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TK F EASVVVLKKEEGGRHTGFFSGYRPQFYFRTTDVTGV H T H F E A E V V Y V L S K E E G G R H T P F F K K G Y R P Q F Y F R T T D V HTKFKAEVVYVLKKEEGGRHTPFFDGYRPQFYFRTTDVVGAA HKKFKAEVYVLSKEEGGRHTPFFTGYRPQFYFRTTDITGV





 H T E F E G Q V Y V L T K E E G G R H T P F F S G Y R P Q F F F R T T D V

 HT QFEAEVYYLLKKEE GGRHTPFLKGYRPQFYFRTTDVTGT HTKFEAEVYVLSKDEGGRHTPFFKNYRPQFYFRTTDVTGT | $H$ | $T$ | $K$ | $F$ | $E$ | $A$ | $E$ | $A$ | $Y$ | $L$ | $K$ | $K$ | $E$ | $E$ | $G$ | $G R H$ | $T$ | $P$ | $F$ | $F$ | $S$ | $K$ | $Y$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

 H H K F N A Q V Y V L K K E E G G R H T A F F N G Y R P Q F F F R T T D V T G T HKKFK A EVVYVLKK K E G GRHTPFTKGYRPQFY IRTADVTGT








## HR


 Y K K F R A A EVVY Y L L T K E E G G G R H T P S F V S N NY R P Q
 HKKFK A QVVVVLTK E E G GRHTPFFSNYRPQFYFRTTDVTGV
 HKRFKA QI YVLIKKEE GGRHTPFTKGYKPQFYDRTADVTGE HSKFETKVYILTKEEGGRHTAFFSNYRPQFYFRTTDVTGV
 H K E F E A E V V Y $\operatorname{Y}$ V L


 H T K F K G G QVVY HTK G K A E I Y V L S K D E G GR H TP FF D GYR P Q F YF R T T D V T G V

H H T K F E A E VVYVLKK K E E G GR H TP FF S NYRRPQFFFRTADVVTGN HTKFEAEVYVLTTKDEGGRHTPFFKGYKPQFYFRTTDVTWA

 HKKFEAEVYY L

 HKKFK A A I Y CL T K E E G GR H T P FF S GYRPQFYFRTTDVVTGS H T T F K A Q A Y I L T K E E G G R H T A F F V T N Y R P Q F Y F R T T D


 H K K F K A E E I Y AL K K E E G G R H T G F L


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 H Q K V E A QV Y V L S K E E G G R H K P F V S N F M P V M F S LT WD M A C R HAKFRAQVYILTKEEGGRHTAFADGYRPQFYFRTTDVTGV
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 Y K R F E A E V Y AL T K E E G G R H T P F T S K Y K P QFF I HK TF S A K I Y V L T K DV $V$ G G R D T P F Y R G Y R P R F Y FR TA D V T G S





 K K F Q A Q I Y V LTTK DEGGRYTPFMANYTPQLFIRTADISTR
 HK K M L A S L Y I L S K E E G GRHSPFAENYKPQLEDRTTDVTGF H T R F E A QVY L L R K E E G G R H S P FFA GYRPQFFVVRTA DV TGE



 H TY A E T E V Y V L S K E E G G R H T P F F N G Y K P Q F F ll R T T D V T G S HQ HF KA QVYI LIKKEEGGRHTSFFAGYRPQFYVRTTDVTGH H N K F LA S L Y V L T K E E G G R H T GF H G NY R P Q M F L R T S D I P V T




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HKKFLLASMY I LTAEEGGRSTPF GEGYKPQCFFRTNDVTTS
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H T K F K A Q I Y V L S K E E G G R H T P F F K G Y R P Q F Y F R T T D V T G S
 HS K $\square$ K A QVYV L E K E K G GRHTPFVTNYSPVLFTKTTRITAA H TKFKCKVVVLKKEE GGRHSPFMSNYRPQFYFRTTDVTGA
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| UniRef90 I3YMX8 | R T VV\|GA GQ| $\mathrm{L}^{90} \mathrm{~K}\|\mathrm{~V}\| \mathrm{K}$ |
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## UniRef90-P18905

