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UniRef90 A3DN55 UniRef90-A8A8V6 UniRef90-TOYXM3 UniRef90-T1ALV4 UniRef90-B5IFE2 UniRef90-E6N7D1 UniRef90-F4BXV4 UniRef90-A5UMM2 UniRef90-F4BWU4 UniRef90-UPI00036860F2 UniRef90-B8LR50 UniRef90-х1QM28 UniRef90-UPIO002C2FCE9 UniRef90-A1RXL1 UniRef90-111N73 Unii Refo-O8TXF9 UniRef90-R9SJFO UniRef90-F6BCD3 UniRef90-M7TC47
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SNVVLIGKKPVMNYVLAALTLLNQGVSEIVIKARGRAISK EHVVYI GKKPVMNYVLAVITOFHEGAKEVSIKARGRA m
 NVVYI GSKPIMNYCLAVLSSLQGNDDTVELKARGRAISS DNVIFVGNKPVMNYVLAAVTQFNEGAKEVTIKARGRAISR ENSVFVGNKPVMNYVLAVLTQFNSGATEVSIKARGRA:SR ENVVYI GNKPVMNYVLAVVTQMNSGVPEVMLKARGRAISR DNVIYIGNKSVMSYVLAVVTQFNNGFDEVVIKARGRAISR
 NEVRVGKKPVMNYVLATLTLLNQGVDRIEIKARGRAISK ENVVYIGKKPTMNYVLAVVTQFNNGMPEVTIKARGNAISR ENVVLVGKKPPMNYVLAVVTQFNSGVKSVKIRARGNAISR



 ENEIRITTQGMRNYITYAMTLLEKGASDIILKAMGRAI S ENAVFVGRRPTMNYVMAVMMVLNKGVEDCTVKARGKAIS SH EGSVLVGNKSVMNYVLAAVIQFNQGAKKVSIKARGRAISR ENEIRITALGRMNYIGYGMSLLEEGHDEI II KAMGRAI NK ENVVYVGSKPVMNYVLACDTQFNEGANEVRIKARGRA: SR NNAVYIGNKSIMNYVLAVITQFNQGAKEVKIKARGKAISR ENDIYVGRKPPMSYVLAVVTQFNSGSDEVILKARGRS:I ST ENEARITAQGRMNYITYATALLQKGSNEIVLKAMGRAINK ENEIRITSQGRMNYITYAMTLLQEGSDEIVFKAMGRAI NK ENVFVGNKPVSSYVLAAVTQFTSGSKRVVLKARGRAISR ENTIFVGKKETMSYVMALMTQFNSGSDEAVIKARGRAISK
 E
 GKKPTMNYVLAVVTQFNGGSNDVIIKARGKAISR DNDVVGNKPVMNYVLAVVTQFNNGAGEVIIKARGKAI SR

 EVTVLVGKKPPMSYVLACLIALQQGQS VTLKARGRAI SR EQTILVGKKPTTNYVIATVMAFNAGПKRVVLKARGAAISK ENIVYVGSKPVMTYVMATITAMNDQDEVVVKARGRSIST ENEIRITTQGRMNYITYATTLLQKGSTEIVLKAMGRAI NK ENEI RVTAQGTRNYISYATTLFQQRTNEIVLKAMGQAISK

 DGII YIGNKGVMNYVLAVITQTNNETNEI RLKARGRAISK NEVRITAQGRRNYIGYALAGLQDNADEVVIKAMGRADVK NDIIFVGKKPVMSYVMAILTHMNSGNNKVIIKARGSAI ST ENEIRITSQGVRNYYSYATSLLQERSKE:ILKAMGQA $\mid$

 DNVVLIGKKPVMNYVVAVLTQLTSNDEVIIKARGKAI NK EGIVFVGKKPAIVYVMATTLQINRGVKKIVLKARGRSISR NNTIFIGKKPTENYVFSTVMLFTNGASEVSIKARGMA $\mid$ KR EVRDGRKPVMNYVLAILTLMEQGTNQVVVKARGRNINR ENDIYVGKKPTMNYVLAIVTQFNSNTDKITVKARGKAISK ENEIRITTQGIRNYISYAASLLQQEAPEISLKAMGQAISK ENERVGKKPVMNYVLAVLTLMEQNVGAVVVKARGRNITK

