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90 100 110 120

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

QUERY UniRef90_X1YMR6 UniRef90_C3YB73 UniRef90_UPI00034F8CE1 UniRef90_B4JGC0 UniRef90_S3UPF3 UniRef90_B6K7L5 UniRef90_E0VUA6 UniRef90_I2CRA2 UniRef90_UPI0004417EC0 UniRef90_G4TA20 UniRef90_Q7UYZ3 UniRef90_K0H4H9 UniRef90_Q09J80 UniRef90_UPI00029B3561 UniRef90_R5V7C5 UniRef90_T1IDW3 UniRef90_H9K063 UniRef90_UPI0001CBAEB4 UniRef90_F8NKT2 UniRef90_R5P5V7 UniRef90_U9SVC9 UniRef90_E2CWJ2 UniRef90_B0DY50 UniRef90_G7KYH5 UniRef90_R9J5N9 UniRef90_K3WDU0 UniRef90_B7QKQ6 UniRef90_UPI0001C36FD6 UniRef90_U4LG44 UniRef90_R0G2X4 UniRef90_F9X110 UniRef90_L0R7J7 UniRef90_I2FXK9 UniRef90_B2AME0 UniRef90_E2NVS9 UniRef90_UPI0001CBAEB3 UniRef90_G0SDX9 UniRef90_A0A016S1G5 UniRef90_UPI00035A2094 UniRef90_R4TPR4 UniRef90_I1LBS5 UniRef90_I2JZ29 UniRef90_A7SQ16 UniRef90_Q6FVW9 UniRef90_A8PXT8 UniRef90_M5VLY7 UniRef90_G4YS73 UniRef90_UPI0003FC435D UniRef90_M5RWN9 UniRef90_S9RHY7 UniRef90_U2D0A4 UniRef90_F4RG35 UniRef90_W0FNN1 UniRef90_R6PKN7 UniRef90_R5TDP7 UniRef90_J3P9G2 UniRef90_R5LEH5 UniRef90_UPI0003B73C74 UniRef90_D4LA49 UniRef90_U9T4D2 UniRef90_R5PI42 UniRef90_L8X5P2 UniRef90_P54144 UniRef90_N2A3D2 UniRef90_UPI00042B6A54 UniRef90_Q7Y1B9 UniRef90_F0SQ35 UniRef90_F9FQ31 UniRef90_I4B1B0 UniRef90_M2QZL3 UniRef90_V2Y0F9 UniRef90_R7GWD7 UniRef90_G2R4Q3 UniRef90_R7AMH0 UniRef90_D3RS70 UniRef90_Q1L727 UniRef90_R7K8S3 UniRef90_A8J1H0 UniRef90_F8N343 UniRef90_G2QWS6 UniRef90_I1CH11 UniRef90_U1HY83 UniRef90_G8YE72 UniRef90_UPI00030A0812 UniRef90_M4FSQ3 UniRef90_R5EIE5 UniRef90_G3JT32 UniRef90_D4M2L1 UniRef90_W4Y0G6 UniRef90_V4L414 UniRef90_S2KB45