 UniRef90-A1Z9E3 UniRef90_C3YG46 UniRef90-10HDC2 UniRef90-K7IZ29 UniRef90-Q2GD83 UniRef90-X0MZX9 UniRef90-J4GUS3 UniRef90_T1PZJ2 UniRef90-A0A023FY52 UniRef90-C1C2Y5 UniRef90_UPI000367898C UniRef90-A0EFI6UniRef90-D7N852 UniRef90-B7POLO UniRef90_UPI0002E17ECF UniRef90_V4A9K8 UniRef90-Q9EZX9 UniRef90_V9D5E4 UniRef90-17MGI2 UniRef90_Q8M9W7 UniRef90-A5X485
UniRef90-J9K111 UniRef90_C1C2Q5 UniRef90-W8BJV6 UniRef90-UPIO0021A7B7B UniRef90-D6WPW8 UniRef90_Q5BEE6 UniRef90_U5EXC4 UniRef90-U3LNS1 UniRef90-R7JQ32 UniRef90-H3EZP1 UniRef90_K7IZG6 UniRef90-H2ZEC1 UniRef90_G4RCP9 UniRef90-GOU488 UniRef90_UPI0002FDDF21 UniRef90-H9KN87 UniRef90-W6KI62 UniRef90-Q0EEG2 UniRef90_S9V548 UniRef90-C9ZZV6 UniRef90_E5SDC5
UniRef90_I1CQD1
 HSQFLVSLYVLTKEEGGRHTGFHQNYRPQMYLRTADESCT
 KRFHAQDYVLTKDEGGRYTPFMASYKPQLFLRTADITVT



 HRKFKASFYI LTKEEGGRRTGFVDNYRPQLFTRTSDVTTH SKFMCS $\quad$ YVVLTKDEGGRHTGFGNHYRPQMY DRTADVAVG
 HTEFASEVYILXEKEGGRRTPFFAGYRPQFYVRTTDVGGA
 YKTFKAQMSLLSKEKGGRHAPFFNGDRDQFY DRTTDVTGA HDHDEAQDYLLTKEEGGRKKPDANLIQLQMFSKTWDIAAQ
 H T K F V S EVVYI LNKEXGGRHTPFFNGYKPQFYFRTTDVTGV YLKKEEGGRHTPFFSNYQPQFYVRTTDVTGS RTEEAK LYY LIKP DE GGRSKPFFTGYRPQCFLRTADVAVD H T DF MVSLYVLT EAE GGRSNGFTHKYRPQMFIRTADEAAS HNYFKAQVYMLSKKE GGREKPFTTNFQLQDFSMSWDCPAF HD QVEVVQVYVLTTKDE GGNGKPFTTNHALMMMSKTWDVSAS HTKFVA IVVYLKK K E E G GMHSPFFTRYRPQLYMRTTDVTGR
 $Y$ LK F TA QMY V L K A E E G GRTTTSFTNNYRPRGYVRTTDVVTGV HRKVQAQVYVLTTKDEGGMSTPFTCNSDPHMFSLTWSVTCA NHYKATI YFLSRSEGGRSKP■TSNYQQQLFSHTWNIVCR K K F K A QV LS K D E GGRYTPFMSNYRPQLF DRTADVVTVP
 Y T E A LVSMYVLTEEE GGRKTGFGENYRPQワFIRTADEAAD H S QFLVS LYVLSK DEGGRHTGFRENYRPQIFLRTADEACA
 HRRFRANLHALSTSEGGRHTPFAADYRPQFYFRTTDVPGG $N K F L V S M Y V L T E A E G G R R T G F G S N Y R P Q V Y D R T A D E A G D$ HQRFAAQVHLLTAAEGGRRTADASGYRPQFYLRTTDVAGE
 RRFTAAQVYVLSAREGGRTTPVSSSGRPQFYDRTADVVGD HTKFEAQVYVLTKEEGGRHTPFFPGYRPQFYVRTTDVTGK NHFE A Q I Y I L R R E E G G R R S P F F Q GY C P Q F Y FR T DQ I T G R H T K F E A M V Y ML T K D E G GR D T P $\square$ S E A DR P K F F FAR NDEVEGA HRRFQARMYALTAAE GGRHTPFEQHYRPQFYLHTTDVSGG NHYKAKVYFLSHSEGGRKKPVFSKYTQQMFSGTWNIACR Y D HVEA QAY LLT SEEGGRKKAVQDH $Q Q Q Q M Y S K T W D C P A Q$
HRKL R A R IVVTLTT $\begin{array}{ll}R R F T & A \\ R & E \\ K & \text { A } \\ \text { R }\end{array}$
H T K F D S QVYI L
 RRFRARVYLL
H N C $\square$ E S NL Y I L K

