

| QUERY | 1 | 10 | 20 | 30 | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|----|----|----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UniRef90_Q4KD17 | M | D | I | N | G | G | G | A | T | L | P | Q | A | L | Y | Q | T | S | G | V | L | T | A | G | F | F | P | Y | I | G | V | G | S | G | N | G | G | K | A | A | F | F | | | | | | | |
| UniRef90_Q02H10 | D | I | N | G | G | G | A | T | L | P | Q | A | L | Y | Q | T | S | G | V | L | T | A | G | F | F | P | Y | I | G | V | G | S | G | N | G | G | K | A | A | F | F | | | | | | | | |
| UniRef90_Q2JMI7 | I | T | I | N | G | A | G | A | T | F | P | A | P | L | Y | Q | T | W | A | K | N | P | N | L | L | Q | Q | V | V | I | V | G | S | G | G | A | G | G | R | A | A | R | F | F | | | | | |
| UniRef90_UPI0003767C86 | V | R | L | T | G | A | G | A | S | F | F | A | P | L | Y | Q | T | W | F | K | Y | P | N | L | L | Q | Q | V | V | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | | | |
| UniRef90_H8Z867 | Q | L | T | T | G | A | G | A | S | F | F | A | P | L | Y | Q | T | W | A | K | N | P | N | L | L | Q | Q | V | V | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | | | |
| UniRef90_W0DF21 | L | E | I | S | L | T | G | A | G | A | S | F | F | A | P | L | Y | M | G | K | W | K | E | T | H | K | V | V | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | | | | |
| UniRef90_L8N0X7 | L | I | S | L | T | G | A | G | A | S | F | F | A | P | L | Y | Q | R | W | F | K | Y | P | N | L | L | Q | Q | V | V | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | | |
| UniRef90_X5JW85 | M | E | I | T | T | G | A | G | A | T | F | P | A | P | L | Y | Q | R | W | F | K | Y | P | N | L | L | Q | Q | V | V | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | | |
| UniRef90_D3SNV5 | V | S | I | S | G | A | G | A | S | F | F | A | P | L | Y | Q | R | W | F | A | N | P | N | L | L | Q | Q | V | V | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | | | |
| UniRef90_UPI00047BAA97 | V | R | L | T | G | A | G | A | S | F | F | A | P | L | Y | Q | T | W | F | K | Y | P | N | L | L | Q | Q | V | V | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | | | |
| UniRef90_UPI0002E5AE8B | V | S | L | T | G | A | G | A | S | F | F | A | P | L | Y | Q | T | W | F | K | Y | P | N | L | L | Q | Q | V | V | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | | | |
| UniRef90_F7USL4 | V | S | L | T | G | A | G | A | S | F | F | A | P | L | Y | Q | T | W | F | K | Y | P | N | L | L | Q | Q | V | V | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | | | |
| UniRef90_K9R7S6 | T | S | L | T | D | G | A | G | A | S | F | F | R | L | Y | E | R | W | A | K | Y | T | P | N | L | L | R | V | V | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | | | |
| UniRef90_I0DTN2 | T | S | L | T | G | A | G | A | T | F | F | A | P | L | Y | A | K | W | A | K | E | T | G | N | L | L | R | V | V | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | | | |
| UniRef90_Q7NIZ8 | V | T | L | T | G | A | G | A | T | F | F | A | P | L | Y | Q | R | W | A | K | A | N | P | N | L | L | Q | Q | V | V | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | | |
| UniRef90_B5YH76 | N | G | A | G | A | S | F | F | P | Y | P | L | Y | S | S | W | A | K | E | T | G | L | Q | I | N | N | Y | Q | S | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | | | |
| UniRef90_UPI00034690A3 | D | E | I | T | T | G | A | G | A | S | F | F | A | P | L | Y | A | K | W | A | K | A | T | G | A | R | I | N | N | Y | Q | S | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | |
| UniRef90_A6GMR3 | V | A | L | T | G | A | G | A | S | F | F | A | P | L | Y | Q | N | W | F | V | Q | K | L | K | V | V | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | | | | | | |
| UniRef90_Q4C6Z0 | R | L | S | T | G | A | G | A | S | F | F | A | P | L | Y | Q | R | W | A | K | A | N | P | N | L | L | Q | Q | V | V | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | | |
| UniRef90_K9S3H7 | V | R | L | T | G | A | G | A | S | F | F | A | P | L | Y | Q | R | W | F | A | N | P | N | L | L | Q | Q | V | V | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | | | |
| UniRef90_E0UFA1 | L | T | L | T | G | A | G | A | T | F | F | A | P | L | Y | Q | N | W | F | V | L | P | M | L | Q | Q | V | V | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | | | | |
| UniRef90_UPI00034D4AE1 | T | I | T | S | G | A | G | A | T | F | F | A | P | L | Y | G | K | W | A | N | Q | T | G | A | R | I | N | N | Y | Q | S | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | |
| UniRef90_Q5NNN9 | V | A | I | T | A | A | G | A | S | F | F | A | P | L | Y | Q | R | W | F | Q | N | P | K | V | Q | I | N | N | Y | Q | S | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | |
| UniRef90_UPI000368921C | T | I | T | T | G | A | G | A | S | F | F | A | P | L | Y | A | K | W | A | A | T | G | N | Q | R | I | N | N | Y | Q | S | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | |
| UniRef90_F5UNV3 | D | V | T | T | G | A | G | A | S | F | F | Y | P | V | L | S | K | W | S | Q | D | Y | G | N | R | I | N | N | Y | Q | S | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | |
| UniRef90_R7IAE6 | D | M | T | T | G | A | G | A | T | F | F | Y | P | V | I | A | K | W | A | A | N | T | G | N | G | L | N | N | Y | Q | S | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | |
| UniRef90_U7DIL2 | K | I | S | G | A | G | A | T | F | F | A | P | L | Y | Y | E | W | A | K | A | T | G | V | E | S | V | V | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | | | | | |
| UniRef90_A0A031GKT8 | D | I | S | G | A | G | A | T | F | F | Y | P | V | Y | A | R | W | A | K | A | T | G | T | N | R | V | I | N | N | Y | Q | S | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | |
| UniRef90_A6Q2I7 | T | I | N | G | A | G | A | T | F | F | Y | P | V | Y | V | K | W | A | K | A | T | G | N | R | V | I | N | N | Y | Q | S | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | |
| UniRef90_W9GY51 | K | I | N | G | A | G | A | T | F | F | Y | P | V | Y | S | A | K | W | A | K | E | H | P | G | V | N | N | N | Y | Q | S | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | |
| UniRef90_UPI0003B3DA7C | D | I | N | G | A | G | A | T | F | F | Y | P | V | Y | S | R | W | I | D | E | P | N | V | R | I | N | N | Y | Q | S | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | | |
| UniRef90_UPI00047D535E | N | L | T | G | A | G | A | T | F | F | P | D | P | L | Y | Q | R | W | S | V | A | P | G | V | N | I | N | N | Y | Q | S | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | |
| UniRef90_UPI00036A2A1D | I | N | G | A | G | A | T | F | F | Y | P | V | Y | V | A | K | W | A | K | A | T | G | V | K | V | V | I | N | N | Y | Q | S | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | |
| UniRef90_D5WV29 | D | V | T | T | G | A | G | A | S | F | I | Y | P | V | M | S | K | W | S | K | A | T | G | K | Q | V | V | I | N | N | Y | Q | S | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F |
| UniRef90_D1C745 | T | L | T | G | A | G | A | T | F | F | Y | P | V | Y | S | K | W | A | A | H | P | G | V | E | S | V | V | I | N | N | Y | Q | S | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F |
| UniRef90_F0S449 | L | I | N | G | A | G | A | T | F | F | Y | P | V | Y | S | A | W | A | K | E | T | G | V | R | L | N | N | Y | Q | S | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | | |
| UniRef90_UPI00047EEB4D | D | M | T | T | G | A | G | A | T | F | F | Y | P | V | Y | A | K | W | A | A | A | T | G | N | G | L | N | N | Y | Q | S | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | |
