query UniRef90_H3GPD8
UniRef90-QOPW45 UniRef90-H3G9F1 UniRef90 Q84JB1 UniRef90-POC231
UniRef90-DOP3R6 UniRef90_G4ZXJ5 UniRef90-P41801
UniRef90_K3WWP UniRef90-K3WWP2 UniRef90-Q2NoB0 UniRef90-P41804 UniRef90-V9E5N7 UniRef90-O84P49 UniRefon-A1Y153 UniRef90-A1Y154 UniRef90-G4YQW3 UniRef90 ${ }^{-}$Fow6S8 UniRef90-K3WWPO UniRef90-O5UB12 2 UniRef90-M4BKP2 UniRefolo-G3F8D3 UniRef90-Q2NOC1 UniRef90-G5A695 UniRef90-A0A024G1G UniRef90-K3WTY6 UniRef90-G4ZXI9 UniReffo-C5NS42 UniRef90-FOW6W4 UniRef90-DON148
UniRef90_FOVZR8 UniRef90-A1YGW7 UniRet90_K3WU17 UniRef90-DONUA9 UniRef90-O2NO78 UniRef90-W2MV24 UniRef90-W2MV24
UniRef90 G5AB73 UniRef90-G5AB71 UniRef90-G4ZPJ8 UniRef90-G4ZPJ8
UniRef90 G4ZPJ8 UniRef90- ${ }^{-13 \times 1 J 0}$ UniRet90-H3GVU8 UniRef90-W2KLR7 UniRef90 W2KLR7 UniRef90-DONUA8 UniRef90-Q5S621 UniRef90-Q2NOCO UniRef90-DONUD3 UniRef90 G4ZP J5 UniRef90-W2N219 UniRef90-DONO922 UniRef90 M4BME2 UniRet90_K3WV17 UniRef90-H3GPN4 UniRet90-H3GPN4 UniRef90-G4ZPJ6
UniRef90 G5A385 UniRef90-Q2N055 UniRet90-V9ESQ6 UniRef90-K3WY31 UniRef90-V9EUB5 UniRef90-V9EC97 UniRef90-Q2NOE1 UniRef90-DON4P8 UniRef90-M4C4Y5 UniRef90-V9EUX9 UniRef90-Q2N060 UniRef90-G4Z5W8 UniRef90-V9EW62 UniRef90 W4GPS5 UniRef90-DONGK2
UniRef90 G4Z7N UniRef90-Q2N061 UniRef90-K3WFY5 UniRef90_w2KUTO

TACTATQQTAAYKTWVSTLSESSFSQCSKDSGYSMLTATA CSSTEQTTAYSTLASVLTLSSFQGCSDDSGFSLLYSTS

 PCTPTQQTAAFSALVGILSDTSFNKCVDDSRYSMLTATA Y

## CTAKQQTAA

 Y $V$ V $A$ L $V$ VTECPATE
 $\begin{array}{ll}C \\ C & P \\ C\end{array}$
CSSTQQKSA
ACPSTE
ACSPTQQASA
EQQSA
ECPVDE
ECPVDEQQNFKLAPLASNENLAKCEADSTWQMLPPTG ACPPSE VVKFAELYANPHLHSCQKVSGFGLVPPMG FGS ${ }^{A}$ VLLS YAK ASAASNPNVSSCMEASGSSFIPHGG
SA
CPS
YAKLAPLA
TKEQQTXA
CSPEVTKAAYTSMS
TVCPSSE $\square A K L D E L A A$ CSSSOTAYSKKLTDYDQCAADSGYSFISGVQ CSSSQQTTAYSTLASVITLSSFDGCSDDSGFNLMYSSS PCPSSE LAKLAGLASSQNVFPCQAVSGFNMIPPSG TPCTVDQTRSAYLNMISSLLTGSTVSDCATNSGYNMLYYSA CSFVDNLVSYMRLAFPWHRSSLSACGYDSGYNMLRPTG SGSDT TCGSTSLAGLLTNQYUTQCATDSGYSF TAAS PCPADE LTEVTKLTPLTSDPNVAKCSTSGGFALIPPSG
ECS
D S A SCTSVAFLRPLLETAAN

ECAST
SCTSAQLRYLLTSSYMTQC TLUFALLPLESQSGF SCTIST K KYLLTSTYEKOC ALLPLYANPNYPVCVSNVGVA SCTSAQLRYLLTSSYMTQCVADTGYSFDPFTS SCTSAQLRYLLTSSYMTQCVADTGYSFTAPTS SCTSAQLRYLLTS YVALVS LSDS CSSVLSALLTDQYПDQCQTDSGYSF $T$ c
$\qquad$ TSAVDVCLISELASLLTN
antacasd givarmdle g CDFSEEAAADSELGSLRTNTNATACATDSGFVFANGDG CPP

