

QUERY	1	10	20	30	40
UniRef90_A5D5S1	K	L	R	D	E
UniRef90_R6J182	K	L	R	D	E
UniRef90_F7Z734	K	L	R	D	E
UniRef90_C0GBZ3	I	L	R	D	E
UniRef90_E8ZU94	E	L	R	D	E
UniRef90_UPI0003B5475A	K	L	R	D	E
UniRef90_T0BYC9	Q	H	L	R	D
UniRef90_D9QVY0	K	L	R	D	E
UniRef90_A3DEZ1	K	V	L	R	D
UniRef90_Q8EPE3	K	R	L	R	D
UniRef90_UPI00037AD56E	E	R	L	R	D
UniRef90_UPI0002492485	K	R	L	R	D
UniRef90_J7IM58	R	L	R	D	E
UniRef90_B0K3F8	V	L	R	D	E
UniRef90_E0RA86	I	L	R	D	E
UniRef90_V6M1X0	K	L	R	D	E
UniRef90_Q0AYD8	K	L	R	D	E
UniRef90_UPI0003B79537	K	K	V	L	R
UniRef90_L0K724	E	K	L	R	D
UniRef90_R5C666	Q	K	L	R	D
UniRef90_UPI0004726F72	K	R	L	R	D
UniRef90_K9AS87	Q	K	V	L	R
UniRef90_UPI00031CDCE5	K	K	V	L	R
UniRef90_K1LTX4	K	K	V	L	R
UniRef90_R5ISR9	K	T	V	L	R
UniRef90_U4WLE9	R	V	L	R	D
UniRef90_UPI0002492FE2	K	K	L	R	D
UniRef90_G9WK44	Q	R	L	R	D
UniRef90_R5A8P8	K	L	R	D	E
UniRef90_L5NB00	Q	K	L	R	D
UniRef90_R6I432	K	K	L	R	D
UniRef90_R5K453	E	K	L	R	D
UniRef90_E6U4A3	E	K	L	R	D
UniRef90_A1R530	R	L	R	D	E
UniRef90_B8FA29	I	L	R	D	E
UniRef90_D3H978	K	K	L	R	D
UniRef90_Q67J61	R	L	R	D	E
UniRef90_W4QDU8	Q	R	L	R	D
UniRef90_UPI000344BE72	K	K	L	R	D
UniRef90_Q3A6U5	K	H	L	R	D
UniRef90_D0Z3L0	K	K	V	L	R
UniRef90_R4KM11	K	L	R	D	E
UniRef90_D2BG66	K	L	R	D	E
UniRef90_UPI000424FC31	K	L	R	D	E
UniRef90_B8FPQ5	E	K	L	R	D
UniRef90_S7TWW2	I	L	R	D	E
UniRef90_U2BHT3	E	K	L	R	D
UniRef90_U4WPI8	E	K	L	R	D
UniRef90_B2THQ1	E	K	L	R	D
UniRef90_B6WY61	Q	R	L	R	D
UniRef90_B0JKJ9	K	L	R	D	E
UniRef90_Q4MV86	K	R	L	R	D
UniRef90_A9FJT2	K	H	L	R	D
UniRef90_E8N525	R	S	I	L	R
UniRef90_W0E9W7	I	L	R	D	E
UniRef90_D5BT47	K	L	R	D	E
UniRef90_D4KEW3	K	V	L	R	D
UniRef90_D7WTP0	K	K	V	L	R
UniRef90_B3E3A3	K	K	V	L	R
UniRef90_R8S6A0	K	L	R	D	E
UniRef90_S4E378	K	L	R	D	E
UniRef90_U2D8J5	K	V	L	R	D
UniRef90_F7NNJ2	U	L	R	D	E
UniRef90_S9T8S9	R	V	L	R	D
UniRef90_S0G002	Q	T	L	R	D
UniRef90_K9ELU5	V	L	R	D	E
UniRef90_D8F1F7	H	L	R	D	E
UniRef90_I0HYN8	K	L	R	D	E
UniRef90_R5PAJ7	Q	R	L	R	D
UniRef90_K4LEN1	E	K	L	R	D
UniRef90_UPI000288E082	R	L	R	D	E
UniRef90_Q04CN0	K	K	L	R	D
UniRef90_R8W8L4	K	T	L	R	D
UniRef90_W2EIK5	R	L	R	D	E
UniRef90_I3VTB4	K	K	L	R	D
UniRef90_UPI0001745949	R	L	R	D	E
UniRef90_D3FZQ9	R	L	R	D	E
UniRef90_D7GT12	K	L	R	D	E
UniRef90_UPI00034753DC	R	L	R	D	E
UniRef90_R6DMD9	Q	K	L	R	D
UniRef90_A3K638	K	L	R	D	E
UniRef90_E8WRA6	Q	T	V	L	R
UniRef90_B2V7Q1	I	Y	V	L	R
UniRef90_UPI00046E8F87	K	L	R	D	E
UniRef90_UPI000479B10D	I	L	R	D	E
UniRef90_S6CL88	R	L	R	D	E
UniRef90_A3X9Y6	K	L	R	D	E
UniRef90_W0RYS9	E	K	L	R	D
UniRef90_UPI00041304F6	I	L	R	D	E
UniRef90_UPI0002E3DBC0	H	V	L	R	D
UniRef90_C0Z5U8	K	V	L	R	D

QUERY	50	60	70	80
UniRef90_A5D5S1	R R D R P D L L V V L A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M	70	80
