

QUERY UniRef90_K9PZ94 UniRef90_K9SBA8 UniRef90_Q8YTJ2 UniRef90_D3SFV5 UniRef90_UPI00045E7553 UniRef90_UPI0002F03C5C UniRef90_B6INZ9 UniRef90_Q52QJ0 UniRef90_UPI000382277B UniRef90_A0A031GZ32 UniRef90_K9XCC1 UniRef90_UPI0003B78080 UniRef90_K9RQV1 UniRef90_UPI000426449B UniRef90_UPI00046ADE99 UniRef90_UPI00037516E5 UniRef90_K9SKB1 UniRef90_UPI0004687D9C UniRef90_UPI00034D8790 UniRef90_K9RJ59 UniRef90_UPI00041B9FD3 UniRef90_UPI0003FDBADB UniRef90_Q0QWP3 UniRef90_M8AB45 UniRef90_G8AM73 UniRef90_A0A031FVH2 UniRef90_UPI0004759882 UniRef90_L0G0D5 UniRef90_UPI0003B30549 UniRef90_D4ZYT9 UniRef90_K9W0X6 UniRef90_H8KNL7 UniRef90_UPI000478D91F UniRef90_S7W5Z9 UniRef90_K2N8T7 UniRef90_BOXI4 UniRef90_S3I4Y3 UniRef90_UPI00037F00AD UniRef90_D4TG01 UniRef90_UPI00035E8876 UniRef90_A3HW85 UniRef90_U9VZG1 UniRef90_K2LT81 UniRef90_X5MHH6 UniRef90_A4CKI9 UniRef90_K0VUQ0 UniRef90_UPI00047D38F6 UniRef90_R7UL99 UniRef90_M0T0H2 UniRef90_C0Z831 UniRef90_Q0C191 UniRef90_F4WVC9 UniRef90_Q4USX1 UniRef90_UPI0003FB9700 UniRef90_S9YVA0 UniRef90_E0U5E7 UniRef90_E6V5C4 UniRef90_I2GB54 UniRef90_F8J515 UniRef90_K7SBQ6 UniRef90_UPI00035F5435 UniRef90_C5AA11 UniRef90_UPI0004665196 UniRef90_F0R9H6 UniRef90_F4C6S6 UniRef90_F7UAN6 UniRef90_F0SE04 UniRef90_UPI00040D3FF8 UniRef90_J3CBM1 UniRef90_W6VWW7 UniRef90_I3CHU2 UniRef90_UPI000365B7D2 UniRef90_G0J520 UniRef90_UPI0001746676 UniRef90_UPI00046E6CD1 UniRef90_H6L092 UniRef90_A0JYK6 UniRef90_Q6MDF3 UniRef90_S9QAQ6 UniRef90_G2KNF4 UniRef90_H3AQ03 UniRef90_A5ELA6 UniRef90_H1YQG4 UniRef90_E4PQD6 UniRef90_W0SB06 UniRef90_F9UJA9 UniRef90_U2J364 UniRef90_F0Q9H1 UniRef90_F5RFH2 UniRef90_B2T9J1 UniRef90_D5BC38

50 60 70 80

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

QUERY	90	100	110	120
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UniRef90_K9SBA8	A	I	P	A
UniRef90_Q8YTJ2	A	I	P	A
UniRef90_D3SFV5	T	L	R	E
UniRef90_UPI00045E7553	D	I	P	A
UniRef90_UPI0002F03C5C	L	P	Q	V
UniRef90_B6INZ9	A	I	P	A
UniRef90_Q52QJ0	E	I	P	A
UniRef90_UPI000382277B	A	I	P	A
UniRef90_A0A031GZ32	A	I	P	A
UniRef90_K9XCC1	A	I	P	A
UniRef90_UPI0003B78080	V	L	P	Q
UniRef90_K9RQV1	V	L	P	Q
UniRef90_UPI000426449B	I	I	R	D
UniRef90_UPI00046ADE99	L	V	R	E
UniRef90_UPI00037516E5	T	L	R	E
UniRef90_K9SKB1	T	L	R	E
UniRef90_UPI0004687D9C	I	W	P	E
UniRef90_UPI00034D8790	V	V	P	A
UniRef90_K9RJ59	A	I	A	K
UniRef90_UPI00041B9FD3	V	V	K	L
UniRef90_UPI0003FDBADB	V	F	A	R
UniRef90_Q0QWP3	A	L	P	A
UniRef90_M8AB45	T	L	C	H
UniRef90_G8AM73	V	L	A	A
UniRef90_A0A031FVH2	V	P	R	E
UniRef90_UPI0004759882	L	I	P	A
UniRef90_L0G0D5	I	F	K	Q
UniRef90_UPI0003B30549	V	V	H	A
UniRef90_D4ZYT9	A	I	R	K
UniRef90_K9W0X6	A	I	P	K
UniRef90_H8KNL7	I	W	T	E
UniRef90_UPI000478D91F	V	V	K	L
UniRef90_S7W5Z9	V	L	P	A
UniRef90_K2N8T7	T	T	V	A
UniRef90_BOXI4	A	L	P	K
UniRef90_S3I4Y3	L	L	C	D
UniRef90_UPI00037F00AD	L	I	Q	D
UniRef90_D4TG01	A	I	P	N
UniRef90_UPI00035E8876	T	L	Q	A
