

| QUERY | TNEPपSTEE\\|VE\VPS |
| :---: | :---: |
| UniRef90_L8G915 | TSEPLTVDDLIPI K T S |
| UniRef90-UPI0002B4297E | T GEPLSIDDIVP |
| UniRef90-B8NM13 | NGEELSTDDLI EVK S |
| UniRef90-A0A023H930 | TKEELAMDDLVTVKT |
| UniRef90-S8EJI4 | T GDKLEESDLI TI K |
| UniRef90-A0A010QF82 | TGEALTIEDLLPLTQS |
| UniRef90-D8M7F8 | T GEELDLSDLIDVK |
| UniRef90-Q94BR4 | T GEPHTLDDIVPIK |
| UniRef90-14YBY1 | S GEQLAVDDLVSVKS |
| UniRef90-E4ZZG2 | T GEDLAIEDLI ELK S |
| UniRef90-A819S6 | TGEPLSTEDLLPLK |
| UniRef90-G0TS43 | T GEPLRKDDLI AVRAT |
| UniRef90-B6K7R7 | TQQEMSVDDLI PVKAS |
| UniRef90-UPI0004561620 | TGDELQLDDLIEIKS |
| UniRef90-H0ED33 | NGEELETTDLI DLK S S |
| UniRef90_F2T104 | T GEEHTVEDLVELKS |
| UniRef90-F7W0U8 | T DEELDVEDLLPI K T |
| UniRef90-G4TA17 | TGGKLETDDI I AI K A |
| UniRef90-A0BK19 | T GRPLNFDDLI EVK |
| UniRef90-F1KUX5 | T REQLSVDQL I ELK |
| UniRef90-M2Y6E8 | S GEDLTEDDLIAVQ |
| UniRef90-W1QAI9 | S G D S L S P E D L A I QVS |
| UniRef90-D7G8G6 | T GEELTADDLLDVR |
| UniRef90-G0QNG9 | TNQQLTKEDLLPVQT T |
| UniRef90_S9Q0N3 | TQQECSLDDLVPVK |
| UniRef90-G5AYE3 | N NQPLSEEQLI |
| UniRef90-R7Q9H2 | T GEPLSTSDLIEIKKS |
| UniRef90_U6NZ67 | T NESLDEKQLIPLK |
| UniRef90-F0YJN6 | T GNELSVSDLL |
| UniRef90-A7TRZ5 | TNEPLKLSELVEIS QT |
| UniRef90-Q2H711 | TDEELDPEDLLAVKTS |
| UniRef90-K3YEX1 | T GQPLALADLTPNH |
| UniRef90-J7RLG7 | T G QVVSKDQLIELLK Q |
| UniRef90-X6NGG6 | TEQDMTVEDLI EVK |
| UniRef90-C1C160 | SKDPLSVSDLIPI R S S |
| UniRef90-A4RU49 | T K E S L SVDDL I ELK |
| UniRef90-G0QZ06 | TQQSLSLDDL I PIK S |
| UniRef90-K4BD34 | T GAPMKQEDL |
| UniRef90-17JC94 | SGEPLT ${ }^{\text {L }}$ D DI TPI N |
| UniRef90-G8YBE7 | T DEPCTVDDLVPLRST |
| UniRef90-A7AUF8 | T GEPLSQDEL |
| UniRef90-C1GI23 | N GKPLKS S L I K L N F |
| UniRef90-J3M367 | TREPLKEHQLV |
| UniRef90-D2VJM3 | T GQDLTPNDLI DV |
| UniRef90-G4V767 | D QQPLA VEELI DILK T |
| UniRef90-Q01GG2 | T REPLKPEQLI P |
| UniRef90-Q7RXA6 | T GEPLSAKDLIKLN F |
| UniRef90-B9T5H9 | T REPLDPSQLV |
| UniRef90-W9RJI1 | TGAPLKQEDLI |
| UniRef90-G4ZL38 | T GEELDAEDLLAVRA |
| UniRef90-COS614 | T R T P M T ${ }^{\text {IS D L R }}$ |
| UniRef90-P0C1J1 | T GEKLETKNLIKL |
| UniRef90-G7K216 | TGAPLKQQDLIPL |
| UniRef90-FOXZ31 | T NEPLEHDLL I P A |
| UniRef90-UPI0003EAB468 | T GRPVRMGDLVPNHAT |
| UniRef90_A0A024TTR6 | TGEPLGHGQLT |
| UniRef90-F2E193 | T GRPL R L E L V P N H A T |
| UniRef90-B9WGI4 | T RQELTEDQL |
| UniRef90-M3AQG3 | TREPLK V D D |
| UniRef90-S9U442 | T GKPLTASQLT |
| UniRef90-L8H120 | T R A P L A L A DLAPNRA |
| UniRef90_D7FNJ7 | TGEPI ERLLL V P |
| UniRef90-A0A024GKL0 | T RQKLT T DMLRPN |
| UniRef90-W7HYK9 | DGTPLASKDLDKMNMS |
| UniRef90-V9E7C9 | TRAPLTKSQLHPNRA |
| UniRef90-I2JVC0 | T GE S MT L S Dil Pl E $\square$ S |
| UniRef90-A0A024UND7 | T GETLTVVKDLI R |
| UniRef90-F6ZS38 | T GEKLEAKSLIKLNF |
| UniRef90-H2YDK8 | N NQPLSMEQVI EMKT |
| UniRef90-B9RB48 | T GEKLKS S L L P |
| UniRef90-M2RC21 | T Q P PLKPSDLISLHYS |
| UniRef90-Q29M90 | TS YPi S LD DLVRIYET |
| UniRef90-S7QPD4 | TQEPLAPSDLIP |
| UniRef90-G0QNQ5 | T GQDLK T Q L I K L |
| UniRef90- X6L926 | TGEALSAKDLI KLKYS |
| UniRef90-A0A023BCM6 | S GKPLS L K DVV |
| UniRef90-L1J5W2 | T GQPLSVKELTK |
| UniRef90-F2TXF8 | TRQPSSVDDLMPNRA |
| UniRef90-B8LBQ9 | T GAELLA HLDLVP |
| UniRef90-W1NEM8 | T NQPVHEPELIP |
| UniRef90'W7U452 | TKEEISSADLVP |
| UniRef90-M0SUM9 | TRRPLPDCELTPNH |