UniRef90_R6J182	T G G K W D L L V L L D L M M L P K K R M D G W M E V V C C C C R E I V R K K T T S S A M P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_F7Z734	E E E V Q P D L L V L L D I M L M L P K K R M D G W M E V V C C C C R E I V R K K Y T S S A M P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_C0GBZ3	K S T T P D L L I L L D L M L M L P K K R L D G W M E V V C C C C R E I V R K K Y F S E A T P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_E8ZU94	K E E K P D L L V L L D L M L M L P K G M D G G Y E V V K E I R K K D N N L A T T P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_UPI0003B5475A	E K E Q P D L L V L L D W M L M L P K G M D G G Y E V V K E I R K K D N N L A T T P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_T0BYC9	N E R Q P D L L I L L D W M L M L P P G K S G I D I V V V C C C C R R Q I R R A T S S N T P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_D9QVY0	Q R E E D I L L V L L D L M L M L P G E G A D G G L D I V V V C C C C R R Q I R R N D D E L S S N L P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_A3DEZ1	R N E A P N I V I L D I M L M L P G E G A D G G L D I V V V C C C C R R Q I R R N D D E L S S N L P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_Q8EPE3	E A S M Y D L I V L D L M L M L P P G E V D G G M E V I V C C C C R T L R R M N Q V V N T P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_UPI00037AD56E	L D E R P D L M I L L D L M L M L P K G M D G G M D I V C C C C R T L R R Q E K V V N T P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_UPI0002492485	L S S T F D L I L L D I M L M L P K G M D G G L D I V V V C C C C R T L R R Q E K V V N T P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_J7IM58	K E N P F D L L I L L D L M L M L P P G M S G T E I V C C C C R E I R K K N D E T K N Q T P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_B0K3F8	L E G K A P D L L V L L D L M L M L P P D G M D G G M D I V C C C C R R E I R K K N D E T K N Q T P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_E0RA86	V K Q K P D L L I L L D L M L M L P P G R D G M E V V C C C C R R A L R K A H S E Y K T H I P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_V6M1X0	Q Q E R P D L L I L L D V M L M L P P Q G R D G M E V V C C C C R R A L R K A H S E Y K T H I P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_Q0AYD8	K D A P P D L L I L L D L M L M L P P Q G M N D G L E V V C C C C R R L R K K A D S G L K K H I P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_UPI0003B79537	R K I K P D L L I L L D L M L M L P P G M N D G L E V V C C C C R R L R K K A D S G L K K H I P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_L0K724	K K K N P D L M V L D L M L M L P K G V D G G F D I V V C C C C R R Q I R R E D K D L K N L P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_R5C666	T T Y A P D L V L L D L M L M L P P G M D G G Y Q V V C C C C R T Q L R T K R Q D K I S Q S T P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_UPI0004726F72	A E G T F F I I L L D L M L M L P P G M D G G M D V V C C C C R K Q L R R Q D K I S Q S T