
E E A T E T I I A A K N G V I E E D T K T N E C S D L L Y H L M V L L A A Q D I P L
E E A T A G I V I A A S K N P N P E E I K T E M A D F L Y H A M V L M V I E K G I T W
E E A T E F V L A A K G G E R Q E S I V Y E A A D L W F H T L L A L A H H G I S P
E E A S E T I I A A M K A N K N E E V T R Y E A A D L L Y H L M V L L Y Q Q Q G I T
E E T A E V I I A A K N R D N E E L R L E V S D L I Y H L L V L L Q E R K K L P L
E E A S E V I I A A S K N T D K D I L Y E H T L V L M I E K G V E I
E E A A E V V M A C K D D D A D D I A G E A A D L M Y H T L V A L A H H K G V I D
E E A T E L V I A A K N P S Q D E L K G E F I D F L Y H A M V L M V I E K G V T W
E E S C S E T I I A A K N G D D P R H E T V L E I S D L L Y H L M V M M V N E N G I P
E E S A E V V M A C K D D D P R A I A G E V A D L L Y H T L V A L A H H N I D L
E E T S E V I T A A K N R S T P E E L R Y E V S D L L Y H L F V L L R E Q Q G I F
E E G V I C A I I A A V S E T P R A I A G E V A D L L Y H L M V L W A E Q Q G I T P
E E A S E V I I G A K N S D K G E T V Y E I S D L V Y H L L V L M V I H M G I
E E A A E T I I A A S K N D D N K E E V I Y E M S D L W Y H C L V L L A Y H N I T P
E E A S T E V V I A A K N D N K E E L V G E T G D L L F H M L V L L R E R R D I A L
E E A T E V V I A A G K G G T D T E L I Y E T A D L L Y H G L V L L A A R N D I P A
E E C T E V I I G A K N D S N K E T I Y E I A D L L Y H T L V L M V I E K N I T T
E E C A E V V M A C K D N D A S E A I A S E V A D L L Y H T L V A L A Y H Q N V D L
E E T S E V I I G A K N D A S E L V Y E I S D L V Y H L L V L M V N Q N V V V
E E A A E V I I A A K N G A P D E L V A W E I A D L M Y H T L V L L Q Q Q G M A T
E E S A E V I A A K N K D K H E L V K E S A D L L Y H L L V M L A E Q Q Q G M D P
E E C A E V V M A C K D E D P E A I A G E V A D L L Y H A L V A L A H H Q Q V D L
E E G V I V A L A A T V I Q D K E E V L V N E A A D L L Y H A T V L L H D Q D D S W
E E A V I T V V A A K H Q Q R V V E E A D L L Y H L T V L L V A R D V I T S W
E E C T E M V I A A K N N D K D E T V Y E I T D L I Y H T L V M M A N Q Q G I T P
E E T A E F I M A C K D K N P I S V A N E A A D L L F H M Q V S L A H Q N N V S W
E E A A E T I I A A S K N N N G K E V L Y E M S D L W Y H C L V L L A Y H N I D P
E E S S E V I I G A K N E S R D E V V Y E V S D L V Y H I L V L L V H M G I N D
E E A T E V V I A A K D G G R E Q L V Y E M A D L W F H S M I V L A Q F D L T P
E E C S E V I I A A K N G D N K E T V L E L S D L L Y H L T V L M V N E G I T S W
E E A V E T V I A S K N N K S E E V L Y E M G D L W Y H C L V L L A Y H K I T P
E E A T E T I L A S K E G D K A H I V Y E T A D L W F H C M V M L S H H G L S A P
E E A G E V I I A A K N N N E E L T W E T A D L L F H T L M L L T N Q G L S P
E E A V E T V I A L K N N N K D E I V Y E T S D L L F H T L M L L T N A G V K L
E E A V I T V I E A I D G N N E R L V Y E A S D L I Y H L L V L L E N Q Q G L S L
E E C T E T V I A A K D E D N K E I T F E T A D L M Y H L T V M M A Q K G L S W
