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I T A S I T M V A A | I A Y F T M G A N L G W A P T E V A G N Y R E | I F Y V R Y I
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D C R Q L F | V A R Y I
L V S I M T T I S F I T Y L A L A T G S G M T H V P | D T T Q F R Q V | V M W L R Y L
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P | I L T T A S I A Y F S M A S D L G A T P | I V G G G T R Q I | W Y V R Y I
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V S G L I T F | I A A V H Y W Y M R D | A S M A G D | V S N V T A F R Y V
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V S G M V C | I A A V H Y Y Y M R G | N M D M T D V V A | I R Y I
C N T F I C G V A T F S Y F A M L S G Q G W T A | A G C | R Q F F Y A R Y V
V S S L V V F I I A G Y H Y F R | F N S W D A A Y V L N D A T M Y E Y A Y R Y V
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C S I Y I C A F S T L A Y F A M L S G Q G W T A V | A G C | R Q F F Y V R Y V
V T G L V T F | I A A Y H Y L R | F N S W V D A Y E | P V L T G K P | F N D A Y R Y M
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I L M C Y V T A | I S T F A Y Y A M L S G Q G W L | T P | N C R Q L F Y V R Y V
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I T A S I T F V A C | I F S M G A G L G Q T P | V L V G A G T R E | I Y Y V R Y I
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I T L T I N F | I A A I S Y Y S M A S G | I G | S L S H H G A | R P L F W A R Y I
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L L A G A N F V A S I S Y Y A M G S D L G F T P | I V G Q V G D N R Q I F W T R Y V
I T G L V T L I A A Y H Y L R | F N S W E A A F V I T G D Q I K A S G | I Y R Y V
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P | P V Y W M R N V
V S G L I T F | I A A V H Y M Y M R D | A H A A G D S T T V F | R Y V
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| UniRef90_L1J8F1 | D W I L T T P [L] L L I D D L G L V A G V S R W D I M A L C L S D V L M I A T G A F | | | |
| UniRef90_A1CG98 | N W F L T E P [G] L I N L S L S L S G L P G A H L L V A I V A D Y I M L G S G L L | | | |
| UniRef90_A7WQE3 | D W I L T V P [L] L L V E L L I V M K L P A K E T W T L G I A S A V T V A L G Y P | | | |
| UniRef90_W3WKA4 | D W V I T T P [L] L L L D L L L T A G L P T P T I L I T I F A D E I M I V C G L I | | | |
| UniRef90_UP10003F4E9D7 | D W T L T V P [L] M C V E F Y L L I T G A K G S T L F K L I I I A S L V M L V T G Y I | | | |
| UniRef90_S3CCA5 | D W F I T T P [L] L L L D I M L T A G L P W P T I L Y T L L L D E I M I V T G l V | | | |
| UniRef90_S7Q6X3 | Q W F I T A P [L] L L L E L L L A T G L S L S E I F T A I F M V E V T V I C G L L | | | |
| UniRef90_G7E689 | D W V I T T P [L] L L L T L L L A T G L P L S S I F F T I F M D E L M I V T G l V | | | |
| UniRef90_C7ZG90 | D W F I T T P [L] L L L M D D L L L T A G M P W P T V L V I L V D W V M I V T G l V | | | |
| UniRef90_F2XWZ4 | D W I L T T P [L] L L L D L L L T A G V P W P T V L V I L V D W V M I V T G l V | | | |
| UniRef90_F6K460 | D W I L T V P [L] L L I E L L I V M K L P Q S L S W K L G L A S A L M V A L G Y P | | | |
| UniRef90_V9SHU8 | D W I L T V P [L] M C V E F Y L V A G A T K S L L W K L I G L S V V M L V T G Y F | | | |
| UniRef90_C0K2L1 | D W F L T V P [L] L L V E L L A R A A Q R S M L N R L V P A A A A M I A L G Y P | | | |