ATDAKLGELYTNPHLHSCQKD DSDTPPAN
CQVGGDGADTQNPSLS
A C
CSSSVLSALLTDQYDDQCATDSGY
SELGSLLTNPNTTACASDSGVVFADLDG LQPLATDPSFAGCQSDSNYTLLS FE SADDACATADLVGASNPHVAGCNDAGFSS STIL ACALTTLS GI ASNKNVAGCSKAAGFSSMSTIA QMDYEVLEPATSDPNFVTCQTDSNYSMLSFES ASSVSADDCT四EQUSAVASNSHVDPCAKAMEFVELLSGA
 T T NAEECSTSELLTI A S DTHLE GCTSDVGFGGFSADS SAEDCSTESLMKLASNTNLAGCTADSGVSVISTIST
TSAATCEVASLQTVLASSDTSACASDSGYVVTSLS CNSTELAEA LQPLYTNANYSACSSDVGVA PFAA CTVEQLNSVASNSYVAPCAKAMDFSEILSLA TVALVFLPYLADIQNCTTDSKYPLVPPVS
ACSSTQQT T $\square$ Y AVLEP

T E C S D A Q CDSTSDETLLTLDSFQGCDDASGYSLGYSTS CSAEKFRPVLVGANGAQCAKEAGYSSAYKI A

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| :---: | :---: |
| QUERY UniRef90_H3GPD8 |  |
| UniRet90-Q0PW45 | LPTTAQYTLMCASTACQEMIEEIIVLNPPDCDLTV |
| UniRet90-H3G9F1 | LPTDAEYALMCASSDCQSLIESII SLNPPDCTLDV |
| UniRef90-Q84JB1 | PTPAQYKLMCASDSCKAM! TKIVSLNPPNCDL |
|  | LPTTEQYTKMCASTACQAMIANIITLN |
| UniRef90-DOF |  |
| UniRef90-G4ZJJ, | LPTTAQYKLMCASTACESM1 ETM I StM |
| UniRef90-P41801 |  |
| UniRef90-K3WWP2 | YPTDAQRA! MCATTECFNLIEAIKQIGPSD |
| UniRef90-DovWX7 | YPTPEQLKLMCGTAECFTLIDAIKALNPND |
|  | YPTEPQVKAMCSSDACHALIKDVLALTPGDCY |
| UniRef90-P41804 |  |
| UniRef90-G4ZX99 UniRef90 V9E5N7 |  |
| UniRef90-Q84P49 | LPTAEQSAAMCEVDACHELIKNVMATN |
| UniRef90-A1Y153 | TDDERKAMCAVQACHDLIVA |
| UniRef90-K3WWP | T DVQRVHMCDSLSCFKL |
| UniRef90-A1Y1 | DAERVKMCGVQACHDLIVAVLATNPPDCDLVIPTSNA |
| UniRef90-G4YQW3 | YPTEPQVKAMCAAEACRALVKDVLALEPADCYLSL |
| UniRef90_W0G5D7 | MPS AQNKKMCAAPECHRFIGAVGDLNPPNCDLLIPTSGA |
| UniRef90-K0W6S8 | YPNATQLATMCETTECFDLTAEVVSAIN |
| UniRef90-Q5UB12 | TTAQYTLMCKSTACNTMITKI V |
| UniRef90-Q1ESR5 | TDDQYVKMCASK |
|  | NHEQELAMCGVAECHTLI A |
| UniRef90-G3F8D3 ${ }^{\text {den }}$ | PTKAQYKLMCASTACNTMISKIVSMNPPECELT |
| UniRef90-Q2NOC1 | PDPEEVAGMCASDACHSLLADVEAMNLTE |
| UniRef90-G5A695 | - |
| UniRef90-A0A024G |  |
| UniRef90-K3V | AEQRAKMCAAPVCHALLKE |
| UniRef90-G4ZX19 | APTNSQMISSLCGVQVCHDLVVRV |
| UniRef90-FOW6W4 | 1 PTADETKKMCSTPACHQGIGALKNTQLPNCS |
