

1 10 20 30 40
QUERY M L E E Y R K H V A E E R R A A E A G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_Q0VQ99 M L E A Y R R K H V A E E R R A A E A G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_UPI0003B3BFA9 M L E A Y R R K H V A E E R R A A E A G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_I2JHH1 M L E A Y R R K H V A E E R R A A E A G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_S6BSU9 F L E E D Y R R A H V A E E R R A A E A G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_C7RB26 M L E A Y R R S H V A E E R R A A E A G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_F7NYE9 M L E Q Q Y R R S H V A E E R R A A E A G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_UPI000368FD11 M L E A Y R R K H V A E E R R A A E A G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_UPI000379D0DD M L T Q E Y R R E H V A E E R R A A E A G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_J1Q0Z5 M L Q E E Y R R K H V A E E R R A A E A G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_UPI000381127A V L Q E E Y R R K H V A E E R R A A E A G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_UPI00047E2747 M L E A Y R R K H V A E E R R A A E A G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_UPI000441EE69 V L E A Y R R K H V A E E R R A A E A G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_UPI0003450314 M L E A Y R R Q H V A E E R R A A E A G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_E1SN91 M L E A Y R R K H V A E E R R A A E A G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_K0C3K3 M L E E E Y R R N H V N E E R R A A E A G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_F3LDF5 M L E A Y R R K H V A E E R R A A E A G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_UPI000464C6A3 M L E A Y R R T H V A E E R R A A E A G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_UPI0003B6D6F9 M L E A Y R R A H V A E E R R A A E A G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_F9ZXF1 M L E E E Y R R K H V A E E R R A A E A G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_UPI00031F159D M L E A Y R R K H V A E E R R A A E A G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_W9VH13 M L E A Y R R K H V E E E R R A A E A G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_A6FBI9 M L E A Y R R K H V A E E R R A A E A G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_C1D9N3 M L E A Y R R K H V A E E R R A A E A G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_M1SJ48 M L E N Y R R R H V A E E R R A A E A G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_UPI00037F7267 V L E A Y R R K H V A E E R R A A E A G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_A0KPU4 V L E T E Y R R K H V A E E R R A A E A G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_UPI000262CE0D M L T E Y R R K H V A E E R R A A E A G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
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UniRef90_W6MOW0 M L E T Y R R Q Q A H V A E E R R A A E A G V A P P L A P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_F2GA11 M L Q E D Y R R K H V A E E R R A Q Q G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_UPI000363A7F4 V L E A Y R R K H V E E E R R A Q Q G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_S3EGZ8 L L K T Y R R K H V E E E R R A K A L G V A P P K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_B5JRV6 M L E A Y R R K H V E E E R R A A L G V A P P K P P L D A N Q Q Q M A A L V E L L K N P P A G G
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UniRef90_R8AT32 M L E A Y R R K H V A E E R R A A E A G V A P P K K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_UPI00040279AC M L K E Y R E H V A E E R R A A E A G V I P P K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_Q604Q3 M L T Q Y R E H V A E E R R A A E A G V A P P K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_F7RZD1 M L E S Y R R A H V A E E R R A A E A G V A P P K P P L D A N Q Q Q M A A L V E L L K N P P A G G
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UniRef90_D8NGD2 M L A N Y R R Q H V A E E R R A A L G V A P P L P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_W6K8T4 M L E Q Y R R A H V A E E R R Q A Q G V A P P L P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_UPI0003487B07 M L T A Y R R Q L A A E E R R Q A L G V A P P L P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_S6GQI4 M L K A Y R R K H V E E E R A I Q G V A P P K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_UPI00035CEE43 M L E A Y R R K H V A E E R R A A L G V A P P L A P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_C5BI06 V L E A Y R R K H V A E E R R D A L G V A P P K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_K9TR35 M L E S Y R R Q Q A A S R S S Q G V A P P L P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_UPI00035FE691 F L D S Y R A H V A E E R A S L G V A P P L P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_M4R5Y0 F L K D Y H L Q V A E E R A S K Q G V A P P L P P L D A N Q Q Q M A A L V E L L K N P P A G G
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UniRef90_E2PIA9 M L E A Y R R K A A E E R R A A L G V A P A L P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_L2F5K9 M L E A Y R R K H V A E E R R A A L G V A P P Q P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_A8FQC8 M L E A Y R R K H V E E E R R A S E G V A P P K P P L D A H Q Q V A E L V K N P P A G G
UniRef90_K9X9F8 M L E E Y R Q A H V A E E R R A T A M G V A P P P L P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_V4Y448 F L K N Y Q A H V A E E R R A T L G V A P P P L P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_Q1H0A3 M L T A Y R R K H V A E E R R A S A G L P P P L P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_F8G4Y0 V L E A Y R R K H V A E E R R A S L G V A P P L A P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_W0S116 M L E A Y R R Q H V A E E R R A S L G V A P P P L P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_UPI00047D0E34 M L A A Y R R Q H V A E E R R A S L G V A P P A L P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_W8X9M5 M L D S Y R T E A A A E R A I G V A P P L P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_L1J180 F K E E Y R K H V A E E R R A A Q G V A P P K P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_Q1YQ85 M L E A Y R R A H V A E E R R A L Q N I P A K P P L D A P E W T A G L V E L L K N P P A G G