| UniRef90_UP100047A1FD2 | D W I L T V P [L] M C V E F Y L I A G A K Q S L L M W K L I F A S V I M L V T G Y F | | | |
| UniRef90_I1X958 | D W F L T T P [L] L L L D L G L L A D V R S T L L G L I G A D G F M I V T G l V | | | |
| UniRef90_B8PVU7 | D W I L T V P [L] M C V E F Y L I L G A K Q G L L W R M I F W S L F M L V T G Y L | | | |
| UniRef90_AOP4Y6 | D W I L T V P [L] L L L E L V L V M R L S K E E T Y K L A F A A A L M V A L G Y P | | | |
| UniRef90_N1JJ1 | D L I F T T P [F] I L L N L A F L S N M N G A S I T T A L V S D T L M I I L S I F | | | |
| UniRef90_UP100027EEF9 | D W I L T V P [L] Q M V E F Y I V T A V S A G V L H R L L G F S V L M L V F G Y L | | | |
| UniRef90_N1PP72 | D W F I T T P [L] L L M D L L L T S G L P W P T I L W T V F L D E V M I I T G l V | | | |
| UniRef90_A8TU99 | D W I L T V P [L] L L I E L L I V M R L S Q A E T M K L G G A A A L M I V L G Y P | | | |
| UniRef90_H6C3U7 | D W V I T T P [L] L L T D L L T A G M P W P T I L W V I G L D E I M I V T G l V | | | |
| UniRef90_UP100047BE9B0 | D W T L T V P [L] M C V E F Y L V A G A K Q S L L M W K L I L A S V V M L V T G Y A | | | |
| UniRef90_E8QX23 | D W I L T V P [L] L M V E L A L P K G E G R G L L V R L S V A A F F M I A L G Y P | | | |
| UniRef90_S4W363 | D W I L T V P [L] M C V E F Y L V A G A T K S H M W K L I F G F S T I M L V T G F F | | | |
| UniRef90_S4W6J2 | D W I L T V P [L] M C V E F Y L V A G A K K S L L M W R L I F L S V I M L V T G Y V | | | |
| UniRef90_D5H9B4 | D W I L T V P [L] L T V E L V L V M G L P K P L A A K L G F L A A L M I V L G Y P | | | |
| UniRef90_L1J7W1 | D W I L T T P [L] L L I D L G V A G Q D F V T I A A V I G A D M L M I V A G Y M | | | |
| UniRef90_A9X7L4 | D W T L T V P [L] M C L E F Y L L A G A K S S F M W K L I A A S V S V L M L V A G Y I | | | |
| UniRef90_UP10003B640DC | D W I L T V P [L] L V I E L V M V S G L P K S M M A R L G I A A A A M I A L G Y P | | | |
| UniRef90_G5EH87 | D D W A V S L P L V V L A L M M S V G P L S T T L T M V A A E I F N V C L L I | | | |
| UniRef90_U1R2U7 | D W I L T T P [L] L L D L C L L A E D R T T V Y T I L G I D L F M V G T G V A | | | |
| UniRef90_UP10003752A82 | T V P L L L V E V I A V A L A L A K E V S S S L I S R L V P A S A A M I A L G Y P | | | |
| UniRef90_UP100037D2908 | D W I L T V P [L] M C V E F Y L V A G A T K S H M W K L I G F S T I M L V T G F F | | | |
| UniRef90_A1YC49 | D D W I L T V P [L] M C V E F Y L I T K T S G G T T W K M I A S A V M L V T G Y M | | | |
| UniRef90_K9UIK1 | T W F C S T P [L] L I L D L A F L G R T N L P I T C S L I G A N A Y M I A T G F V | | | |
| UniRef90_R0JVV1 | D W V V T T P [F] L L L D L L G L L A G M A G G H L F M M V T A D V I M V L T G l F | | | |
| UniRef90_S8B8F7 | N W A I S T P [L] I L V N F A L V S G L P G A N L I P A I A A N F V M L G S G L L | | | |
| UniRef90_M7SL81 | D W A L T T P [L] L D L A F L A G L S G Y S I L V V V V A D V I M T L S T L F | | | |
| UniRef90_G8HKA0 | E W I L S C P V I L I H L S N L T G M K S K R T M G L L I S D I G T I V F G T T | | | |
| UniRef90_L1JDD0 | D Y A I T L P L I I I Q L G L I A G A E T S I I A A T I G A E I L Y V A T F Y F | | | |
| UniRef90_G4XT37 | D W I L T V P [L] L L L E I I I F C C N L S P D E T W A L G V I S S G L M I I L G Y P | | | |
| UniRef90_F6DAL1 | D W F L T V P [L] L L L E I I I V M S L T R S E T V R L G G A A A L M I A L G Y P | | | |