E E A V I T V M A G K D G D R T K I I Y E T A D L W F H S L V A L A H H K G L S P
E E A S E V I T A L K N N S Q S E L V Y E S A D L I F H L L V G L A E K D V T P
E E C T E M V I A A K N N D K D E L A N E N D L L Y H M I V M M V D R G L S V
E E A V I T V I E A T N G T D D R L V Y E A S D L M Y H L L V L L A T S Q N V K L
E E A G E V I I A A K N N S K A E E I V F E T A D L L F H T F V L L A S Q N V K L
E E A G E V L M A A K D G D K A H I V Y E T A D L W F H C M V L L S A H G L S R
E E A T E T V I A A K N G D P D E L V S E T A D L L Y H L T V L L N H Q G T R S F
E E C T E V I I G A M K G S R E E T I Y E I S D L C Y H V L V L M V A E G G I T L
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UniRef90_C7H028 I L L S F L Y D E L V K R K E D P V E G S Y T S Y L F F K E G K E K I L L K K I V G G

UniRef90_UPI000472CE1F E E A G E V I I A A K N N S K E E L I Y 60 C S D L I Y H C F V L L A N Q H V I 80
UniRef90_Q11SL9 E E A V E I V I E A K D N N D A D L F K G E A A D L L Y H Y L I L L A E A K N I P L
UniRef90_UPI00036ABF27 E E A T E T V I M A A K D N S V A K E K I T V Y E V A S D L L W F H C M V L L A N N Q Q G V I R T P F
UniRef90_E3G187 E E A S A E T I V I A A A K D N D S A K E E E L T Y E A S D D L L Y H L T V V L L A N N Y F Q N L T D F W
UniRef90_B9MJR2 E E A T E V V I I G A A K N G R K K E E E V I Y E T S D D L M Y H L S V L L A N Y F Q N L T D F W
UniRef90_W4QIX8 E E A G E V I I A A K N R D A H E E E L K W E V A A D L L F Y H T L V L L A R E A H H K G V I P F W
UniRef90_A5GUG3 E E A S A E F V M A C K N D D A K D E E I L A G E A A D D L L F H T M Q V A L A H H K G V I P F W
UniRef90_UPI0002894B3A E E A T E S V I I A A K N R D A K D E E L K W E V A D D L M Y H L L V L L A K E Q N V D L
UniRef90_I8TCV7 E E A T E T V I I A A K N Q D P K S K L V Y E E L A D D L L W F H C F V L L M A E R G G L T P
UniRef90_K2A8G6 E E A S V E V V I I S A K N R S K K R M I Y E E V S D D L L Y H L L V L L V A J A R G G L T P
UniRef90_W0EZ90 E E A V E I V I E A K D D N K D L F L G E A A D D L L F H Y L V L L L Q A K R G G F E L L
UniRef90_R5QR09 E E A S E T I I A A K N R D K K E E L V G E T A S D D L L F H T F V L L M N D E Q K L L
UniRef90_Q5WDI3 E E A A G E V I I A A K N R D P E E L R W E V A S D D L L F Y H V L V L L Q E R Q K L P
UniRef90_I3D6C3 E E A V E I V I A A M A N D N K D E E L I G E V A D D L L A Y H L T V M L H N A K D L S L W
UniRef90_I2GRY5 E E A G V E L V I E A K D D D L F L F K G E A A D D L L F H F L V L L E Q D K Q N S D L
UniRef90_UPI0003B7012F E E G V E T V I A A L A E T P D K V F A S E S A D D L L Y H L I V L L W A D A Q K G V I P
UniRef90_D5WRB5 E E A T E T V I A A K G K T G E E V R Y E S A D D L L Y H L M V L L W R Q V G L Q K P
UniRef90_UPI0003B4EC7C E E A T E T V I A A M G S D N A R A L V P E A A D D L L Y H L F V L L A D A G A G L T P
UniRef90_R5JF18 E A V I E V I V A A K N Q S T E E T K Y E T S D D L L Y H L M V L L M A E Q G I T W