| UniRef90-A0A059AC52 | T NQPLPRDSLTPNHT |
| UniRef90-F0YG08 | TNERIVSHEVVPAHT |
| UniRef90-B9F6P6 | THAPLRHEDLVP |
| UniRef90-M0RHZ0 | T RQRLSNKSLTP |
| UniRef90-F0YDW7 | T SAPLEPSQLVP |
| UniRef90-I1L9K7 | TKQPLLP DLTPNHT |
| UniRef90-I1J3W0 | TMHTLDKSELAPNRT |
| UniRef90-11J147 | TMQHLASFDLTPNHT |
| UniRef90_M0RJ65 | T NREMENEEL ${ }^{\text {P P N H S }}$ |



| UniRef90_I1N2E1 | $\mathrm{T} Q \mathrm{Q} \square \mathrm{~L} \text { S TS } \mathrm{I}_{\mathrm{L}}^{50} \mathrm{P}$ |
| :---: | :---: |
| UniRef90-H3G154 | TGAKMSVK DL I A L K |
| UniRef90-I1GFN7 | T R T K LT S D Q L |
| UniRef90-UPI00042B5EF8 | SKQALHDSDLTPNHT |
| UniRef90-A9TX73 | TNQVLENQELIPNHT |
| UniRef90_F2DFA0 | T G QV L T N L ELVPNKA |
| UniRef90_UPI00019A5C37 | NRQPLK K E Q L V E |
| UniRef90_U6HRU5 | TGKKMKTSELI K L N F S |
| UniRef90_E1ZQL1 | TGQALLRPAALVP |
| UniRef90-M8A8L4 | T GEKL R S T QFVPP |
| UniRef90-UPI0002C32634 | T GQMLP H T K LVP P K A |
| UniRef90-H2KWU5 | TQQQKMSTSALTP |
| UniRef90-A5B995 |  |
| UniRef90_K4AAD0 | THGELLRAADLVPNHT |
| UniRef90-W2SBP9 | T REALSEKQLYP |
| UniRef90-W9WEN5 | N GKPLK Q Q G L I L N F |
| UniRef90-B9H3D3 | T N QVLA S F DQlP CHS |
| UniRef90-K3Z6K1 | T K Q PVPA D |
| UniRef90_B6KR93 | N G K P L S A G D L VPLK F |
| UniRef90-Q86EY4 | SRQPLVEDQLV |
| UniRef90_UPI00042B01A5 | T G Q T L A H $\square$ S L I P NR A |
| UniRef90_U7PPY9 | TGAPLKASDLI K L N F |
| UniRef90_UPI00021A47E2 | TGKPMDAKSLTKLKF |
| UniRef90_I1JQ94 | T R Q P LK H S L T P N H T |
| UniRef90_G8BIP8 | S K Q PL SKDQLYP |
| UniRef90-W7U9P5 | T GAPLL N - S S L V |
| UniRef90-I1HTQ2 | T R E P L APEQLTPNHT |
| UniRef90-M1BL61 | T K K H L K K S D R S N K T |
| UniRef90_Q09928 | NGQKASMSDLIMKLKF |
| UniRef90-M7YKD8 | TQQEKLAEAD |
| UniRef90_A0A059AVJ7 | T NVVLSSSFDQlP |
| UniRef90_F7VZ98 | T R Q PMT $\quad$ D DVVP |
| UniRef90-W4FZ44 | T NASVHHKHLIPNHT |
| UniRef90-E1ZIU2 |  |
| UniRef90-R0FUF2 | TQEKLTSDTV |
| UniRef90-A9RWP7 |  |
| UniRef90_C1FG11 |  |
| UniRef90_V7B1V4 | TRQPLEHMSLAP |
| UniRef90-N4X1C7 | T RETLT $\dagger$ S DL R P |
| UniRef90_UPI0003F06941 | A K K P L Q R Q L K P |
| UniRef90-E5A5B2 | D G T PLKKRADLIT L N F T |
| UniRef90-R9PAF0 | TGKPFELDD C V V R L N F |
| UniRef90_J5JPH1 | DGAPLQKRDLI K L N F |
| UniRef90-F0YD11 | T G L VLEMKHVVP |
| UniRef90-J3N0N5 | TK G D L R A D D L V P |
| UniRef90_E0CQ50 | TMQP L V H S SLVP |
| UniRef90-A0A059C6D2 | TMTPI D A S L R P N K T |
| UniRef90-V7CZ18 | T NQVLTTTF |
| UniRef90_R9AKC3 |  |
| UniRef90-A0A059CF00 | TK L P L D R P S L P |
| UniRef90_V4TPQ6 | T R Q PLCSNSL |
| UniRef90_S8D2K8 | T GQPLA A A QLI |
| UniRef90-S4RXZ5 | T GEKLL D I K S L I K L N F |
| UniRef90-X6MHU5 | T NQPLVTVQLVP |
| UniRef90-B9FZ01 | T N |
| UniRef90-UPI0002C35AA1 | T R T Q L A D T L I P N H T |
| UniRef90_G3AEQ6 | TREPLFEDQLYPVKDS |
| UniRef90-A0A022QPV8 | TKQPLLAASDLT |
| UniRef90-M0SB21 | T GQQLLQHQDLTP NHS |
| UniRef90-M5XBW6 | T NQELKSFDQ |
| UniRef90-W4Z3H6 | T NAPLLSS $\square$ N LTP T R S |
| UniRef90-L1J9T7 | T G $\square$ QL K D T T I VP |
| UniRef90-A0A059BSF7 | T N QPLPSTDFVP |
| UniRef90_A9UPP3 | S R K P L T P D Q L EPV |
| UniRef90-E1ZNU4 | T GMRL R H L ELTP |
| UniRef90-D0NZ53 | TGK P L A L K EL DQL |
| UniRef90_W9QKV1 | TMQPLPRDDLTPNHT |
| UniRef90-M0SAJ6 | T Q Q T L HATLTP |
| UniRef90-E1ZRB2 | T NQPLEHLVLTPVRA |
| UniRef90-C1E549 | T R R A L S |
