

QUERY	1	10	20	30	40
UniRef90_D8G7Q2	MQI	G R V R G T	V V S S N T	Q Q K K E P	S L R G G S K F L L L L Q Q F L D D E E E G A Q P L M P Q G Y
UniRef90_K9S3Y7	MQI	A R V R G T	I V S S T	H K E D D P	S L R Q G A K F L L L L Q Q F L D D A D A D G G R P P P G Y
UniRef90_K9TWH9	MQI	A Q V R G T	V V S S T	H K E D D P	S L R Q G A K F L L L L Q Q F L D D A D A D G G R P P P G Y
UniRef90_D4ZX51	MQI	A R V I G T	V V S S T	Q K E D D P	S L R Q G S K F L L L L Q Q F L D D A D A D G G R P P P R Y
UniRef90_K9TGY5	MQL	A Q V I R G S	V V S S T	Q K E D D P	S L R Q G S K F L L L L Q Q F L D D A D A D G G R P P P R Y
UniRef90_B8HQJ6	MQI	A R V I G T	V V S S T	Q K E D D P	S L R Q G S K F L L L L Q Q F L D D A D A D G G R P P P R Y
UniRef90_A0YRT4	MKI	A R V I G T	V V S S T	Q K E D D P	S L R Q G S K F L L L L Q Q F L D D A D A D G G R P P P R Y
UniRef90_K9UXQ4	MQI	A K V I R G L	V V S S T	Q K E D D P	S L R Q G S K F L L L L Q Q F L D D A D A D G G R P P P R Y
UniRef90_K9SQ80	MQI	A R V I G T	V V S S T	Q K E D D P	S L R Q G S K F L L L L Q Q F L D D A D A D G G R P P P R Y
UniRef90_Q2JKM9	MRI	A I V R G T	V V S S T	Q K E D D P	S L R T G V V K F L L L V Q Q Y F V D D E E E G G Q P P Q D D Y
UniRef90_U9VW25	MRI	G K V R G T	V V S S T	Q K E D D P	S L R T G V V K F L L L V Q Q Y F V D D E E E G G Q P P Q D D Y
UniRef90_Q10XY2	MQI	A K V R G T	V V S S T	H K E S S	S L R G G V K F L L L L Q Q F F I D D E E E G G Q P P P K Y
UniRef90_K9VY51	MKI	A K V R G T	V V S S T	H K E S S	S L R G G V K F L L L L Q Q F F I D D E E E G G Q P P P K Y
UniRef90_L8N1L5	MQI	A K V C G T	V V S S T	Y K E E S	S L R S G V K F L L L L Q Q L V D D D E E E G G Q P P P S D Y
UniRef90_K9WJA3	MQI	A K V C G T	V V S S T	Y K E E S	S L R S G V K F L L L L Q Q L V D D D E E E G G Q P P P S D Y
UniRef90_UPI0003493B2A	MQI	A K V C G T	V V S S T	Y K E E S	S L R S G V K F L L L L Q Q L V D D D E E E G G Q P P P S D Y
UniRef90_K9YVQ6	MQI	A K V C G T	V V S S T	Y K E E S	S L R S G V K F L L L L Q Q L V D D D E E E G G Q P P P S D Y
UniRef90_K9RTLX8	MQI	A Q V R G T	V V S S T	Q K E D D P	S L R T G V V K F L L L V Q Q L L D D D E E E G G Q P P P G Y
UniRef90_L8LTV1	MQI	A K V I G T	V V S S T	H K A R T S	L L T G V V K F L L L V Q Q Y V N A Q Q G K P L P E N Y
UniRef90_B7K7P6	MQI	A K V I R G T	V V S S T	H K A R T S	L L T G V V K F L L L V Q Q Y V N A Q Q G K P L P E N Y
UniRef90_B2J9Z1	MQV	A K V R G T	V V S S T	Q K D P S	S L R T G V V K F L L L V Q Q F V D D A D A D G G R P P P Q Y
UniRef90_UPI000360282C	MKI	A I V R G T	V V S S T	Q K E D D P	S L R G G S R K F L L L V Q Q F V G A D G G E P I S S D C
UniRef90_UPI0003F4D46B	MQI	A K V I G T	V V S S T	Y K E E S	S L R G G S K F L L L V R F Y D D E E E G G Q P P P S S E Y
UniRef90_UPI000347E19C	MQI	A Q V R G T	V V S S T	H K E D D P	S L R T G V V K F L L L V Q Q F V I D D E E E G G Q P P P S S E Y
UniRef90_Q8DKB4	MKI	A R V C G T	V V S S T	Q K E D T L	L T G V V K F L L L V Q Q Y L D G A D G G E F L P P D Y
UniRef90_B1WSQ0	MQI	A K V R G T	V V S S T	H K E D D P	S L R T G T K F L L L V Q Q F M D A Q G G Q P L P P K Y