| UniRef90_UPI00047B296C | E | V | S | G | A | G | A | S | F | I | F | P | L | V | S | K | W | S | A | D | Y | G | A | K | I | N | N | Y | Q | S | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | | |
| UniRef90_Q1IMC4 | E | I | T | T | G | A | G | A | S | F | F | A | P | L | Y | S | K | W | A | K | A | T | G | V | K | V | I | N | N | Y | Q | S | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | |
| UniRef90_D3PBC0 | T | L | T | G | A | G | A | T | F | F | Y | P | V | Y | S | A | W | A | K | E | T | G | V | R | L | N | N | Y | Q | S | I | V | G | S | G | G | A | G | G | V | E | R | A | R | F | F | | | |
| UniRef90_UPI00036580B3 | D | M | T | T | G | A | G | A | T | F | F | Y | P | V | Y | A | K | W | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| QUERY | | 50 | 60 | 70 | 80 | | | | | |
|------------------------|---|--------------|-----|-------|----|--------|-------|--------|-----|------------|
| UniRef90_Q4KD17 | L | NNDYTKFVAAGT | V | TNKNV | H | WAGS | DDSKL | LSAT | EEL | STYASAKQP |
| UniRef90_Q02H10 | L | NNDYTKFVAAGT | V | TNKNV | H | WAGS | DDSKL | LSAT | EEL | KGYEDNHQAS |
| UniRef90_Q2JMI7 | L | NNDYTKFVAAGT | V | TNKNV | H | WAGS | DDSKL | LSAT | EEL | NYLSSAHGS |
| UniRef90_UPI0003767C86 | I | V | KGI | ART | V | DFGASD | V | AMKDEE | EEI | NQLENEANPP |
| UniRef90_H8Z867 | I | I | I | AET | V | DFGASD | V | AMKDEE | EEI | KKVP |
| UniRef90_W0DF21 | I | I | I | RTV | V | DFGASD | V | AMKDEE | EEI | AKVP |
| UniRef90_L8N0X7 | I | I | I | AGT | V | DFGASD | V | AMKDEE | EEI | AKVTKG |
| UniRef90_X5JW85 | I | I | I | TAGT | V | DFGASD | V | AMKDEE | EEI | AKVD |
| UniRef90_D3SNV5 | I | I | I | TNRT | V | DFGASD | V | AMKDEE | EEI | EKNK |
| UniRef90_UPI00047BAA97 | L | L | L | AQT | V | DFGATD | V | AMKDEE | EEI | QKFP |
| UniRef90_UPI0002E5AE8B | I | I | I | T | V | DFGASD | V | AMKDEE | EEI | QKVP |
| UniRef90_UPI0002E5AE8B | I | I | I | T | V | DFGASD | V | AMKDEE | EEI | QKVP |
| UniRef90_UPI0002E5AE8B | I | I | I | T | V | DFGASD | V | AMKDEE | EEI | QKVP |
| UniRef90_F7USL4 | I | I | I | KT | V | DFGASD | V | AMKDEE | EEI | AKVNRG |
| UniRef90_K9R7S6 | I | I | I | TAGT | V | DFGASD | V | AMKDEE | EEI | EKIDRG |
| UniRef90_I0DTN2 | I | I | I | NAKT | V | DFGASD | V | AMKDEE | EEI | AKVNRG |
| UniRef90_Q7NIZ8 | I | I | I | QAKT | V | DFGASD | V | AMKDEE | EEI | AKVNRG |
| UniRef90_B5YH76 | I | I | I | TER | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_UPI00034690A3 | I | I | I | KAKT | V | DFGASD | V | AMKDEE | EEI | AKVNRG |
| UniRef90_A6GMR3 | I | I | I | KAKT | V | DFGASD | V | AMKDEE | EEI | AKVNRG |
| UniRef90_Q4C6Z0 | I | I | I | T | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_K9S3H7 | I | I | I | QGT | V | DFGASD | V | AMKDEE | EEI | AKVNRG |
| UniRef90_E0UFA1 | I | I | I | QGT | V | DFGASD | V | AMKDEE | EEI | AKVNRG |
| UniRef90_UPI00034D4AE1 | I | I | I | TRGT | V | DFGASD | V | AMKDEE | EEI | AKVNRG |
| UniRef90_Q5NNN9 | I | I | I | QAKT | V | DFGASD | V | AMKDEE | EEI | AKVNRG |
| UniRef90_UPI000368921C | I | I | I | QAKT | V | DFGASD | V | AMKDEE | EEI | AKVNRG |
| UniRef90_F5UNV3 | I | I | I | T | V | DFGASD | V | AMKDEE | EEI | EKHK |
| UniRef90_R7IAE6 | I | I | I | AGT | V | DFGASD | V | AMKDEE | EEI | EKHK |
| UniRef90_U7DIL2 | I | I | I | KAA | V | DFGASD | V | AMKDEE | EEI | EKHK |
| UniRef90_A0A031GKT8 | I | I | I | KAKT | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_A6Q2I7 | I | I | I | ISART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_W9GY51 | I | I | I | IKERT | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_UPI0003B3DA7C | I | I | I | VTDR | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_UPI00047D535E | I | I | I | VTSG | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_UPI00036A2A1D | I | I | I | IKAQ | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_D5WV29 | I | I | I | ISK | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_D1C745 | I | I | I | ISK | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_F0S449 | I | I | I | ISK | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_UPI00047EEB4D | I | I | I | VTERT | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_UPI00047B296C | I | I | I | IKAGT | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_UPI00047B296C | I | I | I | IKAGT | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_Q1IMC4 | I | I | I | VT | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_D3PBC0 | I | I | I | VT | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_UPI00036580B3 | I | I | I | VT | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_UPI0001D2E048 | I | I | I | VT | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_B2FIF2 | I | I | I | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_C9YA93 | I | I | I | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_A0A038GZ61 | I | I | I | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_UPI00038036E7 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_I5CFN9 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_A0A059KR62 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_F8ABT9 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_I3Y7P0 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_D0J246 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_K9PEU8 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_F8JBE0 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_U1X7M4 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_H0A4Q7 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_S7UVB9 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_UPI00047DBC7A | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_F1W4S9 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_W3RLY5 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_A9W942 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_M7D2M9 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_UPI00036D11D7 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_R7UZS5 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_H1XRY5 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_D0L1P7 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_W0Q5L5 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_Q8YJN0 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_D7A0I8 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_UPI0003798FE7 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_UPI00036D4E16 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_UPI0002E070CE | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_B3QD93 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_Q3KBE4 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_X7YJF9 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_Q39ML8 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_F4QMY8 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_Q7U3C5 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
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| UniRef90_I4XVK8 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_Q3SVB8 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_UPI0004679D7E | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_S3ZAX3 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
| UniRef90_K9V478 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
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| UniRef90_C9NVK7 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |
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| UniRef90_Q2JHD8 | L | L | L | IKART | V | DFGASD | V | AMKDEE | EEI | EKAG |