UniRef90_A3HW85	E	Y	Q	E
UniRef90_U9VZG1	E	I	P	L
UniRef90_K2LT81	T	A	M	R
UniRef90_X5MHH6	V	L	K	D
UniRef90_A4CKI9	I	F	K	E
UniRef90_K0VUQ0	V	L	R	A
UniRef90_UPI00047D38F6	A	I	P	R
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UniRef90_M0T0H2	V	L	P	E
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UniRef90_Q4USX1	V	L	D	A
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UniRef90_UPI0004665196	V	L	R	D
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UniRef90_F4C6S6	A	W	E	I
UniRef90_F7UAN6	T	L	R	H
UniRef90_F0SE04	V	L	P	Q
UniRef90_UPI00040D3FF8	I	L	P	E
UniRef90_J3CBM1	I	V	R	N
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UniRef90_I3CHU2	T	L	Q	Q
UniRef90_UPI000365B7D2	V	W	K	E
UniRef90_G0J520	I	F	E	A
UniRef90_UPI0001746676	E	W	Q	S
UniRef90_UPI00046E6CD1	V	W	T	Q
UniRef90_H6L092	I	T	Q	E
UniRef90_A0JYK6	S	L	L	E
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UniRef90_S9QAQ6	V	L	E	Q
UniRef90_G2KNF4	I	L	P	E
UniRef90_H3AAQ3	V	F	P	R
UniRef90_A5ELA6	A	L	S	E
UniRef90_H1YGG4	A	W	N	E
UniRef90_E4PQD6	D	S	E	H
UniRef90_W0SB06	E	T	P	R
UniRef90_F9UGA9	E	L	R	R
UniRef90_U2J364	I	F	K	Q
UniRef90_F0Q9H1	E	V	P	A
UniRef90_F5RFH2	L	I	P	R
UniRef90_B2T9J1	L	V	P	K
UniRef90_D5BC38	V	F	K	E

QUERY UniRef90_K9PZ94 UniRef90_K9SBA8 UniRef90_Q8YTJ2 UniRef90_D3SFV5 UniRef90_UPI00045E7553 UniRef90_UPI0002F03C5C UniRef90_B6INZ9 UniRef90_Q52QJ0 UniRef90_UPI000382277B UniRef90_A0A031GZ32 UniRef90_K9XCC1 UniRef90_UPI0003B78080 UniRef90_K9RQV1 UniRef90_UPI000426449B UniRef90_UPI00046ADE99 UniRef90_UPI00037516E5 UniRef90_K9SKB1 UniRef90_UPI0004687D9C UniRef90_UPI00034D8790 UniRef90_K9RJ59 UniRef90_UPI00041B9FD3 UniRef90_UPI0003FDBADB UniRef90_Q0QWP3 UniRef90_M8AB45 UniRef90_G8AM73 UniRef90_A0A031FVH2 UniRef90_UPI0004759882 UniRef90_L0G0D5 UniRef90_UPI0003B30549 UniRef90_D4ZYT9 UniRef90_K9W0X6 UniRef90_H8KNL7 UniRef90_UPI000478D91F UniRef90_S7W5Z9 UniRef90_K2N8T7 UniRef90_BOXI4 UniRef90_S3I4Y3 UniRef90_UPI00037F00AD UniRef90_D4TG01 UniRef90_UPI00035E8876 UniRef90_A3HW85 UniRef90_U9VZG1 UniRef90_K2LT81 UniRef90_X5MHH6 UniRef90_A4CKI9 UniRef90_K0VUQ0 UniRef90_UPI00047D38F6 UniRef90_R7UL99 UniRef90_M0T0H2 UniRef90_C0Z831 UniRef90_Q0C191 UniRef90_F4WVC9 UniRef90_Q4USX1 UniRef90_UPI0003FB9700 UniRef90_S9YVA0 UniRef90_E0U5E7 UniRef90_E6V5C4 UniRef90_I2GB54 UniRef90_F8J515 UniRef90_K7SBQ6 UniRef90_UPI00035F5435 UniRef90_C5AA11 UniRef90_UPI0004665196 UniRef90_F0R9H6 UniRef90_F4C6S6 UniRef90_F7UAN6 UniRef90_F0SE04 UniRef90_UPI00040D3FF8 UniRef90_J3CBM1 UniRef90_W6VWW7 UniRef90_I3CHU2 UniRef90_UPI000365B7D2 UniRef90_G0J520 UniRef90_UPI0001746676 UniRef90_UPI00046E6CD1 UniRef90_H6L092 UniRef90_A0JYK6 UniRef90_Q6MDF3 UniRef90_S9QAQ6 UniRef90_G2KNF4 UniRef90_H3AQQ3 UniRef90_A5ELA6 UniRef90_H1YGQ4 UniRef90_E4PQD6 UniRef90_W0SB06 UniRef90_F9UGA9 UniRef90_U2J364 UniRef90_F0Q9H1 UniRef90_F5RFH2 UniRef90_B2T9J1 UniRef90_D5BC38