P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_K9AS87	N D T K P D L I V L D V M L M L P K K K D G I E V V C C C C K T L R R S E K N S Q V P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_UPI00031CDCE5	E A E N P N L I V L D L M L M L P K K D G G I E V V C C C C K T L R R Q R K M N V P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_K1LTx4	H N E T F D L I V L D V M L M L P P G M D G V E L C C C C R T T L R R K E G V M N E T P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_R5ISR9	Q T E D P D L I L L D V M L M L P K K M N G F D I V V C C C C K T L R A E N R T T P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_U4VLE9	E K K K Y N L I V L D V M M L P K K I D G I E V V C C C C R R L R N K T N T P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_UPI0002492FE2	D S E D P D L L I L L D L M L M L P P V I D G I E V V C C C C A R T R I R K T K D T P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_G9WK44	E K E G A D L L I L L D L M L M L P P G I D G Y E V V C C C C R R I R A S T S D V P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_R5A8P8	D T V N P D L I L L D I M L M L P P G G L D G W M E V V C C C C R R K R K S S T R P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_L5NB00	S N T A F D I V L D I M L M L P P G M D G G Y Q V V C C C C R Q L R K Q K V S S Q T P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_R6I432	L G S D Y D L V I L D V M L M L P P G M D G G F E V V C C C C R Q I R K H S E Y K C P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_R5K453	V E H F M P N L I L L D L M L M L P P G M D G G Y Q V V C C C C R T E I R K K S E K S N V P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_E6U4A3	E D H K P D L V L L D L M L M L P P G M D G G Y Q V V C C C C R T E I R K K S E K S N V P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_A1R530	A S R Q P D L V L L D R M L M L P P G L D G V E V V C C C C R R L R R Q K T M S V P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_B8FA29	K N F S P D L V L L D L M L M L P P G L D G G L E V A R V L R K S P N T S S V P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_D3H978	E A E Q P D I I L L D L M L M L P P G L D G G L E V A R V L R K S P N T S S V P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_Q67J61	R A S D F D L V I L D I M L M L P K L D G G F T V V C C C C K R E I R R F S S V P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_W4QDU8	Q A E S F H L M V L D L M L M L P P E V N G L L D V V C C C C K R I R R N K V D N K D P Y P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_UPI000344BE72	K Q Q Q P D L V V L D L M L M L P P G G M D G L Q V V C C C C R A L K E N A D T R H I A V V M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_Q3A6U5	A E D P P D L V V L D L M L M L P P G G M D G L Q V V C C C C R A L K E N A D T R H I A V V M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_D0Z3L0	A A G E P D L I L L D V M M