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| QUERY | R | I | N | T | W | D | G | L | S | G | S | G | R | T | G | A | V | V | V | Y | R | N | S | E | S | S | G | G | T | T | T | E | L | F | T | R | F | F | L | N | A | K | C | C | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UniRef90_Q4KD17 | R | V | S | K | W | E | Q | L | P | G | S | G | R | S | G | A | I | T | V | V | Y | R | N | S | E | S | S | G | G | T | T | T | E | L | F | T | R | F | F | L | N | A | K | C | C |
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| UniRef90_Q2JMI7 | K | L | K | N | W | Q | D | P | L | L | A | G | P | N | Q | P | I | T | V | V | H | R | R | S | D | D | G | S | G | T | T | T | D | A | V | F | F | T | K | H | L | L | S | S | |
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| UniRef90_H8Z867 | K | L | T | T | W | Q | D | P | K | I | A | A | P | N | Q | P | I | T | V | V | H | R | R | S | D | D | G | S | G | T | T | T | D | A | V | F | F | T | K | H | L | L | S | S | |
| UniRef90_W0DF21 | K | I | T | R | W | Q | D | P | N | V | K | L | P | D | R | P | I | T | V | V | H | R | R | S | D | D | G | S | G | T | T | T | W | I | V | F | F | T | N | W | L | L | S | S | |
| UniRef90_L8N0X7 | K | I | T | K | W | N | D | P | A | I | A | L | P | D | T | A | I | S | V | V | S | R | R | S | D | D | G | S | G | T | T | T | G | V | F | F | T | K | H | L | L | S | S | | |
| UniRef90_X5JW85 | K | I | K | K | W | N | D | H | P | G | V | N | L | P | D | R | I | T | L | V | V | H | R | R | S | D | D | G | S | G | T | T | T | S | F | V | F | F | T | K | H | L | L | S | S |
| UniRef90_D3SNV5 | K | I | T | K | W | N | D | P | G | V | N | R | L | P | D | R | I | T | V | V | H | R | R | S | D | D | G | S | G | T | T | T | S | F | V | F | F | T | K | H | L | L | S | S | |
| UniRef90_UPI00047BAA97 | D | I | K | T | W | N | D | P | G | V | N | L | P | N | T | P | I | S | F | I | H | R | R | S | D | D | G | S | G | T | T | T | F | V | F | F | T | N | H | L | L | S | S | | |
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| UniRef90_F7USL4 | K | I | T | K | W | N | D | P | K | I | A | L | P | D | R | P | I | T | V | V | H | R | R | S | D | D | G | S | G | T | T | T | A | V | F | F | T | M | N | L | L | S | S | | |
| UniRef90_K9R7S6 | K | I | T | K | W | N | D | A | A | N | P | G | V | N | L | P | I | T | V | V | H | R | R | S | D | D | G | S | G | T | T | T | A | V | F | F | T | K | H | L | L | S | S | | |
| UniRef90_I0DTN2 | K | I | T | K | W | N | D | P | A | I | A | L | P | D | L | A | I | A | V | V | R | R | R | A | D | D | G | S | G | T | T | T | F | V | F | F | T | S | R | H | L | L | S | S | |
| UniRef90_Q7NIZ8 | K | I | K | N | W | N | D | P | K | I | A | A | P | D | L | A | I | T | V | V | H | R | R | A | D | D | G | S | G | T | T | T | G | V | F | F | T | R | H | L | L | S | S | | |
| UniRef90_B5YH76 | E | I | T | K | W | N | D | P | K | I | A | A | P | D | Q | P | I | T | V | V | H | R | R | S | D | D | G | S | G | T | T | T | S | I | L | F | F | T | H | Y | L | L | S | S | |
| UniRef90_UPI00034690A3 | K | V | T | K | W | N | D | P | A | I | A | L | P | D | A | Q | I | A | V | V | H | R | R | A | D | D | G | S | G | T | T | T | S | F | L | F | F | T | N | Y | L | L | S | S | |
| UniRef90_A6GMR3 | K | I | T | K | W | N | D | P | G | V | N | L | P | D | Q | D | I | A | S | V | I | R | R | A | D | D | G | S | G | T | T | T | S | F | L | F | F | T | N | Y | L | L | S | S | |
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| UniRef90_K9S3H7 | E | I | T | K | W | N | D | P | K | I | A | A | P | D | R | I | S | F | I | H | R | R | A | D | D | G | S | G | T | T | T | F | I | F | F | T | N | H | L | L | S | S | | | |
| UniRef90_E0UFA1 | E | I | T | N | W | N | D | P | K | I | A | L | P | D | L | P | I | T | V | V | H | R | R | A | D | D | G | S | G | T | T | T | A | V | F | F | T | Q | H | L | L | S | S | | |
| UniRef90_UPI00034D4AE1 | T | I | T | R | W | N | D | P | K | I | V | A | D | N | P | D | L | T | V | V | H | R | R | S | D | D | G | S | G | T | T | T | G | V | F | F | T | K | H | L | L | S | S | | |
| UniRef90_Q5N9N9 | K | I | T | R | W | N | D | P | R | I | A | S | L | N | P | P | I | T | V | V | H | R | R | A | D | D | G | S | G | T | T | T | S | F | Q | F | F | T | S | Y | L | L | S | S | |
| UniRef90_UPI000368921C | K | I | K | K | W | N | D | P | G | V | T | L | P | D | Q | A | I | T | V | V | H | R | R | A | D | D | G | S | G | T | T | T | W | I | F | F | T | N | Y | L | L | S | S | | |
| UniRef90_F5UNV3 | K | I | T | N | W | N | D | P | K | I | A | A | N | P | A | I | T | V | V | H | R | R | S | D | D | G | S | G | T | T | T | A | V | F | F | T | K | H | L | L | S | S | | | |
| UniRef90_R7IAE6 | K | I | K | M | W | N | D | P | G | L | K | L | P | A | S | P | I | T | V | V | H | R | R | A | D | D | G | S | G | T | T | T | F | L | F | F | T | D | Y | L | L | S | S | | |
| UniRef90_U7DIL2 | E | I | T | V | W | N | D | P | A | I | V | A | L | N | P | G | M | T | V | V | H | R | R | A | D | D | G | S | G | T | T | T | S | Y | I | F | F | T | N | Y | L | L | S | S | |
| UniRef90_A0A031GKT8 | K | I | T | K | W | S | A | P | E | I | A | A | P | D | T | E | I | T | V | V | H | R | R | A | D | D | G | S | G | T | T | T | S | F | L | F | F | T | D | F | L | L | S | S | |
| UniRef90_A6Q2I7 | K | I | Q | F | W | D | D | P | G | V | K | L | P | H | K | K | I | V | V | H | R | R | A | D | D | G | S | G | T | T | T | F | N | F | F | T | Y | L | L | S | S | | | | |
| UniRef90_W9GY51 | T | I | E | T | W | D | D | P | A | I | K | A | P | D | L | A | I | A | P | I | Y | R | R | A | D | D | G | S | G | T | T | T | N | F | F | F | T | N | Y | L | L | S | S | | |
| UniRef90_UPI0003B3DA7C | K | V | R | Y | W | N | D | P | E | I | K | K | D | N | Q | P | I | T | V | L | H | R | S | E | G | S | G | T | T | T | W | N | F | F | T | Y | W | L | L | S | S | | | | |
| UniRef90_UPI00047D535E | E | I | N | N | W | S | D | P | G | V | K | L | P | D | L | A | I | V | V | A | H | R | R | S | D | D | G | S | G | T | T | T | Y | I | F | F | T | D | Y | L | L | S | S | | |
| UniRef90_UPI00036A2A1D | K | E | K | T | W | D | D | P | A | I | K | L | P | S | A | I | A | V | V | H | R | R | S | D | D | G | S | G | T | T | T | I | N | F | F | T | N | Y | L | L | S | S | | | |
| UniRef90_D5WV29 | R | I | T | K | W | N | D | P | R | I | V | A | L | N | P | N | I | V | V | V | H | R | R | S | D | D | G | S | G | T | T | T | N | M | F | F | T | D | Y | L | L | S | S | | |
| UniRef90_D1C745 | Q | I | T | T | W | N | D | P | A | I | A | A | P | D | Q | R | I | T | V | V | Y | R | S | E | G | S | G | T | T | T | A | I | F | F | T | S | Y | L | L | S | S | | | | |
| UniRef90_F0S449 | K | I | K | Y | W | N | E | E | I | K | L | P | H | Q | R | V | I | T | V | V | H | R | R | S | E | G | S | G | T | T | T | W | N | F | F | S | Y | W | L | L | S | S | | | |
| UniRef90_UPI00047EEB4D | K | V | R | K | W | N | D | P | A | I | Q | L | P | D | K | K | I | T | V | V | H | R | R | S | D | D | G | S | G | T | T | T | F | N | F | V | N | Y | L | L | S | S | | | |
| UniRef90_UPI00047B296C | K | I | T | S | W | N | D | P | G | V | K | L | P | D | Q | N | I | V | V | H | R | R | S | D | D | G | S | G | T | T | T | F | I | F | F | T | S | D | Y | L | L | S | S | | |
| UniRef90_Q1IMC4 | K | I | S | N | W | N | D | K | A | I | A | A | P | D | Q | N | I | V | I | H | R | R | S | D | D | G | S | G | T | T | T | Y | I | F | F | T | D | F | L | L | S | S | | | |
| UniRef90_D3PBC0 | K | I | T | K | W | N | D | P | G | V | K | L | P | D | A | K | I | T | V | V | H | R | R | S | D | D | G | S | G | T | T | T | A | I | F | F | T | K | Y | L | L | S | S | | |
| UniRef90_UPI00036580B3 | E | I | T | K | W | N | A | P | G | L | K | L | P | D | A | D | I | T | V | V | H | R | R | A | D | D | G | S | G | T | T | T | S | F | L | F | F | T | D | W | L | L | S | S | |
| UniRef90_UPI0001D2E048 | E | I | A | R | W | D | A | A | I | A | L | N | P | P | I | V | V | V | H | R | R | S | D | D | G | S | G | T | T | T | F | L | C | F | F | T | D | Y | L | L | S | S | | | |
| UniRef90_B2FIF2 | K | V | K | T | W | N | D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