130 140 150 160

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

QUERY UniRef90_K9PZ94 UniRef90_K9SBA8 UniRef90_Q8YTJ2 UniRef90_D3SFV5 UniRef90_UPI00045E7553 UniRef90_UPI0002F03C5C UniRef90_B6INZ9 UniRef90_Q52QJ0 UniRef90_UPI000382277B UniRef90_A0A031GZ32 UniRef90_K9XCC1 UniRef90_UPI0003B78080 UniRef90_K9RQV1 UniRef90_UPI000426449B UniRef90_UPI00046ADE99 UniRef90_UPI00037516E5 UniRef90_K9SKB1 UniRef90_UPI0004687D9C UniRef90_UPI00034D8790 UniRef90_K9RJ59 UniRef90_UPI00041B9FD3 UniRef90_UPI0003FDBADB UniRef90_Q0QWP3 UniRef90_M8AB45 UniRef90_G8AM73 UniRef90_A0A031FVH2 UniRef90_UPI0004759882 UniRef90_L0G0D5 UniRef90_UPI0003B30549 UniRef90_D4ZYT9 UniRef90_K9W0X6 UniRef90_H8KNL7 UniRef90_UPI000478D91F UniRef90_S7W5Z9 UniRef90_K2N8T7 UniRef90_BOXI14 UniRef90_S3I4Y3 UniRef90_UPI00037F00AD UniRef90_D4TG01 UniRef90_UPI00035E8876 UniRef90_A3HW85 UniRef90_U9VZG1 UniRef90_K2LT81 UniRef90_X5MHH6 UniRef90_A4CKI9 UniRef90_K0VUQ0 UniRef90_UPI00047D38F6 UniRef90_R7UL99 UniRef90_M0T0H2 UniRef90_C0Z831 UniRef90_Q0C191 UniRef90_F4WVC9 UniRef90_Q4USX1 UniRef90_UPI0003FB9700 UniRef90_S9YVA0 UniRef90_E0U5E7 UniRef90_E6V5C4 UniRef90_I2GB54 UniRef90_F8J515 UniRef90_K7SBQ6 UniRef90_UPI00035F5435 UniRef90_C5AA11 UniRef90_UPI0004665196 UniRef90_F0R9H6 UniRef90_F4C6S6 UniRef90_F7UAN6 UniRef90_F0SE04 UniRef90_UPI00040D3FF8 UniRef90_J3CBM1 UniRef90_W6VWW7 UniRef90_I3CHU2 UniRef90_UPI000365B7D2 UniRef90_G0J520 UniRef90_UPI0001746676 UniRef90_UPI00046E6CD1 UniRef90_H6L092 UniRef90_A0JYK6 UniRef90_Q6MDF3 UniRef90_S9QAQ6 UniRef90_G2KNF4 UniRef90_UPI0003H3AQ3 UniRef90_A5ELA6 UniRef90_H1YQG4 UniRef90_E4PQD6 UniRef90_W0SB06 UniRef90_F9UGA9 UniRef90_U2J364 UniRef90_F0Q9H1 UniRef90_F5RFH2 UniRef90_B2T9J1 UniRef90_D5BC38

T P V A T P T E L V D L S P E Q L T A I A P L L L S E L P T L K Q L G F D W D G
E P L P A T I A D C A G L S D A E R E K I K E F N I E L P S L E T L G F F E W E Q
A P L P T L S D N A Q G L T D S E S E Q E L A T A A G A L J A L P T S A Q D L G F F G W D G
K P V E T L Q N A E G L T E S E Q E L A Q K A G V K T L P T A K D L G F F W D A
Q P L P A P S R L A P A P G K P P R S L M L D D L E L L P P I L A E L G F A D S G
F Y L Q A Y P L S T H Y L D R L A K L D E T P L P T L A E L G F A D S G
D P V G L I Q P L T P L T D S E Q Q L Q D L G A V I S L P T A E A L G Y S W D N
E P L A A P D R L E A P P T A P A S D P L E S W G L L P T T P D W A G
E V A E K L D R I Q G L T A E E I K I A Q E T G V V S L P T G K D L G Y F W D G
F L L Q S Y P C R P A P G O L J A A T G N Y Q Q P S L T E L G F F E
E P A C L A P F D I E P H A A S L A P R A G K P A P L P T L D E L G F F E
E P V A T L Q G V T G L T D T E R D I A Q Q A G V I P L P T A K D L G F V W D
R P E P A P E R I S V N G L V S E S L E D W R L R P A Q P D W A G
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F Y L K S A Y P T K K Y L K N L L Q T K H L P L Q L G L E E M G F F E
