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TKLQT I IGMFQDTAWDETSYFESDNGAK $\square^{30}$ TADVITQSYQG MKANGPFDVKILPQKADNPCAEAAQLGRMSI DKQFHG
TMK S GEFEVKTKPDEGYAEGKDGVSMNRMSIDKTFYG
TKHVKGPFDVKVKPMAPDAEP DAYPVGRMSIDKKYHG HHAKGAFDVKLQPLEAYNKNADAGLGRMSIDKQFHG MKVSGEFEVKLQPMDFYAKGNNGVNLGRMSIDKDFTG MKISGEFEVKLEPMETFAQGVDGVNLGRMSIDKEFKG
K T
 $M P Q A T G T F E V K L A P Q P L A N A D A G P L M G R L S D N K T F S G$ MQATGTFTVKLNPQQSYATGVDGDDLGRMSIDKTFSG TKRASGPFDVKLTPMAPESGAVEAAPGRMVLDKRFHG MTKVTGKFDVKLTPENAYATGVGGVNLGRMALDKTFYG MKATGSFEVKMTPLDFSAQASDGAQLGRMSIDKTFHG TQKVTGEFNVKDNPIEGYAKGVDGVNLGRMSIDKTFTG AA GTFDI DAWDDEKPYDERGDRKLTKVRVRKTFHG MTVSCTFQUTGWDEKPSQE LDEGTPKLSHAKVTQSYSG
 TTKQVTGEFTVSLAPDEGYAHGQQGVNLGRMSIDKQFTG MHATGTFDIKLTPQTATAEDETA KLSRMTIDKQFHG MNHASGVFDVRLTPE PGEFPLAR RLDKRYHG MTAKGTFDTANWDAKQPYEDRDGVTLGLVTMTKTFHG
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 TRGTGSFEVKLNPLAPPDQAE GSTLGRMSIDKQFHG $H \square A T G R F D I K L Q P E$ G L S P VA EATGL GRLSLDKQFSG
THHASGTFEITGWDEVASDERPGAT VARVRIAKAFTG SMKHIKGEFDVAM ESQTDDEFAVGRMTLDKTYHG S SMHHATGTFEVKDQPQGEVGPASDGNSLGRMSLDKTFSG
 MHAKGTFEVKITP QSFAEGVGDPTVGRMAI EKHFKG MPS STGTFDVTI TPET LSDTAAQSGL GRLSLDKRYHG KATGKFEVNI DPQAD $\quad$ REDPMLSRMTI DK DFKG MPHTTGLFEVKLTPQED DNLDSALGRSILDKQFQG SSMQHAQGTFDVK LA A QPSAPGDEAAAGGRQTDDKRFHG MTAVGPFDI TLNPQPLSRATEKSGLGRLLSLDKQFKG MATATGTFEVTDWQPEAPYDQEGDVSLGHVVLRKTFAG MHATGHFDVKVSPQTPDNPQAKASGLARLSLDKQFHG HHAQGTFTVDVKPLTP YHEAPAEGLARFSINKQIHG MKTAKGTILHNNWDEKPYHESAP QKSTKANI EVVFDG TQTQLIGTFQUTVWQETPYSESDTGAKQSLATI SQQYSG TTAKADFS LDEWDEKSFHEQAGEGKMTRAHVRYRYEG MSIAKGLFDVQLAP HPLSGVAEATGLGRMSLDKQYHG
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TTHTTGHFTYADWQETALEETEGGAKLARAVVTNAFSG MQAAGQFKVSDEPMSVKSAADAGQQFARQLLSKQYEG TMSHAVGTFEVQMTPVAAEADSPAGAPGGLMRLSKTFHG $M T V K G T F D V D L S P Q N$ D TTTMSI EGSSSSITQWDEDTLSERSEGDKVSHASIKKVVYSG TTQTASGAFDVTLAPLS LDQPGDDSARGRMRLDKRFHG