| UniRef90_L1JQN0 | D W F T T T S L I L F N L G L I V G A D T G L N I A I I A A D M L M I F G G F M | | | |
| UniRef90_I1X8Q4 | D L F T T P [L] L L L D L G L L A D V D R S T L L G L I G A D G F T I V T G l V | | | |
| UniRef90_UP10004256184 | D W I L T V P [L] M C V E F Y L I L G A T T A L L W K M I G Y S L L M L V A G Y I L | | | |
| UniRef90_L2FDF3 | D W F V T T P [L] L L L D L L T A G L P W P S I M I A L L A D E V M I V T G l V | | | |
| UniRef90_L1K4I3 | D W I L T V A P V I A I W L G L V A G A D F T D M A Y A V A G Q V V W V A A T Y M | | | |
| UniRef90_F4S3M3 | D W I L T T P [L] L T D L G L L A G I P I Q D I V V L L V L S D V V M V V T G l L | | | |
| UniRef90_Q0CC93 | N W F L T E P L I L A N L A L S G L P G A H L L S A V V A D Y V M L G S G L L | | | |
| UniRef90_M2YSS1 | D W F V T T P [L] L L L T M L T A G V P A P T L L F I L F M N E V M I V C G L V | | | |
| UniRef90_F1VXN1 | D W I L T V P [L] L L I E L L I V M R L P R A E T I K L G L L A A L M V V V L G Y P | | | |
| UniRef90_A3JEZ3 | D W I L T V P [L] L L V E L L I V M K L S N S E T V K L G G A A A L M I I L G Y P | | | |
| UniRef90_U3KZ22 | D W V L T V P [L] M C V E F Y L V A G A K K S L L M W K L I A A S I V M L V T G Y F | | | |
| UniRef90_K9YE12 | D W I L T V P [L] L L I E L G L P Q K T S R P L F I K L A V A A V L M I A T G Y V | | | |
| UniRef90_E4V3D3 | N W M L T V P [M] I L T C L S F L S G V N G A S L L V S I S A S L V M F V I A L S | | | |
| UniRef90_L1IFJ7 | F W T F S T S I D I L F I L T V V V D S S K N T Y L F M I N A L H T C G V I | | | |
| UniRef90_Q6J528 | D W I L T V P [L] M C V E F Y L V A G A T K K D M W R L I A L S T V M L V A G F F | | | |
| UniRef90_U7T7D4 | D W I L T V P [L] L L V E L L I V M R L S R S E T V T L G G A A A L M I I L G Y P | | | |
| UniRef90_J7R9K8 | G W F L A L P W V V I Q A S I F G K T P V W H I F F N V L M T E F Y V V S F L L | | | |
| UniRef90_F8MTE7 | D W A L T T P [L] L L L E L C L L A G V D G A H T L M A I V A D V I M V L C G L F | | | |
| UniRef90_D1MER6 | E W A V T V P L T I Y S L A V L A D V R I E T T L A T I V A S V I M V V C G L N | | | |
| UniRef90_G9NEX0 | N W A V A F P S V S L A L G G L L S N I S W S T T I A T N I S V S F L W V V T Y L A | | | |
| UniRef90_L1JU60 | E R L I T S T L I L L I L M G N I A G A G P D L M F G A C G S N A I Y M I A T Y M | | | |
| UniRef90_S9R0D2 | Q W M I N E P L V I S S I F H F A G V S F M R I L L T V F N I W L C F S C L L | | | |
| UniRef90_A8QKZ0 | D W T L T V P [L] M C V E F Y L I A G A K M G L L W K L I A A S V A M L V L G Y V | | | |
| UniRef90_U1Q7H6 | T W T L S T P M I L I A L G L L A G G S N L T K I F T A V V I T D I G M C I T G l A | | | |
| UniRef90_D4APS3 | N W M L T V P [L] I L T C L S F L S G V N G A S L L V S I S A L V M F V A A L S | | | |
| UniRef90_W2SB74 | D W F V T T P [L] L L L A D L L T C G L P G P T I L I Y V I L M N E L M I V T G l V | | | |
| UniRef90_C0K2L2 | D V P L L L V E T V A V A L A A T V Q R S L N L K L V P A A A A M I A L G Y P | | | |
| UniRef90_K9UO8A | S W F I S T P L L L I E L T Y L G K T S V T T T A S L L G A N A Y T I A A G F V | | | |
| UniRef90_G0W4J4 | G W F L A F P W P I I Q A S I F G K T P L W H I A F N V C F T E F Y V V C F L I | | | |
| UniRef90_A1YEN7 | D W I L T V P [L] M C V E F Y L I A G A K K S L L M W N L I G L S T F M L V T G l V | | | |
| UniRef90_B6BVP9 | D W I L T V P [L] L L L E L V L V M R L S K E E T Y K L A A A V V M V I L G Y P | | | |