 ENEIRITSGPLRNYISYGTSLLQEKVKEVVLKAMGQAISK NDVVVVGRKPVLRYALAVGLSFNRGSTEVVIRGRGRAVAK MNYVMAVLALLNQGVDEVIVKARGRAISK NTMYGGRPLMNYALVAIGMFNENAEEVKIRARGSNICK ENEVRIMAAGKMNYISYATTLLDKGHDAVVLKAMGRAINK ENSIYVGDKGVMNYVTAVMTLFDKDINEVILKARGKSIVK E

## QUERY

## UniRef90_Q9V1N3 UniRef90-G0EEK7 UniRef90- XOT107

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A VDTVETVRNRFDPDK DETKEDRVGSQVVTSQDGRQSRVS

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 AVDVAEIVRKRFLPD AVDVAEIVRNRFLPE AVDTAEVVKNKFMPG AVDVAEIVRNRFMPN | $L$ | $T$ |
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## A














 A V D A V E V T $\quad$ R N R F M S N L | $A$ | $V$ | $D$ | $V$ | $S$ | $Q$ | $I$ | $T$ | $L$ | $K$ | $R$ | $M$ | $E$ | $S$ | $A$ | $G$ | $Y$ | $K$ | $I$ | $G$ | $D$ | $V$ | $R$ | $I$ | $G$ | $S$ | $E$ | $T$ | $V$ | $Q$ | $S$ |
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| $A$ | $D$ | $G$ | $R$ | $T$ | $R$ | $N$ | $V$ | $S$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $A$ | $V$ | $D$ | $V$ | $A$ | $E$ | $I$ | $V$ | $R$ | $R$ | $R$ | $F$ | $I$ | $K$ | $E$ | $A$ | $Q$ | $V$ | $R$ | $D$ | $I$ | $K$ | $I$ | $D$ | $T$ | $E$ | $V$ | $L$ | $S$ | $A$ | $S$ |
| $S$ | $G$ | $E$ | $S$ | $A$ | $N$ | $V$ | $S$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



 AVVVA EVVRKKFMA G QVDI K S I S I D S
 A V $\operatorname{ST} A \operatorname{A} M V \operatorname{R}$ AVDAAEVITRNYLNDL KSTVEI GTRKVQGQGGRERTVA










 | $A$ | $V$ | $A$ | $I$ | $A$ | $E$ | $F$ | $I$ | $K$ | $K$ | $R$ | $H$ | $L$ | $H$ | $Q$ | $D$ | $I$ | $S$ | $I$ | $S$ | $S$ | $V$ |
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| $A$ | $V$ | $D$ | $V$ | $A$ | $E$ | $M$ | $I$ | $R$ | $N$ | $R$ | $F$ | $I$ | $K$ | $D$ | $I$ | $K$ | $I$ | $K$ | $K$ | $I$ | $E$ | AVDVAFITRLKYFPGKLKIT DLRTGTDKVNPDGREVNVS