QUERY NA E T G N F A V T T T F G T S F S G G L P A G A V A A T G S Q Q G V M T A L L A A
UniRef90_Q4KD17 A E T G T F A V T T T N F A S S Y S G G L P A G A V A A T G S Q Q G V M D A L L A N A
UniRef90_Q02H10 S S E G G T F A V T T T S F G S S F S G G L P A G A V V S A R Q G S Q Q G V M S E Q I T K Q
UniRef90_Q2JMI7 P E W K S K V G D G K S V N W P V G V V G A K G N E G V T A Q I T K Q
UniRef90_UPI0003767C86 D E F K K D W K S K V G H G K S V D W P K S F V V G A P K N E D D G V T A A M I V K Q
UniRef90_H8Z867 P E W K E K V G F G T S V K W P T G V V G A K G N E G V T A N Y I V K R R Q
UniRef90_W0DF21 A D W K A G P G W K S S V G S G K A V N W P T G V I G A K G N E G V T A A Q I V K Q
UniRef90_L8N0X7 S E W K S S V G S G K A V N W P T G V I G A K G N E G V T A N Y I V K R R Q
UniRef90_X5JW85 P E W K E K V G G A G T A V N W P T G V I G A K G N E G V T A N Y I V K R R Q
UniRef90_D3SNV5 P Q W Q A G A A K S V S W P T G V L G A R G N E G V T A Q V V Q Q Q
UniRef90_UPI00047BAA97 P E W K S K V G E G K T S W P V G V V G A K G N E G V T A Q V V Q Q Q
UniRef90_UPI0002E5AE8B P E F K E T I G D G K T V E W P T S K G K F I V G G K G N E G V T A G I V Q Q Q
UniRef90_F7USL4 P D W K S G P G E G K T V S W P T G I V G A K G N E G V T A Q V V K Q Q
UniRef90_K9R7S6 S S W K N D I G W K T K V G A G S T V N W P K N N V A G G K G N D D G V T A A Q V V K Q Q
UniRef90_I0DTN2 P E W K T K V G E G I A V K W P T G V V G G A K G N E D D G V T A A Q V V K Q Q
UniRef90_Q7NIZ8 K K W A D Q I G Y G T S V N W K T G V L V G G K G N E G V T A N Y V K R R
UniRef90_B5YH76 P E W K E K V G D G T A V N W P A G V L V G G K G N E G V T A N Y V K R R
UniRef90_UPI00034690A3 A D W K S T V G E G T A V K W P V G V G G K G N E G V T A S F V Q R
UniRef90_A6GMR3 P E W E A S I G Q G K S V E W P T N F I V G G K G N E G V T A S V I Q Q Q
UniRef90_Q4C6Z0 P N W S A G S G K S L E W P V G V G G K G N E G V T A Q V V Q Q Q
UniRef90_K9S3H7 D N W K S K I G A G K T V Q W P K T G K F I V G G A K G N E G V T A S I V Q Q Q
UniRef90_E0UFA1 P E W N T Q I G Q G T S V Q W G R Q G A T F L L G G R G N E G V T A I V I Q Q Q
UniRef90_UPI00034D4AE1 P E W T S R V G A S D A V Q W P I G L V G G K G N E D D G V T A A F V K Q Q
UniRef90_Q5NNN9 A D W K S K V G G N E A S V Q W P T G V L V G G K G N E D D G V T A A Q V V K Q R
UniRef90_UPI000368921C P D W K S S V G D G K T V Q W P T T G T F L L G A K G N E G V T A Q V V Q Q
UniRef90_F5UNV3 A D W K S K V G A G T A V K W P V G V G G K G N E G V T A A Y V V Q Q Q
UniRef90_R7IAE6 D G W K S K I G F G T A V P W P V G V G G K G N E G V T A S A Y V V K Q Q
UniRef90_U7DIL2 P E F K S K I G A G S A V K W A V G V V G G K G N E G V T A A N V K R R
UniRef90_A0A031GKT8 E E W A N N V G T G K A V D W P V G V G G K G N E G V T A S N L M K R
UniRef90_A6Q217 P E F K E Q V G S N T S V Q W P A G I I G A R G N E G V T A N Y V K R Q
UniRef90_W9GY51 P A W K S R I G Y G K V V R W P T G I I G A K G N A G V T N Y V K R Q
UniRef90_UPI0003B3DA7C T D W K N S V G R N T A V A W P K G I I G G K G N E G V T A G L V V Q R
UniRef90_UPI00047D535E A D W K A K V G E N T S V E W P A G I I G A K G N E G V T A N N V M Q Q
UniRef90_UPI00036A2A1D P T W N A Q V G M G T S V N W P L G V I G A K G S E G V T A A Y V K Q Q
UniRef90_D5WV29 E E W A S Q V G S G T A V Q W P V G V G G K G N E G V T A A Y V K Q Q
UniRef90_D1C745 P E W K D K V G S Y G K V N W P T G I I G A K G N A G V T A A Y V K Q Q
UniRef90_F0S449 P A W Q S T V G E G T S V K W P T G I I G G K G N E A G V A A Y V K Q Q
UniRef90_UPI00047EEB4D K E W N D G P K G T S L N W P Y G I I G G K G N E N V A S L V V Q R
UniRef90_UPI00047B296C P D W L Q V A G K G T A V K W P V G I I G G K G N E G V A G M I R R Q
UniRef90_Q1MPC4 D E W K N K V G T G K S V N W P V G I I G G K G N E G V A N Y V K R R
UniRef90_D3PBC0 P E F K A K I G A G T A V K W A V G V V G A K G N E G V T A A N V Q R T
UniRef90_UPI00036580B3 A E W K E T V G E N V A V D W P L G M V G A K G N E G V T A N N V A T
UniRef90_UPI0001D2E048 P E W K S K V G E G T S V Q W P D G V G G K G N E G V T A S Y V K Q
UniRef90_B2FIF2 A E W K S K V G E G T A V N W P V G G A V G G K G N E G V T A A F V A R R