130 140 150 160

Legend:

- Yellow box: **C**, **G**, **T**, **V**, **A**, **I**, **S**, **M**, **D**, **F**, **R**, **N**, **Y**, **P**, **H**, **R**, **K**, **G**, **Q**, **W**, **E**, **L**, **N**, **O**, **P**, **C**, **S**, **D**, **B**, **X**, **U**, **Z**
- Blue box: **D**, **E**, **S**, **G**, **T**, **R**, **H**, **C**, **M**, **F**, **Y**, **W**, **N**, **P**, **R**, **H**, **D**, **V**, **I**, **L**, **K**, **N**, **Q**, **S**, **T**, **V**, **B, **T**, **S**, **U**, **X****

170 180 190 200

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

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

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

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

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

D L Y G K I A W L T I I M W S F Y P V V W L F S E G F A S F S V S F E V V A Y T

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

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

L I S G M R W L I L A S W G V Y P I A Y L L P E L G T G P V A T V S V Q I G Y T

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

G V S R L F T G L A L F A L L L W T A Y P I I W G I A G G T N V D T E I L I Y T
F T Y T Y L V F L I L G S W I A Y P V I W V I G E G T R A V T V D V E I L L Y A

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

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

A F N A L K W F V L V G W A I Y P

210 220

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

| | 90 | 100 | 110 | 120 |
|------------------------|---|-----|-----|-----|
| UniRef90_Q4PB84 | D W T V T T P L L L L E I L L V S G L P L S T V F I T I F F D L V M I I T G L | | | |
| UniRef90_W9X1P8 | D W F I T T P L I V V Q L L L V A G L P T P T I L Y T L L M T E V V V V N G L V | | | |
| UniRef90_B2D015 | D W L L T V P L M C V E F Y L L A G A S I N M L W R L I G Y S V L M L V A G Y V | | | |
| UniRef90_G4XT38 | D W L L T V P L L I E I I F C C N L S P D E V A K | | | |
| UniRef90_D8UEE2 | Q W M V T T P T M V Y I L S K I S D F T P Q Q T A T A I C M D V V M V L S G L M | | | |
| UniRef90_M0E6A6 | E W L V G T P A Y V A G L F L L T E E P N T V R L A V G L D D L L M V G A G I G | | | |
| UniRef90_UPI00039C8083 | T V P L L M V E I Y I V L L A V T N V G S G V F K R L L A F T T L M L V F G Y L | | | |
| UniRef90_U1Q194 | D W L F T T P L L L D I G L L A G A S N R D I L T L V G L D A F M I V T G L G | | | |
| UniRef90_A8QLV0 | D W L T T V P L L M A E F Y L I M K V P G R V F W N L L G G S T A M L L L F G Y A | | | |
| UniRef90_A1YC70 | D W L I T V P L L M V E F Y I I T A V A G G V L W K L M I G S L V M L V G G Y L | | | |
| UniRef90_Q5UXY6 | D W L F T T P L L L Y D L G L L A G A D R N T I Y S L V S L D V L M I G T G V V | | | |
| UniRef90_D2CWD5 | D W L I T V P L L Q I I E F Y L I T N V G S G L F W R L L G A S L V M L V G G F I | | | |
| UniRef90_K0KNN8 | G W F L S F P L L F Y Q F N I L T S A D F N K L F L T I A S T E V F V L G L L I | | | |
| UniRef90_C5FY44 | T R I L L A T P I L M T Q T L L L I N A P L K L I L R E I F M A S I V M M T G L G | | | |
| UniRef90_A8QLV6 | D W L I T V P L L M V E F Y I T K V S G G V F W R L M G T M V M L A A G Y M | | | |
| UniRef90_G0VB63 | A W F L S W P L L L I F L N E M T G M S I S E L L F Q I L G T E F W V V S L L V | | | |
| UniRef90_C0K2L4 | D W L T T V P L L L V E V I A V L A V I S S S L I T R L V P A S A A M I A L G Y P | | | |
| UniRef90_F1D6U4 | D W L I T T P L L L L D L A L L A G L D F W E T G F I I I L M D M L M I T A G Y I | | | |
| UniRef90_Q5V0R5 | D W L F T T P L L L L D I G L L A G A S N R D M A S L I T I D A F M I V T G L A | | | |
| UniRef90_G5ZZ13 | D W L I T V P L L M I E F Y L V T N V S G G V F W R L T I G T L V M L I G G Y L | | | |
| UniRef90_A4G152 | G W L L T V P L L L L E L V L V I R L T R E E T F K L T V A A L I M V L L G G Y S | | | |