UniRef90_E8PME5 E E A G E V I I A A K N Q N P E E V R W E A T D D L L F H L L I V L A E L G L T P
UniRef90_G1Y349 E E A V E A V I E A M R G N D R D K L A S E S A D D L L Y H L L V L L W A D A G L T P
UniRef90_A9WEK7 E E A A E V I I A A K N G N P A E I L A Y E L A D D L L Y H S L V L L E Q Q G G M T A
UniRef90_D4KAY2 E E T E V I I A G E K E D K A E T V Y E T S D D L L A Y H V L V L M V S A G I T V
UniRef90_W0JFC9 E E T L E F L F A L K K E N D T A E H I I Y E A S D L L Y H L I V L A L A Y A Q K G L T P
UniRef90_D5WYF4 E E A T E L V M A A K D D K R E E L T N E V S D D L L W F H S L I A L A A Q H K G L T P
UniRef90_W4VF96 E E A G E V V I A A K N D D K R E E L T N E V S D D L L Y H T F V M M A N Q Q G G V S L
UniRef90_UPI000380A942 E E A V E L V I E A K D N D R D L F L G E A A D D L L M Y H Y I V L L A A K G Y V S L
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UniRef90_R5PNM8 E E A V E A V I E A T N G T N E E R L V Y E C S D D L I Y H M I V L L T S K G L S T I
UniRef90_A0A03722M7 E E T S E V I I G A K N K S K E E L V Y E T S D D L V Y H L L V L L I T N E E V I T
UniRef90_E4RKM4 E E S A E V I I G A K N K T A E E L L E S A D D L L Y H M L V L L A E K N I D P
UniRef90_Q7TUC7 E E T A E F I M A C K D N D K D E I A N E A S D I I Y H L Q V A L I Y K G V I K W
UniRef90_Q82WM7 E E A A E T I M A C K D N D R E Q I I Y E T A D L W F H C L I M L T R N E H D I L
UniRef90_C4LF15 E E G V E V A L I A A M A K D R E E I I N E S A D D L L Y H L T V L L L Q N S K G G H R I
UniRef90_R5EV97 E E A V E T I I E A T N G T D D R L I Y E A S D D L L Y H L I V L L T S K G G L R I
UniRef90_G0A5R4 E E A T E T V I A A K D G D K D K I Y E T A D L W F H C M V M L A D E Q Q K L P
UniRef90_UPI00041288CD E E A S E I I A A K N R D K Q E L T W E S A D F L Y H W L V L L A Q E Q K L P
UniRef90_Q2VYJ1 E E A V E T V V A A L S E G K D E L V G E S A D T L Y H L L V L L W A D C G V L P
UniRef90_Q3A138 E E A T E T A V A A G K G G E P D E V V Y E V A D L F F H V L V L L G Y Y D L P
UniRef90_E7S0Y4 E E A T E T V I A A M Q G G K A R I V S E T A D L W F H T L V M L A H H E R R P
UniRef90_UPI000478C186 E E A T E V V I A A K N S S K P Q E L V N E V C D L L Y H I L V L L N E K E V K L
UniRef90_I4A788 E E A S A E T I I A A K N S S A K E I R Y E V S D D L L Y H L L V L M L E E R G G V S
UniRef90_A0A024QGF3 E E A S E V I I G A K N T D K E E E V T W E V A D L L T Y H T L V L L M E V L G V A V
UniRef90_W7DDA5 E E A T E V V I A A K N Q D K A E L T S E L A D D L T Y H V L V L L A E Q G G L T P
UniRef90_UPI000255DC17 E E A V E T V I E A K D H N D D L F L G E A A D D L T Y H L L V L L T A K Q G F F R I
UniRef90_UPI00036AF279 E E A S E I I I G A K N R D P E E V Q W E S A D F L Y H W L V L L R E K Q G V N L
UniRef90_D0IBL9 E E G V E V A L A A A T S G D K E E L I N E S A D L M Y H L L V L L Q D Q Q G V S L
UniRef90_D1C4Y5 E E A A E V I I A A K N A D P E N L A N E A A D L T Y H L L V L L E A S D G I V T