UniRef90_C9YA93 P D W K S K V G E G T S V A W P T G V G G K G N E G V T A A Y V N R R
UniRef90_A0A038GZ61 S D W K D K V G A A N T V K W P T S A S G A A G G K G N E G V T S Y V G R
UniRef90_UPI00038036E7 P D W K S K V G E G T T V S W P T G T G G K G N D D G V T A A F V M R R
UniRef90_I5CFN9 A E W K A K A G E G T A V N W P T G A G G K G N E G V T A S F V M R R
UniRef90_A0A059KR62 K E W C E K V G H G K T V K W P V G M G G K G N P G V T A A Y I K K
UniRef90_F8ABT9 P D F A Q S V G V D M N P E W P Q A L K E R G G L V R G L G N G V T A A F I Q A
UniRef90_I3Y7P0 A E W K E K V G E G K A V N W P T G A V G G K G N E G V T A A F V G R
UniRef90_D0J246 G Y F K G R I G A N T A P S W T L P N V L K G K G N P G V T A S L V S R
UniRef90_K9PEU8 P E F K E N V G S N T S V Q F P V G V G L G A K G N E G V T A N N V M Q
UniRef90_F8JBE0 A D K W P K E K V G K S I K W D N V G T G A K G N E G V T A G Q V M Q N
UniRef90_U1X7M4 Q E F Q S K I G V G T S V R W P S G T G A R G N E G V T A G T V R N
UniRef90_H0A4Q7 P E W K D K V G C D T S V E W P V G I I G G K G N E G V T A N F T A R R
UniRef90_S7UVB9 P D W K A K V G E G T A V N W P T G A I I G G K G N E G V T A A F V G R
UniRef90_UPI00047DBC7A D E W K N A D W K T T V G A G T A V K W P V G V G G K G N E G V T A A N V Q R
UniRef90_F1W4S9 P E W K S K V G S N T A V E W P V G V G A K G N E G V T A G N V S Q
UniRef90_W3RLY5 E P W K K E F G A T T V S W P V G Q G G K G N E G V T A T V K Q
UniRef90_A9W942 E A W K S E V G E G K T V N W M S G N L G G K G N E G V T A S Y T G R
UniRef90_M7D2M9 P E W K Q K I G A N T S L N W P V G V G G K G N E G V T A A Y V Q R R
UniRef90_UPI00036D11D7 E T W K N E V G T N T D I T W P K A A T T I V G A N G N A G V T A N F V R R
UniRef90_R7UZS5 D E W K E K V G F G K A V A W P A S S V A G K G N E G V T A S F V K N
UniRef90_H1XRY5 P E W K E K V G E G K T V N W S K G N L G G K G N E G V T A S Y T D R Q
UniRef90_D0L1P7 S E W K S T V G E G K A V K W P K G H I G G K G N E G V T A A Y V R Q
UniRef90_W0Q5L5 P E W K S K V G E G K S V S W P V G V G G K G N E G V T A Q I K Q
UniRef90_Q8YNJ0 A D W K S N V G A A T S V Q W P A G A V G A K G N E G V T A G T V K N
UniRef90_D7A018 P E W K S K I G A G S T V N W P T G L G G K G N D G I A A F V Q R
UniRef90_UPI0003798FE7 P Y F R G R V G V G T A P K W T T N P L K G R G N A G V T A S T V Q R
UniRef90_UPI00036D4E16 P E W K T A A G A G T A V E W P R G P V G A S G N E G V T S L Y I G Q
UniRef90_UPI0002E070CE A D W K T K V G S G T A V E W P V G V G A K G N E G V T A G N V R Q
UniRef90_B3QD93 P T K F A T N S T F A S A R L P A G S T L P T T W V G V A G T A D V T A T Q V N A
UniRef90_Q3KBE4 N G T W G N G A G K K F N G G V G E G A S G S D G V T A A A V D S
UniRef90_X7YJF9 P E W K S K V G E G T T V N W P T G T G G K G N D D G V T A A F V Q R
UniRef90_Q39ML8 A E W S S K V G A S D A V N W P L G L G G K G N D D G V T A A F V K Q
UniRef90_F4QMY8 E E W K N G P G A A K S I K W P T G V G G K G N S G V T A A Q V L K Q
UniRef90_Q7U3C5 P A D W K H D P K S K S W L A P G G Q A A N G S S G V T A A Q V L K Q
UniRef90_B5H5K5 P A W N K E V G F G K V V N W P T G K G A K G N Q G V T N Y I K Q
UniRef90_UPI00046CA38B P W W S A E G P G I G K L I D W P G K A M T A R G N E G V T A Q R V K
UniRef90_I3Y7N4 P A S S N S F S T A V G F N P A T N A P A G S T Y V G V S G S G A I A S T V A N
UniRef90_I4XVK8 G E W K S K V G E G T A V E W P A G V G A K G N E G V T S G N V A N Q
UniRef90_Q3SVB8 A E W K A K V G E G T A V N W P L G A V G G K G N E G V T A A F V G R
UniRef90_UPI0004679D7E P S A W P Y E T G K S W E P K G G Q S A Q G S S G V T A A Q V K Q
UniRef90_S3ZAX3 P E W K S K V G D G K T V N W P T G V I G A K G N E G V T A Q I T Q
UniRef90_K9V478 P D F K S K V G S G T A V K W P T G V V G G K G N E G V T A A N V Q R
UniRef90_C3X855 P E W A S K V K F G T A V E W P T G V G G K G N E G V T S Q Y V R Q
UniRef90_M4NLX4 P E W K A K V G E G T S V Q W P G G V G G K G N E G V T A S Y V K Q
UniRef90_A0A021W168 P E W H E Q I G V G K D I T W P S K A T T I G G N G N A G V T A N F V R R
UniRef90_C9NVK7 P E W Q S K V G K G S S V S W P V G V I G A Q G N E G V T A T I K Q
UniRef90_UPI000479FD95 P N W T A G A G T S V E W P V G I I G A Q G N E G V T A T I K Q
UniRef90_Q2JHD8