|  |  |
| :---: | :---: |
| Unil |  |
|  | 俍 |
| UniRef90-F8MBY2 UniRef90 - 3 P7P5 |  |
| $\begin{aligned} & \text { UniRef90D3B7P5 } \\ & \text { UniRef90 UPIOOO4409335 } \end{aligned}$ | GDHVEMVCNLLYDAAAEVGTRFTLREGG |
| UniRef90-B3S4D8 | LMLPDDKEMLMPGEDANMVITLHTDMPLEVNQRFTLRDSN |
| UniRef90_Q81E20 | VILNEDTQVANPGDNVKCVIELMYPLALTYGLIRFSLREGG |
| UniRef90 V2X224 | GTPDASNKMAMPGDNVELDCELYHDLAMDVGSRFTLRESH |
| UniRef90-G7EB06 | INDEAHEKQVMPGENVEATCELVHDVATEEGSRFTLREGG |
| B2G | IELKDDLKTVNPGDLVE\IVNLIYPVALEEGTSFSVREGG |
|  | G |
| UniRef90-S9P | K |
| UniRef90 W7IG89 | G |
|  |  |
| UniRef90 UPIO002FD2B21 | KAEMAAPGDNLKVRVELLPEMPMDENLRFA R RGG |
| UniRet90-K9 | I DNGRASDMAVPGDRVNMSVKLLQPMALEQNMRFAMREGN |
| UniRef90 - VIIEA1 |  |
| UniRet90-D6TX | GVEMVRPGEDILEVTVELMQPVAMEEGVNFVIREGG |
| UniRef90-E2BIH | S |
| 6M | GVEMAMPGD |
| 6- | EEVNVMPGDDVAVEESAVPLEAGQRFALREGG |
| Q0 |  |
| UniRef90_UPIO001B4 | IKLPSGVEMVMPGDNLSUEVALDKPVALDKGLRFAVREGG |
| UniR |  |
|  |  |
| UniRe90 | G DMM GGEDA |
|  | S |
| AOAO59 | MMVMGDRVKMVELMPACHQGMRFA RDGG |
|  | QVMPGENVEMNVTLIMPIVMEKGTKFAVREGG |
|  | N |
| UniRet90-J9JME1 | MVMPGEHAEVI ITLLNKMIMDIDGPPFTVRENG |
|  | MVMPGDNVELIGDLVHDVAMEKGSRFTLREGG |
| A0AO38G |  |
|  |  |
| S3CY3 |  |
| UniRe990 G4V780 | GREMVMPGEDAAVNLHEHRMALEVGQRFTLRADS |
| UniRef90-E9UZA8 |  |
|  |  |
| UniRef90- BOW5C | VDLAGQ EMLMPGDHGAVRLTLLRRMVMSCGQTFTIRENG |
| UniRef90-UPP00035A | LEIPDK DLLMPGEDGKLVFNMFKKMVMEKNQRFTVRDGH |
| UP100 |  |
|  |  |
| 181 | G |
| UniReif90 C C 3 YG46 | SVDMVQPGDDLMMVVTLTTPMAMEKPQMFTI ${ }^{\text {P }}$ |
| UniRef90-10HDC2 | DLGDRDLVMPGDTLDAVTVTLGKAVALEPGMGFAVREGN |
| UniRet90-G6D213 | 1 DLEPSMEMLMPGDHADVFLTLLEGMVMVKGQQFTIRENN |
| K7129 | LAMPGEDAKLDLKLLKNMVEKGQRFTLRDGT |
|  | GAEVMPGDDEIVELNPIAMEKGSRFA REGG |
|  | G |
| UniRef90 J4GUS3 | G |
| 1PZJ2 | DSPAQMVMPGDRUKMEELTQPAIEKGMRFA REGG |
| UniRef90 A0AO23FY52 | DVAGESMLMPGEFGEVE TLPKKMLMVTGQNFS REEK |
| UniRef90 - UPI000367898C | GGAGVALPGATVEMTVELGRAVPLEPGLGFAIREGG |
|  | G |
| DN852 | G |
|  |  |
|  | Q |
| P10002E | GELPQGLSSAMPGDNFQMTV |
| UniRef90-V4A9K8 | NVTINVVELTHPVAVENGTTFS |
| UniRef90-V9D5 | NLEMVLKTHHPVVMEAGERFNMREGG |
| UniF |  |
| UniRef90_Q8M9W7 | G |
| UniRef90-A5X485 | QKGGIPGDKLTLHEEKHYULILNMKFS REGG |
| eef90 J9K111 | VNVIGK DMGMPGEDCTVEMKLMKPVVIEKNGHFT RDGG |
|  |  |
| UniRef90-W8BJV6 |  |
|  |  |
| Q5 | QCLDEACRRVMPGDNVEMILNLNRPVAAEAGQRFNUREGG |
| UniRe90-U5EXC4 | MKLLDGK EMVMPGDNVSVEVELVPMAMDKGLRFAMSEGK |
| -9, |  |
|  | GTEMV |
| 2PU28 |  |
| UnRef90 H3EZP1 |  |
|  | K |
| 22 | S |
| G4 | G |
|  |  |
|  |  |
|  |  |
|  | FIMPGEHCEVKILKLNQKMFIEPQQRFTIRMNN |
|  |  |
| UniRef90-C9ZZV6 | KVMPGDSRELVLTLAYPMPMEKGLKFTIREGK |
|  | NIIVNLGVPVYVEPQQRFTLRSNC |
| Ref90 I1COD |  |