| UniRef90-DoN148 | TQDVIDLMCASSACRGLLADAQALDLP ECIL |
| UniRef90-FOVZR8 | ONLDQLSLMCQSDECTAML QELRGMNLP |
| UniRet90_A1YGW7 |  |
| UniRef90-DONU | PTSAEVGGMCASDACHNLLNDVKAMNL |
| UniRef90-02NO78 | PTAEETTLICADTTCTKVLSEAAALDLDDCTVTY |
| UniRef90-W2MV24 | PTDVNVAAMCASDSCVNLFAYVASMVTTDCRIPVGGKIL |
| UniRef90-W2MV24 | TDVNVAAMCASDSCVNLEAYVASMVTTD |
|  |  |
| UniRef90-G5 | DQMKAMCKSKACNKLLDEARD |
| UniRef90 G4Z | DAQVAAMCASESCVNLFAYVGSMVTTDCR1PVVGGKIL |
| UniRef90-G42 | DAQVAAMCASESCVNLFAYVGSMVTTDCRIPVGGKIL |
| UniRef90-K3X110 | PTESQMKDLCC SEVCQSLLT TVVDAD |
| UniRef90 H3GVU8 RiRet90 W2KLR | DAQ AAMCASAACEALFAVATSMV |
| UniRef90 W2KLR7 | DANVAAMCASDSCVNLFAYVTSMVTTDC |
| UniRef90-W2k | TDANVAAMCASDSCVNLFAYVTSM |
| UniRef90-Don | DQDTVEKMCASSACQNLLADVQAMGRSE |
| UniRef90 G5ATY | PTQAVYDLMCASSACRSMLADAEAMD |
| UniRef90-Q2NOCO | DQATIDLMCASTACQSLLADVTAMDLS |
| UniRef90-DONU | TDAELAKMCTSTACQSLLSD |
| UniRef90-Q2N | PPSDDQMSIICETDTCLSLMAA |
| UniRef90-G4Z | KPNQETVDKMCASAACKGLLADAQGMDLTECTLPVGDNNL |
| UniRef90 Dor | ПPDQATIDKMCASTACNTLLADVKAMNDEECQLPVGGS |
| UniRef90-M4B | SEQVKALCTSDECSTLI NDV |
| UniRef90 M4 | DAATMAMCKDSACRSTI GSLEEFDLIPDCTLHVPLVSA |
| UniRef90 K3WVI7 | TPTAAQLTAMCAADSCVALLKALLA NPADC |
|  |  |
| UniF | A Tid MMCASSACQNLLADVKAMDLSECV |
| UniRef90-G5A: | DAQLTSFCETDTCLSLMAAILADDPEDCTL |
| UniRef90 Q2N055 | VAQTRRFCASSACHALLNUTLSSKL |
| UniRef90 V9ESQ6 |  |
| UniRef90 K K WY 31 | DAVMAKMCASSSCLAALKAVQALNLG |
| UniRef90-V9E | NQTEGFCASSACQA |
|  | D A Q T A VC |
| UniRet90-Q2NOE1 | ALSSDQVKLFCASGPCMA |
| UniRet90-K3WJU5 | DAQFTKLCAASTCUSALNTLQKMSIPD |
| UniRef90 D0N4P8 | ALLTAEHDQAVCDSSDCMKLMDSMRSMNFGDCTVQGTNIS |
| UniRet90 V9EUX9 | EEQTKAVCDSSDCTKLMDSMRSMGFGD |
| Uni | MDQIMAVCSSSSCMGLMDDTAEANLGDC |
|  | DAEMA ${ }^{\text {d }}$ CTSTACQSVVAQLEAVF |
| UniRef90-G4Z5W8 | T TA ALAAMCSSAACQALTPVVVALD |
| UniRef90_- 9 EW62 | S D Q |
| UniRef90-DONYK2 | C DV |
| UniRef90-G4Z7N7 | DAEYVKMSGPSDCQSIIEPDVQHRHDD |
|  | SGSEMALMCTSTACQTV |
| 90- W2 | KPTEAQVQAMCASKLCRALLSDMSDFKAEDCTMPFGNRIL |
|  |  |