130 140 150 160

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

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170 180 190 200

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

| QUERY | T | G | T | A | I | L | Y | I | G | W | F | G | F | N | A | G | S | A | G | T | A | N | E | I | A | A | L | A | F | V | N | T | V | V | A | T | A | A | A | I | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UniRef90_X1YMR6 | M | G | L | F | V | L | W | W | G | W | L | A | F | N | S | G | S | T | Y | G | V | S | G | A | A | R | A | A | V | M | T | M | M | G | S | F | G | G | G | S | I | | |
| UniRef90_C3YB73 | L | G | M | F | V | L | W | W | G | W | L | A | F | N | S | G | S | T | Y | G | I | W | K | L | A | R | A | R | A | V | M | T | M | M | G | S | F | G | G | G | S | I | |
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| UniRef90_S3UPF3 | L | G | T | F | I | L | W | F | G | W | F | G | F | N | G | G | S | A | Y | G | A | N | L | R | A | V | V | A | V | T | N | T | N | I | C | A | A | A | V | A | C | | |
| UniRef90_B6K7L5 | L | G | T | S | I | L | W | F | G | W | L | A | F | N | S | G | S | A | Y | G | A | N | L | R | A | V | V | A | V | T | N | T | N | I | C | A | A | A | V | A | C | | |
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| UniRef90_I2CRA2 | L | G | M | S | L | L | W | F | G | W | F | G | F | N | G | G | S | A | F | Q | A | N | G | L | A | M | Q | S | F | L | N | T | N | C | A | A | S | A | A | M | I | | |
| UniRef90_UPI0004417EC0 | L | G | T | V | F | L | W | F | G | W | F | G | F | N | G | G | S | A | L | S | A | N | L | R | A | V | Q | A | C | I | V | T | N | L | A | A | S | V | A | G | I | | |
| UniRef90_G4TA20 | L | G | T | A | L | L | W | F | G | W | F | G | F | N | G | G | S | A | L | S | A | N | M | R | A | N | A | C | L | I | T | N | L | A | A | S | V | A | G | I | | | |
| UniRef90_Q7UYZ3 | L | G | A | A | M | L | W | V | G | W | F | G | F | N | G | G | S | E | L | A | S | D | D | L | T | A | S | A | F | A | V | T | H | F | A | A | A | A | G | A | I | | |
| UniRef90_K0H4H9 | L | G | T | F | L | L | W | F | G | W | F | G | F | N | P | G | S | Y | Y | G | Q | W | S | A | I | G | R | T | A | V | T | T | T | L | A | G | C | T | A | A | I | | |
| UniRef90_Q09J80 | L | G | T | F | M | L | W | F | G | W | F | G | F | N | P | G | S | Y | Y | G | Q | W | S | A | I | G | R | T | A | V | T | T | T | L | A | G | C | T | A | A | I | | |
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| UniRef90_R5V7C5 | L | G | C | F | I | L | W | F | G | W | F | G | F | N | G | A | A | C | T | S | G | S | Q | L | A | S | V | F | L | T | T | T | V | A | P | A | V | A | T | I | I | | |
| UniRef90_T1IDW3 | M | G | L | F | V | L | W | W | G | W | L | A | F | N | S | G | S | T | Y | G | L | S | G | L | A | K | A | A | V | M | T | M | L | S | S | F | G | G | G | I | I | | |
| UniRef90_H9K063 | N | A | I | M | G | L | F | V | L | W | W | G | W | L | A | F | N | S | G | S | T | Y | G | Q | R | W | Q | Y | A | A | R | A | A | I | S | T | M | L | S | S | M | G | G |
| UniRef90_UPI0001CBAEB4 | F | G | M | F | M | L | W | W | G | W | L | A | F | N | S | G | S | T | Y | G | I | W | K | L | A | R | A | R | A | V | A | T | I | S | S | I | S | M | G | G | I | I | |
| UniRef90_F8NKT2 | L | G | T | F | I | L | W | F | G | W | L | A | F | N | G | G | S | A | F | G | A | N | L | R | A | V | M | A | I | W | N | S | M | L | A | A | A | C | G | G | I | I | |
| UniRef90_R5P5V7 | L | G | V | F | L | L | W | F | G | W | F | G | F | N | C | S | T | V | S | M | E | G | L | A | G | K | L | E | V | T | N | L | A | A | A | V | A | T | I | I | I | I | |
| UniRef90_U9SVC9 | L | G | T | T | M | L | W | F | G | W | F | G | F | N | G | G | S | A | N | A | N | L | R | A | V | M | A | L | T | S | N | L | A | A | S | V | G | G | I | I | I | I | |
| UniRef90_E2CWJ2 | L | G | T | F | M | L | W | F | G | W | F | G | F | N | S | G | S | K | Y | G | Q | W | S | A | V | G | R | T | A | V | T | T | T | L | A | G | S | T | A | A | I | I | |
| UniRef90_B0DY50 | L | G | T | V | F | L | W | F | G | W | F | G | F | N | G | G | S | A | L | S | A | N | L | R | A | A | Q | A | C | L | S | T | N | V | L | A | A | S | V | G | G | I | |
| UniRef90_G7KYH5 | M | G | T | F | L | L | W | F | G | W | F | G | F | N | P | G | S | Y | Y | G | Q | W | S | A | I | G | R | T | A | V | T | T | T | L | A | G | C | T | A | A | I | I | |
| UniRef90_R9J5N9 | L | G | C | F | I | L | W | F | G | W | F | G | F | N | G | A | A | A | W | D | G | N | S | L | A | S | I | F | V | T | T | T | I | A | P | A | V | A | T | I | I | | |
| UniRef90_K3WDU0 | I | G | C | T | L | L | W | F | G | W | F | G | F | N | G | A | S | S | F | G | A | D | G | L | A | A | I | A | G | I | N | T | H | L | A | A | C | A | G | F | I | | |