| UniRef90_A7U0U1 | D W L F T T P L L L L D I A L L A D A D W R D I G A L V G L D A F M I V T G L G | | | |
| UniRef90_A7TRM3 | G W F L A F P W P I I Q A C L G N T P V W Q I C F N I A M T E V F T I G F L V | | | |
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| UniRef90_A1YEK4 | D W L I T V P L L Q I I E F Y L I L R V C T N S S G L F W R L L V A S L V M L I A | | | |
| UniRef90_J9YYL2 | D W L I T V P L L M V E F Y L V G S A S G G I F W R L M I G T L V M L V G G Y M | | | |
| UniRef90_A1YC63 | T V P L L M V E F F L I I L S A I T A V P A R V F W R L L I G T T L M L V F G Y L | | | |
| UniRef90_U1QNI9 | D W L F T T P L L L L D I A L L A N A D R E T I Y T L V G L D V F M I A T G L V | | | |
| UniRef90_UP10003703936 | D W L I T V P L L M V E F Y I I T A V A G G V F W K L M I G S L V M L I G G Y M | | | |
| UniRef90_Q6FM12 | G W F M A L P W P V I Q A S L M G K T P I W Q I A F N I A M T E V F T V C F L I | | | |
| UniRef90_F3KGJ7 | D W V L S H S M Q V V L F Y V V T K V S P A L F W R L L I G S L V M V I G E F L | | | |
| UniRef90_M0LV62 | D W L F T T P L L L L D L S L L A G A N R T I A T L I G L D V F M I G T G A I | | | |
| UniRef90_J9H7H8 | D W L I T V P L L L V E V V A V L A V A A S S S L I T R L V P A S A A M I A L G Y P | | | |
| UniRef90_J9YVF5 | D W L I T V P L L M L E F Y F V L A A D S G I F W R L M I G T L V M L V G G Y L | | | |
| UniRef90_D2Y5K1 | D W T L T V P L M C V E F F F L L L G A K Q S L M W K M I G Y S V L M L V A G Y I | | | |
| UniRef90_A8QLX6 | D W L I T V P L L M L E F Y F V K K V P S S V F W K L L L G S L V M L I G G Y L | | | |
| UniRef90_UP10003698BCA | D W L T V P L L M I E F Y F V K K V P S S V F W K L L L G S L V M L I G G Y L | | | |
| UniRef90_C0K2L0 | T V P L L L M E I V A V L A L T R Q L Q S S L L K R L V P A A A L M I I L G Y P | | | |
| UniRef90_UP1000362E6CB | T W F C S T P L L L L D L T F L G R T S L P L T G S L L G A N A Y M L V T G F V | | | |
| UniRef90_A9P399 | D W L I T V S I L L M V E F Y F V L A A D S G I F W R L M I G T L V M L V G G Y M | | | |
| UniRef90_UP100026263A7 | D W L I T V P L L L V E L I V L L S L T R E M T R L V I A S V L V M L A L G Y P | | | |
| UniRef90_A9X7L3 | D W L I T V P L Q I I E F Y L I T N V T S S L F W K L L V I A S V L V M L V F G F I | | | |
| UniRef90_UP1000465AA0B | T V P L L L V E V I A V L A L A K A A A S S S L I S R L V P A S A A M I A L G Y P | | | |
| UniRef90_Q2Q0F3 | D W L I T V P L Q V V E F Y L I M A A I G V G T F A L M G A S I V M L V A G F F | | | |
| UniRef90_UP1000365356F | D W L I T V P L L L V E V I A V L A A S S S L I S R L V P A S A A M I A L G Y P | | | |
| UniRef90_K8F6P9 | E W M F T T P I L I V L A L A Q L Q A V I S F P E M Y L S V V L D E F M L M F G I L | | | |
| UniRef90_Q7NP59 | D V P L L L V E T V A V L T L P A K E A R P L L L I K L T V A S V L V M I A T G Y P | | | |
| UniRef90_UP1000363A45B | D W L T V P L L L V E V I A V L E V I S V R S L L I M R L V P A S A A M I A L G Y P | | | |
| UniRef90_S6EFS5 | G W F M S W P W P I V Q A S L L G N T P M W Q I A F N V G L A N T Y V V G M L I | | | |
| UniRef90_S5DM51 | D W V L T V P L M F V E V L A V T V G A A Y N E A V R N G I A A T V M I G A G Y Y | | | |
| UniRef90_D2CWB1 | D W L I T V P L L M L E F Y F V L A A D S G I F W R L M I G T L V M L V G G Y L | | | |
| UniRef90_C1MYB7 | E W A C T T P I L L L V F V F A A L P R A M R J A I L I A D E L M I I L C G L V | | | |
| UniRef90_Q00T7F | E W M M T T P V L L L I V A L C V G D E R T D M W C A C I A D E I M L I T G W L | | | |
| UniRef90_A8QLV9 | D W L I T V P L Q M V E F A A V T V V I S S G V F W R L L M I G S L V M L V A G Y M | | | |
| UniRef90_UP10004560755 | D W T I T T P L L L L S L L I I T P M P L L S S I W V V L F F D V L M V V C G L V | | | |
| UniRef90_G9AYC1 | D W L L T V P L L L V E V A L T A A V V S K S L I M R L V P A S A A M I A L G Y P | | | |
| UniRef90_B8NW50 | N W F L T N P L A L I N N A L L S G L P G A H L L V A I V A D W I M L G T G I L | | | |