 MPK K S GEFNVKMAPESMSAVAAE S GIGRMSLDKQYHG TRTAVAAFELDKWEPQAQDEA GGTAFARVLIEKTTTG MTK K K GVF Q T A WNESAYAEHENNNKQTVVEVVQTYS G HATGSFSVTMTPSAAP QRAGRTTTLGKVLLDKVYAG MRASGTFSVKGFDPADVAPTPTGVAVGVMTMEKHFEG QTTGRDTFANWEERPVGGEGAGPRLAHASVTNSFSG
 $M P T A K S Q F D L D V W E E A D P Y R V T D G A K L L H G K S S R K F D G$ TKQAT GHFTL NWGEKPAYDDAEGATLARVT DTKTWEG


## QUERY

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E L E A T S S Q GE M L
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E L S A H S K G E M L

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DLLD A T S S Q DLSGVSTARLLTAGGPPTSAAYVATERFVGAVDGVEGSFV ELEGTSRAQFLFAY GKGGAGYVGHEVIEVSVGGSKGSFM DLAGTSVTEDTVTTAAGPTAYVGVECFEGLHGRKGTFV DLQAHSVGEMLSAGGDAGSAGYVALERVTGRLDGREGSFV PLRATSVVHMLAVGOAQGKAGYVAVEFEGTVDGRSGGFA DLVGKGIGQML SKRTDNGVAVYFAV EEFEGTLQGKSGTFT GIEGAGEDQYLMCHQAADHAVFVGYEDVTATVDGKAGCMV DLQATSQGEMLSFRSSQGSAGYVAMETVRGALQGRSGTFV

## K

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 EVVGTSDAELLMASNPVGAGYVGSELFIGTVAGRDGSFV DLNASSQGEMLSAMTPQGSAGYVADEQVIGELEGKKGSFV ALDAVGKGEMLAFMDALGSGAYVAMEKVQGTLDGRRGSFL AVEGTSRVEMLTA SNETSRAYVAFERFTGSVDGRKGSFV DVNGAQURYVMSYQNGEAAVFVGMEHLTVNTPEDSGTVV EVVGHSATLFTSAFQAKGVGTYLAMESFEGALNGREGTFN
 DLTGRGWTEMLMAQTEEKSATYVGIEFFEGTVHGREGTFV $D L T G T S V T E M I K A M S G E N S A G Y V A D E R D V G T L H G R K G S F V$
$E V A G R S A T V F T A A Y Q E S G V G T Y V A M E S F E G S V H D R S G A F N$
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品
 DLEGEGAGEMLGGLLNNGAGAYVAMERVSGVLDGRRGAFA AMVGLGLGQMI SKHTDNGVAVYFADEEFVGCVDEKDGSFT EMSGESSVEFLMSYQSPMSAKFTGFETFVGVVNGLRGTVI


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LQHKGLFAAGVASSEFELV
L Q HNATMDRGTPALNVVVPDSGTGELAGIRGAMKIDDQP



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LQHSATMNRGTPHLSVTVVPDSGTGQLTGLSGTMEVUVA

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$L Q H S A V M A G G S G D M S V R V V P D S G T G K L A G I S G T L R I D K A A$








LVHR GVMDRGGQSLSITVVPDS GTGA LTGI RGVMGISIAE















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KMYKATGRFDVEПTPQK $T L M Q H A T G T F E V K M T P E A K G D A P T G G L A T S R M G B A K T B G G$
 TTHAT GTFTFADWQEKPVGEVAGGAKLAHATVTNGYSG
 GQFSI TGWDENILSEKREGVKQTHASDTQAYEG MRATGTREVVDFTPVPPSE $\square$ TKTGLPVGFATMRKAFTG
 P T QTTTGR $\square$ S YA NWEE HPVVGS DATSSPRLARASVVNTFSG
 T Q T T GEFT FANWEERPVVGEEGSPRMAHAAVSNTFS G RHAKGSFDVSTKPVE QDKGDGSTLGRFSLEDKTYHG TEQPTAGTFACDNWQEKPAAEADNGVRTARASSVNDYRG
 TA HTDSTFTFLDWDE HE LGGRTEGGTTRLARATVRNTYTGG TNHELLAAP E E T A WDETVVYE EPAEGPKLTRDTIRKRYHG