| UniRef90_A0A023EZY1 | T N L P A G P E H L $\square \mathrm{R} \square \mathrm{Y}$ T |
| UniRef90-F2TVU8 | T R CPMS R N L FP |
| UniRef90-T0Q410 | T NAHLASTLLLVP |
| UniRef90-M0WPZ7 | TMQALD D G D L V P R T |
| UniRef90-A9TVM8 |  |
| UniRef90_R1FG70 | T G GELEHSILIP |
| UniRef90_V4U5Z6 | T N R V L T S F EPI P N H T |
| UniRef90_L1JG02 | TGAVL G S K S L L P |
| UniRef90-F0YK07 | TREPMGGANLVP |
| UniRef90_R7TEK9 | NRQPLTE S Q L P P |
| UniRef90_A0A059A4B6 | TKRPI SDMDLTP |
| UniRef90-A0A022Q0Z4 | T N L P L L S K S L IP N H S |
| UniRef90-I1IXL9 | TKQRLGAGD |
| UniRef90-A0DHJ7 | TNTPLDAKDLIP |
| UniRef90-M1B7R8 | TKEVVLSNLDLIP |
| UniRef90_E4YBI3 | TERALS K EDL I K M |
| UniRef90-I3S8F1 |  |
| UniRef90_UPI0002C3186F | TKQRLPKDELTPNHT |
| UniRef90_UPI00032A5A76 | T NQ NLT T F EI TP N H T |
| UniRef90-B7P5X3 | TGKPI EAKKLVRLDNF |
| UniRef90-A0A059DJ34 |  |
| UniRef90_UPI00046DDAFC |  |



| UniRef90 D8RFG5 | T GKP\|L|AH\N|LI P |
| :---: | :---: |
| UniRef90-M0TTG7 | S GQS L A HLELVPNRA |
| UniRef90-W1PMP7 | S GQKLL ${ }^{\text {L M A L I P }}$ |
| UniRef90_A7SFB4 | TNAPLRNSTLTPNR |
| UniRef90_Q5UQ40 | T N EKIS K K |
| UniRef90_S9Q202 | T GEKA A LS NL I K L N F S |
| UniRef90-R1EQG1 | TREALLEHTHTFP |
| UniRef90_UPI0000D5666C | T N L P A K P LD 1 VR |
| UniRef90-M4D8Y3 | T D SPFPNQTLLP ${ }^{\text {P }}$ H S |
| UniRef90_A0A022R8B7 | T QQALTT STALTP |
| UniRef90_M4AAC7 | T N L P L Q T T L L T P N R S |
| UniRef90-A0A024TF72 | TREAL R V H Q L R P |
| UniRef90_W1PFR5 | T G VT L T H S HI F P N N A |
| UniRef90-R1DRH0 | TGGELD H T CIFPNHS |
| UniRef90-UPI0002B42BFB | T GQKL E NTQL |
| UniRef90-I1KBH4 | TMQQL H T K D F $\quad$ P N R T |
| UniRef90_S9VZQ7 | NRTPLTMD DVTP |
| UniRef90_A0A024GLQ3 | T R A S L T I E Q L VP |
| UniRef90_K0RH75 | S G NKLA TRDLI T L N |
| UniRef90-R1BKN2 | TGETLQHTHTFP |
| UniRef90-G9MS59 | CRNPLTEDNLLE |
| UniRef90-A0A022R7Q3 | TKQALTPSELTP |
| UniRef90_M0SL70 | T R Q TLA HLLSLAP |
| UniRef90-A0A059AM72 | T R Q T L G H T NLIP NY T |
| UniRef90-R4TII5 | D R S A M S A GLLP |
| UniRef90_G0PKS7 | NRAPLT Q A ELV V P |
| UniRef90_FOZSX2 | C N N S L QVDELTTPNY T |
| UniRef90-M1ANL6 | T NQALA H S NL DP NY T |
| UniRef90-B3EU24 |  |
| UniRef90-M7YM22 | T QKKLENFAMIP |
| UniRef90-W4K798 | N R A P L K $\square$ E D VIP |
| UniRef90-B9P691 | T K |
| UniRef90-A8IRE1 | T G H EVVSPEEVVPP |
| UniRef90_F0YK89 | T NAPLASTALVP |
| UniRef90-A9VCT3 | T G Q Q L P DKVL R P |
| UniRef90-M0TEB2 | T K R A L P D CEVT P N H T |
| UniRef90-M2W2P2 | T G E |
| UniRef90-T0QD43 | T R E K L T R A QLR P |
| UniRef90-A8PHR7 | T R Q P L S E T Q L V S L T |
| UniRef90-M0TK17 | TMQRLLHDKSLVPNHT |
| UniRef90-A9RI76 | S G Q K L G HVNLIP |
| UniRef90-D8RQ07 | S GQKL $\quad \mathrm{H}$ L G L I P |
| UniRef90-M0YIE3 | TRQRLAHSNLIPNYT |
| UniRef90_I1FIP9 | NRHPLTVEMLQP |
| UniRef90-R1E1W4 | S GAVLEEHTDLVP |
| UniRef90_UPI000180C6CE | T NKALV V R NLFPNQT |
| UniRef90_V4LLV2 | T D L P L Q N M NLLP N H T |
| UniRef90_A0A022PUW4 | T DLQ L P P K Y L I P N Y T |
| UniRef90_F2EHL9 | NRSQLT Q D M L I P |
| UniRef90-UPI00042B150B | T R Q NLQSTQL |
| UniRef90_N6U653 | D R Q T L T T A QLTQV |
| UniRef90_UPI000042EC79 | T G K P L E T S QL I K L N S |
| UniRef90_UPI00032A9F30 |  |
| UniRef90_UPI00023B28BE | TMQRI NSFDITPNHT |
| UniRef90_W5ARE5 | T R K EL |
| UniRef90-J3MD89 | T K M S M Q S T L VPLLKS T |
| UniRef90_A4RTS6 |  |
| UniRef90_I1KHS7 | T L DPLD TS IL R P N K |