| QUERY | G | D | G | R | I | T | Y | M | S | 210 | P | D | F | A | A | P | T | L | A | G | L | 220 | D | D | A | T | K | V | A | R | V | G | K | N | V | A | T | N | T | Q | G | V | 230 | V | A | N | T | Q | G | V | 240 |
|------------------------|---|---|---|---|---|---|---|---|---|-----|---|---|---|---|---|---|---|---|---|---|---|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|---|---|---|---|---|---|---|-----|
| UniRef90_Q4KD17 | G | D | G | R | I | T | Y | M | S | P | D | F | A | A | P | T | L | A | G | L | D | D | A | T | K | V | A | R | V | G | K | N | V | A | T | N | T | Q | G | V | V | A | N | T | Q | G | V | | | | |
| UniRef90_Q02H10 | A | Q | G | R | I | T | Y | M | S | P | D | F | A | A | P | T | L | A | G | L | D | D | A | T | K | V | A | R | V | G | K | N | V | A | T | N | T | Q | G | V | V | A | N | T | Q | G | V | | | | |
| UniRef90_Q2MI07 | I | P | G | S | I | G | Y | V | E | F | Y | A | A | K | Q | N | N | L | K | V | A | R | L | E | N | R | A | G | K | F | V | T | P | N | V | E | T | E | S | A | G | M | | | | | | | | | |
| UniRef90_UPI0003767C86 | N | Q | G | A | I | G | Y | V | E | F | Y | A | A | K | Q | N | N | L | K | V | A | R | L | E | N | R | A | G | K | F | V | T | P | N | V | E | T | E | S | A | G | M | | | | | | | | | |
| UniRef90_H8Z867 | T | S | P | G | A | I | G | Y | V | E | F | Y | A | A | K | Q | N | N | L | K | V | A | R | L | E | N | R | A | G | K | F | V | T | P | N | V | E | T | E | S | A | G | M | | | | | | | | |
| UniRef90_W0DF21 | S | Q | G | G | I | G | Y | V | E | F | Y | A | A | K | Q | N | N | L | K | V | A | R | L | E | N | R | A | G | K | F | V | T | P | N | V | E | T | E | S | A | G | M | | | | | | | | | |
| UniRef90_L8N0X7 | T | A | G | A | I | G | Y | V | E | F | Y | A | A | K | Q | N | N | L | K | V | A | R | L | E | N | R | A | G | K | F | V | T | P | N | V | E | T | E | S | A | G | M | | | | | | | | | |
| UniRef90_X5JW85 | T | E | G | S | I | G | Y | V | E | F | Y | A | A | K | Q | N | N | L | K | V | A | R | L | E | N | R | A | G | K | F | V | T | P | N | V | E | T | E | S | A | G | M | | | | | | | | | |
| UniRef90_D3SNV5 | T | S | E | G | G | I | G | Y | V | E | F | Y | A | A | K | Q | N | N | L | K | V | A | R | L | E | N | R | A | G | K | F | V | T | P | N | V | E | T | E | S | A | G | M | | | | | | | | |
| UniRef90_UPI00047BAA97 | T | Q | G | A | I | G | Y | V | E | F | Y | A | A | K | Q | N | N | L | K | V | A | R | L | E | N | R | A | G | K | F | V | T | P | N | V | E | T | E | S | A | G | M | | | | | | | | | |
| UniRef90_UPI0002E5AE8B | T | Q | G | A | I | G | Y | V | E | F | Y | A | A | K | Q | N | N | L | K | V | A | R | L | E | N | R | A | G | K | F | V | T | P | N | V | E | T | E | S | A | G | M | | | | | | | | | |
| UniRef90_F7USL4 | T | N | E | G | A | I | G | Y | V | E | F | Y | A | A | K | Q | N | N | L | K | V | A | R | L | E | N | R | A | G | K | F | V | T | P | N | V | E | T | E | S | A | G | M | | | | | | | | |
| UniRef90_K9R7S6 | T | P | G | S | I | G | Y | V | E | F | Y | A | A | K | Q | N | N | L | K | V | A | R | L | E | N | R | A | G | K | F | V | T | P | N | V | E | T | E | S | A | G | M | | | | | | | | | |
| UniRef90_I0DTN2 | L | P | G | S | I | G | Y | V | E | F | Y | A | A | K | Q | N | N | L | K | V | A | R | L | E | N | R | A | G | K | F | V | T | P | N | V | E | T | E | S | A | G | M | | | | | | | | | |
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| UniRef90_K9S3H7 | V | E | G | A | I | G | Y | V | E | F | Y | A | A | K | Q | N | N | L | K | V | A | R | L | E | N | R | A | G | K | F | V | T | P | N | V | E | T | E | S | A | G | M | | | | | | | | | |
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| UniRef90_B2FIF2 | I | K | G | S | I | G | Y | V | E | F | Y | A | A | K | Q | N | N | L | K | V | A | R | L | E | N | R | A | G | K | F | V | T | P | N | V | E | T | E | S | A | G | M | | | | | | | | | |
| UniRef90_C9YA93 | L | P | N | S | I | M | G | Y | V | E | F | Y | A | A | K | Q | N | N | L | K | V | A | R | L | E | N | R | A | G | K | F | V | T | P | N | V | E | T | E | S | A | G | M | | | | | | | | |
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290 300 310 320