UniRef90_U5NEU3 M L E A Y R T H V A E E R R A A L G V A P P L P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_A1VRP8 F L Q T Y R S H V A E E R R A V L G V A P P L P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_UPI0004080E0E M L Q A Y R R Q H V A E E R R A A L G V A P P L P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_F4HDY3 F L E E D Y Q K H V E E R R A A A G V A P P V P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_S5F406 F L E N Y Q Q Q V D E R R A A L G V V P P Q P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_B0U1V6 M L E A Y R R H H V A E E R R A A L G V A P P L P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_B9L6J0 F L E E Y K K H V T E E R R A K L G V A P P L P P L D A N Q Q Q M A A L V E L L K N P P A G G
UniRef90_Q014W3 F L Q T Y Q K H V D E E R R A K Q G V V P P K P P L D A E E Q T A E L I E L L K K N P P A G G
UniRef90_R9XTJ7 F L T E Y Q T H V F E E R R A A Q G V A P P L P P L D A N S A E Q T A A L V E L L K E P A D A
UniRef90_M1FE74 M L E A Y R R E H V A E E R R A A L G V A P P K P P L D A N S A E Q T A A L V E L L K A P P E N T G
UniRef90_H3NT31 M L E A Y R E H V A E E R R A A M N I P P K P P L D A N S A E Q T A A L V E L L K A P P T G
UniRef90_UPI00034B3E45 V L A E Y R K H T E A R A Q L N I P P L P P L D A N S A E Q T A A L V E L L Q Q P P A G G
UniRef90_E1VK87 M L E A Y R R K H V D E E R R A A A G V A P P Q P P L D A D D K Q T A E L V E L L K S P P A G G
UniRef90_Q8DL06 V L S Q Y R Q Q T Q E R R A A L G V A P P L P P L D A T A A E T S A V V D L L K Q Q P P A G G
UniRef90_A5WDW0 M L D A Y R R K H V E E E R A Q L G T V P L P P L D A S E H Q T A D L V E L L K N P P A G G
UniRef90_C0QR83 F L Q E E Y R R K H V A E E R R A K L G V A P P L P P L D A N A K Q V T E E L I K L L K Q Q V P I V
UniRef90_C5CSI9 M L Q A Y D H V A E E R R A A L G V A P P L P P L D A N S A K Q T A E A L I E L L K S A N A K
UniRef90_K9VNS7 M L E S Y R R T A A E E R A R E G V A P P L P P L D A A Q Q T S E L C C E L L K N P P A G G
UniRef90_B1WY44 M L E N Y R H H V A E E R A K L G V A P P L P P L D A E E Q T S A L C C E L L K N P P A G G
UniRef90_Q4UT3 M L Q E Y R R N H V A E E R A K E G L V P P K A L D A E E Q T A A L V E L L V K N P P V G
UniRef90_G2DF96 M L N S Y R T H S A E E R A K E G V A P P L P P L D A S S E Q T A A L V E L L K R P P S G
UniRef90_B4WQ39 M L E S Y R R Q H V E E R A K E L N V A P P L P P L D A D A D Q T S A L C C D L L K A P P A G G
UniRef90_Q65PY4 F L Q E Y R Q Q V D E R R A K E G V V A K P P L D A N A D Q T A Q L I E L L K N P P Q D G
UniRef90_M4U9R8 M L K A Y R R K H V A E E R A N L G V A P P Q P P L D A N A E Q T A A L V E L L K N P P Q G G
UniRef90_K9PXV1 M L E A Y R R K H A A E E R A A L G V A P P L P P L D A E E Q T S A L C C C E L L K T S P T D
UniRef90_K9S752 M L E A Y R Q H A A E E R E A L G V A P P L P P L D A E E Q T A D L V E L L K N P P A G G
UniRef90_A6VKR8 F L A Q Y Q S H V D E R R A A L G V A P P K P P L D A E E Q T G Q L V E L L K N P V V G
UniRef90_K9UJU0 M L E A Y R R S H T A D R A A L G V A P P L P P L D A E E Q T S A L C C C E L L K H P P A G G
UniRef90_UPI000381DB6A M L D A Y R Q H V A A E E R S E A G L P P L P P L D A E E Q T A S L V E L L I K N P P A G G
UniRef90_L8N2U0 M L S A Y R D H A A E E R A Q Q G L P P L P P L D A N A T Q T S A L C C D L L Q A P P A G G

QUERY	50	60	70	80
UniRef90_Q0VQ99	E E E E	F F L L	D D L L	F I V N
UniRef90_UPI0003B3BFA9	E E E E	A T L L	V D D L	I T S T
UniRef90_I2JH1	E E E E	F L L L	V E L L	I L L L
UniRef90_S6BSU9	E E E E	D F L L	L E L L	I T D D
UniRef90_C7RB26	E E E E	G A F L	V D L L	L L E E
UniRef90_F7NVE9	E E E E	Q T L L	D D L L	L I T T
UniRef90_UPI000368FD11	E E E E	A F L L	V D L L	L L E E
UniRef90_UPI000379D0DD	E E E E	A F L L	V D L L	L L E E
UniRef90_J1Q0Z5	E E E E	S F L L	D D L L	L I T T
UniRef90_UPI000381127A	E E E E	A F L L	V D L L	L L E E
UniRef90_UPI00047E2747	E E E E	A F L L	V D L L	L L E E
UniRef90_UPI000441EE69	E E E E	E F L L	V D L L	L L E E
UniRef90_UPI0003450314	E E E E	D F L L	L E L L	I T D D
UniRef90_E1SN91	E E E E	D F L L	L E L L	I T D D
UniRef90_K0C3K3	E E E E	E F L L	V D L L	L L E E
UniRef90_F3LDF5	E E E E	A T L L	V E L L	I S T T
UniRef90_UPI000464C6A3	E E E E	A T L L	V E L L	I S T T
UniRef90_UPI0003B6D6F9	E E E E	A F L L	V D L L	L L E E
UniRef90_F9ZXF1	E E E E	A F L L	V D L L	L L E E
UniRef90_UPI00031F159D	E E E E	E F L L	V D L L	L L E E
UniRef90_W9VH13	E E E E	F L L L	V E L L	I T D D
UniRef90_A6FB19	E E E E	F L L L	V E L L	I T D D
UniRef90_C1D9N3	E E E E	A F L L	V D L L	L L E E
UniRef90_M1SJ48	E E E E	Q E L L	V E L L	L T T H
UniRef90_UPI00037F7267	E E E E	Q D F L	K E L L	D L T T
UniRef90_A0KPU4	E E E E	S F L L	N L L L	I T T H
UniRef90_UPI000262CE0D	E E E E	S F L L	N L L L	I T T H
UniRef90_F4GX83	E E E E	G E F L	L L E L	L L T T
UniRef90_W6MOWO	E E E E	G E F L	L L E L	L L T T
UniRef90_F2GA11	E E E E	Q F L L	D D L L	L L E E
UniRef90_UPI000363A7F4	E E E E	D F L L	L E L L	I T D D
UniRef90_S3EGZ8	E E E E	D F L L	L E L L	I T D D
UniRef90_B5JRV6	E E E E	D F L L	L E L L	I T D D
UniRef90_A3YGV8	E E E E	A F L L	V D L L	L L E E
UniRef90_R8AT32	E E E E	N F L L	V D L L	L L E E
UniRef90_UPI00040279AC	E E E E	A F L L	V D L L	L L E E
UniRef90_Q604Q3	E E E E	D F L L	L E L L	I T D D
UniRef90_F7RZD1	E E E E	D F L L	L E L L	I T D D
UniRef90_A6GNC8	E E E E	G S F L	M E L L	L T T H
UniRef90_D8NGD2	E E E E	A V L L	V E L L	I T T H
UniRef90_W6K8T4	E E E E	D Y I L	L L E L	L L K E
UniRef90_UPI0003487B07	E E E E	D Y I L	L L E L	L L K E
UniRef90_S6GQI4	E E E E	D F L L	V E L L	I T D D
UniRef90_UPI00035CEE43	E E E E	D F L L	V E L L	I T D D
UniRef90_C5BI06	E E E E	T L L L	H L L L	R D R I
UniRef90_K9TR35	E E E E	A F L L	V D L L	L L E E
UniRef90_UPI00035FE691	E E E E	A F L L	V D L L	L L E E
UniRef90_M4R5Y0	E E E E	G G F L	V E L L	L A H R