| UniRef90-A0A059CI66 | T NNPLSTLDLFPNQA |
| UniRef90_G3SJ12 |  |
| UniRef90-D8RNN2 | T R Q L L K |
| UniRef90-K1QD81 | N R S P L S LD MVT P L K T |
| UniRef90_H6BTJ9 | T G L P V A D T Q L |
| UniRef90_J3MT00 | TGEKL R R A DVVP |
| UniRef90-A0A022Q3M1 | T Q QVLT H T T L A P |
| UniRef90-M0TLN8 | T Q Q HL S H L C T P |
| UniRef90-K4ASS1 | T K L H V S R D DLT P N H T |
| UniRef90_C0PSB5 | T Q QVL P H M T L T P |
| UniRef90-B7FYW9 | T GEPATS R DI V T L |
| UniRef90_J3LAX4 | TRRVLP D S SVIPNHS |
| UniRef90_UPI0003C39BE9 | TGYAI T M E D L V R $~$ Y E T |
| UniRef90-D8RKK7 | TMQPLHQNHLVPNNA |
| UniRef90-B4MM21 | D R T ELL S GQLVP |
| UniRef90_L1J915 | TGACLSPSNHLVP |
| UniRef90_U5CS89 | T N L A M P P DLTPNH T |
| UniRef90-R1D4U6 | T GKALLENTGVEP |
| UniRef90-B7G1K5 | T R Q P L R M R DVI |
| UniRef90-A0A022R8I9 | T L R ELR S T ELNP |
| UniRef90-T1R384 | S GQRL ${ }^{\text {L }}$ H MAL DP |
| UniRef90_D8T750 | T N L R L E HKQLTP |
| UniRef90_B0G146 | T NKPSTMKDYFP ${ }^{\text {S }}$ T F S |
| UniRef90_A9T365 |  |
| UniRef90-R7WA42 | TKAPL |
| UniRef90-Q22GY2 | CRKQCQKED L VP |
| UniRef90-H8X312 |  |
| UniRef90_Q0TYP6 | T NLVLS NLLDLRP |
| UniRef90_UPI000455DA52 | D R F PL SPDDL VP |
| UniRef90-B4KIR6 | D R S DL L P I H L P V |
| UniRef90_V4TAM4 | T R Q T A HLS A A P |
| UniRef90_M7WZM3 | NRQPL R WED I |
| UniRef90-11HYS1 UniRef90-IOZ1A7 |  |



| UniRef90_C5XWT4 | $\text { TQAELRSTD }{ }^{50} \text { SP }$ |
| :---: | :---: |
| UniRef90-B3NAE8 | D R SALLASHLVPV |
| UniRef90-G7JZ87 | T N QVVRNFDMI P NHS |
| UniRef90-M1VLQ8 | NRQPL R DEDV |
| UniRef90-X6P0E2 | TGEELSDTQ |
| UniRef90-Q5VMX1 | T NVELEHKKLVPNRA |
| UniRef90_G0R447 | TRKQISQ |
| UniRef90-A0BFN6 | TRQPI S GE |
| UniRef90-W2IE33 | T RKRLT L DMLR P |
| UniRef90-V7BP09 | T GTVLKSLELKP |
| UniRef90-W2SER0 | NRVPLVIEDV |
| UniRef90-UPI00046CE7BE | TNEPLKTTSLT |
| UniRef90-Q6Z2K3 | T Q L K L Q N $\mathrm{T}^{\text {T L T P }}$ |
| UniRef90-E4WXJ9 | T GKKMKAGDLIKM |
| UniRef90-J91MK2 | NRSPLTLEQLIP |
| UniRef90-C5KBN9 | TEKALSIDDC |
| UniRef90_J7RV10 | NRMPLKLDDVI |
| UniRef90-G3AQ71 | NRMPLTLDDVIELK |
| UniRef90_UPI0003D77080 | T G K Y L |
| UniRef90-A8JDZ3 | T K Q R A S T A T Y P N A |
| UniRef90-A0A059AAX9 | T GKTLE |
| UniRef90-Q336S5 | TKSRLPNKDLVP |
| UniRef90_A0NDZ1 | TK YPAT $\square$ N DLI G $\square$ Y T |
| UniRef90-B9GTL1 | T M Q ${ }_{\text {L }}$ S SKDF |
| UniRef90-UPI00042B4F1B | TKCRLQHSVLTPNQT |
| UniRef90_C1E7F5 | T R QPL K A E DLVP |
| UniRef90-M4D251 | S K R L D |
| UniRef90-A5DLL9 | T RKRVSEDQLY |
| UniRef90-R1DM25 | TGEALENTGLFPNHT |
| UniRef90-C5X7P4 | T M L E V H R A D L R P V |
| UniRef90-Q8S5X3 | TMQEL |
| UniRef90-Q6BTN3 | T R N D L K P D D 1 M T L R |
| UniRef90-B6GZ90 | CSTPLTADDLR |
| UniRef90-B9R8Q6 | TQKELKTAELNP |
| UniRef90_UPI0003EABA5C | T EQPLVRRDLIP |
| UniRef90-B3MKU1 | NREPLTMD |
| UniRef90-E3KFJ3 | DRSSLPSNQL1P |
| UniRef90-M4ELH4 | T Q QVLP H TALT P |
| UniRef90-B91201 | TCTTTLDTSVLRPNVT |
| UniRef90-G6D1S6 | VGEPL R V ${ }^{\text {V }}$ QL V P |
| UniRef90-W5HY81 | TMRPLPHHTLAPNRT |
| UniRef90-W7A4K7 | S REQFSMREVI |
| UniRef90-M7ZS04 |  |
| UniRef90_Q0DEQ5 | T N L R L P H K S L P |
| UniRef90-B9HIV6 | T GQKLLSRVLVALK T T |
| UniRef90-M7NSN7 | NRSPLKLEDLIP |
| UniRef90-10YZ51 | T G V Q L |
| UniRef90-W5J478 | T NLELSTAELVE |
| UniRef90-X8JI80 | NRSPLKIEDVTP |
| UniRef90-W1NW90 | TS T QLDVSALTPLKT |