UniRef90_G7M297 E E C T E V I I S C K D D N K Q E Q I N E I C D L L T Y H L L V L L M A Q V G I
UniRef90_B7K5G8 E E A A E V V M A C K D D D S S A T A S E V A D L F Y H T L V A L A Y H H I D I
UniRef90_Q8FTD4 E E A G E V W I A A E Y Q D D E E L A E E S Q L M Y W T Q V M M V A R G I K P
UniRef90_A9B1U1 E E A S E V I I A A K N G N A D E L R N E A S D L I Y H L F V L L N A Q G V S P
UniRef90_UPI0003A7EDCF E E C T E V V I A A S L N Q T K E D L V N E M A D L I Y H L T V L L M A Q K G V S
UniRef90_Q47XB2 E E G V E V A L A A V A A E T S K E D L L G E C A D D L F Y H T L V L L A D Q Q K I P
UniRef90_F5SGL2 E E A A E V I I A A K N E S H K E D L A W E A S D L F Y H L M V L L F R Q Q K L E
UniRef90_H2FVX0 E E G V E T A L A A T V H D H D E L V N E S A D L L Y H L T V L L Q Q E G L L
UniRef90_F9ZPF3 E E A T E F V I A A K N G E R E A A L N E A A D L L F H T L V L A L E E R N L H
UniRef90_UPI00047985F4 E E A V E T V I A A L K E D R E A A L A S E S A D D L L Y H L L V L L W A E K G I D P
UniRef90_Q67K11 E E A T E V V L A V K N R D R E N L A F E V A D L W F H S L V A L V D Q Q G L S P P
UniRef90_UPI0003B5BFEE E E A T E V V M A A K D G E P D K I V Y E V A D L W F H T M V L L A Q H N L H P
UniRef90_F9ZF43 E E A A E T I M A S K D G N T D Q I Y E T A D L W F H C L I L L A F H E L S P P
UniRef90_R7GJY3 E E A T E T V I A A K N T S K E D L I G E T G D L Y Y H V L V L M N A Y G L T V
UniRef90_UPI000379A769 E E A T E L V I A A G K G G D Q A Q I V I Y E T A D L W F H T L V L L A Q Q N L
UniRef90_I01845 E E V I E V I I A A K D E G N R Q V I Y E L A D F V Y H T L V F L A N M R G L S R W
UniRef90_X2H141 E E G V E T A L A A T V R D T E E L K N E S A D L I Y H L L V L L H D Q N L S L
UniRef90_D8DY88 E E S L E T V I E A V S D G D V G H V I Y E A S D L I Y H L L V L L E A K G L R I
UniRef90_F5RDS1 E E A A E T I M A S K D G D V G H V I R E V C D L W F H S M V L L A H H G L T V
UniRef90_UPI000463EBDF E E A G E V W I A A E Y E S D E E L S G E T S Q L L Y W L Q V M M I K R G L T P
UniRef90_Y0KE59 E E A T E T V I A A K D G Q R E A I V Y E T A D L W F H T L V M L A H H I Q G P
UniRef90_Q1H4R0 E E A T E A I I A A K D G D A E A Q I V Y E T A D L W F H S L V M L A N A N G L P
UniRef90_Q97KH6 E E T T E V I I A S K D D N K E D L I N E I C D V I Y H T L V L L N Y K N I K A
UniRef90_D5MHZ5 E E A T E L V V A S K N G D S R S G E I V Y E A D D L W F H A L V L L G Y H A P
UniRef90_I0AGR1 E E A T E V I I A A K N K S R R E I V Y E S A D D L L F H L I V M L A D N E I N L
UniRef90_UPI00035F6791 E E A V E T T V A Y L A E T K E R V I S E S A D L I Y H W L V M L A D S G G I T
UniRef90_V4J5C9 E E A T E T V L A A K D G N A Q Q I H E V A D L W F H C L V L L S R Q Q H P
UniRef90_R6G3E2 E E C T E V I I S C K E D N K E E Q I N E F A D L I Y H L L V L L M V D R N I
UniRef90_UPI000349FE50 E E A A E V V M A C K D D D P D A T A S E V A D L L Y H T L V A M S Y H H V N V