UniRef90_G4E3M1	E E E E	A F L L	V D L L	L L E E
UniRef90_E2PIA9	E E E E	A F L L	V D L L	L L E E
UniRef90_L2F5K9	E E E E	T L L L	H L L L	R D R I
UniRef90_A8FQC8	E E E E	E T L L	L H L L	R D R I
UniRef90_K9X9F8	E E E E	E T L L	L H L L	R D R I
UniRef90_V4Y448	H E E E	P F L L	N L L L	L E N R
UniRef90_Q1H0A3	E E E E	Q F L L	V D L L	L I T T
UniRef90_F8G4Y0	E E E E	Q F L L	V D L L	L I T T
UniRef90_W0S116	E E E E	A F L L	V D L L	L I T T
UniRef90_UPI00047D0E34	E E E E	A F L L	V D L L	L I T T
UniRef90_W8X9M5	E E E E	A F L L	V D L L	L I T T
UniRef90_L1J180	E E E E	F L L L	D L L L	I A N R
UniRef90_Q1YQ85	E E E E	S F L L	L D L L	I A N R
UniRef90_U5NEU3	E E E E	A F L L	V D L L	L L E E
UniRef90_A1VRP8	E E E E	A F L L	V D L L	L L E E
UniRef90_UPI0004080E0E	E E E E	A F L L	V D L L	L L E E
UniRef90_F4HDY3	N T E Y	L M D L	L F E N	R I P P
UniRef90_S5F406	Q A V F	L M D L	L F E N	R I P P
UniRef90_BOU1V6	E E E E	D F L L	L D L L	I T T H
UniRef90_B9L6J0	E E E E	F L L L	D L L L	I A N R
UniRef90_Q014W3	K E D F	L L D L	L L F E	N R I P
UniRef90_R9XTJ7	D K A L	L L D L	L L F E	N R I P
UniRef90_M1FE74	D E N V	L L D L	L L F E	N R I P
UniRef90_H3NT31	E E E D	Y L L L	D L L L	I S N R
UniRef90_UPI00034B3E45	E E E A	E Y L L	L L H L	L I T T
UniRef90_E1VK87	E E E E	Y L L L	H L L L	R D R I
UniRef90_Q8DL06	E E E E	Y L L L	H L L L	R D R I
UniRef90_A5WDW0	E E E E	F L L L	M D L L	L V N R
UniRef90_C0QRB3	E E E E	Y L L L	M D L L	L F E N
UniRef90_C5CSI9	D G A F	L L D L	L L T H	R V P A
UniRef90_K9VNS7	E E E T	L I E L	L L R D	R V P P
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UniRef90_G2DF96	D E A F	L L E L	L L S N	R V P P
UniRef90_B4WQ39	E E N F	L L M T	L L C K	N R I S
UniRef90_Q65PY4	K A E F	L L D L	L L F K	N R I P
UniRef90_M4U9R8	E E D F	L L I D	L L F K	N R I P
UniRef90_K9P XV1	E E L L	L L S L	L L R D	R I P P
UniRef90_K9S752	E A E T	L L L L	H L L L	R D R I P P
UniRef90_A6V KR8	R E S E	L L L L	S L L F	E N R I P A
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L I D R K Q A V E L L L G T M L G G G Y N V I H T L V E M L D D D D K E L A E P L L A A E Q L K S
V S A A E A V E L L L G T M Q G G G Y N V I Q P P M V D L L D D H G E L V G K T L A A A K G L K
L S R V R A T E L L L G T M V G G G Y N V I Q P P L I E L L L D D D D A S E L A P V A A E G L K
I D R K H A T E L L L G T M L G G G Y N V I S P P L I D L L D D D N D A E L A P V A A E G L K
I S R V R A T E L L L G T M V G G G Y N V I Q P P L I E L L L D D D D A S E L A P V A A E G L K
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V D S K K A V Q L L L G M M L G G G Y N V I E T L V E L L L D S T E L L G E L L A A E Q L K
L S K S K A A K L L L G T M Q G G G Y N V I Q E T L V E L L L D D D H T L A S P I A A E E L K
I D K P H A V K L L L G G M H G G G Y N V I E T L V E L L L D D D G D L A S L A A E E L K
I S A E L A T K L L L G T M L G G G Y N V I Q P P L I A L L L S N D D K L A S P I A A V E A L S
V S A E Y A T E L L L G T M Q G G G Y N V I Y P P L I D L L D D D D A R Q L A P I A A A K A L S
L T P T K A L L E L L L G T M Q G G G Y N V I A P P L I E L L D D H S E L L A P V A A A H G L S
V D K K K A V K L L L G T N M H G G G Y N V I V T L V E L L L D D D A E A E L L A G V D L K
L I D R K K A T F L L L G T M L G G G Y N V I K P P L I D A L L D D D A E V G A D I L A A E L K
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L T P E K A T E L L L G T M L G G G Y N V I A E T L V Q L L L D D D E N S E L L G Q L A A D A L K
V S K S D A V N L L L G T M H G G G Y N V I Q S L I V G L L Q D D D E L L A Q A A A A D A L K
V S N A Q L A T K L L L G T M L G G G Y N V I S A L V E L L Q D D D N T L A A Q A A A A A L K
I S P Q R A V E L L L G T M Q G G G Y N V I S E P L I Q A L L D D D D P A L A P I A V H L S
I D K A H A V K L L L G T M Q G G G Y N V I V T L V E L L L D D D A L G A K A A D E L E
L S P E Y A T E L L L G T M L G G G Y N V I H A L V E L L D D D A K L A P I A A K A L K
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L S S A R A V E L L L G T M L G G G Y N V I Q P P L I A Q L L D V A E Q A P L A V T A L S
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L I K P E H A A Q L L L G T M L G G G Y N V I Q A P L I E L L D D K P A V A G V A A T A L K
L T P E H A V K L L L G T M L G G G Y N V I Q A L V A L L D S P A V A E Q V V K A L S
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I N K A Q A T E I L L G T M Q G G G Y N V I E T L V A L L D D D A Q L A G Q A A E E L K
I D R S A A V T L L L G T N M H G G G Y N V I A T L V A L L D D D A E A V A P E A V R S L G
I D R V Q A T R W L L L G T M L G G G Y N V I G P P L I D L L D D D D A E A V A P E A V R S L G
V S R E K A T E L L L G T M L G G G Y N V I K P P L I D L L D D D A T V G G T A A S E G L K
I S K Q R A L L L L L L G T M Q G G G Y N V I E T L V K A L L D D D N P E L A P I L A V K A L S
L S P A H A V K L L L G T M Q G G G Y N V I E T L V S A L L D D D N P E L A P I L A V E A L S
L T S Q R A T E L L L A T M L G G G Y N V I Q P P L I D L L D H A A A L G Q V A A E G L K
I S K K R A V E L L L L G T M L G G G Y N V I K P P L I D A L L D D D E E V A Q E A A N Q L K
I S P S K A V E I L L L G T M Q G G G Y N V I E P P L T A L E D N P E L A P I A V K A L S
I S P Q Q A V S L L L L G T M Q G G G Y N V I E P P L V E A L L D D D P S E L A P I A V K A L S
I N N G K A V L L L L G T M M G G G Y N V I T T L V D L L D D D S P A L A E Q A A G L Q L K
L D K V T A V D L L L L G G T M H G G G Y N V I E T L V K L L L D D D S E L G E Q A A T E L K
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L I T A K H A T E L L L G T M L G G G Y N V I P P P L I D L L L D D D A A L A P I L A A K A L S
L T P V T A V E L L L G T M L G G G Y N V H S L L D L L G N P E L A T T A A K A L S
I T K Q K A V D I L L L G T M Q G G G Y N V L P L V E A L L D D D A E V A E N A A E A L K
I T P V H A V Q L L L L G T M L G G G Y N V E S P P M I K A L L S D D A E E V A K E A A E L K
I S R A R A T E L L L G T M L G G G Y N V I S P P M I D L L L D D D A E E V G A V A A E G L K
I A P K W A V Y L L L L G T M M G G G Y N V I Q S S L I D L L D D E T A I P A T A A R A L S
I S P Q G A V D L L L L G T M M G G G Y N V I Q S S L V N L L D D D S N I A T A A A L S