R A P L P E A R K V P G P S K A P E S D D L D A W N L L P T K P D W A G
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F Y L Q S Y P Q P Y P T E K Y F G N F Y Q Q A P L P V P S L E E M G F F
P S A E P T I S L E T L N R A V T P S D N H D E R F G V P T L E E L G F F D T E G
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G L J A L P Y P D T G S A R W G K P D A V M P A M P T L E E L G F
A P L P T P L T P D L K R L H Q S S P A D F P S L R N L G F D
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E P C Q R L K S T G L T E A Q E K A A L E A G A I A L P T A K D L G F I W S E
T P A P A L Q N A I R L T D T E K E A A R Q A G V V E L P T A S Y L G F I W
F Y L K P Y P S E R Y L Q F L Y K T A F K L P T L K A L G F N
R P L P A P E E L K P A K L A G T N R K P S S D N L D A W Q L L P T A P D W A G
D L L P Q P K R T E L R W P D A A P V S D E L E W S L L P T H P D W A G
R E P A D A P E K L S V F K G D V E S D R L D D W Q L L P T R P D W A G
Q P E P A I T L A I G R A V T P Q C D D H D D K Y G V P T L E E L G F E T E G
D D P L D P P T K V K F I D L P Q K S E P L A E W R L L P T K P D W A S E F
D P L E A P G T L P G P A P S G P A S D T L S S W A L L P T S P D W S G
E P L E I L J A N C E N L T A R E E E I A E K S G V I K L L P T A R D L G F I W S G
A P Q P A P R A L V I G H P V D S L A L D A L Q L A P T L K E M G F F E
T N I E A L S Y F H W K N L Y Q T K P E P L I S L K E M G F F E
Y P A F V A P T K L S P L P T I E P G R L P A S L G L D
H A P A D R P H R L N A A D H D V A S D P L D Q W E L L P S K P D W S G
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T P L A T F D S A G Q L G N L I A H S R L P N P D L A D F G F E
E P P M D A P P K L H L A Q E L P A S D M L D S W G L L P K K P D W A R D F A
F Y L R S Y P I K R Y L H R L A R L A A Q P F P S L Q E L H F F A G
R V E A V T S V T I G S V V T P I N S D H D D Q Y G V P T L E D L G F D T D N
K T I E T P E E V R G L P S R G D I E P G E I P S L Q D L G L N Q D G
R P F P Q P T E W L L F D R L K E L P S E P V P T V E A F G
P A I P S P K I A G A S A E T E N L K D W G L H P E K P D W S G
E P P A P T V T A A C I G S A Y T P L K D D H D D G V P T L E E L G F D T E
D A M P A P R S L P L P A S L D G V H V D A L N L L P T A P W D Q
T L A A S Y P T H T H F G H F Y Q H P K T P I P A L Q D V G F
I P V E T I T S E V I E K C T T P L S D D H D E K Y G V P S L E E L G Q E
S P L K Q L E G L K G L T E E E L T L T I N A G V T D L P T A K K L G Y A W E N
F F L K P Y P V R G H A D A L V P P Q A Y R E P M P S L G E L G F E
F Y L K S Y P T E T Y F A N F V K T S A L G D H D F T I P T L E E M N F R P K G
P K A L A P R H L G P V P D A J I S D D I S D W K L L P T K P D W S G
V P L D P A P R H L S P L P D D L S Y R L D E T L L A P T H P D W A A
R P G P A P R G V H G I L P R S L E T V I T L D E L G L L P T H P D W A G