UniRef90_B0CBT8	MRI	A K V I R G T	V V S S T	Y K K A H S	L L T G V V K F L L L V Q Q R V D H E A Q Q G K P L P P E Y
UniRef90_Q03512	MRI	A K V I R G T	V V S S T	Y K K A H S	L L T G V V K F L L L V Q Q R V D H E A Q Q G K P L P P E Y
UniRef90_UPI000287AFF1	M I I	G K V T G N L	W A T R K D E	N L S G L K F L L V V	R T L V D D F N G G E A L L T Q E Y
UniRef90_U5DK12	MQI	A R V C G T	V V S S T	Y K E D D P	S L R T G V V K F L L L V Q Q L V D L D G R V L P P E Y
UniRef90_A0A037ZAM5	M I I	G E V L G N V	W A T R K D E	N L N G L K F L L V I	R P I D Y Y S N K E F P T
UniRef90_P72759	MQL	A K V I G T	V V S S T	S K T P N	R L T G G K F L L L V Q F L D T K G Q P L P E R Y
UniRef90_H1XWR0	MEL	A R V E G H V	A T A K S	N R L E T G Y K	L L L V Q Q L D E P D L S E T N K Y
UniRef90_UPI00047BE295	M Q M	G T V I G N V	W A T R K E E	D L T G L K F L L V	Q P E S P N G G A S P E A P
UniRef90_D4J572	M I I	C Q V T G N L	W S T K K E	D L S G L K F L M V	Q E I D D G G R K K G N T
UniRef90_U6F038	M I I	G Q V T G N L	W S T K K E	D L S G L K F L M V	Q E I D D G G R K K G N T
UniRef90_K4LS65	MFL	A R V V G N I	W S T K K E	D L V G L K F L M V	Q L I D H Q G R P F G N T
UniRef90_U1WPU1	MRI	G T V I G N V	W A T R K E E	D S L T G L K F L F V	Q L E D T G G K P L P D A P E Y
UniRef90_K9UKX4	MKL	A K V I G T	V V S S T	H K E D D P	S L R T G T K F L L L V Q Q M L D P A G N D L P P E Y
UniRef90_UPI0002DC8431	MQI	G K V I G N V	W A T R K E E	N L R G L K F L L V	Q P E L P T N E S V G S P
UniRef90_L0ILG9	M L L	G R V I G N V	W A T R K D E	K L V G Y K F L L V	Q Q F V D F K G C N P L P R Y
UniRef90_UPI000365C4FC	MQI	A K V C G T	V V S S T	Y K E D D P	T M T V G V K F L L L V Q Q F V D F K G C N P L P R Y
UniRef90_K6VNU9	M I L	A T V V G S V	S T K D E	G L H G S K L L L V	R A C T P E Q E A H G E P
UniRef90_I6YS13	M I F	A K V I G S V	S T H K E D	P K L T G K K M L C	K E V I N H D G K P M G S S
UniRef90_UPI00036E5E99	MRI	G R V I G N V	W A T R K E E	G L Q G L K L L V	Q P I H V D G K P V N S S
UniRef90_UPI00036EF0B8	M N L	A R V T G T	V V A T Q K S E	A L V G A K L L V	E R L N E R L K P L G E S
UniRef90_B8J0J0	M L I	G I V V G N V	W A T R K E E	D S L N G L K L M V	Q R L D L A H N K L A E S
UniRef90_B4WNX0	MRI	A K V I R G T	V V S S T	V K E D D P	S L M G L K F L L V Q Q R E D A C S R S S H E S
UniRef90_UPI00047C6FB1	MQL	G R V I G T	V V A T R K D E	R L T G N K L M I T	Q P L S M E E K P L I G Q P
UniRef90_K2DS21	MQL	G K I V G T	V V S S T	R K E D D P	K L E N L K L Q I V K F I N T D G G S F T G G Q L
UniRef90_M8DG88	MFL	G K V I G S V	W A T R K E S	G M E N L K L M V	V P V F I N D W N G R E N G Q T
UniRef90_M5UD74	MFL	A R V T G S I	V S T Q K V	E S M K G H K L L V	E P Y R L D T D S T G R T
UniRef90_D5XBV3	M Y L	A K V I G T	V V S S T	S K D P R	L T G C K L L V V P V A L V P Q K V E Y P
UniRef90_Q30W79	M I I	G K V I G N V	W A T R K E E	D A L N G L K L M V	Q R E D A C S R S S H E S
UniRef90_E8N2E3	MQI	A R I I G S A	V S T A K D P	K L T G F K L L V A	Q R A T P D N Q V Y G D P
UniRef90_C4XB57	MKL	A V I T G Y V	C T R K E H E	G L A H D K F L M V	E M L N A R G E P D G Q C