 T T HAT GTFAFANWDESTVGEAGDGLKLARATVTNSFS G $P$ VTETT GHFTFA DWKESPPVSPEDSFPRLAHATVTNTMTG
 TTALNALFEDASWDETPFSEEGDEETKLGEALVKKRYS G


## T TQRTVDAEFDIDSWDEVPYDEP DE

A DWQEKVIGPGDTNPRLAHASVVRNT RTTTAVFTGSSWDEKDVVDA DRSPRLAHAAVVNDYS G QTYSGEFEDTE WTPEPYSEPGSTGELSRVRAVKVFEG

MTAQDG TFTTAA WDEK V VA GAEDTN RVAHVHSKNKYAG EFA AVKNWEEVIVVSGTDDGGPRVVAHAHATMGYSG
T EH I I S G MQ $\square$ K GTFNVS Q WQETTHVEAP

TAHAVGTFTVDLRPEAEFD QVIRAAFDI S DWAPESYAAEGVD MLAAGTF DVD D S P QED $\square T$ A PA
TTPQTAA GAFMGMMLIGKTYAG HTAQAE F D I E N WD EVVPHEPEDGPRLT RDTIRKNYRG


RSHTATATEQVVSWTENPVYTRDDAHGFTRADVGYTYSG


$R \square E A T F R I$ VD HVEEVYDQPEA GPRDTRVTISKHYAG $M R A T G T F T V K S F D L L P D P V V T T G L P V G V A T L E K H F E G$
 TRDEGAFTFSDWKEEQLTEGP GPTLARAHVTNHFS G
TKSATASFTVDGWDPQA TEKAEGTEFSRVLLTKTETG

QATGTFD IDEWRPEESDEQ HGTVI GRNTARKSYTG
MHHAHGTFTVV EMKPAAASPAEGLTTFTMQKKFEG
MTQANTTRSVKDWNRKTWHDKTEGTNLFRVEILHRYEG MRAS GTF FVADFTPSPVPSPETATPVGLATMGKQFEG


TEHVLTGTEDDTA WDETVVYDAPESSPPMARATVSKAFHG
PVRHATGTEEVTMAPGDEGQVEAGLGLSRYVLSKTYQG

 $P S P A D E T A D P V G G A T M D K R F E G$
 MRADGTFTVKAFVPTEVTPVPTGLPVGVARMEKHFEG

 GD $\square \mathrm{T} Y \mathrm{Q}$ G WK E E

ESKFT ITTRWDETATGEFD
MTRATASTGVDS F D P P VGEP D G
 GLAR L S L D K QFHG
AKSTFELVSWEEE LLADDPTEQPVAKASAWYKA LQQ
TFRYTTWDEKVVVEAE GGPKVARADVDFVYE G $\square S$ S R F S A T S WTE T PIISDVA GAGKLSRATIVNALSG MK AT GTFELTAFDPTPQPPIATALPVGVT LMTKEYAG

TSTMTWDPWQPVPYEQTE GAPMLLHGEVANHYRGG
MNHATGPFEVKVVPSGHTPSGSEEFGEMSFTKVLSG
TSTATASFTVDQWEPQATDEF GGNELARVADAKTFT G



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## L


 LLHRGTIDK G GADLSVII APDSGTGALEGISGSFAITIE




 $V$ A E N G GF DA GTVVH GT F EVVVP G S A T G E L A GL L G S G R YR C Q
 LSQQ GS F D A G GVVR CTF EVV P GS GT D D V VGGR GKGHFTARH
 FH H T G V M D K G A D S L S V L V V P D S G T G E L V G T G S M M $\square$ K $\stackrel{1}{\mathrm{~L}} \mathrm{Q}$
 $L L H D G E Y R D G V A A A E L R V D A S G T Q G L A N V A G T G K F R A D P$