| UniRef90_B7KQ06 | L | G | M | F | T | L | W | W | G | W | L | V | F | N | C | S | G | S | F | G | K | W | Y | A | S | R | A | A | V | T | T | L | N | A | S | L | G | G | G | I | I | | |
| UniRef90_UPI0001C36FD6 | L | G | C | F | I | L | W | F | G | W | F | G | F | N | G | A | A | C | T | S | I | D | Q | L | G | S | V | F | L | T | T | T | V | A | P | A | I | A | T | I | I | | |
| UniRef90_U4LG44 | L | G | S | V | L | L | W | F | G | W | L | A | F | N | G | G | S | A | F | G | S | N | L | R | A | I | A | C | W | N | T | N | L | A | A | G | I | S | S | A | I | I | |
| UniRef90_R0G2X4 | L | G | T | F | L | L | W | F | G | W | F | G | F | N | S | G | S | N | Y | G | Q | W | S | G | L | G | R | T | A | V | T | T | T | L | A | G | S | T | A | A | I | I | |
| UniRef90_F9X110 | I | G | T | V | F | L | W | V | G | W | F | G | F | N | A | G | S | A | L | G | A | N | L | R | A | I | M | A | A | V | T | N | L | A | A | G | V | G | G | I | I | | |
| UniRef90_L0R7J7 | L | G | T | G | L | L | W | F | G | W | F | G | F | N | S | G | S | A | L | A | A | D | G | L | A | A | G | A | F | V | A | T | H | I | A | A | M | A | G | M | I | I | |
| UniRef90_I2FXK9 | L | G | T | V | F | L | W | F | G | W | F | G | F | N | G | G | S | A | L | A | G | A | N | L | R | A | V | Q | A | M | M | V | T | Q | V | A | A | S | V | G | G | I | |
| UniRef90_B2AME0 | L | G | T | V | F | I | W | F | G | W | F | A | F | N | G | A | S | T | A | N | L | S | L | R | S | I | Y | V | V | N | T | N | L | A | A | C | G | G | G | I | I | | |
| UniRef90_E2NVS9 | A | L | G | V | F | L | L | W | F | G | W | F | G | F | N | G | A | A | A | K | N | G | T | Q | L | A | T | I | F | A | T | T | T | V | A | P | A | L | A | T | I | I | |
| UniRef90_UPI0001CBAEB3 | F | G | M | F | M | L | W | W | G | W | L | A | F | N | C | S | T | Y | G | I | W | K | L | A | R | S | A | V | A | T | I | V | A | S | S | V | S | G | G | I | I | | |
| UniRef90_G0SDX9 | V | G | T | V | F | L | W | V | G | W | F | G | F | N | A | G | S | A | L | A | N | M | R | A | I | M | A | A | V | T | N | L | A | A | C | V | G | G | G | I | I | | |
| UniRef90_A0A016S1G5 | L | L | W | W | G | W | F | G | I | N | A | G | S | V | W | G | I | T | S | G | R | W | L | G | A | R | A | A | V | A | T | I | M | S | S | I | G | G | G | I | I | | |
| UniRef90_UPI00035A2094 | V | G | M | F | M | L | W | W | G | W | L | A | F | N | C | S | T | F | G | I | W | K | L | A | R | A | K | T | A | V | T | T | L | A | A | S | I | M | S | G | G | I | |
| UniRef90_R4TPR4 | I | G | T | V | F | L | W | V | G | W | F | G | F | N | A | G | S | A | L | S | A | N | M | R | A | V | M | A | A | V | T | N | L | A | A | S | V | G | G | I | I | | |
| UniRef90_I1LBS5 | L | G | S | F | L | L | W | F | G | W | F | G | F | N | P | G | S | F | L | G | Q | W | S | A | I | G | R | T | A | V | T | T | T | L | A | G | S | T | A | A | I | I | |
| UniRef90_I2JZ29 | L | G | T | V | F | L | W | F | G | W | F | G | F | N | G | G | S | S | G | N | A | S | L | R | G | F | A | C | L | N | T | N | L | A | A | S | C | G | G | I | I | | |
| UniRef90_A7SQ16 | L | G | T | F | M | L | W | W | G | W | L | A | F | N | C | S | T | F | G | I | T | G | A | S | R | S | A | V | T | L | N | G | S | I | G | G | G | I | I | I | | | |
| UniRef90_Q6FVW9 | L | G | T | I | V | L | W | F | G | W | L | L | F | N | A | A | S | A | L | S | P | N | L | R | S | V | Y | A | F | L | N | T | N | I | S | A | V | T | G | G | I | I | |
| UniRef90_A8PXT8 | L | G | T | I | V | L | W | F | G | W | F | G | F | N | A | A | S | A | L | S | P | N | L | R | S | V | Y | A | F | L | N | T | N | I | S | A | V | T | G | G | I | I | |
| UniRef90_M5VLY7 | L | G | T | F | L | L | W | V | G | W | F | G | F | N | S | G | S | Y | Y | G | Q | W | S | A | I | G | R | T | A | V | T | T | T | M | A | G | C | S | A | A | I | I | |
| UniRef90_G4YS73 | L | G | L | T | L | L | W | F | G | W | F | G | F | N | A | G | S | Q | G | A | D | G | L | A | A | T | A | A | I | N | T | H | L | A | A | C | A | G | F | I | I | | |
| UniRef90_UPI0003FC435D | F | P | G | H | N | L | V | I | A | A | L | G | V | F | I | L | W | L | G | W | Y | G | F | N | G | S | V | F | L | T | T | T | V | A | P | A | V | A | T | I | I | | |
| UniRef90_M5RWN9 | L | G | T | F | I | L | F | F | G | W | F | G | F | N | C | S | T | F | K | A | T | G | E | I | A | P | I | A | I | N | T | L | L | G | G | C | F | G | G | I | I | | |
| UniRef90_S9RHY7 | L | G | T | V | L | L | W | F | G | W | F | G | F | N | G | G | S | A | G | S | A | N | L | R | A | V | M | A | C | V | T | H | I | A | A | S | V | A | T | I | I | | |
| UniRef90_U2D0A4 | F | P | G | H | N | L | P | I | G | C | L | G | V | F | I | L | W | L | G | W | Y | G | F | N | G | A | A | F | L | T | T | T | V | A | P | A | V | A | T | I | I | | |
| UniRef90_F4RG35 | L | G | T | A | L | L | W | F | G | W | F | G | F | N | G | G | S | A | L | | | | | | | | | | | | | | | | | | | | | | | | |