UniRef90_F4XAF8 E E C T E V I I A A K D Q D H K E T V Y E I A D L A Y H V M V L M V A S G I T P
UniRef90_M2NDV7 E E A T E T V I A A K N E N K E D L I G E I G D L Y Y H V L V L M A K K G I P
UniRef90_F7P134 E E G V E T A L A A T V G D R E E L K N E A A D L I Y H L L V L L K S Q D L A L
UniRef90_U4VWPJ4 E E A A E V L L A A K N R N Q D E E L R Y E M A D L F Y H L L V L L R E Q N I P
UniRef90_J8DBR1 E E C T E V I I A S K N N D K E E L V K E M V D V F Y H C F V L L A E K N I S L
UniRef90_U7PDR1 E E A F E V V I A A M K N D Q E E L A N E T A D V L Y H L F V L L H A C G V T V
UniRef90_Q31LP4 E E A A E V V M A C K D D D A D D G L A G E A A D L F F H T L V L A L A Q H D L
UniRef90_H9UMN9 E E A V E L I J A R N N P D E M I A E S A D L I Y H L L V L L A E R N D I P
UniRef90_B1X3F5 E E S V E F V M A C K D K N N D D T I G E A A D L I F H I Q V A L A H H Q V K W
UniRef90_UPI000255C1F6 E E T S E V I I A A K N H S I A E L E W E V S D V V Y H T L V M L A R E Q G G F
UniRef90_Q2JWX9 E E A T E V V M A A K E G S D K A A L A R E V A D L W Y H C L V L A H H Q V D
UniRef90_R6RF27 E E S T E M V I A A K N G V K D E T V G E I C D L I Y H T L V M M A N E G I T P
UniRef90_C9A5E5 E E A T E V V I G A M K E D R Q E T V Y E L A D L A Y H T L V L M A E M G L D L
UniRef90_L8JXP3 E E A V E L V I E A K D D N E V L F L N E A D L M Y H Y L V L L A A K G Y
UniRef90_C7H028 E E S S E V I I A A M N D N K G E V I Y E S A D L A Y H M M V L L I E Q G V S L

UniRef90_UPI000472CE1F	Q E V E Q E L
UniRef90_Q11SL9	D D V T Q V L
UniRef90_UPI00036ABF27	E L V L A E L
UniRef90_E3GI87	D D L F V E L
UniRef90_B9MJR2	T D I L K S L
UniRef90_W4QIX8	D E V L R V L
UniRef90_A5GUG3	R Q V L E V L
UniRef90_UPI0002894B3A	Y D V L G V L
UniRef90_I8TCV7	Q Q V A D E L
UniRef90_K2A8G6	E S I L N E L
UniRef90_W0EZ90	N D V L E V L
UniRef90_R5QR09	E D I Q N K L
UniRef90_Q5WDI3	D K V L E T L
UniRef90_I3D6C3	S E V N A K L
UniRef90_I2GRY5	D D I T A V L
UniRef90_UPI0003B7012F	Q D V W N T L
UniRef90_D5WRB5	E D V W Q E L
UniRef90_UPI0003B4EC7C	D D V R A E L
UniRef90_R5JF18	D D I T K E L
UniRef90_E8PME5	E D L A R T L
UniRef90_G1Y349	D D I Y A V L
UniRef90_A9WEK7	E A V W A E L
UniRef90_D4KAY2	E D V T R E L
UniRef90_W0JFC9	D A I L E E L
UniRef90_D5WYF4	Q Q V L A E L
UniRef90_W4VF96	E N V K Q E L
UniRef90_UPI000380A942	E D V R E V L
UniRef90_M1VMN6	N Q I A A E L
UniRef90_R5PNM8	N D V T R E L
UniRef90_A0A037Z2M7	E D I K N E L
UniRef90_E4RKM4	E Q I R K E L
UniRef90_Q7TUC7	R D V L N V L
UniRef90_Q82WM7	E D I L R E L
UniRef90_C4LF15	A D V V Q C L
UniRef90_R5EV97	E D L V R E L
UniRef90_G0A5R4	E Q V I N E L
UniRef90_UPI00041288CD	D D V L Q R L
UniRef90_Q2VYJ1	A K V W A E L
UniRef90_Q3A138	E R I Y A E L
UniRef90_E7S0Y4	Q D V L A E L
UniRef90_UPI000478C186	N K I L S E L
UniRef90_I4A788	K D I A Q E L
UniRef90_A0A024QGF3	T D I Y D E L
UniRef90_W7DDA5	A D I E R E L
UniRef90_UPI000255DC17	E D V V K V L
UniRef90_UPI00036AF279	D D I L N V L
UniRef90_D0IBL9	E D V V N K L