| UniRef90 Q9TMM9 |  |
| :---: | :---: |
| UniRef90_F0XM37 | R TVVAT Gl V T R I L K |
| UniRef90-F8MBY2 | $R \mathrm{~T}$ V A T G I I T R I M E |
| UniRef90_D3B7P5 | LT V G A GI I Q K V V |
| UniRef90_UPI0004409335 | K T V G T G I V T K I L |
| UniRef90_B3S4D8 | Q TVGT GIV T K Y L K |
| UniRef90-Q8IE20 | K TVVA S GVI T K L L |
| UniRef90_V2X224 | K T I G T GVVVT K I L |
| UniRef90_G7EB06 | K TII G T GLV T R V |
| UniRef90_B2G336 | R T I G A G T V I K |
| UniRef90_C7Q3S0 | R TVVGA GTV L EL |
| UniRef90_S9R6Z4 | NTVGTALI TEI L |
| UniRef90_W7IG89 | R T I A T G L V T Q I L |
| UniRef90-D4PBI9 | LT I G A GV I T K V L |
| UniRef90-UPI0002FD | R T V G S GVVTKVI |
| UniRef90_K9VA83 | $R \mathrm{~T} V \mathrm{GA} \mathrm{G} V \mathrm{~V}$ S HIL |
| UniRef90_A7AXF4 | K T I G A G I V I EL L |
| UniRef90_V4IEA1 |  |
| UniRef90_D6TXH5 | R T V G A G V $\mathrm{C}^{\text {T G }}$ |
| UniRef90-E2BIH5 | L T L G T GV I T N I L |
| UniRef90_U6MM36 | KTVA A GVV T EVL |
| UniRef90_F6H8Y9 | VT A Q V I V I |
| UniRef90_Q0H7S6 | R T V G |
| UniRef90-UPI0001B4684E | R T V G S G 1 |
| UniRef90-J9J5E8 | K TVA A GV I T K |
| UniRef90-F2SRH7 | R TV ${ }^{\text {A }}$ T G L I T R V L |
| UniRef90-U6HHE0 | S T M G Y GVV SELL |
| UniRef90-T1J6F1 | T TVGGTGVVTKIL |
| UniRef90-A0A059CYM2 |  |
| UniRef90-I2JV | $K T V G T G M I T R V Y$ P |
| UniRef90-B1A0T4 | K TVGA G TVVT D |
| UniRef90_H3D237 | S TICAGVI T D |
| UniRef90-J9JME1 | R TVA T Gli I S E |
| UniRef90-L8X390 | K T I G T GIV T E I Y |
| UniRef90_A0A038GJE5 |  |
| UniRef90_U1GWN8 | $R \mathrm{~T} \mathrm{~V}$ A T G L V T R V |
| UniRef90_S3CY31 | R T V A T G I V T R M I |
| UniRef90_G4V780 | S T I G Y GVV G K I |
| UniRef90-E9UZA8 | R TVAA A GTV T ELL |
| UniRef90_B6GX70 | R TVA T GLI T R V V |
| UniRef90-E3J791 | $R T V G A G T V \nabla T V L$ |
| UniRef90-B0W5G0 | K TVVSTGLVTTKVL |
| UniRef90_UPI00035A053B | T T L G Y G V I S E I L |
| UniRef90_UPI000288462A | R TVG A G T I T A V L |
| UniRef90-X2CQ79 |  |
