## QUERY

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 ETTPPPTADLDRTNDKVYENVTALVKAVLEMSAKI QPAAP KVEPTKTMPLDRTNDMVYNATTSVVKSIMALSQGVDRAQA
 K L E P TPTADLDRTHDKVYECTTLVVKAVMTLSQGVQQNQT $K M D P A P T A D L D R T N D Q V Y D C T T N V V K A V M S L S Q G V Q A S R A$
 PPTVEMDRTDDRVYESTTRVVRSVMVLSQGVTEARV LS DQPTANLDRTDDMVYDNVMDLVQAVLDLKNKLCQLPP

 EPPP MS PS QSTNPSHSNDPVYE KLEPTPTARLDRTHDKVYDATTSVVRAVMLLSQGVQQAK $K L Q P R P T A E L D R A G D E V Y T G V M A M V K Q V V Q L K N D I T T L P S$ RSTNDI DRTNDGVYDSTTSVVRSVMTMTKEAQTGKA
 KMEPTPTADLDRTNDKVYDCTTSVVRAVMSLSQGVQQSKA P A L S S L N R R E K D A A V Y Y I A T T

 EVKPTPTMKLDREGDAVYRDTMLVVKAVLQANQEVMAAKP

MDLDRTNDHVFDNTTGVVRAVMEMSNKLQYAKA KVEPTKTMPLDRTNDMVYNATTSVVKSIMALSQGVDRAQA KLEPTPTARLDRTHDKVYDAMTSVVRAVMLLSQGVQQAKI PTPTARLDRTHDKVYDATTSVVRAVVLLSSQGVQQAKI

 PSGYEFDRRSDTVHGAVLRVI GAVTDLSREFHTTMT ETSPPPTANLDRSNDKVYENVTGLVKAVTEMSSKDQPAPP

 K LEPTPTARLDRTHDKVYDATSVVC

VSRAVNAVTEAVDRLNNTFNNMKH LEPKPTARGDRTHDKVYDATTSVVRAVMLLSQGVQQAK HPTANDDRTDDMVYVNMELVKAVLQLKNQLGQLPP DPVFSATVKVVQTVSLVSQQIITSKP TPTSTRSL RFEDKASQSVDGVCDAVAKLQNSFNNLTH KLEPTPTARLDRTHDKVYDATTSFRRAMLLSQGVQQAKI KLEPTPTARLYRTHDKVYDATTSVVRAVMLLSQGV
K Leptptar
$T P T S T R S M R F E D K A S Q S V D G V C D A V A K D Q N S F N N D T H$ PTLSRSVTSEADTVHRAVYSVMQLILTVAKKPAFSSM

QUERY<br>UniRef90_UPI000175855D<br>UniRef90-S4RUN4 UniRef90-W5J275 UniRef90 F7DTG2 UniRef90-T11867 UniRef90_UPIO0046B89CD UniRef90-EOW0G7 UniRef90-W5NL16 UniRef90-H2T8R33 UniRef90-B7PFN0 UniRef90-L5LTI7 UniRef90_B9UPG7 UniRef90_UPIO003F09321 UniRef90-B4MRQ5 UniRef90-R7TYU7 UniRef90-T1E1S3<br>UniRef90-UPIO00329CF12<br>UniRef90-E9HZR3 UniRef90-H3DAJ0<br>UniRef90-V3ZMB0<br>UniRef90-T3ZMB6<br>UniRef90_UPIO00395A9AB<br>UniRef90-E2BTJ2<br>UniRef90_UPIO003C35732<br>UniRef90_U4UCC1 UniRef90-V9KBT7<br>UniRef90-K1PK15<br>UniRef90_Q7Z1D3<br>UniRef90_UPIO002657575<br>UniRef90-F6WUP4<br>UniRef90-G1LET6<br>UniRef90-M1S3K9<br>UniRef90 E9HYR1<br>UniRef90-E9FV07<br>UniRef90-Q5MCM8<br>UniRef90-F6Z3G4<br>UniRef90-I1FSY2<br>UniRef90_UPI0002B44A09<br>UniRef90-J9BAF6<br>UniRef90_UP100027FBB73<br>UniRef90-E9FQY8<br>UniRef90-H2KUC0<br>UniRef90-E4X0J3<br>UniRef90-E9G185<br>UniRef90-A0A016SSV6<br>UniRef90-E9FR01<br>UniRef90-HOZWW4<br>UniRef90-G4VP68<br>UniRef90_H2WK55<br>UniRef90-E9FRW8<br>UniRef90_E9H6G8<br>UniRef90-E9H6A7<br>UniRef90_UPIO004573CDF<br>UniRef90-E9GLU6<br>UniRef90-T1EIB1<br>UniRef90-UPIO0034F8137<br>UniRef90-K7IL09<br>UniRef90_W6UE58




## QUERY

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$\qquad$ KVISTDMAT K KVLSKDMGALI K L L NKDDAN KVLSKDMAEL A A MKLAQNY KVLSKDMSDVAAMKLAQQYSDTTLDVEYKKGMLSAAHVL
 NVLSTDMASI I AAMKLA DQYSTTTMDVEYRKGMLKAAHVL KVLSSDMGELI NAMKLA QKYATTTLDQDYKRGMI QAGHVL KVLSKDMANLVQAMKLABRYYKTALDGEYRKAMLASAHAL
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 RDLDCSTGD KVHSKDMAE LVSALKLAE WYSNTTLDNEYRKSARDAGLVL KVLSQGMAEL

GMLSAAHVL RQVNASMFHLISTIKDATATNRGPLLEEFRRHLMTLCYAV RSVVYEMKQVIS QU TNVRNFDGTKTASEYRNVLMASLLVM KVLSKHMAELVSALKLDERYSNTTLGNEYRK ALIGNDMRQMGKVVQQVVDNTNNPSYH $\square Y R R E V V R \square A K E M$
 RQLNSSMYSLITTTKSAKQNNRGPLLEEYRRHLMSLAYAT
 MAELVSALKLLAERNSNTTLDNEYRKGNAVCSPHF KVLSKDMAELVSALKLDERCSTTTLDND KVLNKVMTELVSALKLDERYCNTTLDNVPQ GNAVCSPHF
 KVLSKDMAELVSALKKDERCSNTTLDNEYRKLILKKLA KLLIS DMSNLVKHTKLADANRSTVIDFQYRKQMLQAAHVI QVLSKDMAALVEAMRLADQYHDTTLHHEYTK
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AMDAKNLLDVVDSTRIK
AMDAKNLLDVVDSVRMQ
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AMDSKNLLDAVDQARVRA

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AMDAKNLLDVVDSARL
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AMDAKNLEDVVDSI RRR
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AVDSKNLLDAVDQARLKA
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AVDAKNLLDTVD
A MDAKNLLDVVDKSRLQALA
A VDAKNLLDVI DQARLRMLGTT AMDAKNLLDAVDSARLK

## G

A $\square \mathrm{DAKNLYDTFSKLKNKVLEET}$ AMDAKNLLDVVDCIRER
A VDAKNLLDVIDQARLRMDSHS AVNSKHLLEAFSQAR


## A V


ANDAHSLYSAVHDCRLR
S $\square$ AVKNLQDVIDKAR
A VNCTNFLSLFEN RNRVK
A VDAKNLLDVIDQAR $\square K \square$
AADANSLYTTVYENRSK
AV V CTTLQ
G
$\stackrel{G}{A} \nabla D S K N L L D A V D Q A R L K A$
A VDAKNLLDT $\quad \mathrm{DCAR}$
ATDTRALFQSFQQCR