| UniRef90_K8GTY7 | T V P L L L I E A V A V V A L A L A P Q V S R S R M V L R L A A A A V I M I A T G Y P | | | |
| UniRef90_Q2QAN9 | D W L T V P L Q I A E F Y L I L A A I G V A S V V L M L A S V V M L V A G F F | | | |
| UniRef90_U9W001 | D W L I T V P L L L V E A V A V A V L K V S K S L L L K L A A A A V I M I A T G Y P | | | |
| UniRef90_UP1000440F7EE | D W T I T P L L L L E L L A T G L P L S E I L I I I F M D L V M I V A G L | | | |
| UniRef90_A8QLY8 | D W I L T V P L M V E F F A L L T G V G M R K L F W A S V I M L V T G Y F | | | |
| UniRef90_D0RNG4 | T W L I A T P I M L Y T Y F V L T K L S R P I V I L T I S L N F L M I V S G Y F | | | |
| UniRef90_A4GJ77 | D W L I T V P L Q I I E F Y L I L R V N V S S G V F W R L L G A S L V M L I A G | | | |
| UniRef90_G8C0G2 | G W F L A F P W V M V Q L S I I G N T P L Q H I F F N V A S T E V F V V A W L I | | | |
| UniRef90_B2D039 | D W T I T V P L M C V E F Y F L I A G A K T G M L T R L L F G S I V M L V V A G Y I | | | |
| UniRef90_A8AJA2 | E W L I T C R V I L I H L S N I T G L A N D R T M G L L V S D I G T I V W G T T | | | |
| UniRef90_L1IMK0 | D W I L T W P L I T I L L A L I A G C E W T P V L G A I G G Q V V Q V F A Q Y M | | | |
| UniRef90_C4JFN8 | N W G L S F S I L V N L I A L L A G L N G A S L L I S V A A N I I M F V T G L I | | | |
| UniRef90_G0WAU5 | A W F L S Y P C L L F L L E L V S A L T D I I H S L L M M I A T E F W V V S L L V | | | |
| UniRef90_L1J1F0 | A Q L V T T P L I L L D L F L I T G A G F S T R V F M F F C N T M M T L C W M V | | | |
| UniRef90_C1EC80 | E W L F G T P V M I V Q L Y A I S R E P P V D Y V R L V Q A D V L M L V C G F I | | | |
| UniRef90_A5UXH7 | D W L I T V P L L L V E L V I T Q G Q R S G M I A R L V I A V L M I V L G Y P | | | |
| UniRef90_K1Y8S4 | D W V I T T P L L L D V V L L T A G L P W P T I L Y T T L L I D E V M I V T G L V | | | |
| UniRef90_Q104L4 | E W L I T C P V I L I H L S N L T G L K N K R T M R L L V S D V G T I V W G A T | | | |
| UniRef90_G0VBK8 | A W F L S W P L I L V F L L T E M T G M S I S E E G K L E E L N V I F W V V A L L | | | |
| UniRef90_L1JQI7 | Q W M I S T N I T L Y L L I R V A K A N K R I T F R V M A C N S L M I L S G L C | | | |
| UniRef90_A8J9Y9 | Q W L V T T P T M V Y I L S K I S D F T P R Q T A T A I G L D V L M V L S G L V | | | |
| UniRef90_F6LYG7 | D W L I T V P L M C T E F Y F L L A G A S L N M L W R L I G Y A V L M L V A G Y I | | | |
| UniRef90_A0A022TG42 | D W V I T T P L L L D V V L L T A G L P W P T I L Y T T L L I D E V M I V T G L V | | | |
| UniRef90_G0YCT6 | E W L I T C P V I L I H L S N L T G L K N K R T M R L L V S D V G T I V W G A T | | | |
| UniRef90_K5WTM2 | D W L I T V P L L L S L L L T G L S V S D I L T T L F M S E V V V I C G L V | | | |
| UniRef90_A7TJD8 | G W F L A F P W P I I Q A S L G N T P W H M A E N V A M V E V F V V C W L I | | | |
| UniRef90_S9WYX9 | Q W M I N F P L V I S S I F Y L A G V S F M R T V V T V F H I W L C F A C L L | | | |
| UniRef90_G0YQ99 | D W L I T V P L L L V E L A L A K K V Q S Q L L V R L I P A S A A M I I L G Y P | | | |
| UniRef90_M9LVB0 | D W A L T T P L L L F D L T L L A G L P V A E Q W G H T Y L W A V F F I M A G F | | | |
| UniRef90_G8JMK3 | A W F L G F P L V L F E F G V V V A A A S T A H S F S L I V L T E F F I V G L L A | | | |
| UniRef90_X2G0E2 | N W L I D V P M L L F Q I L F V V T L T K S K V S S V W F S G A M M I I T G Y I | | | |
| UniRef90_D2CWB5 | T V P Q I V E F Y L I L A A V T A V S G R V F W R L L I A S V M L V I G G Y L | | | |
| UniRef90_G3XUK3 | N W V V A F P S L A L A G L V S G V S W T T M C N A L A C Y W V T S Y L V | | | |
| UniRef90_L1J207 | S W L C T C P I M L S N M A L V V K Y K S I P L N P M M I A A S S I C T V F G L T | | | |
| UniRef90_M1PA51 | A W L S C P V I L I H L S N L T G L K G D R T M G L L V S D I G T I V F G T S | | | |