A P L A E P A K W R F H R L P E A L A R R A T R I D A L G L L P V R P D W A G
P L P A P A G R I P A P D T W P D S D D L D W R M
D L I E D K K C D F K G K L L E F N V D F P S L E N L G F
S H L K N Y P S E R H L A A L R S H W Q T I P T L K E L G F
A P A D A P K S L K S P E T W P K S Q K L D D W K L L P V K P D W A R D F S
R D P F E T P E G I S V P D S L A S S E V P A L E D L G F E
R S V F T P E T P E K I V V P N N L E Q T E I P T L Q D L G F E
R V P E P K K L R N W S D I T S D E L D D W A L L P T K P D W A K
E P T D A P T K I P S P E H F P L S E N L D H W A L L P K K P D W A A
L P L S Q L E T I C V P N N F K L E T S L N K L Q L L P K I T W D S
F Y L R S Y P T E R Y F S H F H K T R P E P I P T L A E L N F
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Q P L S K V R T L G D A P S P K I K S L P
Y K M A G Q A P E F D T K P L F S N F A K T S Y S F P A L S E L G F E
K K T A A G E S L Q S Y P N E Q Q N Y A S L P G N F E I P S L E S M G F
R P S D G P G T L P H P A G H G D G G P P Q S D D L D S W A L L P R T P D W S A
E P L P V P H S L K K F V G Q L Q T E S I D S L N L L P K L K W D K
E P L P A P D R L P A P E S W P E S D A L D D W R L
V P L G L P H H V P T F F P R L K Q S E L H I D D L D L L P S I K W D K
E P V E A I T A S F M G K C I T P V S E D H H E K Y G V P S L E E L G F D T E G
K P L P V P V R L S S P G S G V A S L I T V D K L A L E E P T S P D W A G
F Y L K P Y P T R K Y L D N I S K T S P F Q L P T L K S M G F
G L F P T P K A R G N A S P E Q L D A I P E A F R D A P E P L V A T G E D
T A L R S W P I E D Y A S H L A P P R D D A P L L P T L R D L G F E
V G P L P A P T T L P P P E S P D S L P L E N L A L L P R I P W D T
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D H L D D K A P A R R V E F Y M L W E S V V A N R L K Q S S S L Y Q Q H G A S N D L I V L H G G R A K V
T K D D D V A P A R R V T Y F M L H G Q I Q R Q L L Q S S S E L Y Q Q H F A G S S Q L L L I V K Y G G S P T Q
D K L D D K A P A R R V T Y F M L H G Q I Q R Q L L Q S S S E L Y Q Q H F A G S S Q L L L I V K Y G G S P T Q
A S S S V G L N A R R W R F L L L Q S L E D L D G A S S L R E K L N S R R L F V V R G G Q A A L P A D S
G I R P L G A A P R F W W L H H S L L S A L L G A S S L R E K L N S R R L L L R R R G A A L R
A L G L G A A P R K F R L G L G L H F S E E S L L A K L G I S L A T T F A D S V E E
Q E H D W S P A R V Q F V L D H A N A L S E E S L L A K L G I S L A T T F A D S V E E
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P K L V W F R S D L R T H D N S A L Y A A A Q D G V V I A V V F L R S L K Q W
I H W F R H G L R L H D N P A L L E G M T L G K E F Y P V V F I F D N E V A
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Table with UniRef90 IDs on the left and a grid of amino acid characters on the right, indexed 90 to 120. The grid contains various amino acid abbreviations and highlighted characters in yellow.