| UniRef90-H0XHE3 | NGEKLDGRSLI K L N F |
| UniRef90-B0WTD2 | T GAPLDGKSLIKLNFT |
| UniRef90-M5XJY6 | T GQKLMSKS FIA L K S T |
| UniRef90-D8TP11 | T GAVLPHTGL |
| UniRef90-M7NRX9 | TGERLEAKSLLK L C ( |
| UniRef90-L1J1M4 | TKKRLQLHEI APNRA |
| UniRef90-X6MJ06 | T RAPLTEEGLI |
| UniRef90-N1JC49 | NRQPLRDEEVI EL |
| UniRef90-D8RSD0 | TKAKLEHTFL |
| UniRef90-A0A024J8A0 | T GKPL A R T DLI K L K P T |
| UniRef90-F4R9Z0 | D R LP L S ${ }_{\text {S }}$ |
| UniRef90-Q9CAA7 | TGQKLTTE |
| UniRef90-D8LU34 | NRQPLTEDMVE |
| UniRef90-C5Z4U0 | T N M R L EHDEL ${ }^{\text {P P N R A }}$ |
| UniRef90-V4UHR9 | TKMKLVRQSLT |
| UniRef90-S7ZU37 | CGTPLTADDL |
| UniRef90-E2AY52 | DNQPLKSENLFDLYTS |
| UniRef90-K4DDM9 | CRHPLTESD |
| UniRef90-R0G7G7 | CRKKVSAKDLIR V |
| UniRef90-H3GR36 | C R E |
| UniRef90-Q3E9F7 | T K QVLS HRLWWIP |
| UniRef90-R1D9F7 | T GAMLASTALV |
| UniRef90_UPI00042B86E3 | T G K K L T S RVLVA L K T T |
| UniRef90-UPI000350B18A | T GQEL |
| UniRef90-V9EE71 | A G C P |
| UniRef90-G2QHG3 | CSKDLRTK D |
| UniRef90-R9ADQ3 | NRSPLTID QVEP |
| UniRef90-M1V895 | CGGFLTRDQI AP |
| UniRef90-FOXVJ0 | T R A PLKTRRLAPVR |
| UniRef90-W7ANA7 | CKAEVTKENV ${ }^{\text {P }}$ L |
| UniRef90-K4ATC8 | TKQNLPRD |
| UniRef90_E9C929 | TLLPASTSSLIK |
| UniRef90-A5CBF5 | THEKLSQFFLTPNST |
| UniRef90-T1JSN2 | D QLPI ESYD |
| UniRef90-F7FLA2 | T NLVLPSLVLTPNRT |
| UniRef90-V9IMB5 | C S Y TLTQQDI |
| UniRef90-Q2GZM4 | CRAELAEDKLVE |
| UniRef90-M7Y995 | T NLPLA NRDLVPNRA |
| UniRef90-B8LPL7 | TMERLQNQDLVPNHT |
| UniRef90-T2BPJ8 | DRSTLTMSSL |
| UniRef90-E1Z9M2 | SRAPLSKEQL |
| UniRef90_D8TLB8 | S RMP LTEA Q\| L V|P |



| UniRef90_A0DLL3 | $\text { DRSPLT LDMMV }{ }^{50} \text { UE QK }$ |
| :---: | :---: |
| UniRef90-W5MIG1 | NRQPLTENML |
| UniRef90-D8QC03 | D R R P L T G D |
| UniRef90-K0KIR1 | CRQALTEQTLLPL |
| UniRef90-G7L2Z7 | T Q QVLSHTILTP |
| UniRef90-G7KEW9 | TEKELPHMTLTP |
| UniRef90-I1FQE6 | SKQRIANDELR |
| UniRef90_Q69Y81 | T Q Lik L E F T I T P |
| UniRef90-Q683D5 | T N TKLHHTKLVP |
| UniRef90-A1CA01 | CRADIK |
| UniRef90-UPI00032A697A | TENTLE |
| UniRef90-A9SVH0 | TGQEV |
| UniRef90-K1WLR8 | NRAPL K DEDVIP M |
| UniRef90_UPI0002C36F8A | T NLLKLENK I L T P N G T |
| UniRef90-Q00W57 | T NEP |
| UniRef90-M3CVZ2 |  |
| UniRef90-W5HDL3 | T NLPLLQHQELIPP |
| UniRef90-D8UCI8 | SNLPLETAALTPMKS |
| UniRef90-D5G424 | NRSPLKVEDVT |
| UniRef90-T0R815 | ADAPLPSKALL |
| UniRef90-N4X1X8 | CRQACLVQHILPDR |
| UniRef90-W5HP11 |  |
| UniRef90_B3S8J1 | T HLPP T G $\square$ Q QLVK ${ }^{\text {L }}$ |
| UniRef90-J3N4N6 | TKSILEHHRL |
| UniRef90-G6DGL3 | DNINLS SKDI |
| UniRef90-G8YA74 | CRQRCLEQNLLP L R |
| UniRef90-K2RX82 | CRAEL |
| UniRef90-V7CHW1 | T R K K L V H T A LT P |
| UniRef90_C5KM51 |  |
| UniRef90-UPI0003599C9A | T GFPATDEQLVK $\square$ |
| UniRef90-M5W4T9 | TH L K L D H K L V P |
| UniRef90-A0A022S241 | T R K T L |
| UniRef90-M0TG53 | NK I R L P H T S I I P N H S |
| UniRef90-B9HUP7 | TGEILEDT T L VRLDRQS |
| UniRef90-A4H4L7 | TNLY ${ }^{\text {L }}$ |
| UniRef90-N4VAH3 | CRNQLEEDSLL |
| UniRef90-UPI0002B4B277 | TKLKLRHS F Fi P N Y T |
| UniRef90-I1NCC8 | TLMPSTVDQ\\| |
| UniRef90-FOUSM9 | CRAEI |
| UniRef90-R1FZC3 | T G GELENTSLFP |
| UniRef90-V9KWV5 | T GYPSELQ HL $\quad$ K L Y S |
| UniRef90-B9S6F1 | T KVKL ${ }^{\text {P }}$ H HLL |
| UniRef90-UPI0001E47E7E | CSRGLDP |
| UniRef90-A0A059C4T0 | T N L Q L P N L G VP NQT |