L S A E K A T E L L L G T M L G G G Y N V I S P P M I D L L S D N E A L S S A S H G L S
L D R K A T Q L L L L G T M L G G G Y N V I A P L I N A L N D A Q L A P T A A T A L S
L S P K K A V E L L L L G T M L G G G Y N V I A S L I E L L K D N E E L A Q L A A D A L S
I S A K S A V E I L L G K M Q G G G Y N V I E P L S A L L D D D N P E L A P A A A K E L S
V S A E H A L K L L L L G T M Q G G G Y N V I E A L I A Q L L D D N E K L A P I S V H A L S
I T P K Y A V E L L L L G T M G G G G Y N V I Q S A L V D L L D D A D L A K A A V D S L S
V S P Q E A V E L L L L G T M M G G G Y N V I Q A L V D L L Q E A A L A Q G A A D S L K
I S P E H A V E L L L L G T M S G G G Y N V I Q S P L I D L L D D N A R F A P L A V K A L S
I N K I E S I E L L L L G T M L G G G Y N V I R S L I D L L D D R T E N V A E T A A V K A L S
I S A E Q A T F L L L G T M L G G G Y N V I P P L I S L L L D D R K A N V A T A A V K A L S
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UniRef90_A4BSJ2	ML	E A Y R Q	H T E E K E R R A A Q Q G I	P A K P P L T T A Q Q T T A S	L V E L L L L L K Q D P P P
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UniRef90_UPI0004704369	ML	E A Y R Q	H V E E R A A A Q E G I	P P P K A P L N A A Q T T S	Q C C C E E L L L L K K N P P
UniRef90_C1E114	F	L A E Y D A	H V A E E R A A Q Q N I	A P K P L D D A K Q V A	A L C C C C Q L E N S P P P
UniRef90_U9VVJ2	ML	K Q Y R R	H V A E E R A A Q L G I	P P P L P P D N A E Q T T A D	L C C C C C E E L L L L K K N P P
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UniRef90_A7BSA2	ML	N T Y K Q	H T E E R A A Q Q E L	P P P L P P N A E Q Q V	V S L V E L L L L L K N N P P
UniRef90_X2HBW5	ML	L K E Y Q	S Q V E E R A K A Q L G I	P P P L P P T A K Q T T E	E L V E L L L L K N N P P
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UniRef90_C1DWJ2	ML	A A Y R Q	A A T R A A Q L G I	P P L P L D A Q Q E T A	A A L V E L L L L L I S P P
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UniRef90_UPI00034B962E	ML	D K Y M E	H V K E R E A L G I	P P L P L S P E L T T E	E E V C C C K L L L L E N S P P
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UniRef90_I1YEE7	ML	E T Y R T	H E A E R A A Q L G I	P A L P L S A S Q T T K	E L V E L L L L K N N P P
UniRef90_E8UCL6	ML	K A Y A A	H V Q E R S A S Q Q L	P P L P L S A E Q V A	Q S L V E L L L L L K K N P P
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UniRef90_B7RU73	ML	E A Y N A	L V A E R A A L G I	P A L P L N A M Q V A	G L V E L L L L K N N P P
UniRef90_Q3J9D3	ML	E E Y R K	H A A Q R A N L G I	P P L P L N A A Q T T S	E L L C C C E E M L K N N P P
UniRef90_A4SXE4	VL	S A Y R E	E A A Q R A K L G I	P A L P L V L A E A Q Q A	G A C C C C E E L L L L K N N P P
UniRef90_B7KCR2	ML	E A Y R Q	H A A E R A A Q Q G I	P A K P L L A E Q V A	E L L I E L L I K A P P
UniRef90_K9SMK4	F	L A E Y R D	H A A V R E K E G I	A P K P L D A K Q V A	S A L V L Q L L E N S P P
UniRef90_A4A855	F	I H D Y E	V Q E E R A A L K I	A P K P L G A T P E Q V	A K S L T Q L L L L E S P P
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UniRef90_E4THW7	ML	E A Y R S	H Q H E R A A Q Q G I	P P K A L N A A V Q T	A A L I E L L I K R R P P
UniRef90_D0KZM7	ML	T S Y R Q	H V Q E R A A Q L G I	P P L P L T A E Q T T A	D L C C C C E E L L L L K K S P P
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UniRef90_A0A011NDU0	F	M T S Y E A	H K A E R A A Q Q I	V P L P L D A T Q T	A S L I E E M K T T S P
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UniRef90_UPI000365EBBB	F	I E D Y K A	H L A E R E T L G V	P P L P L D N A E Q T V	A L V E M I K K D K P
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UniRef90_Q12Z08	F	L T T Y R A	H S Q Q R A L Q G L	P P L P L D A M Q V T	A C I E L L I K N P
UniRef90_A8PQG5	MI	E E Y R K	H E Q E R A A Q N I	P P L P L T A D Q T	S D L V E L L L K E D H
UniRef90_J4KSM0	ML	S A Y R Q	H L A E R D A Q G I	P P L P L T A E Q T Q	A L T L V L L L Q N P
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UniRef90_L8LHP5	ML	K D Y Q K	H V D E R A A Q Q G I	P P L P L D A K Q V S	E I V A S L K T A
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UniRef90_A4RSV0	LI	J A D Y K A	H T Q E R L N E G I	P P L A L T A D Q T	A S Q L V L L L K A N T
UniRef90_D5V573	F	F E D Y K K	H V D E R A A Q L G I	P P L A L N K E Q T	L E V C N L L L Q N I
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UniRef90_U5DFW6	ML	E A Y R Q	H A A E R R A A Q Q G I	P P L A L T A E A T A	E L V E L L L L K A E P
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50	60	70	80
E K E F L M T L L R Y R R I V P P G V D D A A K V Y K K A A F L T A I V A K D E D E A S T S P N L L E E A F L L L D L L I T V N R R I V P P S P G G V D D A A K V Y K K A A F L T A I V A K D E D E A S T S P N L L E E E A G L L K D E L L L R D R R I V P P S P G G V D D A A K V Y K K A A F L T A I V A K D E D E A S T S P N L L E E E D T L L L L H L L L C D D R R I V P P S P G G V D D A A K V Y K K A A F L T A I V A K D E D E A S T S P N L L E E E E F V L L L H L L L R D R R I V P P S P G G V D D A A K V Y K K A A F L T A I V A K D E D E A S T S P N L L E E E A F L L K D L L L R D R R I V P P S P G G V D D A A K V Y K K A A F L T A I V A K D E D E A S T S P N L L E E E E Y L L L L D L L L K N H V N P P G V D D D A A Y V K K A A F L L N D I V Q K G E A Q S Q K A E E E A F L L L L H L L L T T R R I V P P S P G V D D D E A A Y V K K A A G F L L A A I V T K G E A V Q H S P P L L D E A V L M D L L F E N R R I V P P S P G V D D D A A Y V K K A S F L L A A I V E K G E A T A R S P P P L L E T E E F L L M Y H L L C D D R R I V P P S P G V D D D A A Y V K K A S F L L T A I A G K G E A V N C P P L L L E E E E T L L L L E L L L R D R R I V P P S P G V D D S A A Y V K K A S F L L T A I V A K G G E I L T S S E L L E A A A F L L L D L L L A R R I V P P S P G V D D D A A K V Y K K A S F L L T A A V H K G G E L L T L A V E L S E Q E Q M L L L D L L L T H R R I V P P S P G V D D D A A K V Y K K A S F L L T A A D V T K G K T T T S S P L L E E K F L L V E L L L L S H R R I V P P S P G V D D D A A S K V Y K K A S F L L T G A V A K E K T T T S S P L L D S E T A L L L E L L L V H H C V P