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SASNVRATYHFYNAQQNGWDLRKVSAYCATWDADKPYSW ESASNVRATYHFYNPQQHGWDLNAVSAYCSTWDANKPYSW QSASNVRATYNDYQPENDGWDYNAARDFCATWDAGKPLAW SASNVRATYHLYQPEQHNWDLLAVSAYCSTWDAGKSLAW SASNVRATYHYYQPEQHGWDLNAVSAYCSTWDAGKSYAW Q S A N NVVRATYHYYNPE QNGWDLNAVSAYCSTWDASKP LA W QSASNVRATYHYYNPDQNGWNLNAVSAYCATWDANKPLAW QSATNV RATYHVYNPEQNGWDLTARVSAYCATWDACKS LA W
 ESAKNVRATYHIVYPAQNNWDVRAVSAYCSTWDADKSYA W QSASNVRATYNFYNPEKINWDLNTASAYCATWDAGMSFA W QSANGVRSTYHLYNPQNINWDYNRASVYCATWDANQPREW ESAKNVRATYHLYNPEQIGWNLVTASAYCATWDANKPLAW $N V R A T Y H I Y N P Q N V G W D L Y A V S A Y C S T W D G N K P L A W$ QEASNVRATYHYYRPAENNWDLGAVSAYCATWDADKPLEW QSASNVLATYNFYNPQT\|GWNYMTASVFCSTWDANKPLNW QS GSNVRATFNLYNAPQINWDLNAVSAFCSTWDANQPLEW SNVRATYHYYNPQQNNWDLNKVSAYCATWDANKPLSW VTSTYHFYNPEQHGWDLMAVSAYCSTWDASKPFSW QSASNVRSTYHLYNPQDNNWDLLAVGAFCATFDEDQPFEW QSASNVRATSHSYNPEQHGWDLNAVGAYCSTWDANKP LA W

T NVRATYHLYNPQNDNWDYMKASVYCATWDANKPLEW QSATNVRATYHYYRPAQNNWDLGAVSAYCATWDASKPLSW $N \vee R A T Y H L Y H P E Q Q G W D L T A A S A F C A T W D A S K P L A W$ S NVRATYHLYNPAENGWDLNRVGAYCATWDAGKPLSW ESASNVYASYHYYRPEQVGWDY SGTYCTTWDAGKSLAW Q Q A S NV RATYNNYNPQNIGWDLGKASAYCATWDASKP LEW SNV RATYNDYNPAQNNWDLNKVGGAYCATWDAGQPGWW ESASNVRATYHFYNPEQNNWDLGAVSAYCSTWNADKSYAW QQAFGVRATYHFYRPAANGWDLTATGAFCSTWDAGKPFDW NVLATYNDYNPEQNHWDLNAVHAFCSTWDASMPLAW
 QSAT V T S T F QL Y Q P A S GVVA S NVRA $R S \square S$ S GVRATYNYYRPQNINWDLNAASAYCATWDAGKSYAW QQASDVAATYNLYNPEKINWDLVRVASVVFATWDADMPLVW QSASSVKARYHYYNPVENNWDLNAVHAYCAPWYANQSMAW QASGVVAT YNPDTDNWDLRAVSAYCSTWDADMPDA W I N WDLL T A S A YCA T WD A D KP L E W ESASNVRATYHFYNPAQNNWDLRAVSAYCSTWDADKPYAW


 A T D DVTAA Y WT D Y Q P S Q N S WE QSASNVRATYNFYNP QK $\square$ NWD $\quad$ NNAAS C A T WD A
C A T WD A

E Q N N WDLY T A S A Y CS T WD G GR S LA W QQASGVAATYNLYSPEK $\square$ NWDLRAASVFCATYHT LPS CL QSASGVTATYDAYDAPSRNWELGALSVSCAALDEDKPPAW QSASNVRATYHYYNPE QNGWDLNAVSAYCSTWDAS QPLAW


QASGVVAMYNQYNPAQVEWDLGAAGAFCATWDAEMPMLA A W S NVVRATYHXYXPXQNGWDLGAVSAYCSTWDAGKPFSW $V Y T T Y N Q Y D P A A K N Y Q L D G Y C A T Y S A H Q P L S W$ PSANNYALD GLYYCATYDSSQSLA W G GKGVRATYHYYENGTNEDS QSATNVRATYHLYQPEQHNWDLLADSAYCSTWDADKSMAW

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## SKKDVRMTYHYYAPNYETSSLACADRFWADKDNGRKL

ASNVRATYHFYNPEQNGWDLNAVRAYCSTWDANKPLAW QSEDNVNATYRSTNSPTNKWNLNTAGVLCASQDGNKSLSW ASNVRAADHMYNPQQHGWDLNAVSASCSTWDARKPCSW A T Y H Y Y E N GTNT