QUERY UniRef90_X1YMR6 UniRef90_C3YB73 UniRef90_UPI00034F8CE1 UniRef90_B4JGC0 UniRef90_S3UPF3 UniRef90_B6K7L5 UniRef90_E0VUA6 UniRef90_I2CRA2 UniRef90_UPI0004417EC0 UniRef90_G4TA20 UniRef90_Q7UYZ3 UniRef90_K0H4H9 UniRef90_Q09J80 UniRef90_UPI00029B3561 UniRef90_R5V7C5 UniRef90_T1IDW3 UniRef90_H9K063 UniRef90_UPI0001CBAEB4 UniRef90_F8NKT2 UniRef90_R5P517 UniRef90_U9SVC9 UniRef90_E2CWJ2 UniRef90_B0DY50 UniRef90_G7KYH5 UniRef90_R9J5N9 UniRef90_K3WDU0 UniRef90_B7QKQ6 UniRef90_UPI0001C36FD6 UniRef90_U4LG44 UniRef90_R0G2X4 UniRef90_F9X110 UniRef90_L0R7J7 UniRef90_I2FXK9 UniRef90_B2AME0 UniRef90_E2NVS9 UniRef90_UPI0001CBAEB3 UniRef90_G0SDX9 UniRef90_A0A016S1G5 UniRef90_UPI00035A2094 UniRef90_R4TPR4 UniRef90_I1LBS5 UniRef90_I2JZ29 UniRef90_A7SQ16 UniRef90_Q6FVW9 UniRef90_A8PXT8 UniRef90_M5VLY7 UniRef90_G4YS73 UniRef90_UPI0003FC435D UniRef90_M5RWN9 UniRef90_S9RHY7 UniRef90_U2D0A4 UniRef90_F4RG35 UniRef90_W0FNN1 UniRef90_R6PKN7 UniRef90_R5TDP7 UniRef90_J3P9G2 UniRef90_R5LEH5 UniRef90_UPI0003B73C74 UniRef90_D4LA49 UniRef90_U9T4D2 UniRef90_R5PI42 UniRef90_L8X5P2 UniRef90_P54144 UniRef90_N2A3D2 UniRef90_UPI00042B6A54 UniRef90_Q7Y1B9 UniRef90_F0SQ35 UniRef90_F9FQ31 UniRef90_I4B1B0 UniRef90_M2QZL3 UniRef90_V2Y0F9 UniRef90_R7GWD7 UniRef90_G2R4Q3 UniRef90_R7AMH0 UniRef90_D3RS70 UniRef90_Q1L727 UniRef90_R7K8S3 UniRef90_A8J1H0 UniRef90_F8N343 UniRef90_G2QWS6 UniRef90_I1CH11 UniRef90_U1HY83 UniRef90_G8YE72 UniRef90_UPI00030A0812 UniRef90_M4FSQ3 UniRef90_R5EIE5 UniRef90_G3JT32 UniRef90_D4M2L1 UniRef90_W4Y0G6 UniRef90_V4L414 UniRef90_S2KB45