UniRef90_I8AM64	MRL	G T V I G N I	W A T R K E E	G L T G L K F L F V	K L E N P D G T A V D S P
UniRef90_M1ZIY7	M I I	E K V I G N V	W A T R K E E	S L N G F K L L V I	K P I D Y Y H E K E E N T
UniRef90_M5RX45	MFI	A K V I G S V	S T Q K V S	M T G H K L L V	E P Y R L E G E K T G R T
UniRef90_E6MI92	MKV	G K I I G S V	W A T Q K E F	P R L S G L K L L V	Q P L S A E K N P T A V P
UniRef90_U2RFR8	MFL	A T V R G T	V V S S T	S K D E R L	V G F K L L L V Q P L D V D G G P T G R P
UniRef90_K8EN65	M I I	G K V I T G S	L W A T R K D E	K L N G L K F L L V	E T E T D E H Q K S A P Q S
UniRef90_F2JLX9	M E I	G R V I G R V	W A T R K D E	Q L N G Q K F L L V	K I L L E E Q G K E P E L
UniRef90_L0RA56	M I I	C K V I G N V	W A T R K E E	T L S G E K L M V	Q R M D L D E K V S E E L
UniRef90_E5Y380	M E I	A K V I G Q V	S T V R C	P G L P Y N S L L L	V D L L L N E K G E S I G R S
UniRef90_A6TWS8	M H I	G R I I G T	V V A T P R K	E R L M G C K L M L	T Q P L N I D K N P V G G P
UniRef90_S2WVY8	M Y L	A K V V G N V	S T S K D E	R L V G F K L L L T	C R L D D Q E K P V D N P
UniRef90_J7TR18	MKL	A V I G Q I	V C T V R H P	G L E S D K L L L V	E M I D R Q G R S N G E V
UniRef90_E7RHY8	MRI	G K V I G N V	W A T R K E D	G L Q G L R L L V I	K P V D T K G N S I R T E
UniRef90_UPI000372F0EB	MFL	G K V I G S V	W A T H K E S	G M E N L K L M I	V Q P M S F K G Q A Q G S T
UniRef90_M1ZLY6	M Y L	G K V I G T	V V A T R K D E	N L T G S K F L M I	T Q P L N M E L K E P L G P
UniRef90_H7CU04	M E I	G R V I G N V	W A T R K D E	N L N G Q K F L L V	V K L L V S K D J E K E G L
UniRef90_X0S697	M L L	G R V I G T	V V A T Q K D P	N L L S F K L Q L	V R R V D L E A R D E S G F
UniRef90_B1HUX1	M Q M	G R V I G S V	W A T R K E E	G L N G L K L L L I	Q P I D S N K E Q P L I R T E
UniRef90_M8E221	MFL	G K V I G S V	W S T Q K E E	G M E N L K L L V	Q P I D S N K E N E G G P T
UniRef90_A6TJY0	M I I	G K V I G N V	W A T R K D E	T L N G L K L L V I	E S I D Y G R N Q R G S P
UniRef90_UPI000363E70B	M R L	A R V I G T	V V A T Q K V P	S F E G I K L L L I	Q P L D E N L K E V G S P
UniRef90_U4WL95	M I V	G E V V G S L	W A T R K D E	P K L N G L T F L V	V K P H S Y D E N T S K E C
UniRef90_E3DN38	M I I	G K V I G N V	W A T R K D E	N L N G F K F M V	V E P L D H S S R E I N K T
UniRef90_B8DC48	MQL	G K V I T G S	L W A T R K D E	K L N G L K L L L V	E I C T D A Y E S D V I R H S
UniRef90_F9DUN6	M R M	G K V I G N V	W A T R K E E	G L A G L K L L L V	E I C T D A Y E S D V I R H S
UniRef90_A4A2M2	M F I	A K V T G S V	I A T Q K V	E S M V G N K L L V	E P Y R L E P Q D T G R T
UniRef90_R6E3U4	M I I	C K V I G V H	W A T K K E E	S L D G S K L M V	V E Q T D T Y G E A N K E
UniRef90_UPI00047BD8A7	M Y I	G K I I G V V	S T T K D Q	G L V G S K L L V	Q P I D T K N N P I G N C
UniRef90_UPI00046A6006	M R L	G R I T G N V	W A T R K E D	G L T G F K F L F V	Q L E E P T G K G T D T Q
UniRef90_D9R9Q3	M F I	G K V I G S L	W A T R K D E	K L N G L K F L L I	E K Q R N E H A P L P A L
UniRef90_UPI00047A499B	M Q V	G T V I G N V	W A T R K E D	N L T G L K Y L F V	Q P E L P T G A D P L S