P S P G V D D D A A Y V K K A E F L L T A D I A G K G E A V K C A P L L L E A D F L L R M L L L R D R R I V P P S P G V D D Q A A Y V K K A G F L L T A I A K G G E A L S S P P L L L D A D Y L L L H L L L I R D R R I V P P S P G V D D E A A Y V K K A S F L L T G I A T A T A K F F D H P P P I Q E A F L L L G L L L R D R R I V P P S P G V D D A A E V K K A A F L L A E L V K G T K K T S P P L I L K E E L L M M L L L R D R I V P P S P G V D D S A A Y V K K A G F L L T S A I A H H K N G L I T Q S S P P L E A S E L L L E L L L F E T R I V P P A G V D D D T A K V Y K K A E F L L T A I A A N G S E I L I T T S P P L E K E T L L M H L L L R D R R I V P P S P G V D D D A A Y I K K A A G F L L T A I A A N K G R A T S S P P L E E E F L L V D L L L E N R T P A G V D D D A A K I K A A F L L A D I A K N N R A T S S P P L E E E F L L M D L L L V N R R I V P S P G V D D D G A Y V K K A A F L L N D I V Q K S A H S S A E E D A F L L L D L L L A N R I V P P S P G V D D D A A R V K K A S F L L T A A I A E K S E E V L T H S S P P L E E D F T L L L H L L L R E R I V P P S P G V D D E A A Y V K K A G F L L T A I V A K E G E A L S S S P P L K K D F L L L H L L L R D R R I V A P G V D D P A S K V Y K K A E W L Y T K V A K G G E K S T S P V L T E E K V L M T L L L R L R I V P P S P G V D D E A A Y V K K A G F L L T G I V A K G G E T T A C E F L E E V V L L L S L L L H R R I V P P S P G V D D K A A Y V K K A S F L L A D V A K G G E T T T C E F L E E D Y L L N L L F K N R R I V P A G V D D D A A K V Y K K A E F L L S R V A F G G E E K L D L L L E E E R N L L V D L L L E N R R I V P S P G V D D Q A A Y V K K A A F L L S A D I A H A K A S S P P L K E E F L L L A L L L R D R R V S P A G V D D P A A E V K K A D F L L A K A I A K G G E A V E C C P P L L E G D Y L L L D L L L I T T R V S P S P G V D D E A A Y V K K A G F L L S A I A K G G E V E C C P P L L E E E E L L L K E L L L Q R R I V P P A G V D D Q A A Y V K K A G F L L A D A I A K G G T E K S P P L L L K E E L L M M L L L R D R R I V P P S P G V D D E A A Y V K K A G F L L T G V A K G G E I D S C P P L L E A D F L L M S H L L L R D R R I V P P S P G V D D E A A Y V K K A G F L L T A I A K G G E S E C A P L L D A K E F L L V D L L L F V N R R I V P P S P G V D D E A A Y V K K A S W L A S V V A G D T Y R S C A P V L H A E F L L L D L L L E E N R I V P P S P G V D D E A A Y V K K A T W L A S Q I L K G G E V V S S P P L L K E E F L L L S L L L R D R R V S P S P G V D D P A A E V K K A N F L A K V V R G G E V K S S P P L L E E D A F L L M H L L L T D R C V P P S P G V D D E A A Y V K K A A F L L S A D V A N G K A H S S P P L L E E D A L M A L L L R D R R I V P P S P G V D D Q A A Y V K K A S F L L S A I A A N G H E T T S S P L L K E E F L L M L N L L K E R R I V S P S P G V D D P A A E V K K A A F L L A E I V K G S K K T S P L L E E E F L L M D L L L L N R I V P P A G V D D E A A Y V K K A A F L L R E S L V K G G H A K T A A U N I R E F 9 0 _ A 0 A 0 1 1 N D U 0 Q D P K L L A L L E H R R I V P P S P G V D D E A A Y V K K A D Y L L A A L A K G G T E T N D L L E E D T L L L E L L L K N R R I V P P S P G V D D D A A S K V K K A A F L L G Q D I A K G G V A C C S V U N I R E F 9 0 _ U P I 0 0 0 4 6 A A 8 6 D D M A Q N V D L L L T T N R R I V P P S P G V D D D A A Y V K K A A F L L A D V A S E K V S V D A U N I R E F 9 0 _ U P I 0 0 0 3 6 5 E B B B E E A T L L L L H L L L R D R R V P P S P G V D D Q A A Y V K K A A F L L N D I A S E K V S L P A L E E E A F L L L T L L L S D R I V S P S P G V D D D A A K I K A A G F L L T A I A K G S E L H S P L U N I R E F 9 0 _ U P I 0 0 0 4 6 7 0 0 B 7 E A H D A L L A E M I A E R V P A G V D D D A A R V K K A A F L L E S V A R G K T E T S P M U N I R E F 9 0 _ H 8 F P N 3 E E A F L L V D L L L E N R R I V P P S P G V D D P A A Y V K K A A F L L A A V T Q G G E T S S P L U N I R E F 9 0 _ U P I 0 0 0 3 B 7 3 7 1 8 E E E E T L L L H L L L R D R R I V P P S P G V D D P A A Y V K K A A F L L T A I A K G G E I T S S P P L L U N I R E F 9 0 _ G 6 F U Q 8 Q E E F L L L L H L L L F T E R I S P P S P G V G P P A A K V K A D F L L G N I L A T K G D A S S P L U N I R E F 9 0 _ Q 1 2 Z 0 8 E A E F L L I Q L L L A E R V G P S P G V D D P A A Y V K K A G F L L A A L A K G G E I N S P F Y U N I R E F 9 0 _ A 8 P Q G 5 E A E F L L M E L L L T Q R I V P P A G V D D Q A A Y V K K A A F L L S A I A T Q G K N S S P P Y U N I R E F 9 0 _ J 4 K S M 0 D S S E L L Y L L L R E R I P P S P G V D D E A A Y V K K A T W L S A I A K G G N S K P L U N I R E F 9 0 _ A 2 C E 1 8 D R E A L L I D L L L V H R R I V P P S P G V D D D A A Y V K K A G F L L A I A K G Q E T Q Q C D L U N I R E F 9 0 _ I 1 X K H 0 E S E F L L L D L L L T N R R I V P P S P G V D D D A A Y V K K A A F L L N D I A A N E S V K V S D A U N I R E F 9 0 _ T 0 J C 7 3 E S E F L L L D L L L S T R V P P S P G V D D E A A Y V K K A G F L L Y Q Q I K E E N P A S I U N I R E F 9 0 _ A 0 Z 9 1 8 D K N A L L V Q L L L A H R R I V P P S P G V D D P A A K I K A D F L L Y Q Q I K S E E N P A S I U N I R E F 9 0 _ G 8 W K C 5 D E A F L L L E L L L R D R R I V P P S P G V D D E A A Y V K K A S F L L T A A L V S G G E A T S P I U N I R E F 9 0 _ F 0 Y 7 B 9 A G A E L L M S L L L R D R I V P P S P G V D D E A A Y V K K A G F L L T A I V K G G E I T C C P L U N I R E F 9 0 _ L 8 L H P 5 D N A Q L L L D L L L I H R R I V P P S P G V D D E A A Y V K K A A F L L A D V A K G Q A N S C Q P L U N I R E F 9 0 _ M 7 P G 2 0 E E D R L L Y D M L V N C I S P P S P G V D D E A A Y V K K A G F L L A S V S Q G K A V S P L U N I R E F 9 0 _ A 4 R S V 0 D S D Y A L L D M F K N K I V N P P S P G V D D D A A Y V K K A A F L L N D L V S Q G K A A C C P L U N I R E F 9 0 _ D 5 V 5 7 3 K G E E L L L D L L I T N R R I V P P S P G V D D P A A Q V K K A D F L L I K V I K K E A T C E L U N I R E F 9 0 _ T 0 R T 3 8 E R E C L L N L L L T N R R I V S P A G V D D A A A K V K K A E F L L D K I I K K E T A S Q Y G U N I R E F 9 0 _ J 1 Q X K 0 E S D F L L D I L L K E R R V P A G V D D Q A A Y V K K A A F L L A D I I T K E K A S P Y U N I R E F 9 0 _ U P I 0 0 0 3 6 7 2 8 6 1 N V A Q L L V G L L K N R R I V S P S P G V D D D