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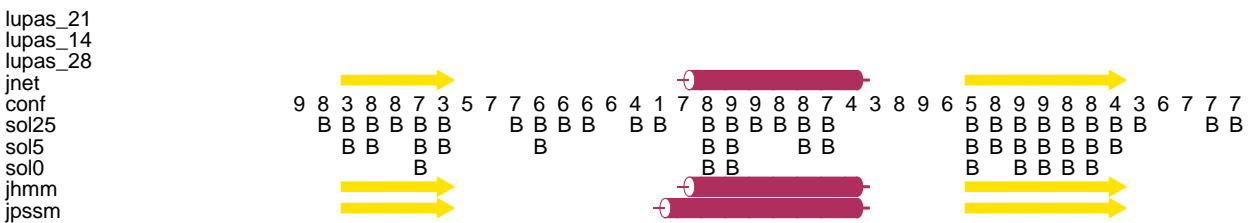
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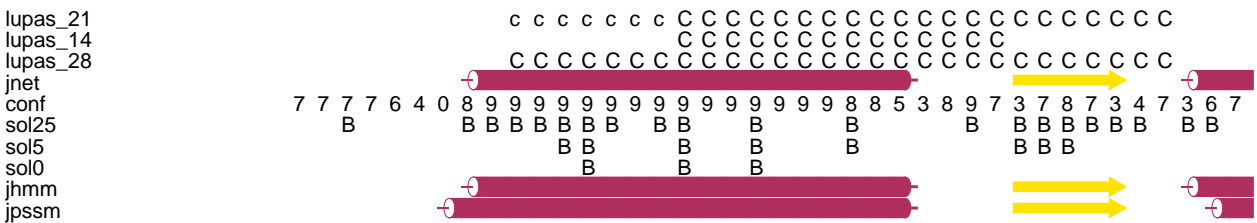
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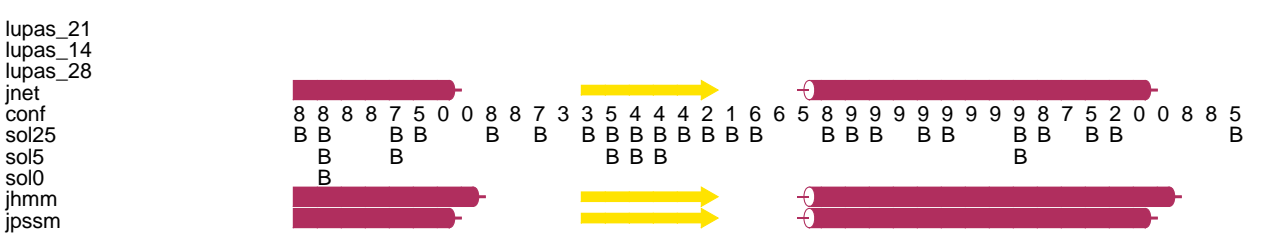
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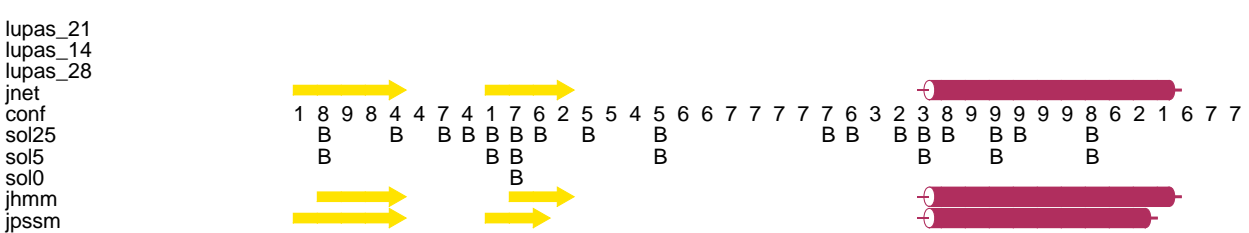
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