L P P G D D G F T L V C C C C R H I R K N A D T R S D V P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_R4KM11	R R M T L D L V L L D I M L M L P P Q G D D G L E V V C C C C R R I R R Q T F S S V P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_D2BG66	R L F K P S L V I L D V M L M L P P Q G V D G G F E L V C C C C R L I R T E F S S V P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_UPI000424FC31	V E E K P E L I V L D L M L M L P K G K D G M E V V C C C C R E I R L Q Q R N T S N V P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_B8FPQ5	R M N Q P Q L V I L D I M M L P P G M D G G Y E V V C C C C R R I R R E L K K N P E T A K T P V V M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_S7TWW2	R R H R P V L I L L D L M L M L P P G M D G G F E I V C C C C R E I K K N P E T A K T P V V M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_U2BHT3	R S E A L D I A I L D V M M L P P E M M D G F Q L E V C C C C R E I R E Q Y T Y K A T P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_U4WPI8	L N Q D Y D I I L L D L M L M L P P G M N D G I E V V C C C C R T R I R E Q Y T Y K A T P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_B2THQ1	K M E N P K I L L D L M L M L P P G L D G G F D V V C C C C K E V K K D K E T Q N I P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_B6WY61	T S E L P D L V V L D L M L M L P P G L D G G L C C C C C R R L K A A P V T A A I P V L F M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_B0JJK9	Q E N N Y D L I L L D W M L M L P P Q Q S G L Q I V C C C C Q Q I R R N Q G D T S N V P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_Q4MV86	L T H Q P D L I L L D L M M L P P Q Q K N G W E L E E E I R R Q K S N V P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_A9FJT2	G A G T V D L V V L D V M L M L P P E L D G G L E V C C C C R R L R A S G S R T P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_E8N525	R T E M P D L V L L D V M M L P P E D L D G F E V L K I P R R S S N T P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_W0E9W7	H K G S Y A L L V I D L M M L P P E V D G W H V C C C C R E V R R S T E T S T I P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_D5BT47	E D L Q P D L I L L D W M M L P H K M S G I E V V C C C C R L E R R S T E T S T I P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_D4KEW3	Q R E R P D I I L L D V M M L P K G L S G F E I V C C C C R R V I R R K T S N V P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_D7WTP0	L K G N Y D L I L L D I M L M L P P G L S G F D I V C C C C K Q I R A S D K T F S D V P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_B3E3A3	R R E L P D L I L L D L M L M L P P G M M G T E V C C C C S A L R H S D K T F S D V P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_R8S6A0	K R E Q I N L M I D I M M L P H G I D G M A I T Q R L R Q E K I F S D T P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_S4E378	