A A Y V K K A D F L L N A I V T G G E V E S S P E L U N I R E F 9 0 _ J 1 F 9 N 1 E E Q T L L L Y L L S E R I V P P S P G V D D E A A Y V K K A T W L S A V A Q Q A S S P L U N I R E F 9 0 _ Q 0 I 6 2 5 S E Q E L L L D L L L E N R I V P P S P G V D D E A A R V K K A D F L L N S V A C G K G V Q S P L U N I R E F 9 0 _ U P I 0 0 0 3 5 F E 0 C 2 E K D Y L L L E L L F R E H I S P S P G V D D D A A F E K A A F L L D A V L K G G E A P C T V U N I R E F 9 0 _ A 4 S D R 1 E A E F L L L E L L R D R R V P P A G V D D D A A Y V K K A G F L L T G V A K G G E I V C P L U N I R E F 9 0 _ U 5 D F W 6 E K E Y L L L D L L L R N K V P A G V D D D A A Y V K K A A F L L N A I V K G Q E T V S S A U N I R E F 9 0 _ A 6 Q 9 Z 4 E Q D Y L L L Y L L L K E R R V A P S P G V D D P A S K V K K A E W L N K V A T G G E V K S S P A U N I R E F 9 0 _ F 8 E 4 0 8 R E T L L A D L L L K N R R I V S P S P G V D D P A A Q V K K A D F L L G A R I L R G G V V S S P L U N I R E F 9 0 _ Q 3 A 2 K 3 E Q G L L V D L L S Q R V P P S P G V D D A A A Y V K K A S F L L A A V L A K G E V V H S S F U N I R E F 9 0 _ U P I 0 0 0 2 9 A 0 1 6 8 E E E A L M A M L L R D R I V P P S P G V D D E A A Y V K K A G F L L T A I A K A E L T S P L U N I R E F 9 0 _ F 4 X W 5 6 D P T W L D L L T Y H I S P P S P G V D D D A A Q V K K A D F L L G K I V R G E L L A A U N I R E F 9 0 _ D 2 C 3 2 5 K A A E F V E L L E N R I V P P S P G V D D E A A E V K K A K F L L A D L A N G K L T S A V U N I R E F 9 0 _ U P I 0 0 0 2 5 5 6 4 9 2 E E E L L L N L L L R D R I V P P S P G V D D Q A A Y V K K A G F L L T A I A K E E L T S P L U N I R E F 9 0 _ K 9 Z P F 7			

	130	140	150	160
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UniRef90_E31D2	K T L L V F D A F H D V V L K E R A S E R T G	N A N A K A K A Q V I L D A W A D A E W F T A R N K		P P P P
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UniRef90_A4BJS2	H T L L L V Y D A F H D V L K E E L M D A Q G G N E	S A A K K Q V V V M Q S W A N A E W F T L N R		P P P P
UniRef90_E6X2B3	H T L L L V Y D A F H D V L E E L S R Q A N G G N E	S A A K K Q V V V M Q S W A N A E W F T L N R		P P P P
UniRef90_Q2JUK2	H T L L L V Y D A F H D V L E E L S R Q A N G G N E	S A A K K Q V V V M Q S W A N A E W F T L N R		P P P P
UniRef90_UPI0004704369	R T L L L V F D D A F H D V V L E E R A K A K A S G	N H A T R V V I M R S W A D A E W F T H R P		P P P P
UniRef90_C1E114	G T L L L V F D D A F H D V L E A K A K A S G	N D Y A Q Q V V V E A W A T A E W F T R R P		P P P P
UniRef90_U9VVJ2	K T I L L V F D A F N D V L L A M A K A S G	S N T Y A Q Q V V V E A W A T A E W F T N K P		P P P P
UniRef90_K9YZW4	R T I L L V F D A F N D V L F E E L S Q T N S	Y A K K Q V I E A W A E G T W F L N K		P P P P
UniRef90_K9W507	K M V L L V Y D A F H D V L E E L S A K A K T N	S Y A Q Q V I E A W E T A E W F T S R P		P P P P
UniRef90_A1WR04	K T L L L M F D D A F N D V V A E K A R A T G H	A K A L E J M H G W A D A Q W F T C		P P P P
UniRef90_A7BSA2	Q T L L L M F D A F H D V V A E K A K A T G D	Q L A Q R I L K A W A D A G E W F T N K		P P P P
UniRef90_X2HBW5	H T L L L M F D A F H D V V E E K M R A T G N	Q Y A K R E V I L E S W A N A E W F T A R		P P P P
UniRef90_F5T065	K T L L L M V Y D A F H D V V E E K A E T G N	Q Y A K R Q V L Q S W A D A Q W F T S R		P P P P
UniRef90_V3V2W8	Q T L L L M F D A F H D V V A E K A K A G N	N V F A Q Q V V L Q S W A D A Q W F T C		P P P P
UniRef90_B8HNU7	K T L L L V Y D A F H D V V Q E E L A E Q G G N	N A Y A K Q V V M N S W A E A E W F T S R		P P P P
UniRef90_K9RXP8	K T L L L V Y D A F H D V L E E L A A A S G	N H F A Q S V L L Q S W A D A T A E W F T S R		P P P P
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UniRef90_E8KGR9	H T L L L I F D S F K D I T A K A K Q G	N P H A Q Q V L Q S W A D A E W F T S R		P P P P
UniRef90_B4VKT0	K T L L L V Y D A F N D V L A L R S E V	N N A K A K Q V I D A W A N G A W F T R R		P P P P
UniRef90_S6ABE5	R T I L L I F D A F H Q V V L A D R M K A T G	N N A H A K A L I Q S W A D G E W F T A K		P P P P
UniRef90_C1DWJ2	N T L L L V Y D A F N D I V E E L S K T N K	N K A K E V L Q S W A N A E W F T L N K		P P P P
UniRef90_G9ZE04	K T L L L V F D A F H D V L Q E E K A Q G G	N A F A R A Q V L Q S W A D A E W F T T R		P P P P
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UniRef90_Q118H1	K T L L L V Y D A F N D V V I K L G E T N	P Y A K K V L D S W A A E W F T T R		P P P P
UniRef90_I1YEE7	K T V M V Y D A Y H D V V E K A E S N	N Q H A K N V L A S W A E A E W F T S R		P P P P
UniRef90_E8UCL6	K T L L L V F D S F S K I D E E L R K S G	N K Y A E E V I N S W A E A E W F T S R		P P P P
UniRef90_C6WU57	Q T J L L M F D A F H D V L D E K M K A S N	V H A K K L I E S W A N A E W F T N A		P P P P
UniRef90_E6W598	G L V L L F D K L E S I N K L A A S G	N N A A K S V I M E S W A N A E W F T R K		P P P P
UniRef90_B7RU73	H T L L L M F D A F H D V L E E L A E K G	N N A K A A M Q S W A D G E W F T S		P P P P
UniRef90_Q3J9D3	H T L L L V Y D H Y H D L L E E K A K R	N E N A K A Q V V D S W A E A E W F T S R		P P P P
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UniRef90_A4A855	H T L L L V F D A F H D V L E E L A K A N A	G S N A H A Q A Q V M E S W A E A E W F T K R		P P P P
UniRef90_C1MKF1	R T L L L M F D A F H D V V E A K A K A G N	S A P A Q E V M E S W A N A E W F T S R		P P P P
UniRef90_K8F4J1	H T L L L M F D D S F H D V L E E K A R N A	G P A A Q V L K S W A D A E W F M S		P P P P
UniRef90_Q1JW62	G M V L L I Y D A F D D V D A L R K A G	N N A A E K V V V K S W A A E W F T T K		P P P P
UniRef90_E4THW7	N V I L L V Y G A F D E V V A E L S K T N	N Q Y A K E V I E S W A N G E W F T S K		P P P P
UniRef90_D0KZM7	G T V L I Y D A F R D V L E D K M R A T G	N E R A K A V I E S W A A E W F T L N K		P P P P
UniRef90_B0CA66	H T V L L V Y D A Y H D V I E E L A Q T N	S Y A K S V V I D S W V A A E W F T S K		P P P P
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UniRef90_A6Q381	K T L L L V Y N A F N D V V E K A K E T N	K Y A K E V L E S W A N A E W F F S R		P P P P
UniRef90_A0A011NDU0	K T L L L V F D S F N D I V A M L A K E G	N I F A K Q V L L S W A E A E W F T S R		P P P P