| UniRef90_P18905 | F T $\$ G VGI I L E  \hline UniRef90-A1Z9E3 & LT L G T GVV T S T L  \hline UniRef90-C3YG46 & Q TVGGAVIVSKIV  \hline UniRef90-IOHDC2 & R T V A A G TVVTAVLD  \hline UniRef90-G6D213 & V T V A T G I I T D A M N  \hline UniRef90-K7IZ29 & $V \mathrm{~T} V \mathrm{GT}$ GVI TNLL |
| UniRef90-Q2GD83 | $\vee T V G A G Q V L E I M D$ |
| UniRef90-X0MZX9 | $R T \vee G A G T V R T V L E$ |
| UniRef90-J4GUS3 | K T |
| UniRef90_T1PZJ2 |  |
| UniRef90_A0A023FY52 | $R \mathrm{~T}$ VA T G I I S R M L |
| UniRef90_C1C2Y5 | $\square \mathrm{\square}$ V G T G I I T K L |
| UniRef90_UPI000367898C | RTVVGA GTV T A L A E |
| UniRef90-A0EFI6 | K TVAA GVI SKl L |
| UniRef90-D7N852 | R T V A S GVV S K I |
| UniRef90_B7P0L0 | R T V A T G V V S El L |
| UniRef90-T1HMS7 | S TVA T G I I T K I L |
| UniRef90_UPI0002E17ECF | $R T \\| G \square G V V A K A L D$ |
| UniRef90_V4A9K8 | LT T I T GVV T K TLL |
| UniRef90- Q9EZX9 |  |
| UniRef90-V9D5E4 | R TVA T G L I T R \ L |
| UniRef90-17MGI2 | K T I A A GVI S K V I |
| UniRef90_Q8M9W7 | VLVG VGI I S NL I |
| UniRef90_A5X485 | K T I G A R I I T E |
| UniRef90-J9K111 | S TVVGTGVITEI |
| UniRef90-C1C2Q5 |  |
| UniRef90-W8BJV6 | A TVAT GMI TE |
| UniRef90-UPI00021A7B7B | M S I A T GVI T N L L |
| UniRef90_D6WPW8 | V T V A T Gl I T A T L |
| UniRef90-Q5BEE6 | R TVA T GLI T R V I |
| UniRef90_U5EXC4 |  |
| UniRef90-U3LNS1 | $\square \mathrm{T}$ V A A VVGE CL |
| UniRef90_R7JQ32 | R TVVGA GQ\| T E |
| UniRef90_E2PU28 | $R T$ I GA GTV T EVVL |
| UniRef90_H3EZP1 | T T I G T GVFTEV |
| UniRef90_K7IZG6 | C T V A T Gl I T A V H D |
| UniRef90-H2ZEC1 | S T I G T GIV V T E |
| UniRef90-G4RCP9 | R TVGA GVVSK\V |
| UniRef90-G0U488 | $\square \mathrm{T}$ V GWGVV T E |
| UniRef90_UPI0002FDDF21 | RTV GA GRI T A V |
| UniRef90-H9KN87 | VT I A T GVI T N I L |
| UniRef90-W6KI62 | $1 \mathrm{~T} V \mathrm{GWGAV}$ A D TVV |
| UniRef90-Q0EEG2 | TTI G T GVVFVELL |
| UniRef90_S9V548 | 1 T V GWGAVT E |
| UniRef90_C9ZZV6 | $\square T V G W G A V T E C L$ |
| UniRef90_E5SDC5 UniRef90_I1CQD1 |  |