UniRef90_D1C4Y5	E R V W A V L
UniRef90_G7M297	E E I S E E L
UniRef90_B7K5G8	K D V Y R K L
UniRef90_Q8FTD4	E D V Y K N L
UniRef90_A9B1U1	E D V W
UniRef90_UPI0003A7EDCF	
UniRef90_Q47XB2	S E V M E V L
UniRef90_F5SGL2	D R V L S E L
UniRef90_H2FVX0	A D V M A K L
UniRef90_F9ZPF3	D D V L D R L
UniRef90_UPI00047985F4	E E V W N K L
UniRef90_Q67K11	A D V A D Q L
UniRef90_UPI0003B5BFFE	D A V L D E L
UniRef90_F9ZF43	D D V L K E L
UniRef90_R7GJY3	D D V L D K L
UniRef90_UPI000379A769	D D V L N E L
UniRef90_I0I845	E D V E A E L
UniRef90_X2H141	Q D V T G T L
UniRef90_D8DY88	E D V A A E L
UniRef90_F5RDS1	E D V L H E
UniRef90_UPI000463EBDF	A D V Y R H L
UniRef90_Y0KE59	Q E I L D E L
UniRef90_Q1H4R0	Q D V L R E L
UniRef90_Q97KH6	
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UniRef90_UPI00035F6791	D D V M E E L
UniRef90_V4J5C9	D A V L T E L
UniRef90_R6G3E2	K E I E E E L
UniRef90_UPI000349FE50	Q S V Y E K L
UniRef90_F4XAF8	D E I K A E L
UniRef90_M2NDV7	K D I E K L L
UniRef90_F7P134	H D V L E V L
UniRef90_U4WVPJ4	E Q V L L E L
UniRef90_J8DBR1	E D V L Q E
UniRef90_U7PDR1	D D V K Q V L
UniRef90_Q31LP4	R S V Y R K L
UniRef90_H9UMN9	A Q V I R E L
UniRef90_B1X3F5	H D V L R T L
UniRef90_UPI000255C1F6	D R V L R V L
UniRef90_Q2JWX9	R D V Y R Q L
UniRef90_R6RF27	D D V D E E L
UniRef90_C9A5E5	A A I R Q E L
UniRef90_L8JXP3	N D V V K V L
UniRef90_C7H028	A E I T E E L

UniRef90_C7RN96 MDMLHRI S E T L L A R R K A D P E T S Y T A Q L A K G P D A I L K K K 40
UniRef90_D1PV67 K L I E E L Q N A T F I D A R R H E E M S P Q E D S Y T T T A K L L F K K G G V L E D K I A Q K K I V G G G
UniRef90_UPI000288C691 K L I E E L Q N A T F I D A R R H E E M S P Q E D S Y T T T A K L L F K K G G V L E D K I A Q K K I V G G G
UniRef90_B9CWX3 K L I E E L Q N A T F I D A R R H E E M S P Q E D S Y T T T A K L L F K K G G V L E D K I A Q K K I V G G G
UniRef90_D5V4V8 V L D N L F H V I Q E D R R K N D D P P K K S Y T T T A K L L F K K G G V L E D K I A Q K K I V G G G
UniRef90_R7PDJ7 V L D N L F H V I Q E D R R K N D D P P K K S Y T T T A K L L F K K G G V L E D K I A Q K K I V G G G
UniRef90_R9C080 Q I L L A N R V E T T L Q Q R R K Q D D P P E T A S Y V A S L L F F E K G G L D D T R I V L L K K K I V G G G
UniRef90_K0C9I4 N I L L K R R V E T T L Q Q R R K Q D D P P E T A S Y V A S L L F F E K G G L D D T R I V L L K K K I V G G G
UniRef90_UPI000375E93E T L L E R V Y T A E I V A E Q R R K N E P P K E D E S S Y T T S S L L F F K K G G L D N K S I V A Q K K I V G G G
UniRef90_D7UX98 M K M L T K V L L E K V I Q Q N R R K D N D P P N D E S S Y T T S S L L F F K K G G L D N K S I V A Q K K I V G G G
UniRef90_UPI00036C50B9 L L E K V I Q Q N R R K D N D P P N D E S S Y T T S S L L F F K K G G L D N K S I V A Q K K I V G G G
UniRef90_C6WSY7 D V L L T R L S E A M L E R D R Q A D A D E P P A G S S Y T T N Y S L L F D Q K G G L D K I L L K K K I V G G G
UniRef90_M7NGQ5 M T V F D D S V M A T I L E R R K E N D P K E E T S Y T N Y S L L F D Q K G G L D K I L L K K K I V G G G
