

QUERY	1	10	20	30	40
UniRef90_R5EKL1	EQ	QQT	HP	TT	LV
UniRef90_U2UUJ7	EQ	QQT	HP	TT	LV
UniRef90_E1R717	YI	QQT	HP	TT	LV
UniRef90_E1SS54	EY	QQT	HP	TT	LV
UniRef90_P83223	EY	QQT	HP	TT	LV
UniRef90_F4GHP2	EQ	QQT	HP	TT	LV
UniRef90_C2L1K2	WV	QQT	HP	TT	LV
UniRef90_S3J356	WV	QQT	HP	TT	LV
UniRef90_Q9Z4P0	WV	QQT	HP	TT	LV
UniRef90_E3G136	WV	QQT	HP	TT	LV
UniRef90_H1HW42	WV	QQT	HP	TT	LV
UniRef90_UPI000476E4FF	WV	QQT	HP	TT	LV
UniRef90_H7F8U4	WV	QQT	HP	TT	LV
UniRef90_D4MCZ1	EQ	QQT	HP	TT	LV
UniRef90_R7IAZ7	EQ	QQT	HP	TT	LV
UniRef90_D5H324	FI	QQT	HP	TT	LV
UniRef90_C8NG68	FI	QQT	HP	TT	LV
UniRef90_Q1WSJ8	FI	QQT	HP	TT	LV
UniRef90_J7KR69	FI	QQT	HP	TT	LV
UniRef90_N1ZZY8	FI	QQT	HP	TT	LV
UniRef90_UPI00046463D3	FI	QQT	HP	TT	LV
UniRef90_R7C1T5	FI	QQT	HP	TT	LV
UniRef90_UPI00047E7D36	FI	QQT	HP	TT	LV
UniRef90_A0AFE8	FI	QQT	HP	TT	LV
UniRef90_X2H4M8	FI	QQT	HP	TT	LV
UniRef90_UPI000219232F	FI	QQT	HP	TT	LV
UniRef90_C2CY14	FI	QQT	HP	TT	LV
UniRef90_C7XVJ9	FI	QQT	HP	TT	LV
UniRef90_E3C9A9	FI	QQT	HP	TT	LV
UniRef90_Q0ZX2	FI	QQT	HP	TT	LV
UniRef90_UPI00046AA924	FI	QQT	HP	TT	LV
UniRef90_U2JZ03	EY	QQT	HP	TT	LV
UniRef90_D5H230	EY	QQT	HP	TT	LV
UniRef90_E4SNN6	FI	QQT	HP	TT	LV
UniRef90_UPI0003941619	FI	QQT	HP	TT	LV
UniRef90_UPI000394437C	FI	QQT	HP	TT	LV
UniRef90_E3CLP8	FI	QQT	HP	TT	LV
UniRef90_B9Y3V7	EY	QQT	HP	TT	LV
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UniRef90_A8MK89	EY	QQT	HP	TT	LV
UniRef90_UPI00035EADB1	EY	QQT	HP	TT	LV
UniRef90_M7WUD3	EY	QQT	HP	TT	LV
UniRef90_I1CCM2	EY	QQT	HP	TT	LV
UniRef90_G2SR95	EY	QQT	HP	TT	LV
UniRef90_F2I4W3	EY	QQT	HP	TT	LV
UniRef90_U5H4Q7	EY	QQT	HP	TT	LV
UniRef90_K9EXJ1	EY	QQT	HP	TT	LV
UniRef90_D0WI72	EY	QQT	HP	TT	LV
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UniRef90_MON5V0	EY	QQT	HP	TT	LV
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UniRef90_R5EHQ3	EY	QQT	HP	TT	LV
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UniRef90_R5ZX08	EY	QQT	HP	TT	LV
UniRef90_K1KGN4	EY	QQT	HP	TT	LV
UniRef90_A8TNE6	EY	QQT	HP	TT	LV
UniRef90_W4V836	EY	QQT	HP	TT	LV
UniRef90_M5G1D2	EY	QQT	HP	TT	LV
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UniRef90_M8DCH0	EY	QQT	HP	TT	LV
UniRef90_K1JMY2	EY	QQT	HP	TT	LV
UniRef90_H3KD06	EY	QQT	HP	TT	LV
UniRef90_S0G550	EY	QQT	HP	TT	LV
UniRef90_F8NU84	EY	QQT	HP	TT	LV
UniRef90_W4H3T4	EY	QQT	HP	TT	LV
UniRef90_A8H7Z5	EY	QQT	HP	TT	LV
UniRef90_C5LJM7	EY	QQT	HP	TT	LV
UniRef90_C9RHT7	EY	QQT	HP	TT	LV
UniRef90_UPI000379FD17	EY	QQT	HP	TT	LV
UniRef90_O66855	EY	QQT	HP	TT	LV
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UniRef90_F1KRD8	EY	QQT	HP	TT	LV
UniRef90_A5FYR8	EY	QQT	HP	TT	LV
UniRef90_Q2JIY0	EY	QQT	HP	TT	LV
UniRef90_B9W9Y4	EY	QQT	HP	TT	LV
UniRef90_D2RFJ2	EY	QQT	HP	TT	LV
UniRef90_Q1PE9	EY	QQT	HP	TT	LV
UniRef90_F6EN58	EY	QQT	HP	TT	LV
UniRef90_W6KUT8	EY	QQT	HP	TT	LV
UniRef90_E3GX00	EY	QQT	HP	TT	LV