HTKFSAQVY LTKEEGGRHSAFLVGYQPQFFMRTTDCTGR

## DFVA E LTTYRTLEEGGRSTPAFSKYRPQVKFDFDDMTSG DVEAKGT F LIKEEE G GRTRSVLSGYRPNHRVRDDY LTT G

T G D
HTKFESEVY ILSKDEGGRHTPFFKGYRPQFYFRTTDVTGY HSKFVAQVYVLTKEEGGRHTAFFSQYRPQFYFRTTDITGV H T K F EA Q V Y V L T K E E G GR H S P F L V G Y Q P Q F F V R T C D I T G K
 HTDFEGQVYVLKKDEGGRHKPFFSHYSPQFYFRTTDVTGT D F R A T L K YK K T E E GGRYYTP A K S G Y C P T D $\quad$ K K F S F E K GF G G H T T F E A QV Y MLTTK E E G G R H T P FF P GY R P Q F Y V R T T DV T G K
 HTGFKAPVYVLTKEEGGRKKPFFTGYRPQFYFRTTDVVTGT


HTEFEAADYVLKKEEGGRHTPFFKNYKPQFYFRTTDVTGG T DF $\square$ A E L E FLP S E K S GRK S P A H S GYR P H $\square E F Y P E Y L T S G$ HK QFK GEVVYVMTK E E GGR HTPFFSNYRPRFYFHTTDVVTGT