QUERY
UniRef90_H3GPD8 UniRef90_QOPW45 UniRef90-Q84JB1 UniRef90-P0C231
UniRef90-D0P3R6 UniRef90-G4ZXJ5 UniRef90-P41801 UniRef90-K3WWP1 UniRef90-K3WWP2 UniRef90_DOVWX7 UniRef90_Q2NOBO
UniRef90 P41804 UniRef90-G4ZX99 UniRef90-V9E5N7 UniRef90-Q84P49 UniRef90_K3WWP7 UniRef90-A1Y154 UniRef90-G4YQW3 UniRef90-W0G5D7
UniRef90
FOW6S8 UniRef90_K3WWPO UniRef90_Q5UB12 UniRef90_Q1ESR5 UniRef90-M4BKP2 UniRef90_G3F8D3 UniRef90_Q2NOB1 UniRef90_Q2N0C UniRef90-A0A024G1G5 UniRef90_K3WTY6 UniRef90-G4ZXI9 UniRef90_C5NS42 UniRef90-D0N148 UniRef90-FOVZR8 UniRef90-A1YGW7 UniRef90_K3WU17 UniRef90_DONUA9
UniRef90_Q2N078 UniRef90-W2MV24 UniRef90_W2MV24 UniRef90-W2MV24
UniRef90 G5AB73 UniRef90-G5AB71 UniRef90_G4ZPJ8 UniRef90-G4ZPJ8 UniRef90_G4ZPJ8 UniRef90_K3X1J0 UniRef90-H3GVU8
UniRef90-W2KLR7 UniRef90-W2KLR7 UniRef90 ${ }^{-}$W2KLR7 UniRef90-DONUA8 UniRef90_Q5S6Z1 UniRef90_Q2NOC0 UniRef90-DONUD3 UniRef90-G4ZPJ5 UniRef90-W2N219 UniRef90-DON092 UniRef90_M4BME2 UniRef90_K3WVI7 UniRef90 H3GPN4 UniRef90 H3GPN4 UniRef90-G4ZPJ66
UniRef90 G5A385 UniRef90-Q2N055 UniRef90-V9ESQ6 UniRef90-K3WY31 UniRef90_G5A2Q9 UniRef90_V9EUB5 UniRef90_Q2NOE1 UniRef90-K3WJU5 UniRef90-D0N4P8 UniRef90-M4C4Y5 UniRef90_V9EUX9 UniRef90 Q3SAG4 UniRef90_Q2N060 UniRef90-G4Z5W8 UniRet90-V9EW62 UniRef90_DONOK2 UniRef90_G4Z7N7 UniRef90_Q2N061 UniRef90-K3WFY5 UniRef90_W2KUT0

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UniRef90 K3WVA9 UniRef90_K3WD17 UniRef90_Q2N0B5 UniRef90-M4BER2 UniRef90-F6MEX3 UniRef90-M4BE21 UniRef90-K3X603 UniRef90-W2XYM0 UniRef90-W2XYMO UniRef90-A0A024TNI1 UniRef90_Q2NOE9 UniRef90-Q84JU3 UniRef90-DONUB0 UniRef90-A0A024TNG5 UniRef90_Q2N0C2 UniRef90-Q2N0B6
UniRef90-G5A2R7 UniRef90-G5A2R7
UniRef90_K3XA46 UniRef90-Q2NOFO UniRef9O-K3WVC0
UniRef90-K3WVC2 UniRef90_K3WVC2
UniRef90_DON9G4 UniRef90_V9FH34 UniRef90-G4YGQ6 UniRef90 H3HDQ3 UniRef90_H3HDQ3
UniRef90_H3HDQQ3 UniRef90_G4Z3M9 UniRef90-K3WVI6 UniRef90-A0A024TY49 UniRef90_G4YX16 UniRef90_M4BII8 UniRef90_TOSDQ7 UniRef90-V9FJ05
UniRef90-M4BlI9 UniRef90_M4BII9
UniRef90 DON1P8 UniRef90-W4GGP6 UniRef90-K3XBG9 UniRef90_K3XBH0 UniRef90_AOEJM2 UniRef90_K3WVD6
UniRef90-D0N138 UniRef90-H3GMR6 UniRef90-DONOT1 UniRef90-K3WVC3 UniRef90_T0QAI1 UniRef90-K3WH19 UniRef90-G4ZFX6 UniRef90_Q84UD6 UniRef90-K3WXU9 UniRef90-K3WA53
UniRef90 K3WA54 UniRef90-G4YGQ8 UniRef90_K3WZG1 UniRef90-Q2NOD9 UniRef90_A0A024UH98


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ALQ TDLIDAFKTGCAS L
N
$\stackrel{N L}{F} N \operatorname{LI} E \operatorname{VAA} V L A A T C G$
HYDLLDPLDRACD
Y A DVLNPLSERC
KTDVYDLANSFEPDCAAL
P L S L T D AVVLVSSKC

QSGULD SFDKSCGA
Y A DLIDPGKAAC $\underline{L L D L G V D}$

Y A D LIT PVT T F C
QS DVLDSVTSMCGGSGSM QTDVLDRV
KMNVYS LASSFENDCTRL
Y ANLITPYEKFC
ETDLLNPDDSTCGT
T $\square$ Q DSAAA $\square$ FAGCE $\square \mathrm{L}$

DAD LLT PVADYCAA VS GLLF E P I R S F C A
YADLITPLTNYCSGASS

KADLVVYVPSNCSSTSA

S LDD A VMMVNS K C

KADLVVYVPSNCSSTSA
HMNVHAL
R A
HMSFKELFNQMRAYCVS
HAN I DD P LQRCA
$T \square Q \quad A G L D R F V A A C D$
ESGLITPIETFCKS

NMT LQTG $\square D \square$ FASVCDS T L
lupas 21
lupas_14
lupas_28
jnet
conf conf
sol25
sol5
sol0
jhmm
jpssm



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