QUERY UniRef90_R5EKL1 UniRef90_U2UUJ7 UniRef90_E1R717 UniRef90_E1SS54 UniRef90_P83223 UniRef90_F4GHP2 UniRef90_C2L1K2 UniRef90_S3J356 UniRef90_Q9Z4P0 UniRef90_E3G136 UniRef90_H1HW42 UniRef90_UPI000476E4FF UniRef90_H7F8U4 UniRef90_D4MCZ1 UniRef90_R7IAZ7 UniRef90_D5H324 UniRef90_C8NG68 UniRef90_Q1WSJ8 UniRef90_J7KR69 UniRef90_N1ZZY8 UniRef90_UPI00046463D3 UniRef90_R7C1T5 UniRef90_UPI00047E7D36 UniRef90_A0AFE8 UniRef90_X2H4M8 UniRef90_UPI000219232F UniRef90_C2CY14 UniRef90_C7XVJ9 UniRef90_E3C9A9 UniRef90_Q03ZX2 UniRef90_UPI00046AA924 UniRef90_U2JZ03 UniRef90_D5H230 UniRef90_E4SNN6 UniRef90_UPI0003941619 UniRef90_UPI000394437C UniRef90_E3CLP8 UniRef90_B9Y3V7 UniRef90_UPI000472714E UniRef90_U1FJ87 UniRef90_A8MK89 UniRef90_UPI00035EADB1 UniRef90_M7WUD3 UniRef90_I1CCM2 UniRef90_G2SR95 UniRef90_F2I4W3 UniRef90_U5H4Q7 UniRef90_K9EXJ1 UniRef90_D0WI72 UniRef90_N1JH41 UniRef90_D8Q9I2 UniRef90_W6TB72 UniRef90_M3AQC3 UniRef90_F2Q613 UniRef90_R2SIX6 UniRef90_MON5V0 UniRef90_C5L6B1 UniRef90_R5EHQ3 UniRef90_H3KCK5 UniRef90_R5ZX08 UniRef90_K1KGN4 UniRef90_A8TNE6 UniRef90_W4V836 UniRef90_M5G1D2 UniRef90_A6TLB6 UniRef90_M8DCH0 UniRef90_K1JMY2 UniRef90_H3KD06 UniRef90_S0G550 UniRef90_F8NU84 UniRef90_W4H3T4 UniRef90_A8H7Z5 UniRef90_C5LJM7 UniRef90_C9RHT7 UniRef90_UPI000379FD17 UniRef90_O66855 UniRef90_Q57W38 UniRef90_I0H283 UniRef90_B9JWF8 UniRef90_UPI00037AE259 UniRef90_A5E1R5 UniRef90_L7VSE1 UniRef90_F1KRD8 UniRef90_A5FYR8 UniRef90_Q2JIY0 UniRef90_B9W9Y4 UniRef90_D2RFJ2 UniRef90_Q1IPE9 UniRef90_F6EN58 UniRef90_W6KUT8 UniRef90_E3GX00

50 60 70 80

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

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90 100 110 120

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A Y L M K N N L E Q A A D F F G L D K K E M L A S V A R Y N S Y V A A G K D P E
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