UniRef90_Q0PIB8	M W I	G T V V G N V	W A T S K D P	S L V G S K L L I	I K P L S S S G V S R P G L
UniRef90_C6LEW5	M Q V	A K V I G N I	W A T R K E E	K L S G L K L L L V	K P L D L D G T A D K S P
UniRef90_UPI000248D635	M F M	G K V I G S V	W A T R K E E	G M D N L K L M V	V Q P M D F K D R E A G Q P
UniRef90_UPI0003714122	M W L	G K V V G T	V V A P T	K D D T L V G W K	L L L V Q P L N L D G L N N I S M

QUERY
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UniRef90_K9S3Y7
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50 60 70 80
E V A A D G V V G A G G F D D E W V L L F S R R G S S A A A R Q Q V A G S E K R R P P V I D A L V V I G G
E V A A D C V V G A G G V D D E W V L L V T R G S S A A A R Q Q P D D G M N D K S H R R R P P L L D A L V V V G G
E V A A D W V V G A G G V D D E W V L L V S T R G S S A A A R Q Q I T D D G M N Q S E D K S R R R P P L L D A L V V V G G
E V A C D Y V V G A G G F S D E W V L L V S L G S S A A A R Q Q I P I G S E N D R R R P P S L D D A A V I A
E V A A D N V V G A G G V D D E W V L L V S T R G S S A A A R Q Q I V L R S G S E D E Q R R R P P V I L D D A A V I A
E V A V D N V V G A G G V D D E W V L L V S T R G S S A A A R Q Q L P G S G E Q R R R P P L D D A A V I A
E V A L D F V V G A G G F D D E W V L L V S T R G S S A A A R Q Q I P L G S E T R R R P P S L D D A A V V A
E V A A D S V V G A G G L D D E W V L L V S V R G S S A A A R Q Q I L P L G N E K Q R R R P P I V L D D A A V I A
A V A A D P V V G A G G I D D E W V L L V S R G S S A A A R Q Q P Q S G N E Q T R R R P P L D D A V V M A
E V A A D V V V G A G G P G E W V L L V S T R G S S A A A R Q Q H S G S G Y E G R R R P P V V V D D A I V V A
E V A A D N V V G A G G I N E W V L L V S R G S S A A A R E E I P G S G Y E K L R R R P P V V D D A R V V A
E V A G D Q V V G A G G I D E W V L L V S R G S S A A A R Q Q I D G S E K R R R P P V V D D A M V V A
E V A T D T V V G A G G V D D E W V L L F T R G S S A A A R Q Q V L N S E N T R R R P P I L D D A A V I A
E V A A D I V V G A G G M D E W V L L V S R G S S A A A R Q Q V L G E N T R R R P P I L D D A M V V G
E V A A D L V V G A G G V G E W V L L V S R G S S A A A R V E S G R E N C P P I L D D A L A I G
E V A A D P V V G A G G F G E W V L L V S R G S S A A A R Q Q E E N H Q N R R R P P L L D D A M V V A
E V A A D T V V G A G A G A E W V L L I S R G S S A A A R Q Q I A G A V E K P P L L D D A A V I A
E V A G D T V V G A G G V A N E W V L L V S T R G S S A A A R K E S G H E E R R R P P L L D D A A V I G
E V A G D T V V G A G G I N E W V L L V S R G G A A A R K E S G H E E R R R P P L L D D A M V V G A
E V A A D S V V G A G G V D E W V L L V S R G S S A A A R Q Q V I G S E E Q R R R P P L L D D A V V A
E V A T D S V V G A G G E G E W V L L V T L G S S A A R Q Q I Y S D R P R R P P V L D D A L V V G
E V A I D V V G A G G I T G E W V L L V S R G S S A A A R H V E G S E K R R R P P S L D D A T I V A
E V A A D L V V G A G G V N E W V L L V S R G S S A A A R I L E A G Q E K P P L L D D A T I V G