250 260 270 280

L G W I F G E W A L R G L P S L L G A C S G A I A G L V G V T P A C G Y I G V G
F S I I Y S M Y N N D G R M D V V D L T N G I L L A G L V S V T A G C Y L Y H A W
I V A V V L S Y T K N K Q K F D I S Y L I N S I L L G A L V S V T A G C C A L L A H P W
F G L L F T L I K N G K A E V I S Y L I N S I L L G S L V S I T A G C C F L L Y R A W
V S S L Y S F W R H D G R L D I V M D L I N G V L L G S L V S I T A G C C F L L Y R A W
C S A I A F D Y I T K G L P H V G G A L N G V L L A G G L V A A T A G C C D V L S P A
T T W V L Y D F F R T R K W S M I L G F C S G A V A G L V A A T P T A G C C G F V S P H
L F G L I Y S L A F Q N N I D T L H L T N G V L L G S L V S I T A G C C Y L Y T A W
L T W L L V D K I R G L K P S V T S A C V G A V S G L V A I T P A G C C G Y V N T G G
L T W M F W D Y R L E R K W S A V G F C S G A I S G L V A I T P A G S G F V G S P
L T W M L W D Y R L E R K W S V V G F C S G G I V G L V A I T P A S G F V G P S
V A W V T L E W L V L G K P T V L G A S S G A V A G L V A C I T P A A G F V Q P M
L T T L F G K R I I S G H W N V T D V C N G L L G G F A A I T A S G C C S V V E P W
L T T L F G K R I L S G H W N V T D V C N G L L G G L A A I T A S G C C S V V E P W
L S A L F L A W R L T K R A D V S Q A I N A S L A G L V A A M T A S C H L A E P
V V C M I F T W L K Y G K P D V S M C L N A S L A G L V A I T A P C C D V T D C F
V G L T Y T L I N R G N A N I L D I I N S V L L G S L V A V T A G C C F L Y S S W
L V G L G F S L N G P D R I D I L S Q I N G I L A S L V A I T A G C C L F R A W
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V V W C L L D Y R L E R K W S M V G F C S G T I A G L V A A T P A S G Y I H P W
C T V M I I T W L R Y K K P D V S M T L N G S L A G L V A I T A G C C D T V S P
I T W M L I D Y R L E R K W S A L G F C S G A V A G L V A C V T P G S G Y I N V P
L T T L F G K R V L S G H W N V T D V C N G L L G G F A A I T A G C C A V V E P W
L T W M L W D Y R L E R K W S V V G F C S G A I S G L V A I T P A G S G F V G S P
L T T L F G K R L Q T G H W N V T D V C N G L L G G F A A I T A G C C S V V D P W
C T T M V F T W I K N G K P D V S M C L N G S L A G L V G V T A G C C D A V D A L
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V V G V F Y S Y F I N R K K F V D V G D I V N A L L T A L V A V I T A G S G F Y S A Y
V T C M I F T W L K Y G K P D V S M C L N A S L A G L V G L T A P C C D V T D C F
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L T T L F G K R L I S G H W N V T D V C N G L L G G F A A I T A G C C S V D P W
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A A W C G L I E W Y H N G K P T S L G A S G A I A G L A T T P A A G F V S P N
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I T W V I L E Y L Y K K F S L T G F C S G I I A G L V G I T P A A G F V N V Y
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V T W C L L D Y R L E R K W S A V G F C S G V V A G L V A I T P A S G F V P S W
L T T L F S K R L L A G H W N V I D V C N G L L G G F A A I T P G C A V V E P W
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V T A I V T S W L F R K P D V S M V V N G I L A G L V A I T A G C C N V D A K
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M V W C L M D Y R Y E R R W S M V G F C S G T I A G L V A A T P S S G F V H P W
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C T T L I F T W L K N K P D V S M C L N A C L A G L V G V T A G C C A V L D A I
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330 340 350 360