| UniRef90_UPI00046DCA39 |  |
| UniRef90-T2M3C0 | T GNKLQPSD\IE TKK |
| UniRef90-M4BCX7 | TQMKCELTAI I K |
| UniRef90-11K197 | T NSKLA HRHLVPNHT |
| UniRef90-M0U759 | T NLRLSHHELI |
| UniRef90-W5FSB6 | T NLELLHRDLL |
| UniRef90-K1RIF0 | DNEPCDASQL |
| UniRef90-R7YV33 | CRGVVLA Q HVLP C - R |
| UniRef90-M4DD71 | T NKSLPHTS |
| UniRef90-Q7PUE3 | DRNPITNNNL |
| UniRef90-A0A059LKC9 | S RLP MTESDIV |
| UniRef90-U4TY59 | TGKPLDFHSLVQLN |
| UniRef90-Q7RXE0 | DRRPLD ${ }_{\text {d }}$ |
| UniRef90_Q5B199 | CRQELLASKVLP LR |
| UniRef90-F2E5C3 | A GCP |
| UniRef90-UPI0003314A9A | CRAQFQRES ${ }^{\text {CRPFKQ}}$ |
| UniRef90-V4C7C1 |  |
| UniRef90-V9G171 | TQlKKCEPATIVKI |
| UniRef90-M5XZK1 | CRHKLRKRDILRI |
| UniRef90_UPI000444449E | RCQPLAPAELYRV |
| UniRef90-Q0VZ31 | D REPL |
| UniRef90-K8FD43 | C R K |
| UniRef90-V4LDC9 | A G |
| UniRef90-T1JE70 | D R Q T 1 T QA QLK PV |
| UniRef90-U6L2Z6 | TGQRLRFADLFALK L |
| UniRef90-M0SVV1 |  |
| UniRef90-R1F5L3 | T R ERLGP H L Y P NRA |
| UniRef90-UPI0004417402 | DRSTLCFEDLEP |
| UniRef90_J3N0B5 | TY LTLTHHELIPNNA |
| UniRef90-H2YD37 | TGYVTNFDHLI |
| UniRef90-MOTPK4 | TNLQLPNCELIPNRT |
| UniRef90-L11802 | T NLPFPGTKLIPNK |
| UniRef90_U618W9 | D R K S I S LTK Q |
| UniRef90-A1DMH0 | CSIVLTAEDL |
| UniRef90-G7E530 | C R Q SVT L S R L L P V |
| UniRef90_UPI000329B823 | CKE |
| UniRef90-A0A022QKV2 | T K R K LT $\mathrm{L}^{\text {K }}$ DLI |
| UniRef90-L8GX45 | CKRSLTEEQLVP |
| UniRef90-L8GYJ6 | CNATLKPDGLAP |
| UniRef90-I1QVP6 | T NQTLANRDTIP |
| UniRef90-C6T066 | CRKKVVAKDLIRV |
| UniRef90-H0ZVD1 | D R SVVTVA HLRP |
| UniRef90-Q2U933 | CRAEIT T S TLVE |
| UniRef90-UPI00038905B4 | CRKSFQQENLISNRQ |
| UniRef90-E9QG54 | CKQPLQE |
| UniRef90-K8F1A9 | CNKDI VEELLIPL |
| UniRef90-G2YSK8 | DRYP\\|SRND PLRQS |
| UniRef90_W4GF00 | A G |



|  |  |
| :---: | :---: |
| iRef90 I3SH | CKSEISKSSL |
| UniRef90-U7Q4J6 | TGKEFTA |
| UniRef90-M4C884 | TGARLAHRDLTPNY |
| UniRef90-H2AZE3 |  |
| UniRef90-G4T535 | DRSSLQKSDL |
| UniRef90- S9U132 |  |
| UniRef90 M1ADD1 |  |
| UniRef90-UPI0003F0 | CKAEVSPK |
| UniRef90-L8H | D |
| R |  |
| UniRef90_UP10003B63B7D | CKEQF |
| Ref90-F2DGA7 |  |
| Ref90-Q4 | SGAS |
| UniRef90-HPIOO232995D6 |  |
| UniRef90-11.JN29 | CRRRL |
| UniRef90-K7LG44 | TNSKLAHHNLVPNRA |
| UniRef90 D1GE | TKEVLSH |
| UniRef90-M2LY96 | CRADL |
| UniRef90-UP10004443ED5 |  |
| IRef90_3LWX4 |  |
| 俍Ret90_E6RB25 |  |
| UniRet90-L8GWW5 |  |
| UniRef90-G5A210 | - |
| UniRef90-B7P1R6 | CRKRV |
| UniRer90-A8JCG8 | CRAPVAL |
| UniRet90-W4Z2X8 | NRKPLT |
| niRef90-FOY | RTPMEP |
| UniR | T N |
| UniRef90-UP10002C3E2A2 | CKSRVEDTVITYNS |
| P1000 |  |
|  | K |
| UniRef90-EOCUZ8 |  |
| UniRef90-M3 | SGAKLTERDIVPLQ |
| UniRef90 B6T0C5 | ALVE |
|  |  |
| UniRef90-M4DHAO | CNAPVSEDSLVPLGA |
| UniRet90-C1EHN3 | CRAPL |
| UniRefs | TGDKL |
| niRef90-UP10 |  |
| UniRet90 N1QNT8 |  |
| UniRef90- S3DGQ0 | CRDPLESL |
| UniRef90-F1NGM4 | CKE |
| UniRef90-B7GAH4 | T NMQCTEANFVRD |
| UniRef90_J3LX29 | E\\|LDD |
| UniRef | CRKRVTNKELIRV |
| (90-UPIOOO3AFB5EC |  |
|  | CGYPTEVQHLGY |
| iRef90-11LRL6 | TRQSLPHTDLTPNH |

CNAKLHGKNLI
RRQLLQKDDLI
CRKKLS
DRQRLQLHQCRP
TNLDALPNLDLVPNR
CQAGLSRDNVIPGMT
TGKKПDVASLIK LNFT
CKHKL
CRQAAVVQGLDP $\square R A$
DNETLLETQLFP
TFVPGSVDDL
CRRVLNVANTPDES
CRCAFEPRQLRPNR
TNLPLENLVLHP
C
TN KKMAHHMT
CNVLITMHELETBL
SGCPLQGDKLV
CSKPLTVD
CNK C CLLRDVRK】YAS
CRSKL
CKATVQEHQLTP $\quad$ KTS