 V E E R G S F A D G S
 I RHDVAYT DE GIIS DRFTVVPG RHDVA Y T DE GIS DRFTVVP GS GT GELAAGLS GS GT A S S A
 I QHGGVAD GADQTTFGTVIPHSGTAELTGLSGRAT $L Q H N G T M D A G G Q Q L N V V I V P G S G T G A L A G I T G S M A \square R \square E$
 $V$ RHEVGF D






FVVHSATTTGSDRGAEFTVVPSSGTGELTG\|RGTGGLAVDA


## L H H S

 $V E E R G S F D R G S V R C A F Q V V P G S G T G E L A G L R G T G A F T H E P$



 1 R H DVA Y G A D G $\square R G T F T \vee V E G S$

| $\text { FA H S AT T LGT A RD DE F VI V P G S GT G A L A G } \square T \text { G T G G } \square E V D A$ |
| :---: |
|  |  |
|  |  |
|  |  | LSHRGHVGPDGDHDEMAVVAGSATGDLTGWTGTGVADATE


 $F C H L G V Q H G G H Q T L D Y R I V P D S A A G E L V G L T G H L E L V V E$


 FQHAAT $\square$ S P A GPAFYGVI I P DS GTGELTGIS GTVKMEH
 $L A H F G Q V D A G D K E L R I V I V P G S G T G A L A G I R G E L Q L R N E$
 LAHKGTF DAGGIDESAFEVRLDN VKHD GCFSPA GVVSGK LDIVP GSGTGVFANV GGSGDIKAVA FVVHSATTAGTDRTDEFHIVPASGTADLAGITGTGALSVDA
 LMHNATTRKGEPSLHIVVVPGSGTGALTGITGTLVIQKGA L H H T A DES GMTLKI LT GS GA GELTGUS GTANIEDD