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

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

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

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

QUERY I V W S G V V A F I G Y K L A D L T V G L R V 370 380
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A G S F L L W F G W Y G F N P G S Y I G Q W S A L G R T G V T T T L A G C T A A
L G T V M I W T G W L G F N G G S S L N A S M R A M V A V F N T N T A G C T G I
L G V F I L W F C W F G F N C G S T T A A S T S L G H D I A M T T N L A A A A T
M G T L V L W F G W Y G F N C V I S T L S L T G T M G H V M V N T L A A C T G G
A L G V F I L W F A W Y G F N G A A A E D G A R L G Q I L L T T T I A P A V A T
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V T C A L V V G A T A E R G R V L P A G A N L R A T M A C W N S C L T A M F A A
L G T A L L W F G W F G F N G G S E L A M N L R S V Q A A L I T N L A A A M G G
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G G A G L L W M G W T G F N G A P Y A S N T V A S L A V I N T H V L A G C T S L
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P G H S L T L G A L G V F I L W F G W Y G F N G A G S V F L T T T V A T G A T
I G C T F L W F G W F G F N G G S G G A A D G I G A T A A I N T H L A A S A G F
F P G H N I T A A A L G V F I L W L G W Y G F N G G S V F V T T T I A P A A T
L A L V I I W S S W L A F D A G T T L A L N F K S V I S A L C V T N I C A S A G A
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L S A M L A N R V Y N K F W S L L M A I N G A L A G M V A S C A G C N N D I A P W
L A W L F V D Y F R F G R K W T T T G M C C G A I S A L W L G K R H D P A V A K
V V G L L A S Y A T S G K Y L V T D I L N S V L A G L V A I T A S C A L V H P Y
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U n i R e f 9 0 _ R 5 G V C 5 C T T M V Y T W L K Y H G K P D V S M L N G S L A G L V A I T A P C A A D T D C L
U n i R e f 9 0 _ R 5 T Y G 9 F V T L L F T W A R Y G K P D V S M T L N G A L A G L V A I T A G C D V V T P Y
U n i R e f 9 0 _ L 8 F R F 5 A T W C L L D F R L A R K K W S M V G W C S G A I S G L V A A T P A S G F I P L W
U n i R e f 9 0 _ H 6 B V K 9 I G W S L V D M I R N K G K L S L V G A C E G A I A G L V G I T P A A G Y V S V
U n i R e f 9 0 _ Q 5 B G 3 4 L T W A G L T Y A E T G K F S L D S T F L G A I A G L V L I T P S A G F I D L S
U n i R e f 9 0 _ G 1 X F 0 8 F T W V L L D Y R L A K K I S M V G L C S G F I S G L V A A T P A S G F L T P H
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U n i R e f 9 0 _ Q 6 C E Q 8 I I F A A V D K W R Y G R V I S L V G L C E G V I A G L V A I T P S C G Y I S P W
U n i R e f 9 0 _ R 6 A 4 Z 9 V T T M L L T W V Y R Y G K P D V S M T L N G G L A G L V A I T A G T D V V S V A
U n i R e f 9 0 _ J 7 S 7 7 4 L A W M F I D Y F R Y D G K W T V G L C S G I V S A L V G I T P A G A G F V P I
U n i R e f 9 0 _ G 0 W 4 7 1 M T W C L L D Y R S E K K W S T V G L C S G I I A G L V A A T P S S G C I T L Y
U n i R e f 9 0 _ R 6 B W 1 0 V V A M I F T W V K Y G K P D V S M C L N A S L A G L V A I T A P C D V C D A L
U n i R e f 9 0 _ U P I 0 0 0 3 F O A 5 2 B T V G I F L S Y I K K R K F D I L Y L I N G V L A G S L V S G T A P C A L A R P W
U n i R e f 9 0 _ B O X 5 6 2 F S I A Y S M I R N K G G M D I V D L I N G I L A S L V S V T A G C F L Y H A W
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U n i R e f 9 0 _ A 0 A 0 1 6 U M L 5 T V I T V L I S R W T T K K I Q V D M L I D G M L A S L V S T A G C
U n i R e f 9 0 _ D O N E U 9 L T W S A L I E F A F H K N F D P C G A I S G A V A S L V A I T P G C A F V Y P W
U n i R e f 9 0 _ E 4 X K N 4 M M L L A G H G R H K Q H W S F L I L V D S T L C G M V A L C G P C N I P T Y
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U n i R e f 9 0 _ R 5 P N P 3 I A T M F T S W I K Y G K P D S F S L T L N G I L A G L V A I T A G C D L V S P L
U n i R e f 9 0 _ R 6 C G I 3 C T A M I F T W V R Y G K P D V S M T L N G A L A G L V A I T A G C D Q V S P V
U n i R e f 9 0 _ W 6 M W 9 3 L T W M F V D Y F R C G R K W T T V G M C S G A I A G L V G I T P A A G F V P V
U n i R e f 9 0 _ Q 9 7 4 J 8 I T W M L M D M A F F K K P T L V G A T S G A I T G L V A I T P A A G Y V N G W
U n i R e f 9 0 _ B 6 W R F 2 F G W M L L E Y L A F F G K A T T L G A T S G A L A G L V S I T P A A G F V G A M
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290 300 310 320