SNTPLRCYSLLP
TQQULSSPILIP
TMQEL WDDSLTPNTT
csVHI SMHDL



| UniRef90_UPI0002C3007F | CKALVVKEENVVVPLKIS |
| :---: | :---: |
| UniRef90-I1L4S3 | T N L R L K H T F LTP NH T |
| UniRef90-T5A6V2 | D R DLL S |
| UniRef90-A0A059B318 | TKKKL |
| UniRef90_UPI000258F24E | D S K P L S S DLLFDLY T S |
| UniRef90-S8EZA1 | CRGPVYA E Q L E PVEES |
| UniRef90_UPI0003832D71 | CKQSL R |
| UniRef90_T1FMJ0 | D R GVLRKNNL |
| UniRef90_K8YSP8 |  |
| UniRef90_MOU141 | C R H PLS K T D L F P TK S T |
| UniRef90-I1IBZ3 | CK A A L T LD SFVP L |
| UniRef90_UPI0003C4B601 | C GETCPQ G N L R P S |
| UniRef90-K4BCD8 | CKALI Q E E K L VP L |
| UniRef90-F2QQ18 | CRQKVLE Q Q L L P L |
| UniRef90-UPI00033156BD | CRAQFHRES I R P S K Q |
| UniRef90_D0NB97 | T R E P L T M |
| UniRef90_Q7ZU70 |  |
| UniRef90_U4L2M5 |  |
| UniRef90_UPI00042B2C49 | $\square \mathrm{N} \square \mathrm{D}$ LP H L N L V P |
| UniRef90-D0A345 | CRGRVDENDI I P L |
| UniRef90-K1WHZ7 | CRREVGLQ HILPL R A |
| UniRef90_F8NPU1 | T L L P M R V WQL R K V |
| UniRef90_A0A059D591 | T NLK L S HLLHLTP |
| UniRef90-M5X447 | T M Q S E N F G I P N H T |
| UniRef90-F0XZI5 |  |
| UniRef90-C1BWS0 | T G D K LKE T D I P L Q |
| UniRef90_Q4S058 | D A AKLTV |
| UniRef90_X6MEQ6 | F G H K E |
| UniRef90-UPI0001924082 | CRSTV H K K D L |
| UniRef90-S3CTN4 | CRTELPDKECL |
| UniRef90_B3SBI7 | N CQP |
| UniRef90-T1GW77 | CRNKCS Q S I DK V |
| UniRef90_UPI0003508ECF | C N |
| UniRef90-V5N6U9 | D N A P LT E Q T M F P |
| UniRef90_R7YIQ3 | CRAELE |
| UniRef90 A5E4G5 |  |
| UniRef90-UPI0003891161 | S H LDVKR S D L VP |
| UniRef90_U6LZ07 | CKANVSAETVTPI |
| UniRef90_UPI0003317957 | CRAQFQRES I R P I K Q |
| UniRef90-Q4QIQ6 | D R T P I R VELL |
| UniRef90_V4T9T1 | T H MRL D |
| UniRef90-D8S8U2 | CRSVVKSSEL |
| UniRef90-X6LXH7 | CRSEIK GED |
| UniRef90_A0A022RIN9 | T M Q |
| UniRef90-E3QH96 | A GMELGGLDNLYD |
| UniRef90-M0ZV16 | CRRKLAMKD T $\square$ R V |
| UniRef90-13J4J5 | CREPL M L T C |
| UniRef90-K3W9U0 |  |
| UniRef90-Q8TFH8 | T N L E L S |
| UniRef90-G7YH97 |  |
| UniRef90_GOVEP4 | CLL E L RESML |
| UniRef90_UPI000359E4A9 | D R K P L TVKECQP |
| UniRef90-M0TR61 | C N K P |
| UniRef90_UPI000441933E | K C Q R $\square$ S T K E L L P L K S |
| UniRef90_U5GQV1 | C R |
| UniRef90_UPI00042B012C | C R A V I K A P D L |
| UniRef90_V7B9L4 | C R |
| UniRef90_Q923T7 | CREPARPS Q L R P NRQ |
| UniRef90-A9PCH2 | CKA D ${ }^{\text {CS H T T MVP L }}$ |
| UniRef90- S7ZUJ9 | CRADI K |
| UniRef90-G8DGP6 | T GSELDHPYLTP |
| UniRef90-11HRZ5 | WK A GV Q E EKLVPL |
| UniRef90_UPI0003B6EA67 | CKEPL S |
| UniRef90-M7Z8Y0 | C K G EV T E G NTTP I |
| UniRef90_A7S5K6 | CREPL Q M R L V |
| UniRef90-G6CYN4 | CRSSLK |
| UniRef90_C4XXY4 | D R T P I D A K D L E L |
| UniRef90_C8TDR4 | CRRALVYVK S L K P L |
| UniRef90_U3JRL2 | CRHALLPED |
| UniRef90-B0EBB0 | C R T S L |
| UniRef90-T2M770 | G GESLKPNNVI |
| UniRef90-A0A024GF04 | CQRKLR】RDI |
| UniRef90_UPI0002652935 | CNEQVSPNSLVPNQQ |
| UniRef90_UPI0003D0D28D | C R HVL S SEE |
| UniRef90_M5W654 | C R H KV S S E D LT F $\dagger$ T Y S |
| UniRef90_Q9C029 | CREPARPS QLRPNRQ |
| UniRef90-M0T0D5 | T NLLLP T Q E I |
| UniRef90_UPI000329C969 |  |
| UniRef90-M5VVD3 | C R R P L S Q S NL |
| UniRef90_U6HQ85 | S GTKLA G S DL $\square \mathrm{E}$ V R |
| UniRef90_G0SFC8 | CKRHLTHSNLHDI |
| UniRef90_L2FGS7 | DRTRFRAKDC K T S |
| UniRef90-UPI000389120C | CRNELRVEHLVE |