 T V $V$ M $I$


 A V D A V E I I R N K L L L A E K V E V K




 | $A$ | $V$ | $D$ | $V$ | $Q$ | $V$ | $L$ | $L$ | $K$ | $K$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $A$ | $V$ | $D$ | $V$ | $V$ | $E$ | $V$ | $V$ | $R$ | $R$ |
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| UniRei90- NoBJW6 | T EIV |
| UniRef90-X0T107 |  |
| UniRef90-Q0W |  |
| UniRef90-O291 |  |
| UniRef90-FOTB |  |
| UniRef90-D1JE96 | S |
| UniRef90-E3GX15 | A ${ }^{\text {a }}$ E: R |
| UniRef90-A3DN55 | T 1 Et KL |
| UniRef90-A8A8V6 | Ti Di VL |
| UniRef90-TOYXM3 |  |
| UniRef90-T1AL |  |
| UniRef90-X1LU6 | T V E |
| UniRet90-B51FE2 | S E E |
| UniRef90-E6N7D1 UniRef90 F4BXV4 |  |
| UniRef90-F4BXV4 |  |
| UniRef90-A5UMM2 |  |
| F4BWU4 | A! Et TLGK |
| UniRef90-UP100036860F2 | VI E1 HL |
| UniRet90-B8LR | MI T ${ }^{\text {M }}$ ML |
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| UniRef90-UPIOOO3761949 | T E K K V |
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| UniRef90-A6UWM9 | TI EIV |
| UniRef90-K3Y912 |  |
| iRef90-A2SRC9 | S |
| D6GV |  |
| UniRef90 M11 |  |
| UniRef90-TOMC1 | S: E: V |
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| UniRef90-ToLLF8 |  |
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| niRef90-Q57665 |  |
| B1L6 |  |
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| UniRef90-X1AAQ33 | SI EI CL |
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| UniRef90-UP10002BCB774 | Vi |
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| UniRef90-UP100042B10B9 |  |
| UniRe90_B9GN17 | M ${ }^{\text {P }}$ |
| UniRef90_UP10003686204 | Fl E:R S R |
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| T1BXY0 |  |
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 DNVIFVGNKPPMNYIIAVLTEFKK SDEVVVVARGRAISK


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 ENE $\square$ R $\square$ TS QGRMNY TTYATSMLQEKSNE I LIKAMGRAAI DK

 N E I R I T S A GVVMN Y V A Y A A R L L E Q N M R K I Ni K A T G N A I A R

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 ESIVYVGSKP\|LAYVTA AMTAFGGNPEKVIVMKAGRSIMS
 $N$ EI R V T Q Q Gll R N YM K Y A TN L L T E G Q T S L Y L

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 ENEVVRVTTHGQHSYISYVIDVLNGEDDTVNISGMGGA$I$

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 AVDVAEIVRDRFVEDA EIVEI TI GTDETETDEGDELNVS

 TVMVAELI KRRVLHQNTSI ESVGI T DTWEPDEEG



 AI DVS QMIVKRMM
AVTLA E I KKRRFMHQ AVTTAEVVKRK IDANDTLEVTD DWEPDEEGLKEVTTTRRVA AVDAAEVTKN
AVGVA EVLK R RVA G L H H Q T TEDS SEVIHDEEGDERKVS



 AVNGAEVVKRRVLHQQTEDASESVRDEYEPHDRERERKVS

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 TKK P L F F Y V NLAKRYLQQ H TEIVELSALGMAI TT K K P L F F Y V N L A K R F L Q E HGEVQLSALGLAI S S $N \boxtimes R$ V
 T K K P L F F Y VN L A K R FM Q Q Y N EVVELS A LG M A I A T
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 GSK I R NLMSFAMAQMEKGSRQVVESGCGRAVTK $N E D R M T A K G I G R Y I T Y A G S L L E N K A E K V V I K A T G D A I K N$ VVRVSNKRKFGYVDYTKHRLHEGYPEVTISALGTAIAD
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GSK IIR N LMGFAMARMQEKLRQVVFTGSGRAVVTK
TKKPLF F Y V N L A K R Y M Q Q H N EVVELSALGMA T T ETTUI DRNRDKDKSIM DADFAFSGGRKSLLIMKGEGQEI ST
 D T I I N I R Y D P V M Q A A I D IL L P I L G N K K K V I L R A V G E S I P N NVIRVANKALSTQVRKALWLLQGTRKEI YITAISENAISK
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 MALVTALQKE PTVIVMARGRAI S S
 T K K P L F F Y V NLAA K RYMQQ HNEVELSSAGGMA I A T GSK I R N L MGFSMARMQDGARQVVGSGSGRAVTK $\square R \square T K Q P V R N Y V R F A \square K Q F K E N K D T I T F R A M G E A V S K$

## LMGFAMARMEL KGTRQIVFSGCGRAVTK

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 LNLFAK GEESVEI KAVGKLVP K Y LE F VK H R F H D G V T E I IVS GLG QA I S D



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| UniRef90-R7VUC4 | S 1 C L L |
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| UniRef90-A0CAN3 | S FQ I KL |
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