130 140 150 160

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| UniRef90_Q4PB84 | □ G S L V E S T Y K W G Y Y T M G C V A M F Y V F W V I Y G G □ K S A S H □ L G A | |
| UniRef90_W9X1P8 | G A L V K S S Y | |
| UniRef90_B2D015 | G E V S A K □ L G Q N F D W G V I S T □ G W A G I V Y E □ F F G E A K Q A N □ V R K | |
| UniRef90_G4XT38 | | |
| UniRef90_D8UEE2 | A N F A P G P Y □ N W L M F S V S M L S F V G V L Y M M G R | |
| UniRef90_M0E6A6 | A A L T S E P A R Y A L F A L A T L S L V G L F A L L I D R Q G A G S □ R S A | |
| UniRef90UPI00039C8083 | G E T Q V I S S T □ I G F V G G M L F W G L A L K E I W S G E A A E A N A G S | |
| UniRef90_U1Q194 | A T L M K F A F W T I S T I A M L V L L Y L V A V F G D A □ V S G S D P D T □ V S | |
| UniRef90_A8QLV0 | G E T G M M S P L M G F V L S M A A W F Y V I W Y I I K G E A S K A N P N V Q K | |
| UniRef90_A1YC70 | G E A G Y M N V T L G F V I G M V G W I Y I L Y E V F A G E A S K A S E E V R S | |
| UniRef90_Q5UXY6 | A T L S A G S G V L S A G A F L L V L Y L F L F S S L S G R V A N L P S D T R S | |
| UniRef90_D2CWD5 | G E T G G N A M V C G V I A T L A W L Y I Y E V F S G L □ N A S S G N A A A Q S | |
| UniRef90_K0KNN8 | G S L I K S T Y K W G Y W T F G V S A Q I F T I | |
| UniRef90_C5FY44 | G A L V P N T Y K W A Y F V Y G F F A C T A L G W T M L K A G Y S H P S □ L K K | |
| UniRef90_A8QLV6 | G E A G Y I S A W L G F V I G M V G W A Y I L Y E I F L G E A N E A P E S V K S | |
| UniRef90_G0VB63 | UniRef90_C0K2L4 | G S L I K S T Y K W G Y W V F G C V A M L L V E Y I F I K R Q F I D □ R I R G |
| UniRef90_F1D6U4 | G E I S A D D G T K I L W G V L I S T □ P F L Y I L Y V L F V E E R Q P A G V A A | |
| UniRef90_Q5V0R5 | G A S T Q A Y Y F M A W G Y G I L L D N G Q A W H T D G K H L F W D E D S K N T G | |
| UniRef90_G5ZZ13 | A T L M K V P V A R I S T I A M L F V L Y Y L V V V V G E A A S D A S E E A Q S | |
| UniRef90_A4G152 | G E A G Y M N V T L G F V I G M V G W A Y I L Y E I F A G E A G H A K P S V Q S | |
| UniRef90_A7U0U1 | G E V L V D T N Q | |
| UniRef90_A7TRM3 | A T L M K I P T A R F A F W T I S T V A M L F L L Y F L V A T V E T S E E A Q S | |
| UniRef90_D5BNH6 | A S V V H S T Y K W G Y F V F G I A G A L V A S L S V L T T T R N L V K P I G R | |
| UniRef90_A1YEK4 | G E V G Y M G A W L G F I I G M A G W A Y I L Y E I F V G E A S R I S A E V K S | |
| UniRef90_J9YYL2 | G F M G E T G S N E L I C F V V G M A G W L Y I Y E V F G E A G K M A A D V Q S | |
| UniRef90_A1YC63 | G E A G Y I N L W A G F I V G M A G W A Y I L Y E V F A G E A G K M A A D V Q S | |
| UniRef90_U1QNI9 | G E A F A A Q P □ Y R I A W W G I S T A A L L V L L Y V L A G T □ K T A A A N Q S | |
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| UniRef90_Q6FM12 | A A C V H S T Y K W G Y M T I G C G G | |
| UniRef90_F3KGJ7 | G A A G Y M S A T L G F I I G V V G W L Y I L G E L Y M G E A G R A N A D S G N | |
| UniRef90_M0LV62 | A T F A S T P | |
| UniRef90_J9H7H8 | G E I S T D N N T K V L W G V L I S T □ P F L Y I L Y V L F V E L S K S □ D R Q P | |
| UniRef90_J9YVF5 | G E | |
| UniRef90_D2Y5K1 | G E A F A A T T H S □ M W G F I S T □ G W A G I V Y E A T M G S V A D A H □ L Q R | |
| UniRef90_A8QLX6 | G E A G Y M Q P F V G F V I G M A G W I Y I L F E I F S G E A G T □ L A K A G N | |
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| UniRef90_L1J1F0 | G A F V S T P S R W G F W V F G C L P M I G I L P T A A A R Q G R S T R K | |
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210 220