L D H P F D F I L D V M L M L P H V I L D G M A I T Q R L R R D Y E T S K V P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_U2D8J5	S D Y K P D L V L L D I M L M L P H V I L D G M A I T Q R L R R D Y E T S K V P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_F7NNJ2	S Q Q K P A M V I D I M M L P V I L D G L E A C C C C R R Q I R R R S K V P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_S9T8S9	E Q H K Y N L V I L D L M M L P Y I L D G V E V C C C C R R I R R E R S N V P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_S0G002	Q E N V P S L F I L D I M L M L P G L D G L E V V C C C C R R L R Q N V A T K N D P Y P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_K9ELU5	P I F Q P D L I L L D L M L M L P P G L D G L E V V C C C C A R I R R Q T P G T K D P Y P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_D8F1F7	K N N P F D L V L L D I M M L P P G G K S G Y D V C C C C R E I R S T D E D P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_I0HYN8	R Q H Q P D L I L L D I M L M L P G L D G G F E V V C C C C R E I R K E M N A P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_R5PAJ7	A T F N P D L I L L D I M L M L P G D I D G Y E V V C C C C T E I R K E T R Q T P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_K4LEN1	R K G K P D L V I L D L M L M L P V I S G W E V V C C C C R I R R Q E S D V P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_UPI000288E082	D R N G A D V I L L D L M L M L P A K L S G T E V A R E I V R T R T S H V P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_Q04CN0	E E C N P D L I L L D L M L M L P K K D G L E V A R E I V R R Q T S H V P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_R8W8L4	L E N A P D L I L L D V M L M L P P G M D G G F E I V C C C C R R V R E K G G T H T P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_W2EIK5	Q R H R P D L I V L D V M L M L P G D M D G D I V C C C C R R L R R K G G T H T P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_I3VTB4	K E E L P L I I L L D L M L M L P G G I D G M T L V C C C C K E V R K S F T N V P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_UPI0001745949	G Q E E F A L V V L D I G L P D M T G F E V V C C C C R E V R T S F T N V P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_D3FZQ9	E K T L Y S V V L D V M M L P E M D G G F E V V C C C C R E I R K V S Q V P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_UPI0001745949	S E E F D L F I L D L M L M L P I S E V D G G F E I V C C C C K E I R R E T A D I P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_D7GT12	L S E E F D L F I L D L M L M L P I S E V D G G F E I V C C C C K E I R R E T A D I P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_UPI00034753DC	M Q L V P D L I V L D L M L M L P K G V D G G F T V V C C C C Q R L R R D E R T A D I P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_R6DMD9	