| UniRef90 UPI0003662E4C | D GEH T Y $\mathrm{DFFP}^{130}$ |
| :---: | :---: |
| UniRef90-UPI00026CDB27 | G GV V ( P Y DLA Y |
| UniRef90-N1UVF4 | SGQHSLQLL |
| UniRef90-D6TD12 | H EATFTLD |
| UniRef90-D9WHU4 | GEAVSYAFDYELL |
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| UniRef90-F5ZD47 | GGKANYT $\mathrm{C}^{\text {a }}$ |
| UniRef90-IOH8F9 | DGTHR\WFDYELS |
| UniRef90-UPI0003075B93 | SGKHRYAFTYWFS |
| UniRef90-UPI00035F53EB | AGEPSFPYDF |
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| UniRef90-UPI00036A3879 | GS TPYTFDYDL |
| UniRef90-R0E850 | D GKHQY D LE |
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| UniRef90-B8CJ13 | S GVHRYH |
| UniRef90-M3BHU0 | HGVRAVPYRFEHS |
| UniRef90-UPI000380AFA9 | VLTLVYTL |
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| UniRef90-L0J6C7 | S GAMTLDLD |
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| UniRef90-W5W2K8 | D G S H T Y S FEYSLT |
| UniRef90-G8RWB5 | A GSVVLD $\mathrm{C}^{\text {d }}$ |
| UniRef90_UPI000467DB1D | SEVVPYTFDYRL |
| UniRef90_UPI0002E25D64 | GEKVPYTFA |
| UniRef90-UPI00029CB5FC |  |
| UniRef90_UPI00030EF074 | N R Q H Y Y T LT Y DL |
| UniRef90_D9WXK0 | GEKAAYRFEYEV |
| UniRef90-UPI00030CBD2A | GEKA |
| UniRef90_UPI000478BFF0 | DGQHRLELRVT F S |
| UniRef90_UPI00035DE10B | EPS S A Y T D Y QL |
| UniRef90_UPI0003645F77 | GEASTYTFEYEF |
| UniRef90-M2PCT6 | D P TMSYTLD |
| UniRef90-UPI00031B9D04 | A GQHHLEL |
| UniRef90-D9V726 | EPTVSYTFD |
| UniRef90-S3BNB5 | GQEVPVSFAYRL |
| UniRef90-Q21109 | GGEMKYELNDRV |
| UniRef90_U5VTB2 | N GVV T Y T F D Y ELS |
| UniRef90_UPI00047B8892 | DGSHRYSFDY |
| UniRef90-UPI0004787E1A | SGQHYLEL |
| UniRef90-F4ARS7 | DGKHSYELD |
| UniRef90_UPI000362DA70 | \LT L T Y Y FD |
| UniRef90-W8HGG7 | PGDSGYEFVL |
| UniRef90-B4W7Y1 | DGEHRYVLD |
| UniRef90-W5TIC1 | DGTHRMWFD |
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| UniRef90_K6Z0K8 | N GVA G Y Til HL |
| UniRef90-UPI0003B7248B | GREHFYTL |
| UniRef90-I3ZEQ4 | T G HSYDFEY |
| UniRef90-M0QKX6 | HS ED G Y P DT F E Y S |
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| UniRef90-R4SY41 | EPTMSYTL |
| UniRef90-J7L1J7 | GESVPYTFE |
| UniRef90_R4TDW9 | EGNHT F T LTTYEL |
| UniRef90-C1A123 | D GLLHRYDL |
| UniRef90-L8EJT8 | GQEVP Y T FD Y D |
| UniRef90-W7J214 | D THHFTIDYKF |
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| UniRef90-A0A011ADX8 | DGSHTFTVDYDL |
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| UniRef90-R2TDA7 | DNLV $\square$ E |
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| UniRef90-D6M1T8 | P GDGHATLTLDHS |
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| UniRef90-V4HX64 | G GKA D YRI |
| UniRef90-C7QAV9 | E GV]HR\\|WF D Y E |



UniRef9O_D4XHXO
 FQTRQWQEQSLLQTEGAGELKRASVVNELSG $M R V T G T F E V A D F T P A A V P P G D T G L P V G V A T M T K T F T G$ THTA $\square G K F T V T S W D E K T V Y Q A D D A R G F T S A T V E Y A Y T G G$

FEDTRWEESSYGEEDDGPVLARVQMAKRYTG THGHFVCDDWQESPGGPQDGPVRLARALVANTYSG MAKLKCTYKVEEWQEETSETGSSTSKIAAVRAFGPVGG QTHFVSGSFSVTGWDETKDYAVDDARGFNRADVTYAYTG
 TTHTAHGTFEVRLTPGDELVE RTGRFDLGKTWTG
 MT TRAESTFTSENSETTPREWTGGAMARTRWLKEFTG
 $M E A L A T F S T K N F K P T P T P E D T T S D P V S Q S T M E K C Y S G$
$M Q L T G V Y E D I N W Q E T T E K Q F D D G A K L S K A V V S L S Y D G$
$M$ QASFTVSSWQEQPDDNDNENFPVNQASATYQDSG
 TQMRDQATFVVDVWDGTADEPVDGGPVTGRVELTKTYTG $\begin{array}{rl} \\ M L A K G T F T V & E\end{array}$


A EARYTIT D GYEESFSKNELGGQKLT T GKFTGSYR G MASTKAKLTHSDWQESKSCEAE GHALAPMHCRYHYTG
 RQAASTFDVSDFSPRDWSPSATGVTPADVDVKNFSG T TMTSRKFHFKTSNWHCTQVTSPATPVPGSHISFDLSTGG HLD T P F S LDD T WD GVA DPAPAADPDAPARVVVAKTY T G VF D P P E K K VR Q T R C R H E G $\square Y K G G$
K T T L E V L S WDEPL DEDF SAENAVNDAKAKYKS T G
 Q Q
V K A S F R