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

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E R

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

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

A S Y S F V V T T I I L W V L H F I P G C R L

I V W S G V V S L I A Y K I V D L V I G L R V
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170 180 190 200

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 L H G G E S R F G T S G L K E A E W V F D W X X X X X X X X X X X X X X X X
 L G S D D N T L T S S V P F W G K V F F Q M V F C G T A A T I V S G A V A E R
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 L Q H V L T Q P F G Q I P L L V H C V Y Q L M F C S V T A I L A I G A L A R G
 F G P W S G G D L S G Y A P A S D W F F Q M V F V A T A A S I V S G T V A E R
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 V M S F T P E D A A T G Y S S Y S D W F F Q M V F C A T T A S I V S G T V A E R
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 I G A P Y L L D G W S G N S N F V W I F Q T V F C A T A A T I V S G A M A E R
 L K Q V P Q V G F D Y S F F L F Q W A F A I A A A G I T S G S I A E R T
 L G D G D D W E F T L L F F H I M F A S T A A T I V S G A M A E R
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 F H R D V L S S P V G T I P A L I S F S E F Q L V F E A T V C A I A V I G G F V E R
 A D D S D G A K I E G G Y A A S S D W F F Q M V F V A T A A S I V S G T L A E R
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T K F S A Y C I Y S V I S M F V Y P I V G H W I W G E G W L S K L G F H D F A
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X X X X X X X X X X X X X X X X X V V H W A W H P D G W A S P Y R T A D
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UniRef90_K4MB10 G G T V V H I S S G F G A L A L A L V I G N R M D Y G K Y S M E A D N I T T T L

UniRef90_R7YGV0 G G T A V H I C A G A T V F A H S M Y H L D Q P G K G D S H N V E N V L L G T L

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UniRef90_L8N5J9 G S S V V H T L G G W T S L V G A Y L L G P R P D R I W G Q I P P H N L G Y A T

UniRef90_W0JK37 G G L V V E A N S G I S A L V L A L I V G K R R D F K K T I M P P S S I A L S I

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UniRef90_F2JHP2 G S T V V H S V G G W C A L V G A K V L G P R I G K Y G K D G K S N P L G A L G

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UniRef90_K9RSC0 G S T V V H A V I G G W A A L M G A J L L G P R I G R Y T E D G G A V A L P G H N

UniRef90_I3CIQ1 G S G I V H L A G A S A A L A G V L L L G A R K G K Y G S N G Q V N P M P L A T

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