 HTSFESEVYI LTKEEGGRH

 LD K


 H S E A E A E E V
 REFEA EVMV L $V$ N H P P

R E F E A EVMVLNHP
REFEAEVMVLNHP


| UniRef90 T1KAF0 | $\mathrm{F} T\|\mathrm{~L}\| \mathrm{A} T \mathrm{G}\|\mathrm{~V}!\| \mathrm{T} E \mid V \mathrm{~L}$ |
| :---: | :---: |
| UniRef90-D4MUH8 | C TV G L G R I S Tl I E |
| UniRef90-K1P2A2 | NTVGGYGVVTKIMD |
| UniRef90_S2M3F6 |  |
| UniRef90_Q2BPJ9 | $R \mathrm{~T}$ V K G V I T K I IE |
| UniRef90_U1KVS1 | Q IV GVGHVT D T F D |
| UniRef90-UPI00026599AF | V T L A S G K I T G I L |
| UniRef90-W2UZ35 | RTV G S G Sil IE V L |
| UniRef90-J0DNN7 | V T I G T G V F T K L |
| UniRef90_K1U8Y7 |  |
| UniRef90_J9FR65 |  |
| UniRef90-E5RYE7 | S T 1 VR G V V T S L F N |
| UniRef90_D1MWP6 |  |
| UniRef90-D1MWK5 |  |
| UniRef90-R7FK08 | K T $\square$ G S G V I T H L H E |
| UniRef90_P42478 |  |
| UniRef90-T1K3B9 | V T Y G T G V I V D |
| UniRef90-W4FMV1 | $L \mathrm{D} V \mathrm{~V} \mathrm{~V}$ G V V T N L |
| UniRef90_S8C431 |  |
| UniRef90-M3B6R8 | R T V G T G TVT A V |
| UniRef90_UPI0004416F25 |  |
| UniRef90-H3E9X6 | Q T $\square$ A R G |
| UniRef90_B7U4Z8 |  |
| UniRef90-X6E2C7 | $R \mathrm{~T}$ VGA G $\$ V V T $\square \mathrm{KE}$ |
| UniRef90_V1NPS6 |  |
| UniRef90-UPI0003B7263B | VR $\$ G F G V V T G V  \hline UniRef90-Q0EEG3 & TTI A CGI F L E  \hline UniRef90_X2MWH8 & R TVVGA GVVAKVL  \hline UniRef90_D1MWK4 &  \hline UniRef90_D1MWK3 &  \hline UniRef90-G5EDF5 & T T I A R G I I S D  \hline UniRef90-A7BNY6 & $R T V G A G V V S K I T E$ |
| UniRef90-D1MWM3 |  |
| UniRef90-UPI0003B7B1F7 |  |
| UniRef90_Q0KKX0 | R T I A R G I I T E M M |
| UniRef90_A0A016VKC5 | Q T I A R G l V S E |
| UniRef90_Q2MHP0 |  |
| UniRef90-11VXP2 |  |
| UniRef90-B6W6Z6 |  |
| UniRef90-XOWNV6 |  |
| UniRef90_UPI000363848E | RVI G F A KVVT KIIF N |
| UniRef90_Q69B00 |  |
| UniRef90-K2L7X5 |  |
| UniRef90_F4YWS6 |  |
| UniRef90_Q02BP9 | $R \mathrm{~V}$ VG Y G K $\square$ T R L L E |
| UniRef90_A0A017H1K9 |  |
| UniRef90-A0A011Q3S0 | $R \mathrm{~T}$ VGA G V VA K I IE |
| UniRef90_K9MHQ1 |  |
| UniRef90_A8UWM3 |  |
| UniRef90-T0P5W8 |  |
| UniRef90-UPI00036CCD03 | $R \vee V G Y A E I T N V F N$ |
| UniRef90-X1NYF6 | $K \mathrm{~T} V \mathrm{GA} \mathrm{G} V \vee \mathrm{~V}$ T K I V K |
| UniRef90_UPI00016C3D7B | K TVGS GVVSEVLE |
| UniRef90_UPI0001913D38 |  |
| UniRef90-W0S262 |  |
| UniRef90-V5JV24 |  |
| UniRef90-K4K1V8 |  |
| UniRef90-K2BAB9 | K T VG A G VA T K I K |
| UniRef90_W4TZY5 |  |
| UniRef90-UPI00036B0397 | $R \square \mathrm{I}$ T T G T $\square$ T K $\square \mathrm{N}$ |
| UniRef90-X5FD73 |  |
| UniRef90_L8EM35 | R A A G S GTVTRLL |
| UniRef90_G2GHL4 | R TVG A G TVT |
| UniRef90_Q49K91 |  |
| UniRef90-X6NCV6 | Q T $\square$ G Y G T $\square$ LD A VE |
| UniRef90-H6TI59 |  |
| UniRef90_D7N762 | $R \mathrm{~T}$ VA S G V V S K I I E |
| UniRef90_U4VIC1 | $R T V G A G I V S S \ I E$ |
| UniRef90_D3UAJ8 |  |
| UniRef90-Q11XJ8 | NT $\square$ G F G K V Le $\square$ I N |
| UniRef90- Q8KMQ6 |  |
| UniRef90-W2TZV0 |  |
| UniRef90-C5KAG3 |  |
| UniRef90-E6N9Q0 | K T K G $\square \mathrm{G}$ V V T K $\square \mathrm{L} \mathrm{E}$ |
| UniRef90-Q9BAB4 |  |
| UniRef90 B0M2B7 |  |
| UniRef90_E4NPX0 | SK GVGTVTETHE |
| UniRef90-13R7R9 | R S K GVVGTV T K V |
| UniRef90-R6LWF0 | K K V G K G L V S D |
| UniRef90-B9EPC4 | K T I G T GLV T D L L |
| UniRef90_B0BJM0 | HLVA H GV I V NVVIN |
| UniRef90-B4XVL9 |  |
| UniRef90-E9UXV9 |  |
| UniRef90_UPI00016C44FA | R R V/A E G V VT R】 |
| UniRef90-X1JVT8 |  |
| UniRef90-17C6Y4 |  |
| UniRef90-M7XKY1 | $R \mathrm{~T}$ K A L G V V T R L L |
| UniRef90_C7P4A5 | R S K G V G T T S ${ }^{\text {S }}$ |
| UniRef90_A0A021WEE7 | $R \mathrm{R}$ VA T A TVVVEVF |
| UniRef90_UPI0003C426E5 | R T I G T G LV T D |
| UniRef90_E7QZW5 UniRef90_W0K0L9 |  |