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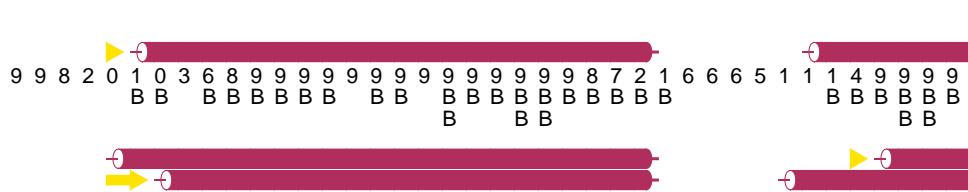
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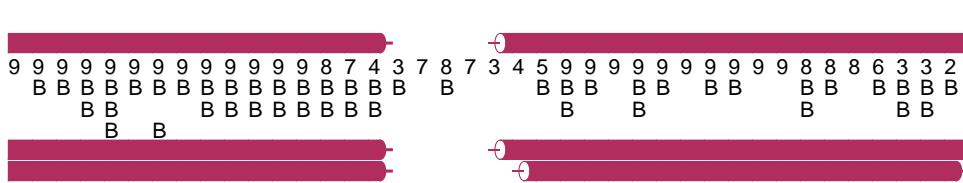
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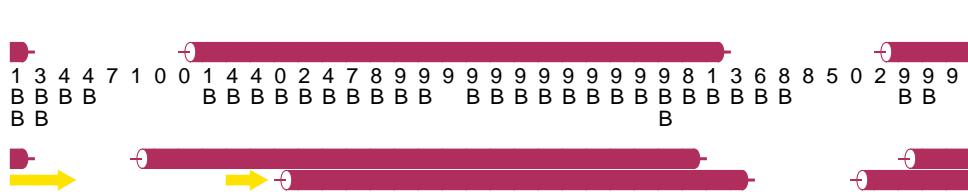
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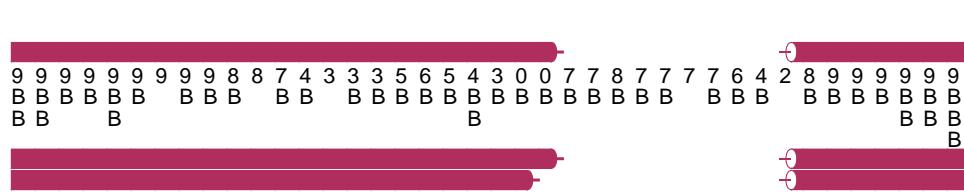
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