UniRef90_R1DPH4	H T I L L V F D A F H D V K A K M D A G	N E Y A K K V I E S W A A A E W F T S K		P P P P
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C 7 P D 1 8 D N K E L L E L L Q E R V L P P G V D D D A A S A V K A E F L L N D I V I K G K I I C A
E 8 L L C 9 H R E D S L K F F I Y N T L P G T T S A A A G V K A E F L L K E I I V L G E A T V A E
M 5 U 7 P 4 H H P E L I H L L T H S V P P G V D D P A A K V K A E F L L F K D I A L G E Y R V I A D G E E
A 0 A 0 2 3 V 4 5 0 H H R A D A I H H F I Y N T L P G T T S A A A K V K A Q F L L K E I I L G G E A K V I E E
K 1 M X N 7 H R K E S L S F F I Y N T L P G T T S A A A V V K A K F L L K E I I L G G E A K V I E E
A 6 V X 4 0 D S K T L A D L L L E N R V I N P P G V D D D A A K I K A E F L L N E I I I N H D L T V A D E E
A 7 1 3 7 3 F R Q D S L K F F I Y N T L P G T T P A A A G A K A K F L L K E I I L G G E A T V P D E
A 3 J 0 H 2 D R A E S L R L F I Y N T L P G T T P A A A G V K A K F L L K E I I L G G E A T V P D E
U 2 I Z K 4 E L V D L L A A N R V S P P G V D D D A A K V K A E F L L N E I I I N H D L T V A D E E
A 0 R P N 0 N A E L V E M L A E R V N P P G V D D D G A H V K A A F L L H Q V V Q N G Q V K A C F L
E 4 T X 0 7 S E L L I E L L L K E R I P A G V D D Q A A Y V K A G F L L A D I T T G E A V S P Y
K 6 G G Q 9 H R E D S I N F F I Y N V L P G T T S A A A V V K A K F L L K E I I L G G E A I V K S E E
U P I 0 0 0 2 8 7 C D F 3 D R E E S L K F F I Y N V V P G T T P A A A G V K A N F L L K E I I L G G E A V V S E E
U P I 0 0 0 4 7 A B 8 6 F H R K A S L D F F I F N T L P G T T P A A A G E K A G F L L K E I I L G G Q S V V A E S
U P I 0 0 0 3 6 5 8 3 D 4 D E A P F Y L D L L L T H R I P P G V D D E A A Y I K A N F L L N S V A K G K Q A C P S L
A 1 A X P 1 E E G T L D L L L R R I P P P G V D D E A A Y V K A T F W L S A V A T G A V T S P L
U P I 0 0 0 4 6 E E 3 4 A H R Q E S L K F F I Y N T L P G T T S A A A G V K A K F L L K E I I L G T S V I E E
A 0 N Z 7 4 D R E D S L K F F I Y N T L P G T T P A A A K V K A D F L L K E I I L G E L V A E
G 8 X 7 P 8 E S E L L L L K E R V P A G V D D Q A A A Y V K A A F L L S D I T T G K A D S P H
U P I 0 0 0 4 7 8 5 5 C 2 Y I G E M L D L L L E N R V S P P G V D D D A A Y V K A A F L L N E I V A G E E H H V A A
E 0 U S J 2 H R A D S L N S F F I Y N V L P G T T S A A A G A K A R F L L K E I I L G K K T H K V I E A
A 0 A 0 5 9 D X J 2 E C A F A K D L L L I H R V S P P G V D D E G A Q V K A Q F L L K Q L A L K K L E C A H
E 7 A 8 N 8 H R E D S L N S F F I Y N S L P G T T S A A A V V K A K F L L K E I I L G G E T V A E
F 6 C R S 3 N K A F C K D L L L A N R I N P P G V D D S A K L K A E F L L G N I A N G T E K C S V
C 3 X F D 7 H R K D S L N S F F I Y N I P P G V D D S A A E E K A E F L L G K I A L K Q K N I S N
T 0 R I I 2 E K E F A K E L L I H R V N P P G V D D D A A K I K A E F L L G K I A L K Q K N I S N
D 3 U H 4 4 D K E F A K D L L V N R V S P P G V D D D G A R V K A E F L L G E I V K G E K R C A E
T 1 D V Y 9 H R A D S L Q F F I Y N T L P G T T S A A A G A K A Q F L L K E I I L G E S V V A E
A 8 L P U 3 D S S Y L L D L L L L N R V I P P G V D D E A A Y V K A S W L T A I V N S E K Y C K L
A 2 B T T 2 H R E Q S L K F F I Y N T L P G T T S A A A G V K A E F L L K E I V L G G E M S V I A E E
U 4 V 3 G 3 H R E D S L K F F I Y N T L P G T T S A A A I K S E F F L K E I I L G G E V S I P E
M 5 R K B 9 Y R D D S L N S F F I Y N T L P G T T S A A A G V K A A F L L K E I I V G G E A I V I P E E
A 1 B A T 6 H R K D S L N S F F I Y N V L P G T T S A A A I K S E F F L K E I I L G G E S V L E E
G 0 I V 0 9 S E N D L L H L L L K D R I N P P G V D D S S K I K A D F L L K E I A T G K A V S P I
R 5 E C K 3 F R E D S L N S F F I Y N V L P G T T S A A S V K A E F L L K E I I L G D F V L D E
A 6 E T A 5 E A L F A K D L L V H R V S P P G V D D E G A K V K A E F L L A K L S K K E L E C A Y L
I 0 E N W 9 D A D R L V E L L L S H R V S P P G V D D E A A Y V K A S Y L L S A V A L G E V G E T L
B 8 C 3 V 9 E E E F L L D L L L T N R V I P P G V D D E A A Y V K A G F L L A A I A K G E A T S P L
W 1 H Q 4 5 Y R K D S L H F F I Y N V V P G T T S A A A D V K A K F L L K E I I L G E L L T I E E
U P I 0 0 0 3 6 B 4 0 2 7 H R K D S L N S F F I Y N V L P G T T S A A A G V K A K F L L K D I L G G T A K I E
U P I 0 0 0 4 7 D F B 9 8 R E A L L L D L L L T H R V P P G V D D E A A K V K A A F L L G A I A R R E K H S P L
A 8 Z W K 5 Y R E D S L K Y F F I Y N T L P G T T S A A A G E K A A F L L K E I I V I G E A E V A E E
U P I 0 0 0 3 8 1 C 1 9 3 Y R T D S V K F F I Y N T L P G T T S A A A V V K A E F F L L K E I I L G R S L V E E
U P I 0 0 0 3 6 E C 1 D 2 D R K D S L Q F F I Y N T L P G T T S A A H V K A K F L L K E I I L G G E V F V K S E
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K 7 A 4 Q 2 Q Q D F A L D L L L S N R V S P P G V D D E G A K L K A E F L L G E I I A G K S C
V 8 C D Z 8 H R E G S L N S F F I Y N T L P G T T P A A A V V K A A F L L K E I V L G D S V V A E
U P I 0 0 0 0 E 1 0 5 B 5

		90	100	110	120																																					
UniRef90_A3YWD4	V	S	P	I	E	A	T	R	I	L	L	G	T	M	L	G	G	G	Y	N	V	K	P	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K		
UniRef90_A1BEM7	I	S	P	V	D	K	A	V	A	E	L	L	G	T	M	L	G	G	G	Y	N	V	K	P	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K	
UniRef90_AOP7K2	I	S	P	T	K	E	A	I	S	R	I	L	L	G	T	M	L	G	G	G	Y	N	V	K	P	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K
UniRef90_Q7M959	I	S	P	K	E	A	V	S	R	I	L	L	G	T	M	L	G	G	G	Y	N	V	K	P	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K	
UniRef90_Q3AR28	I	S	A	V	E	A	V	R	I	L	L	G	T	M	L	G	G	G	Y	N	V	K	P	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K		
UniRef90_UPI0003692593	I	S	K	V	Q	A	V	K	L	L	G	T	M	L	G	G	G	Y	N	V	K	P	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K			
UniRef90_UPI00036B6621	L	S	R	K	K	A	V	K	L	L	G	T	M	L	G	G	G	Y	N	V	K	P	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K			
UniRef90_Q0YRL9	L	D	S	V	E	A	V	R	I	L	L	G	T	M	L	G	G	G	Y	N	V	K	P	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K		
UniRef90_B3ELE7	I	L	T	A	V	D	A	V	T	R	I	L	L	G	T	M	L	G	G	G	Y	N	V	K	P	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K