QASFTVSSWQE QP IDNLNENFPVNQASATYQLSG TFTVSKWDEKLIDDDTRKDFPINDAHVEY DIDGG $S F$ D $L S$ FTGG
 SFDEVSRSNADNCRARVRGVASFSYAG $R \square D A T F D D T S W K E S D V V P S G T A P R \square T T V N T E R T F K G$


> SNGDNCRARVQGVASFAYAG $F D E V R R Q N G D N C R A R V R G Q A S F A Y A G$ EVSKADSSNCRARVQGTASFSYAG

A D LT F T


[^0]

[^1]
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UniRef90_Q7NQ18
UniRef90_UPI0003616A77
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lupas_21
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lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm


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| :---: | :---: |
| UniRef90－Q7NQ18 | AGEHGGEYTL |
| UniRef90＿UPI0003616A77 |  |
| UniRef90－D0LB61 | HS D D G P PTT F H Y T |
| UniRef90－UPI00036C3CB1 |  |
| UniRef90－T1B5T4 | GEEHRYEFEY |
| UniRef90－D3FEM3 |  |
| UniRef90＿D6B9S1 | GEKVAYRFTHEL |
| UniRef90＿G8PK49 | GNAVESEFELEF |
| UniRef90－H0QVK3 | HHESYEDTLRYS |
| UniRef90－UPI00036C6C98 | DGTHRMDFDHNL |
| UniRef90－UPI000262A1D7 | S GRHHVTLT LETT |
| UniRef90－NODY93 | GEHRHTI S YRL |
| UniRef90＿UPI0002FDFDB2 | GQTSKM\LDFEF |
| UniRef90＿R2TGL4 |  |
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|  | QGP R पT पDYE |
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| UniRef90－U1JIK3 | QSEH |
| UniRef90－UPI0003F74F25 | EA HRDWFDYE |
| UniRef90－W6K117 | GHHVT F R Y T L P D |
| UniRef90－A4F8F7 |  |
| UniRef90＿C8XD12 |  |
| UniRef90＿UPI000470F6B1 |  |
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| UniRef90－UPI00037BCD99 |  |
| UniRef90＿UPI0003B3473C |  |
| UniRef90－W8GVP3 | D G T HR L W |
| UniRef90＿J5QPT1 |  |
| UniRef90－14F567 |  |
| UniRef90－J6F055 | Q G Q |
| UniRef90－D1AI93 | N G Q |
| UniRef90－J5TGX8 | D |
| UniRef90－E9V0F9 |  |
| UniRef90－J6EQU9 | VA P H R Y T L T L |
| UniRef90－B6QW22 | P S QVNYRFVL |
| UniRef90＿UPI00036EC06E | D G T HR】RLD Y E L |
| UniRef90－E6G9F0 |  |
| UniRef90－Q3EMI8 |  |
| UniRef90－K1V550 |  |
| UniRef90－L8D6W9 | HGS A Q Y VIEL |
| UniRef90＿Q04DD9 |  |
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| UniRef90－A0A052J0U6 |  |
| UniRef90＿G4TXM2 | Y S T A GHT |
| UniRef90－K1W4N4 | VA P H R Y T LT L |
| UniRef90－M5BZ71 |  |
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| UniRef90 F4LFL4 |  |
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| lupas＿21 |  |
| lupas＿14 |  |
| lupas＿28 |  |
| jnet |  |
| conf | 870789998569 |
| sol25 | $B \quad \mathrm{~B} \quad \mathrm{~B}$ |
| sol5 | $B \quad B$ |
| sol0 |  |
| jhmm | $\longrightarrow$ |
| jpssm |  |


[^0]:    lupas_21
    lupas_14
    lupas_28
    jnet
    conf
    sol25
    sol5
    sol5
    jhmm
    jpssm

[^1]:    lupas_21
    lupas_14
    lupas_28
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    conf
    sol25
    sol5
    sol0
    jhmm
    jpssm