E V A A D T V V G A G G Q D E W V L L V S R G S S A A A R H I I N G T D K P P L L D D A A V V A
E V A A G D L V V G A G G V D E W V L L V S T Q G S S A A A R I D D G M E R H R R P P L L D D A L V V G A
E V A A D C V V G A G G V D E W V L L I S R Q G S S A A A R Q Q M P E Y E R R R P P L L D D A L V I A
E V A A D M V V G A G G V D E W V L L I S R G S S Q A R R H V R D C Q E R R P P L L D D A A V I A
E V A A D S V V G A G G I G D Q V L I S K G S S A A R Q Y V F D N S N K A R R P P L L D D A T I V G A
E V A A D P V V G A G G I G E W V L L V A R G S S A A A R Q Q D D R S N D R R R P P L L D D A L V V A
E V A A D S V V G A G G I G E T V L I V Q G S S A A R V S V G N S N N V P P L L D D A T I V G
E V A A G D V V G A G G L N E W V L L V A R G S S A A A R K E R G N G D R R P P L L D D A M V V A
E V A A D T V V G A G G E G E W V V I V I R G S S A A A R Q S E K L S A N S V P P T L D D T S V V A
F I A V D R I V G A G G V G D Q V L V T R G S S A A A N M S G D A S N L P P I L D D A L I V G
E V A A D V V V G A G G I G E Q V L T V V S G S S T A R Y A F G R N K T V P P V I D D A T I V A
L V A V D S V V G A G G I G D Q V L V V S G S S A A R Y A T R E N D K A P P I L D D A T I V G
M I V A D Q I V G A G G I G E D V V T Q G S S A A R K A I P G K E T P P V I D D A S V I G G
E V A A D R I V G A G G I G D T V V M V T M G S S A A A R F A I P E Q D D V P P V I D D A M V I A
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M V A S D T V V G A G G V G E Y I L L S T R G S S A A A R Y S S G K K E S P P L L D D L S I V G
E V A A D P V V G A G G L D E W V L L V S R R A A P H P E P D V R P P P P L L D D A L I V G
Y V A V D T V V G A G G E G E L V L V A R G S S A A A R E T N R T T G G A P P I L D D A A I V A
H V A L D A V V Q A G G G D F V L L T Y G S S A A R M T E T T K D S P P I D D A V I V A
L V A A D R I V G A G G I G D N V L V T S G S S A A R S R F I M T E R D N P P I P I D D A V I V G
T V A V D A V V G A G G E E E V L V Y T T S G S S A A R Q T S Q T K D S P P V V D D A V I V A
F V A V D C V V G A G G I G E R V L V T T G S S A A R K A L Y N Q E A P P I D D A A I V G
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L I A V D T V V G A G G I G E T V I F A T G T A A R H A A E K L L Q S P P I D D A A I I G
V V A A D S V V G A G G I G E V V L V A A G S S A A R Q T Q V T N K S K P P I D D A V I M A
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F L V A D T V V G A G G E G E L V I L V E G S S A A R E T L K T A N I P P V D D A V I V G
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F I S V D T V V G A G G I G E F V L V V S Q S S A A R L T P E T K P P L D D A C V I G G
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L V A A D N A V G A G G F G D L V L V T T G G A A R L S V L D K G V P P V I D D A V I V G G
I V A A D I V V G A G G V G D L V L V V R G S S A A R Y A L G N G P D C P P I D D S A V V G
F V A A D C V V G A G G I G E Q V L V T T G S S A A R M A L R N Q D A P P V I D D A S I V G
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QUERY

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