K T Y Q P N I M L L D L M L M L P G I D G G Y E V V C C C C R E V R R S S N L P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_A3K638	A E E N P D I V V L D W M L M L P N V S G I E V V C C C C R Q I K T P P E T R N V P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_E8WRA6	R K A K P D L I L L D L M L M L P G M M G T E V V C C C C R L K G S D Q T A S I P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_B2V7Q1	K Q E K P D I V L L D L M M L P E V D G G L E V C C C C K L V R S D K E L H I P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_UPI00046E8F87	E S E K V D I I L L D L M M L P E V D G G W E L C C C C R E L R T Y T R D V A P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_UPI000479B10D	E V H H P D L V L L D W M L M L P E M S G L D V C C C C R E L R Q T R D V A P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_S6CL88	S A N N Y D L F I L D I G L P G M D G Y E V V C C C C R R I R S K T T E A P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_A3X9Y6	S R E D P D F I V L D I M L M L P E L D G G F E V V C C C C R R I R R Q R S E T A P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_W0RYS9	K R E Q P N L V I L D L M M L P K L D G Y G V V C C C C Q E L R K D S D V P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_UPI00041304F6	Q S R S V D L V L L D I M M L P K E V D G Y E V T R Q I R R E R Y S M P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_UPI0002E3DBC0	H K Q V P D V I L L D L M L M L P E V D G M E V V C C C C R W R I R A F S D P P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		
UniRef90_C0Z5U8	E K E Q P D V V I L D V M M L P Q L D G F E A C C C C R E I R K K W D T P I I M M	A V D L S A G Q N G V D G W S I V C G R E I V K K D D D L K N V P I V I M		

QUERY UniRef90\_A5D5S1 UniRef90\_R6J182 UniRef90\_F7Z734 UniRef90\_C0GBZ3 UniRef90\_E8ZU94 UniRef90\_UPI0003B5475A UniRef90\_T0BYC9 UniRef90\_D9QVY0 UniRef90\_A3DEZ1 UniRef90\_Q8EPE3 UniRef90\_UPI00037AD56E UniRef90\_UPI0002492485 UniRef90\_J7IM58 UniRef90\_B0K3F8 UniRef90\_E0RA86 UniRef90\_V6M1X0 UniRef90\_QOAYD8 UniRef90\_UPI0003B79537 UniRef90\_L0K724 UniRef90\_R5C666 UniRef90\_UPI0004726F72 UniRef90\_K9AS87 UniRef90\_UPI00031CDCE5 UniRef90\_K1LTX4 UniRef90\_R5ISR9 UniRef90\_U4WLE9 UniRef90\_UPI0002492FE2 UniRef90\_G9WK44 UniRef90\_R5A8P8 UniRef90\_L5NB00 UniRef90\_R6I432 UniRef90\_R5K453 UniRef90\_E6U4A3 UniRef90\_A1R530 UniRef90\_B8FA29 UniRef90\_D3H978 UniRef90\_Q67J61 UniRef90\_W4QDU8 UniRef90\_UPI000344BE72 UniRef90\_Q3A6U5 UniRef90\_D0Z3L0 UniRef90\_R4KM11 UniRef90\_D2BG66 UniRef90\_UPI000424FC31 UniRef90\_B8FPQ5 UniRef90\_S7TWW2 UniRef90\_U2BHT3 UniRef90\_U4WPI8 UniRef90\_B2THQ1 UniRef90\_B6WY61 UniRef90\_B0JJK9 UniRef90\_Q4MV86 UniRef90\_A9FJT2 UniRef90\_E8N525 UniRef90\_W0E9W7 UniRef90\_D5BT47 UniRef90\_D4KEW3 UniRef90\_D7WTP0 UniRef90\_B3E3A3 UniRef90\_R8S6A0 UniRef90\_S4E378 