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D P E G K E A Y P I A T F T W M L M Y Q H Q D D E E R A K A K A I E V M I E Y G L T
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V P I S G S G T W S Q N A L D Q W R K N Y G M T V N Y S G T G S S A G R Q D F F
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| UniRef90_UPI00042622A9 | L S G | Q V M F A G S D S A L K D D Q A A K A Q E R C | | |
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| UniRef90_UPI0003B35213 | L T G | A A Q F A G S D A Y L K D A E L S E S Q N V C G P | | |
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| UniRef90_UPI0003756A37 | L | A G T V D I A G S D T P L T T E Q A S Q A A E R C | | |
| UniRef90_L1MA84 | L | T G P V H W V G S E A L T P A Q I T D Y L V I Q G W A | | |
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| UniRef90_I2AIB9 | A A G A V V I G A | | | |
| UniRef90_G8PPU3 | | L A L Q S G K V D F A V S A P L E A D L D V D A A D E P V A | | |
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| | | 130 | | 140 | | 150 | | 160 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|-----|---|-----|---|-----|---|-----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UniRef90_K9RKT7 | R | I | T | K | W | N | D | P | G | V | R | L | P | N | R | R | I | T | P | V | V | H | R | S | D | D | S | G | G | T | T | F | L | F | T | N | H | L | S | T | L | S | | | |
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| UniRef90_UPI0003647C12 | E | I | R | S | W | Q | D | P | A | I | A | A | L | P | N | D | L | A | I | T | P | V | H | R | S | D | D | S | G | G | T | T | D | N | F | T | K | F | L | N | K | A | A | | |
| UniRef90_E1W0I7 | D | I | T | R | W | D | A | P | E | I | A | A | L | P | N | D | L | A | I | T | P | V | H | R | S | D | D | S | G | G | T | T | D | N | F | T | K | F | L | N | K | A | A | | |
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| UniRef90_Q7VAD1 | S | T | I | T | R | W | S | A | P | E | I | A | A | L | P | N | D | L | A | I | T | P | V | H | R | S | D | D | S | G | G | T | T | D | N | F | T | K | F | L | N | K | A | A | |
| UniRef90_UPI00036AF9A5 | T | I | V | K | K | W | N | A | P | E | I | K | A | L | N | P | K | I | A | V | F | Y | R | S | D | D | S | G | G | T | T | D | N | F | T | K | F | L | N | K | A | A | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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UniRef90_A4N092 G G G S S L V A P T I G A L G N T A Q G S F T Y F S V G S G A G Q N A F

