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HHMGNLNRCIAD IVS LFTTVMDKLRLEDRAMDEDQPDLRE D K G N T S K C I A D I V


GASARAVAEATGNFI D K G STS K Al A D T V S LFI D K Q N $\square$ N K S I A D T V S L F I

AGPSAKAVAECTQNFI
 D K G N T S K C i A D D G G N T S K CVVA D I V S L N K GNMSK A I A E I I V S

NSARYVAEAVQFF DKGNTNKYI AE IV S LF D K G N T S K CI A D I V S L F

TAKWI AETTQNF
HNTTNDSVNVAQTVQNF
$\begin{array}{llllllllll}T & A & A & A & V & E & C & V & Q H & F \\ T & S & K & S & A & D & V & M\end{array}$
D K G N
GKWVAETTQCF
DK GNTSRCIA D V V S LF
GAS GSLILAATENFI
NESSKASRGVVARATGF A K WVVA $T$ T Q N F T AKWVAATTQSF

RAVAEATGNF NSRFSAKAVAEATGNF DDGNTSECIA Q V V S LF T A K WV A E T TQSF
$G \bigvee S$ A K Q V A E A VQ N F NEAQTAKWVAETTQSF S SKWVAETTQRF S SVVAVA ETVQHF $\vee$ A TAKNVABTTQNF
DAG TASAVAECVQYF $H N T T S T A V N V A Q T V Q H F$ DKGNTSKCI $\vee A$ Q TV

DVAK S A K Y IAA E SVLDH F VAEIVQNY DKGNLLKNIAVIVEVF ARNAAVHVABEVQSF NGGNSARAVAEATGNF D K G N
 DKGNLNRCIADVVS
DKGNLNRCI A DVVS ATVMDKLRLEIRAMDEI QPDLRE

$D Q \square G$ $R A R Q A A E T T Q C F$ GKAlAETVQHF $M A K N V A E A V Q L F$ HTTNRKK CVARTV D K G N L N R Cl A NVV S LF DKGNTSKCIA DI I A C S

NSSGTNGPLIVEAAQDF
GNTGALILEATQEF SAVAVAECVQHF T A Q H V A E V T GA F N K C I A A D I T T S L L Y AKNVAEATGNF ANFNAKDVAEATGNF RLIVVDATENF V A E TVQ F $\checkmark$ A E T V Q H F $K$ A $V$ A E ATGNF
A NVAMTVKDTTQHF
$T A K Q \square A Q T \frac{T Q Q F}{T}$ NTGTTSGALI LEATQDF N N K Y S GKRVAEATGN
$\qquad$
GKMVAQATGNF I MDKLRLEIRAMDEI QPDLRE $N T S$ S
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## QUERY

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| :--- |
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UniRet90
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UniRef90 $\mathrm{R} 4 \times \mathrm{KR5}$ UniRef90-C4QZW6 UniRef90-X6LX66 UniRef90_C4Y7J1

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LLDSINRVT S
VIQSVNKVTD

(
LMSGYTRFKNSSPDFEGKTKTKEWISRLAKMGAADELTEG
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LLLSI NRVTN HDEENRSKLVEWIVKI NKMKVEETLDEH
LLLSINKVD VKKDFEYRDKLVSWIINI NKLGIINDELNDD VIQSVNKVTER DFDHRGK IQWLI T NQMRTTEELSEG LMTSLRRVQGLPAEFLGSKKLEEWLVTLNAMRAMDADTE VITSVNVVT KSEEFDGRKDIVKWLIDMLQMRPGDEI DEN LMSALTQLPDVPNDFAPNHKVRRWLEKLNGMRAVDII DED VATSMARLSLPPDFEGKVKVNEWLGKLHKMGAADELTEQ
 LLLSVNRVT SNDFENRNKLVEWIIKINKDKNDESLSDS VMAGYAKFKDSAQWEGRAKLIHWLITLNAMKAADELGED LMETMHRMSHLPPDFEGRQTVSQWLQTLSGMSASDELDDA YNAINTTSRVPDDAAVSSKVQKWHDRLSTMAASDEISDD LSDGLSRLSVLPPNFEGRASIDKWLQLLSDMKVGDELGET




SAVSVA E SVVH F GAMDTLKLNMAAKDQVSPILIFD




SRLVAEITGNFITCMDAVKLNYKSKDQLHPLDS
GKAIAEATGSF, ACMDA KLNYKSKDQLBPLLSE
ARLI AEATSNFI
$\mathrm{H} \square \mathrm{N}$ G N S A R L V A E $\square \mathrm{T}$ G N F N T K A S GRLV A EV T GNF

GTVNRLVLECGQHFI

 | $N G G$ | $N$ | $A$ | $L$ | $K$ | $V$ | $A$ | $D$ | $L$ | $S$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $D$ | $M$ | $M$ | $V$ |  |  |  |  |  |  |
| $D$ | $G$ | $N$ | $L$ | $N$ | $C$ | $A$ | $D$ | $V$ | $V$ |



GK S GK SVVA EATGNF
ATLVVNATETF
$R T S G K L V A K V T G N F$
TAKSI A ELLVQNFI
GNARLI AEITGNFI
NDRKFNAKNVAEATGNF


## N S A R F $\frac{L}{\mathrm{~L}}$


 ARAVADAT ACF
N N A R F L L A Q SVVECS D H F
SKNVAFATGNF
DKGNLNRCIADVVS
D S S KI A L F V A E AV Q GF I



| $S$ | $Q$ | $L$ | $F$ |
| :---: | :---: | :---: | :---: |
| $L$ | $F$ | $Q$ | $L$ | SRHVMAATEHFI



RNFTAAAIQATEAFLTFRDALELGERSVDRLLPYLRE





lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5



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|  | E $\square R Q L K F D \square D N V Y N E F K V V L$ A ARELLGDLDTAYREFYSAL QVRQMLFDLESAYNAFNRFL |
|  | Q $\square R E A L M D F D M A Y D A Y K R$ <br> DASQLKLDLDNGYAELEAAD <br> DRQLFLRDLEAMYTETY <br> DKRQLAHDVDTLYDTFRR <br> DVRQLTDDLEKCYNCFKESL |
|  | EMKQLMMDTE <br> DARQLSMDTEAAYTFFKTFL <br> EVRQLRFDLSQLSHSLNSV |
|  | E $\square$ R Q M A $\square$ D T E T $\square \mathrm{Y}$ GS F K |
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[^0]
[^0]:    lupas_21
    lupas_14
    lupas_28
    jnet
    conf
    sol25
    sol5
    sol0
    jhmm
    jpssm