UniRef90\_U2D8J5 UniRef90\_F7NNJ2 UniRef90\_S9T8S9 UniRef90\_S0G002 UniRef90\_K9ELU5 UniRef90\_D8F1F7 UniRef90\_I0HYN8 UniRef90\_R5PAJ7 UniRef90\_K4LEN1 UniRef90\_UPI000288E082 UniRef90\_Q04CN0 UniRef90\_R8W8L4 UniRef90\_W2EIK5 UniRef90\_I3VTB4 UniRef90\_UPI0001745949 UniRef90\_D3FZQ9 UniRef90\_D7GT12 UniRef90\_UPI00034753DC UniRef90\_R6DMD9 UniRef90\_A3K638 UniRef90\_E8WRA6 UniRef90\_B2V7Q1 UniRef90\_UPI00046E8F87 UniRef90\_UPI000479B10D UniRef90\_S6CL88 UniRef90\_A3X9Y6 UniRef90\_W0RYS9 UniRef90\_UPI00041304F6 UniRef90\_UPI0002E3DBC0 UniRef90\_C0Z5U8

90 100 110 120

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

QUERY	P E
UniRef90_A5D5S1	S Q
UniRef90_R6J182	T Q
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UniRef90_D9QVY0	T
UniRef90_A3DEZ1	Y E
UniRef90_Q8EPE3	S Q
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UniRef90_J7IM58	S
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UniRef90_R6I432	Y E
UniRef90_R5K453	
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UniRef90_U4WPI8	S
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UniRef90_B6WY61	
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UniRef90_U2D8J5	Y
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UniRef90_K9ELU5	S
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UniRef90_C0Z5U8	I Q



	1	10	20	30	40																																								
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UniRef90_D4J046		K	R	L	L	I	I	E	D	E	E	A	I	A	E	L	E	K	D	L	E	L	S	E	S	N	F	D	V	R	T	T	A	D	D	D	G	E	D	A	L	L	L	L	
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UniRef90_E3PT04	K	K	V	L	V	V	D	D	E	E	E	N	I	V	E	L	L	K	F	N	M	E	L	K	G	Y	K	V	E	Y	A	Y	D	D	G	E	E	T	G	L	T	L	A		
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UniRef90_F5SEM3	H	I	L	L	V	E	D	E	E	R	L	G	R	L	I	S	E	Q	L	R	L	E	G	H	R	V	T	V	A	S	D	D	G	E	E	G	Y	R	M	W					
UniRef90_S2KF35	K	T	V	L	V	D	D	E	E	A	S	I	R	E	M	L	A	V	I	L	L	E	M	A	D	G	Y	R	V	L	E	A	D	S	A	Q	T	A	H	A	M	V			
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UniRef90_T0B121	H	I	L	L	V	D	D	D	R	D	L	R	G	L	L	A	D	Y	L	L	E	K	Q	G	L	R	C	T	T	A	A	D	D	G	R	E	M	K	A	L					
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UniRef90_UPI00047A64F1	K	K	I	L	V	A	E	D	D	E	L	A	I	S	K	V	L	S	A	Y	L	L	Q	R	E	G	F	E	V	I	A	A	N	G	Q	D	D	A	L	E	L	F			
UniRef90_E0IBF4	Q	R	I	F	V	V	D	D	E	D	E	K	I	T	S	L	L	R	R	S	L	L	A	F	E	G	Y	E	V	T	I	A	N	D	G	Q	E	G	L	K	L	M			
UniRef90_B5EAZ9	E	T	I	L	I	E	D	E	R	D	L	A	E	L	L	A	F	N	L	L	L	L	E	A	E	G	Y	K	T	I	I	A	A	D	G	E	E	G	L	A	N	A			
UniRef90_N1ZNC4	K	T	I	L	A	V	D	D	E	H	I	L	E	L	L	K	Y	N	L	L	E	T	N	G	Y	V	I	T	V	E	T	G	E	E	A	L	E	L	L	L					
UniRef90_R5XNZ7	K	T	I	L	V	D	D	E	K	P	I	V	D	I	L	L	V	Y	N	L	L	Q	K	E	G	Y	D	T	L	E	A	R	D	G	E	E	A	L	V	S	L	A			
UniRef90_UPI00038233B3	K	K	L	L	V	D	D	D	K	N	V	I	E	L	L	S	L	Y	L	L	K	K	K	E	N	F	D	V	I	A	R	D	D	G	E	E	A	L	K	K	V				
UniRef90_F7NK39		L	L	V	V	D	D	D	V	K	I	A	E	L	L	S	K	A	Y	F	L	L	K	K	D	G	F	I	V	I	L	S	H	D	D	G	Q	A	V	Q	L	V			