UniRef90_A1APN5	I	S	P	A	V	D	A	V	R	I	L	L	G	T	M	L	G	G	G	Y	N	V	K	P	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K	
UniRef90_Q3AVN1	V	T	P	L	E	A	T	R	I	L	L	G	T	M	L	G	G	G	Y	N	V	A	A	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K		
UniRef90_W9BJI6	I	S	G	K	E	Y	A	V	T	E	L	L	G	T	M	L	G	G	G	F	N	V	Q	P	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K	
UniRef90_T0CH09	I	S	K	E	Y	A	T	E	L	L	L	G	T	M	L	G	G	G	F	N	V	Q	P	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K		
UniRef90_W1IAC2	I	D	A	V	E	A	V	K	L	L	G	T	M	L	G	G	G	F	N	V	Q	P	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K			
UniRef90_A2C5H7	V	S	P	L	K	A	T	E	L	L	L	G	T	M	L	G	G	G	Y	N	V	A	A	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K		
UniRef90_F6DC50	L	S	P	A	H	K	A	T	F	L	L	G	T	M	L	G	G	G	Y	N	V	A	A	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K		
UniRef90_C5ZX50	I	S	K	V	L	A	V	K	L	L	G	T	M	L	G	G	G	Y	N	V	A	P	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K			
UniRef90_UPI00047D2BC6	I	S	K	T	F	A	I	V	Q	L	L	G	T	M	L	G	G	G	Y	N	V	A	P	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K		
UniRef90_D4H3L3	I	S	R	E	R	A	I	V	Q	L	L	G	T	M	L	G	G	G	Y	N	V	A	P	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K		
UniRef90_A9BDQ3	L	T	P	L	E	A	T	Q	L	L	G	T	M	L	G	G	G	Y	N	V	S	A	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K			
UniRef90_UPI000470A974	I	S	K	S	K	A	I	S	M	L	K	T	M	L	G	G	G	Y	N	V	L	V	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K				
UniRef90_D0U531	I	S	R	K	H	A	T	F	L	L	L	G	T	M	L	G	G	G	Y	N	V	E	S	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K		
UniRef90_B7FUR4	I	T	R	A	R	A	V	E	L	L	L	G	T	M	L	G	G	G	Y	N	V	A	T	M	V	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K	
UniRef90_B7LU23	I	N	K	L	Q	D	A	V	T	L	L	G	T	M	L	G	G	G	Y	N	V	P	P	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K		
UniRef90_Q01EA0	V	T	R	A	D	A	V	R	I	L	L	G	T	M	L	G	G	G	Y	N	V	L	P	P	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K	
UniRef90_D1B1M9	I	S	A	V	E	A	V	E	L	L	L	G	T	M	L	G	G	G	Y	N	V	Q	P	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K		
UniRef90_UPI000255B268	I	T	S	P	D	F	A	F	E	L	L	G	T	M	L	G	G	G	Y	N	V	Q	V	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K		
UniRef90_Q7V9G7	V	T	P	A	K	A	T	E	Q	L	L	G	T	M	L	G	G	G	Y	N	V	S	A	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K		
UniRef90_A6DS04	I	T	K	A	D	A	V	K	L	L	L	G	T	M	L	G	G	G	F	N	V	Q	G	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K		
UniRef90_UPI0002558783	I	A	P	T	F	A	F	E	L	L	L	G	T	M	L	G	G	G	Y	N	V	E	V	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K		
UniRef90_A2BZ87	I	N	A	Q	K	A	I	Q	L	L	L	G	T	M	L	G	G	G	Y	N	V	I	N	S	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K	
UniRef90_UPI00036E4CE9	L	S	A	E	R	A	I	E	L	L	L	G	T	M	L	G	G	G	Y	N	V	Q	P	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K		
UniRef90_U5UCB9	I	D	K	K	L	A	I	K	M	L	E	T	M	L	G	G	G	Y	N	V	K	V	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K			
UniRef90_UPI00035FC24C	V	S	P	V	Q	K	A	I	E	L	L	G	T	M	L	G	G	G	Y	N	V	Q	P	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K		
UniRef90_H8DLG3	I	P	P	Q	K	A	I	E	L	L	L	G	T	M	L	G	G	G	Y	N	V	Q	P	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K		
UniRef90_D5EKX6	I	A	P	T	F	A	F	E	L	L	L	G	T	M	L	G	G	G	Y	N	V	E	V	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K		
UniRef90_D9PGJ9	I	T	A	P	V	K	A	C	E	L	L	G	T	M	L	G	G	G	Y	N	V	G	P	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K		
UniRef90_D1KCL9	I	D	Q	A	Q	A	T	F	L	L	L	G	T	M	L	G	G	G	Y	N	V	S	P	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K		
UniRef90_E6L9F2	I	D	K	K	R	A	L	K	M	L	E	T	M	L	G	G	G	Y	N	V	K	V	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K			
UniRef90_B6BWWV1	I	S	P	E	K	A	L	Q	A	L	L	G	T	M	L	G	G	G	Y	N	V	Q	A	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K		
UniRef90_A5GX02	V	A	P	L	E	A	T	R	I	L	L	G	T	M	L	G	G	G	Y	N	V	A	A	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K		
UniRef90_B3QP14	I	D	A	V	E	A	V	R	I	L	L	G	T	M	L	G	G	G	Y	N	V	K	P	M	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K		
UniRef90_D7VS23	I	S	P	E	F	A	F	E	L	L	L	G	T	M	L	G	G	G	Y	N	V	E	V	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K		
UniRef90_K0SLB5	V	S	P	K	R	A	V	E	L	L	L	G	T	M	L	G	G	G	Y	N	V	G	T	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K		
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UniRef90_E8LLC9	I	S	P	A	E	A	V	T	L	L	L	G	T	M	L	G	G	G	Y	N	V	H	L	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K		
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UniRef90_A0A023V450	L	T	P	E	A	F	A	F	E	L	L	L	G	T	M	L	G	G	G	Y	N	V	Q	P	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K	
UniRef90_K1MXN7	I	T	S	T	D	F	A	F	E	L	L	L	G	T	M	L	G	G	G	Y	N	V	K	V	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K	
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UniRef90_A3J0H2	I	T	P	S	F	A	F	E	L	L	L	G	T	M	L	G	G	G	Y	N	V	I	V	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K		
UniRef90_U2IZK4	I	T	T	A	Y	A	F	E	L	L	L	G	T	M	L	G	G	G	Y	N	V	I	E	V	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K	
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UniRef90_E4TX07	A	D	K	K	A	A	I	K	I	L	L	G	T	M	L	G	G	G	Y	N	V	K	P	L	L	S	D	E	H	A	C	R	E	A	A	A	D	V	L	K		
UniRef90_K6GGQ9	I	T	S	K	M	E	A	V	A	L	L	G</																														

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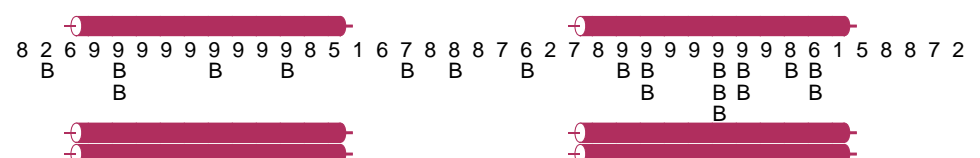
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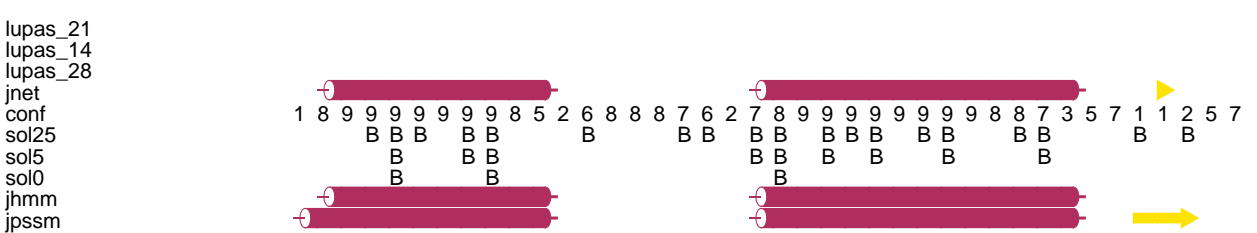
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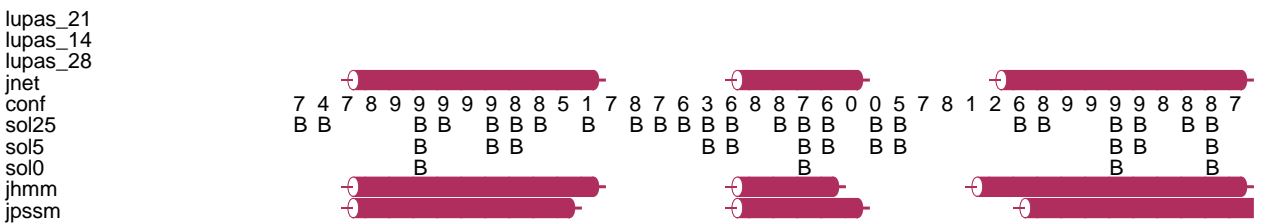
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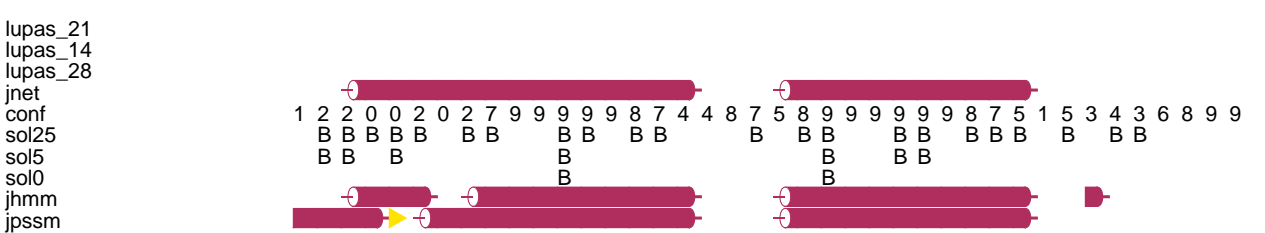


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UniRef90_K6XKG5	I S V E F A F E L L S H M K G G P S I E V L L D L A A D D A G L A A K A S D V L K			
UniRef90_M1WZ17	I T P V D A V K L L L G T M L G G Y N V N P L I E L L K D T E I A L A A S K A L S			
UniRef90_J31B42	I T D K K R A V E L L L G T M Q G G G Y N I V T L V N L L D D A E L A P V A A E E L K			
UniRef90_A4C0C6	I T A S F A F E Q L S H M K G G P S I E V L L D L G N D D A A L A S Q A G T V L K			
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