| UniRef90-17LXV6 | CRQS FDGLDMID |
| UniRef90_UPI0004575F9D | CQETLPP ERNL |
| UniRef90-11ENX1 | CKE KEYYAIPD K |
| UniRef90_UPI0002C324BE | CS TKCR@EDLLP |
| UniRef90_R7VXA9 | C R GS VT K K E |
| UniRef90_UPI000350C740 | C QVP Y Q F E N L R P |
| UniRef90-ROIK19 | CRYEM |
| UniRef90-V3Z1G9 UniRef90 ${ }^{-}$M1AXC6 | A G C P |



| UniRef90 C5YHE9 | $\text { CKGEVLEGD }{ }^{50} \mathrm{~T} P \square$ |
| :---: | :---: |
| UniRef90-K1QEJ1 | GGNPIVKEDLVENK |
| UniRef90-A0CGZ1 | C R |
| UniRef90-W6L5C6 | CKRPTKNS QLVPL |
| UniRef90-A0A058ZCT7 | TKQPMLLDAC |
| UniRef90-W5L9X7 | CRNTFRQEDL |
| UniRef90-I3KYA9 | CKE |
| UniRef90-K0TK51 | CQQAFTVD |
| UniRef90-V4ZLV5 | CKAHTTVRNVI |
| UniRef90_B0YLS1 | C R K |
| UniRef90-H2ZZU7 | CRADSA! |
| UniRef90_C7E3P9 | CRQHFLLRNLRPNRQ |
| UniRef90-UPI0002C2E5B1 | CKGEVSPKNVTP |
| UniRef90_K7L2N2 |  |
| UniRef90-K1R1W6 | CRETLQPQKL |
| UniRef90-C5L242 | CNVGITLKELKMVR |
| UniRef90_A0A016PQP2 | TRRTAS VESVRRワYES |
| UniRef90-D5G6P4 | CRHPDTPED |
| UniRef90-A5AF76 | CRKLLLKKTDLI |
| UniRef90-A0A024WC25 |  |
| UniRef90_UPI0003D0918E | $\square \mathrm{G}$ S DVK R S D L V P |
| UniRef90-C4V8Q4 | CRNHLSLI DVTKCK |
| UniRef90-UPI0002B4C5D9 |  |
| UniRef90-UPI0004448DD4 | VGT DVK M S DLIP |
| UniRef90-T1DIIO | CKS SI SKEKVIPL |
| UniRef90-M5FUZ6 | CRQPLSKQTI HR |
| UniRef90-F9G505 |  |
| UniRef90_J91310 | CRHELPTDDL |
| UniRef90-W1NV09 | T GQHLDDFSLR |
| UniRef90-M4D1Q3 | CKS SVA ${ }^{\text {V }}$ S SLVPL |
| UniRef90_Q5DI17 | NGKKMKPTDFIELQ |
| UniRef90-A0A015MYY0 | CRANCTENDL |
| UniRef90-UPI00046DE34C | CKANDTHALLVPL |
| UniRef90_UPI0003C3A89E | CRAKVSED |
| UniRef90-A8J644 | S R T P L A R A A LT P |
| UniRef90_G7KNZ9 | CRHKVN】ED |
| UniRef90_F4WAM7 | CRQNL |
| UniRef90-G3IM17 | C G |
| UniRef90_UPI00042B1A01 | C |
| UniRef90-UPI00046BEDDC | T GTPLT CPQC |
| UniRef90-A8IZ18 | S GVKI T S REFT P |
| UniRef90-I3J218 | C R K P |
| UniRef90_D3TPT9 | CREYLKKSNLI Q L R |
| UniRef90_U7DZU2 | CGDPISKSGL |
| UniRef90_W3WQN5 | CRRAL |
| UniRef90_B3RIV8 | D N T L |
| UniRef90-V8NKY1 | C R A |
| UniRef90-E6ZJ29 |  |
| UniRef90-UPI00033166F5 | CRQPFTRNS |
| UniRef90-Q1RLP5 | CKEKFSKQPDLKVNT |
| UniRef90-UPI00038326F5 | SHSDVKGSD |
| UniRef90-C1N2T4 | CRHKL L V P |
| UniRef90_B4FB79 | CKATLSTDTLVPL |
| UniRef90-D2V1P1 | C NESVY 1 D AL R S VR |
| UniRef90-B4NJT6 | CNKKLTARQ |
| UniRef90_UPI0002038E85 | CRLTLLQS R DVIP N R P |
| UniRef90-UPI000392E4F9 | CRL |
| UniRef90-G4ZXW9 | CRSP |
| UniRef90-E4XCA0 | CKAGIGKDKMVP $\square$ |
| UniRef90_UPI00038EB896 | CRKEVKRKKM |
| UniRef90-F2QMQ6 | DRTPLD\DDVYP |
| UniRef90_J9M316 | CRKALNPRMVVPLQ |
| UniRef90_UPI0003833E6E | TGYATELQHLVKLYS |
| UniRef90_UP10003EAC058 | CHQPVSPDALIANKF |
| UniRef90_G3PA64 | CQE |
| UniRef90-W9YKC5 | TPEQL |
| UniRef90_M1D7C9 | C SKPLTVD |
| UniRef90_G1MC72 | CRKPCSE |
| UniRef90-X6LNY8 | CRSElK G E E |
| UniRef90-F1LWE5 | CKESLKE |
| UniRef90_UPIO0038C0EEC | CRQEVK |
| UniRef90-FOVF42 | CRQP |
| UniRef90-D8SNP9 | SRALVQPDLLID |
| UniRef90-F6YHYO | CRVPLT A E |
| UniRef90_I3KLM0 |  |
| UniRef90-C3Y0U4 | CRS GMLP HEARPV |
| UniRef90_D6WY16 | CRKK |
| UniRef90-E6ZGE6 | C R |
| UniRef90-J5Q1R1 |  |
| UniRef90_H2ZUI3 | CRADSATSDLIT N H T |
| UniRef90-I1FJR7 | CKEK |
| UniRef90_S9WBZ1 | CKEKLSE |
| UniRef90_H2YZX5 | CKE |
| UniRef90_UPI000441D58D | D R Q F L D L S VLRPL |

lupas 21
lupas 14
lupas_28
jnet