UniRef90_D6GSX8		I	L	L	I	E	D	E	K	P	I	S	D	I	V	K	F	N	L	L	K	R	E	G	Y	D	I	I	T	A	F	D	D	G	L	D	G	Y	Q	K	G				
UniRef90_UPI00047AA2CE		I	L	V	V	D	D	E	S	N	I	A	E	L	L	E	V	I	L	L	L	K	N	E	N	Y	T	V	F	K	Y	S	S	G	K	E	A	L	A	C	I				
UniRef90_F4XF11	Q	K	V	L	V	D	D	S	N	I	A	E	L	L	H	L	Y	L	L	E	K	E	G	F	E	T	K	V	A	K	D	D	G	G	K	E	A	L	V	E	Y				
UniRef90_UPI00028913C2	K	K	I	L	I	D	D	D	Q	K	L	N	R	L	L	T	D	Y	L	L	S	K	M	G	F	T	V	L	T	A	T	L	P	S	A	G	L	E	K	L					
UniRef90_R7M1S2	E	K	I	L	V	E	D	E	D	R	D	L	E	R	D	L	E	R	D	L	L	E	A	N	G	Y	Q	V	E	L	A	P	D	P	S	G	E	K	K	A					
UniRef90_A4EM61	H	I	L	V	E	D	E	A	A	Q	R	E	L	L	A	E	Y	N	L	L	L	E	A	E	G	F	R	V	T	R	A	E	N	G	D	E	A	L	L	C	V				
UniRef90_D8IXV8	I	L	V	E	D	E	P	K	L	A	R	E	L	L	Q	K	Y	L	L	A	L	A	G	Y	S	A	R	H	V	A	R	D	A	A	L	D	A	V	L						
UniRef90_CON373	V	L	V	E	D	D	V	A	I	R	D	M	L	S	F	T	L	L	K	Q	A	G	F	G	C	D	S	V	G	D	A	A	G	L	D	F	L								
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UniRef90_R5RIS1		I	M	I	V	D	D	E	K	E	I	R	E	L	V	Q	I	Y	L	L	L	E	N	D	G	F	K	V	F	K	F	Y	N	G	K	D	A	L	E	C	A				
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UniRef90_A3VE31	V	L	L	V	E	D	E	P	A	Q	R	E	L	L	R	R	N	L	L	L	L	A	S	E	G	Y	D	V	S	I	A	E	N	G	D	D	A	M	V	L	V				
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UniRef90_A9B4X6	K	I	L	V	E	D	E	R	K	I	A	V	G	L	Q	N	Y	L	L	L	E	G	V	G	Y	S	T	T	A	S	D	G	G	R	A	L	E	M	A						
UniRef90_D5WQA4	R	N	K	I	L	V	E	D	E	E	R	I	R	R	L	R	M	Y	L	L	L	E	R	N	E	G	F	S	I	E	E	A	E	D	G	R	T	A	L	E	M	A			
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UniRef90_R6Z8J9	Y
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UniRef90_D7CK37	R
UniRef90_E2SEV2	S
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UniRef90_R6NIA3	Y
UniRef90_E0DIV2	



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I A L V D D D P K I R E L T A K Y L S D Q G L S V V T A S N G A E L D E L R  
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V L V V D D D E K K L R T L L V R E Y L E R E G Y A V L E A A D D G Q T A L D L A  
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UniRef90_D1VT63	L S T A K E D D Y D K V L G L R L G A D D D	Y I L T T K P F S P K E E V V A R R V A A I L R R R		
UniRef90_Q2FD68	L T T A L D D I D K V M A L R L G A D D D	Y I L V V T T K P F S P K E E V V A R R V A A I L R R R		
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UniRef90_U2Q0A8	V T A K E E I D R L L G L E I G A D D D	Y L C K P Y T S P R E V A R V K T T Q I V L		
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UniRef90_K8REU9	L T A K S D I S K V K G L D I G A N D D	Y M T K P F V I E E L L A R V R A A I L R R R		
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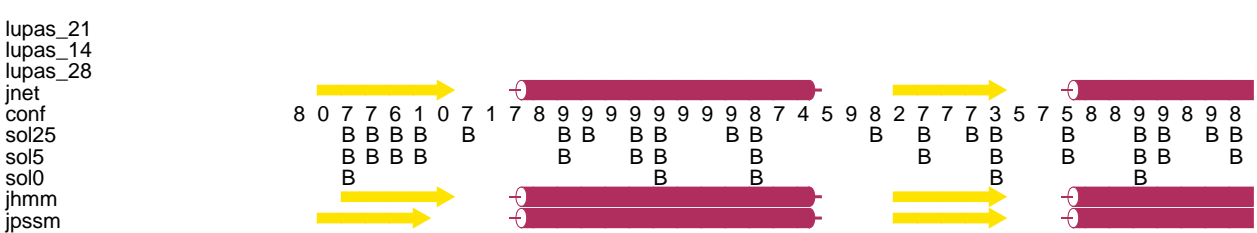


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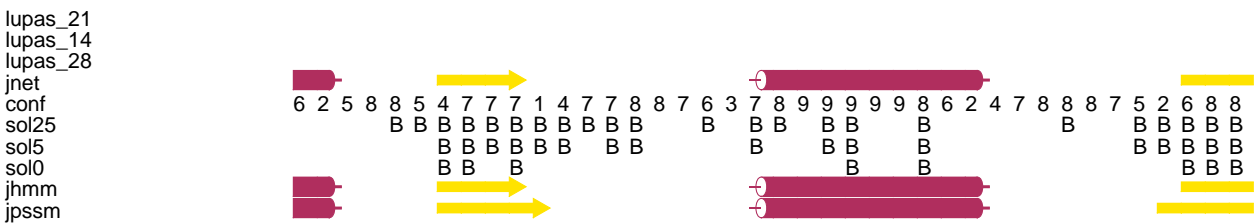
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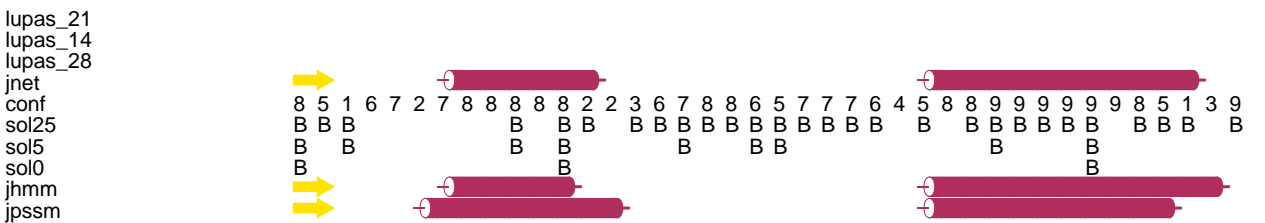


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