UniRef90_D4J841 R I L L E E L A E V L E K E R R K H A D D P P E E T S Y T N Y S L L F D Q K G G L D K I L L K K K I V G G G
UniRef90_UPI0003B6628A M Q N L S E L Y D L V R S R R K E N N P P K E G S S Y T D Y L L F F S E K G G L D K I L L K K K I V G G G
UniRef90_UPI00021973D5 Q T L S E L Y D L V R S R R K E N N P P K E G S S Y T D Y L L F F S E K G G L D K I L L K K K I V G G G
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E E A G E F T F A V K D D D N S E E E M J I Y E A A D D L V V Y H T M V A L L A S E K N D I L A S R P
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E E S T E V V T I G A M K E D R E E T V Y E V A D L A Y H V L V L M N E M N I S V
E E A G E V W I A A E H E S D E R L S E E L S Q L L Y R V Q V L M L G R G I S T
E E G V E T A L A A A E A Q D D E A L L G E A A D L V Y H L A V A L R A N G L S G L
E E A G E F C L A Y K D D D E H E V I Y E A A D L T Y H M L V A L G V K N I S P
E E G V E T A L A A V A Q D D E A A L G E A A D L F Y H L Q V L L R A R G L S S L
E E T A E V V M A C K D D D P E A I A S E V A D L F F H T L V A L A Y H R V S L
E E A V E T V I E A M R G D A D A L A A E S A D L L Y H L L V L W A D A G V A P
E E T S E V I I G A K N D D H S E M T W E T A D L T Y H T L V L M D L M G V S L
E E C T E T V I A A K N D N K E E L V K E M V D V I Y H C F V L L V E K N V S L
E E G V E T A L L A A V A Q D D E A L L G E S A D L V Y H L L V L L R S R D L S G L
E E A A E L S F A T K D S S E S E I V N E A A D L L Y H A L V G L A F R G L H P
E E A T E T V I V A A K N S S K V E I V N E V C D L L Y H L L V L L A N E G V D R L
E E A G E T V L M A S K D G D K Q H L V K E V A D V W F H T M V L L T Y H Q I V D R L
E E A T E T V V M A A K D G D E R V A E E V A D L W Y H T L V L L A H A D V D L
H E C T E L I L A A K N P D S D D L A F E I S F M Y H C M I L M A Q K N I T W
E E A V E T I L A L K S E D K Q K G I Y E T A D L L Y H L T V A L V N R G I T L
E E G V E V A L A A L A G S D E E L A G E A A D L L Y H L L V L A L R G L S R L
E E A T E T V I A A K S G D T D H L V Y E T A D L W F H T L V M L A H Y Y R G P
E E S A E V L L A S K D G D S T H V V R E T A D L W F H C L V L L A H H N K L
E E A T E L V I A A K D D N D Q L F K N E A A D L F Y H L L V M F N A K G F K I
E E G V E V A L A A M K N D N Q E L T N E A A D L L Y H L L V L L Q R Q K G L
E E A I E T I I A S L T E S R D R F V S E V A D L I Y H L L V L M A I N N V S P
E E G L E T A L A A A T H D K D E L I N E A S D L L Y H L L V L L E D Q S S L
E E C S E T V I A T L A Q K E D K I N E L S D L L Y H L L V L M V D Q D I T L
E E A G E V W L A A E Y Q S D D E L S E E L S Q L I Y W L Q V V M I N R G L K P
E E A T E T I L A S K T G A S K K I V Y E T A D L W F H S M I M L A H H G L T V
E E A T E T V I A A K G A R N E A H E A A D L W F H T L V G L A I M N I P
E E A T E T V I G A M K N D K R E T I Y E A D V A Y H I M V L M L E M G I T I