A ASGVVATFNMYNPGS $\square$ GWDLRAV
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$V M S Y P W V A Y C A P L S G M T Q D K C G K L L R M T N N R T G A R T V V R M$

Y GWTAFCGPAGP Y GDTGVV TAFSGQV WNS DLLCGKMVK】TNTD TAFSGQV WNSAA NCGGCVVKVTNTDNNKQVTVKI $V$ K P L $\quad$ G Q C R C C G G C C V D SNWA GANSCGSCVVVTGPR GNKITAMV MTQDKCGKKATITNKANGKKVVGVV TAFSGSA WD SAA K C GACVVKVV TAPN GVI TA M I


VDQCDR
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L D Q S S N G GL DLLETDAFNTMD T DGGGYASGHLYTSYTSFSC LDQCSNGGLDLETDAFNAIDSNGAGYQAGHLYTTYTEVNC V DKCGFNGVDLDPGLFNAIDDDGQGMADGHMTVTVSL V D Q CK N G GL

VDMCGQGGVDMDPLGFNATDGDGQGKATGDMAV GGRQRRARLDLAAAVFRRIDTDGGGVANGHLIVDYEFVGC



VD NCSHGGLE LD M DVF QK LA
MDRCSNN
VDKCGFGGVDLDPGLFNA DD DGKGMANGFMTVDVS L $V$ D QCA N G GLLDL D WDV F VKI DT D GM GYQRGHEIVVNYE FIDC $V$ D QCS N G GLLDLDVAVVRQID T DGGGMANGHLVVD YE FV DC
 $M C G Q G G I D M D P L G F N A D D \quad D G Q G V A D G H M N V H D E$ VDMCGHSAI DAD QSAF IP LDDTDRQGYFDGDDSVTLE LVAC V D Q CANGGLDDDWDVFVKID T DGMGYQRGHLIVN YEFVDC V D Q CK N GAL DLDVGVF QRLDS DGSGNAQGHLIVMYEAVDC VDQCSTGGLDLDVAVFRQ】DTBGGGMANGHLVVDYEFVDC
VDA CPNGS IDDLS T GAF D Q $\quad$ A DPSTGワ $\quad$ VP $\square$ S WE F V $V$ DQCPE GHLDLIF QNAFEKI GTLSAGI I S TS Y E FVVD I S T S Y E F I P V S WE F V P C
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| UniRef90 | TOKE02 | G |
| UniRef90 | K2EM93 |  |


#### Abstract

N Y

A S G V N A T F F Y Q N GVAGA CGTVDNDM】AA


S G GVATYYYQNGAAGSCNYNSDDTP@VAVD
$V L S A P R H G N C N L M W$

A H A NTA S WY G GKFHGK FYNPGSCGWQ NDDSEFVAALNA

VS A G Q T Y Y Q G D G T P Y NLD A VG G N C A F M S S

G W
S S W

S GGFATYFYQNGDAGACTVHSDSDF $\square$ AA $\square \mathrm{DQDR}$

Y Y A P G
LGACGRYSAATDY $\square$ A A VS

Y DDAGYSACGTP $\square$ DASQP $\square \mathrm{VA}$

FTYYNPGTNTDSDYVVALSHADFDPSTPNG
$D Y D K V V A D D Y$

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TAYSG AQWNDAAQCGACVQVTGP SGNSIKAMI AALNEVQWNNLGNCGRCAQVSCVDSQASAIVQI GSAACGAVIEVT TAGACGTCVSV
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DSNWDGSEACGGCVKV
TAAMNQTDYNGSQACGGCVKV


WNSAGNCGACMSVTNKANGKTI QAKV CGRCAVVKGVSGKIVMV
 WDNDANCGRCAEVSCTDQTTTAIVQ SRTMDPSLCGKKVRVTNTNNGK

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\(E R Y G F T G\)
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##  <br> G P

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QAS

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& D \\
& A \\
& N C
\end{aligned}
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PQYG KFSDPA DSPVCGKCIKI TGPKGSVKVKL


PTPNGNPA
GRRIRV
SFPNGGNPNNSPLCNRKAQVS WDGMKCNRKAQVS WGGKSIVVSL


ASWYG PGFDGNLTANGEPSGGTTVRVTNKDNGQSVVVRI SQASTNYVAVNQAQWDSQTHCGQCIEATCDDSDTSVTVQV F AT UNPNESPSCQQCVLITGP TGATVKVQV MANGANSNKNPNCGR RITATGPKGSVTVKV
 DANPNHSQACGKTATV TYGGKS TVGI

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andor it WQAGMDDGNPNHNGLCGKKLNVKGPRGMMIKVMA GDANPNNNRLCGRKIRVSADGGGAIEVEV



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