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UniRef90 E9BPN1 UniRef90_W6L7D3 UniRef90-M113S7 UniRef90-UPI0003707263 UniRef90_S2JTM4 UniRef90_D1YXX5 UniRef90 B0BH45 UniRef90_UPI00026583D8 UniRef90-C3XRA4 UniRef90_T0Y2A5 UniRef90 E3GWV8 UniRef90_C1K2L5 UniRef90-F9X2Y4 UniRef90 UPI000444A031 UniRef90-E4ZXR6 UniRef90-C6A4R7 UniRef90-O36034 UniRef90 \({ }^{-}\)I1GHLO UniRef90-UPIOO03511734 UniRef90-T1EZ20 UniRef90 Q17045 UniRef90-K4ED94 UniRef90-R4WA54 UniRef90_C1EED2 UniRef90_X8JM82 UniRef90_V2XEH7 UniRef90_UPI0004745340 UniRef90 P25166 UniRef90-UPI0003496846 UniRef90_G0QHP1 UniRef90_E6N552 UniRef90_R7QPV1 UniRef90-A0A024T9U6 UniRef90-R9ARM0 UniRef90_C1MUV5 UniRef90-Q5EVA5 UniRef90-EOVSH9 UniRef90-TOPZ50 UniRef90-I1G5B5 UniRef90_U7PVM0 UniRef90-W3VKP6 UniRef90-F0T8P9
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[^1]| UniRef90_E9BPN1 | $\text { RTKG\|! } \operatorname{GTV\|T}{ }^{90} \mid \mathrm{L}$ |
| :---: | :---: |
| UniRef90-W6L7D3 | TKGI GVVTRLME |
| UniRef90-M1I3S7 |  |
| UniRef90-E3JTI8 | KTKGLGVI TKLL |
| UniRef90_UPI0003707263 | R R $\square \mathrm{GAGGV}$ |
| UniRef90-S2JTM4 | RTKGVGKI TQLL ${ }^{\text {C }}$ |
| UniRef90-D1YXX5 |  |
| UniRef90-B0BH45 | RRVAEGVI RGI |
| UniRef90-UPI00026583D8 | R T K A VGKV VRI |
| UniRef90-C3XRA4 | RTKGI GTVVTKVF |
| UniRef90-T0Y2A5 |  |
| UniRef90-E3GWV8 | RTKGl G S I T K I |
| UniRef90-C1K2L5 | Q TVAVGVIKEVVK |
| UniRef90_F9X2Y4 | RTKGLGI V |
| UniRef90-UPI000444A031 | K TKGLGVIT R |
| UniRef90-E4ZXR6 | RTVGAGLMENV |
| UniRef90-C6A4R7 | QTVA AGMVIS |
| UniRef90_O36034 | RTVAVGVVTE |
| UniRef90-I1GHLO | RTKAI GTıl |
| UniRef90-UPI0003511734 | RTKAVGTI TKV |
| UniRef90-T1EZ20 | MTTVTGIVTRVL |
| UniRef90-Q17045 | R T K AVGTV $\square \mathrm{K} V$ |
| UniRef90_K4ED94 | R TK GI GTV T K V I |
| UniRef90-R4WA54 | SK GVGTVV |
| UniRef90-C1EED2 | R T K GVVGVV |
| UniRef90-X8JM82 | K TKGLGVI T K VL |
| UniRef90_V2XEH7 |  |
| UniRef90-UPI0004745340 | A TVAAGMCLD |
| UniRef90-P25166 | Q TVAVGVIKEVVK |
| UniRef90-UPI0003496846 | K ENGEGVVV |
| UniRef90-G0QHP1 | Q TVGA G |
| UniRef90_E6N552 | MTVAA GVVKEITT E |
| UniRef90-R7QPV1 |  |
| UniRef90-A0A024T9U6 | QAKGI GQVVRVL |
| UniRef90-R9ARM0 | KTVAI GKI TKKLIE |
| UniRef90_C1MUV5 | RTKGI GVI REIM |
| UniRef90-Q5EVA5 | QTVAVGVIK |
| UniRef90-EOVSH9 | KTKGI GTVVTQVF |
| UniRef90-TOPZ50 | QAKGI GQV T R I |
| UniRef90-I1G5B5 | R T VAVGVI K EVT K |
| UniRef90-U7PVM0 | RTKGLGI |
| UniRef90- W3VKP6 | RTVAI GKVTKL |
| UniRef90_F0T8P9 | RSK KVGTITKil |
| lupas_21 |  |
| lupas_14 |  |
| lupas_28 |  |
| jnet |  |
| conf | 0589999982189 |
| sol25 | В В В В В В В В В |
| sol5 | B B B |
| sol0 | B |
| jhmm |  |
| jpssm |  |


[^0]:    lupas 21
    lupas_14
    lupas_28
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    conf
    sol25
    sol5
    sol0
    jhmm
    jpssm

[^1]:    lupas 21
    lupas-14
    lupas_28
    jnet
    conf
    sol25
    sol5
    sol0
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    jpssm