E E A V E T A L A A V S Q G D P E T L S E A A D L V Y H L T V L L H H Q G I W
E E A V E T V I E A V A G P R E G V I S E S A D L Y H M M V L W A E R G I Q P
E E A A E T I I A A K N A D D A A L I H E L A D L W F H T L V L L A Q R G L A L
E E A V E L V I A A K D D N K D L F L G E A A D L F H Y L V L L E A K E I N S L
E E T T E T V V I G A K N D L N E T A N E L A A D L T Y H I L V L L M E E L G S I
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E E E C T E T I L L A A K D G D T R D L V Y E T A D L W F H S L V M L S H L D V E L P
E E E A G E T W T A A E Y E G A R T A E E M S D L L Y H V Q V M M L N K G I T S L
E E E A V E V A L A E I T D T P G A T L A S E S A D L L Y H L F A L W R Y S Q I S L P
E E E N A E V I I A A K N R D K A E L V Y E T S D L L Y H L L V L L V I E Q G V S L
E E E A V E T L L A A R D G E A Q A L I S E T A D L W F H S M V M L A H L G L H P
E E E A G E V W L A A E H E S D E A L A E E S Q L I Y H V Q T L M L A R G L T L L
E E E A V E A T V A A L S G S D E D M V G E S A D L L F H L M V L L A D R D I T L L
E E E A T E V I L A A K D D D R E D L V A E S A D L L Y H L L V T L S M S Q D V S L L
E E E A T E L A V A S K L A E G K R D V L E E A A D L L Y H V L V L L A S N G G L S L
E E E A V E T V I A G V A E S D D K L R A E A A D L L Y H L M V L L E A R N V P I
E E E A L E T L I A L K N S Q K D Q I V L E T A D L L Y S L L L S L V V K G V A W
E E E A F E V V I G A M K S N Q E E V T N E T A D L M Y H L F V L L H A L N I K F
E E E A A E V W M A A E H E G P E R T A E E S Q L L Y H L Q V L L L A S G L T L L
E E E A T E L V M A A K D G N K S K F I N E T A D L W F H C L V L L T Y Y N L R P
E E E A V E V V I A A M D N Q K G L F L E E S A D L L F H Y L M L L H A K E T S L L
E E E S I E T I I A A K D G D K S D L I Y E T A D L W F H T L V M L S H L D I G S P
E E E A L E L V I E A K D D N D E L F L G E A S D L L F H Y M V L L R A K G F S L L
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E E A D E L C A A N T K E D I A S E A A D L L Y F A L T R C I A A G V T L
E E N A E F I K A F L T E P P Y E T A A A D Y L Y H L M V A L R F K G I P W S
E E A T E A L I A A K D I N V K D L V Y E A A D V W F H T M V T L A W F N I H P
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E E A T E V V I A A K N E D P K E L V Y E T A D V L Y H L L V L L V E K G V S P Y
E E L D E I E A G T N K D K N E V A W E C A D L F Y F A M V W C V K H G V S L
E E S T I E T I L A A V R N E D H R E I V S E S S D L I F H L L V L L A N N I T L
E E A V E T V L A A A V S G D R Q G V I S E S A D L L Y H L L V L L G I S G I K L
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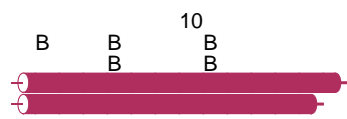
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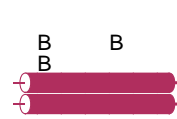
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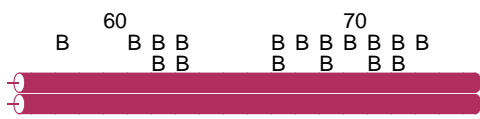
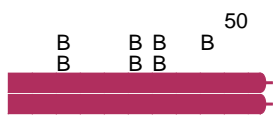
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