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UniRef90_E4N6P3 I E M H G S G T T N P S K Y F W K A R A G K P V R M T Y R A V G S G T G Q S E F

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UniRef90_G6HYC4 I T I D G S S T V F P A V A E E F Q K K Y P Q V K V T V G I S G T G G G F K K F

UniRef90_B9L1T2

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UniRef90_B2I204 T I A A A G S T A L Q P L V E A A A A G K N S K V S I Q V V Q G G G S G T G L S Q

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UniRef90_L8GG67 S V K G N G S S T V A P I I E K S S D H K N I T V E N V T S G T G D G F K Q F

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UniRef90_A7NGX1 G S N T V F P I A Q L W K V H P D V Q V T L E G A G S S T G I K

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UniRef90_L8H2J0 S I T L S G S T A L L P L M E K A K A N P D A Q I N A Q G G S G T G L T Q

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UniRef90_R5PZ10 [L] G D [V] S S A T G G R A T [I] G A S D [L] P L D S R R K R Q E G G [L] V [P] [I]

UniRef90_L8GG67 [L] G D [V] S S A T G G R A T [I] G A S D [L] P L D S R R K R Q E G G [L] V [P] [I]

UniRef90_S2XIN9 [L] G D [V] S S A T G G R A T [I] G A S D [L] P L D S R R K R Q E G G [L] V [P] [I]

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UniRef90_A7NGX1 [L] G D [V] S S A T G G R A T [I] G A S D [L] P L D S R R K R Q E G G [L] V [P] [I]

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UniRef90_L8H2J0 [L] G D [V] S S A T G G R A T [I] G A S D [L] P L D S R R K R Q E G G [L] V [P] [I]

UniRef90_UPI000477BB09 [L] G D [V] S S A T G G R A T [I] G A S D [L] P L D S R R K R Q E G G [L] V [P] [I]

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UniRef90_B9L1T2 E H P G L M N I A L A I S A Q Q I N Y N L P G T D P I K L N G K V L A A M Y Q G

UniRef90_AA046BDB0 G E L T D H K V A G I A F A L V V N K D V N V D S L T V Q Q I Q D I F S G

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UniRef90_B0K3F6 R Y G N L V S I P V A F D D S Q V I Y N I P G I Q I I K M D G P T L A R I F M G

UniRef90_G6CEF8 A S L L V D H Q V A V V G V T P I V N L E V A V D N L L V D D L R K I F S G

UniRef90_J9ZD67 A G I N Y I E L P V A Y D A L T V V V N K Q N N W V T S M S V A E I K K I W Q G

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UniRef90_H8LA81 H G I N P V K I P V A L D A I T P V V S P K N S V A S L T M E Q L R D L F A G

UniRef90_Y5PJX9 A D Q L V D H K V A V V G I T P I V N K G V G V T E L T M A Q L R D I F L G

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UniRef90_E1QIK5 A S L L V D H K V A V V G I A P V V N K D V G V T D N L T T K E Q Q L V G I F T G

UniRef90_V9RTU2 K A K E L V D H Q V A V V A M A A V A H P K V G V D N L T T K E Q Q L V G I F T G

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UniRef90_R2S5D7 A G V E Y I E L P V A M D A L T V V V N P Q N T W A N D L T V D E L K A M W Q G

UniRef90_UPI00036263FA A I V D H K V A V V G M G P V V N K E V G V K G I T T K K Q L I D I F T G

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UniRef90_R2QI60 L M D H Q V A V V G L A V I V N P K I K V S N L T T E Q L R R I F S G

UniRef90_S6BX28 L T D H Q V A V V G I T P I I N K K V G V D S V T T M A Q L K Q I F T G

UniRef90_D5XA22 L V D H K V A V V G F A V V N K D N V G V D S L T K E Q Q I Q K I F T G

UniRef90_E4L3E9 L V D H K V A V V G M A P I V N K D T D V D S I T K Q E L I D I F T G

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UniRef90_L8HDX0 T E A V E M P I A L D G V T V V V N K N N T F A K E M T V E E L K K I W S S

UniRef90_W0SDL1 L V D H K V S V V G I S P M I N K K A Q V D H L T T K K Q L I A I F T K

UniRef90_E0RQJ5 K A S E L V D H T V A V L G L A P V A N K D V G V K S L T T M E Q L R D I F A G

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UniRef90_UPI0004787135 L V D H Q V A G G F T A I A H K D V G V D N L T T K Q Q L K D I F L G

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UniRef90_B2I204 P A D E L V D H K V A V V G M A P V V N K E V G V T D I T K Q Q L I D I F T G

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UniRef90_G7MCP2

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UniRef90_S0KPJ0 K I T N W Q K V G G K N Q E I V I L N R A A G S G T R G T F F E K W V L
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I K I D G S S T M Y P I T E A V A K N F Q A T Q K N A I K V T V
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G E L I R N A I I A S G N G N I K T T V A N
P V F P G A L L Q A S S G A V L Q A V A K
V S P R A L T V A S S G A M I Q T V A K
R D F R I G S L D L H G S K D V V E V I G R
L K K K I S G M K V S A I S Q R A Q V A N G N G A L K T M V A S
R A S R K D Y T A S E D D N V L V D G
W G L N G A Q S T E A Q E Q D S S G M V R S I V
A L D G A E P A E G I T E D S S N T V K K I L I A D
G S S R T D Y T A S E D D Q V L V D G
I T E D S S G T V R K I I A E
D E A E G M E S F S A A A N R S L A Q L P P A T A V P P R A F A L G S S G V R T E W L Q N
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A G S R G D Y T A S E D D N L L V Q G
P G H R Q D Y S A T E Q D R T
K G Q D F T E R A Q T L P G T A A V V N A V S L
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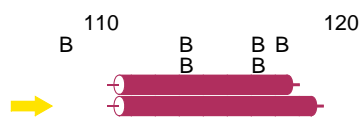
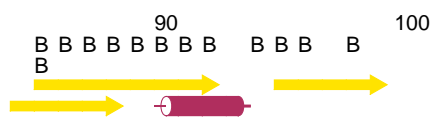
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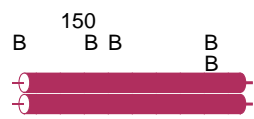
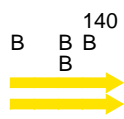
sol5
sol0
jhmm
jpssm



sol5
sol0
jhmm
jpssm



130



160

sol5
sol0
jhmm
jpssm

170

180



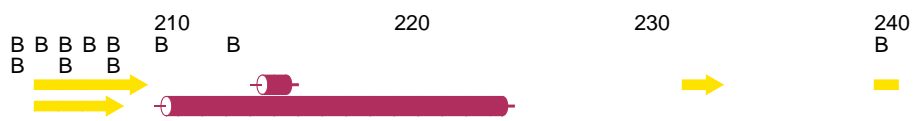
190

B

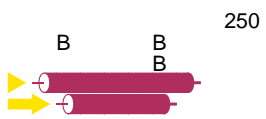
200



sol5
sol0
jhmm
jpssm



sol5
sol0
jhmm
jpssm



250

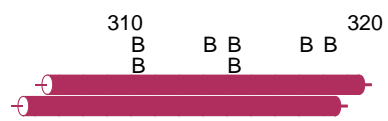
260

B 270

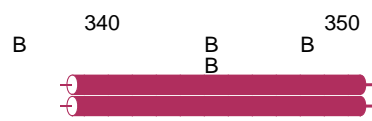
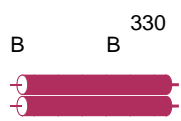
280



sol5
sol0
jhmm
jpssm



sol5
sol0
jhmm
jpssm



360

