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UniRef90_UPIOOO37118C0 UniRef90-UPIO00346045B UniRef90_Q12GHO UniRef90-HOUSE5
UniRef90 H5S919 UniRef90-B8GAF1 UniRef90-R4WZZ2 UniRef90-E8NO53 UniRef90-Q317A4 UniRef90-K9RDE4 UniRef90-UPIOOO16A50B3 UniRef90- В9К6Т3 UniRef90_W9G3Y1 UniRef90-K9U6P1 1 UniRef90-AOAO31LLDC UniRef90-UgVYL0 UniRef90- F2L3Q2 UniRef90-W9X1C9 UniRef90-C9M762
UniRet90 - 5 YKJJ UniRef90-TOLDU6 UniRef90-E8WLD1 UniRef90 AOLGQO UniRef90-UP10002EEB72B UniRef90-Q1LCD1 1
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UniRef90 D5MMW UniRef90-A8F367 UniRef90-D1C551
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UniRef90 X1EFC5
UniRefo-UHiRef90 UP1000

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VKWEVVDMEMPDNN
$M Q L H T V S V K N P E S G N M$
 SVQ EVVVDVVNAPEGANI
 $\begin{array}{r}\mathrm{M} \\ \mathrm{L} \\ \mathrm{V} \\ \mathrm{M} \\ \mathrm{S} \\ \hline\end{array}$ S




## QUERY

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UniRef90 H5S919 UniRef90-B8GAF1 UniRef90-R4WZZ2 UniRef90-E8NO53 UniRef90-D3L2P4
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UniRef90
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UniRef90 D8F1U3 UniRef90-X1EFC5 UniRef90 LOHKH4 UniRef90_UPI0003699EF6

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 QUKFGLAFCEASGARLIRVTGNNQELQEVAVKNAQALSAG HLRFGLAFCESSGPRLVRRSGNEPELVELAVRNAEAIGAG NAKFGVAFCEASGECLIRHSGTDEQMVAFAKKNAQALSAG ShRFGVAFCEASGPRLVRHSGNDSELVDDARNALDELAAG GUKFGLAFCEASQQALVRYSGNDQELIELAKKNAMNLSAG EVKFGLAFCEASGPCLVRAEGNDEELRSVAIKNASAMGAG GVKFGLAFCEASMECLVRTDGNDPELDDAVKNALAVAAG ALKFGLAFSEASGKRLI RYDGNDKELIDLAIGACKRIGAG Gi KFGLAFCEASGKRLVRRTGTAPELVELAVRNARNGAG


 SLKFGLAFNEASGPRLVRYDGNDDELIKVATDNAQKIGAG GAKFGLAFCEASDVCLVRTSGTDPELIELARDNALIALSAG GMEFGVAFCEASGDCKIRYEGNDQEMVDLAVKNAQTVACG NI KFGLAFNEASGPCLIRYEGNDQQLTDVADENARNIGAG GI QFGLAFSEASGDRLVRWSGTDEELDALAQKNVLGI AAG NLKFG|AFCEASGKCLIRTSGNDQKLIEMADLNANLLRAG SLRFGLAFCEASGPRLVRRSGNDADLVELATRTAVAI AAG QVKFGLAFCEASGPCLIRLSGNDAPLQEVATANAQALGAG GLKFGLAFCEASGKRLVRREGNDEELVKTATEACLKIGAG SAQFGIAFCEASGACKVRSEGNNEKLKKLAEKNALNIGAG RSRFGIAFSEASGPCLVRCEGNDPELDDAAKEAALGLGCG GMKFGIAFNEASGPRLIRFDGNDEELINVADENAKKVGAG GVRYGLAFNEASGPCLVRTEGNDPELVKAAEACALAVGAG GI KFGLAF DEASGKRLIRWEANDEDLKKHADDSADKIGAG SLKFGIAFCEASGKRLVRHDGNDEDLRKKAIEACMKIGAG G| KFGVAFCEASGPCLIRKAGNDDELVELAVKNAQKIGCG G| KFGLAFNEASGKRLVRYEGNDPELVNQALETSKA GAG G: KFGLGFCESSGKRLVRHSGTDEELERLAAETAFKIGCG Hi KFGIAFNEASGESLTRVDGNDEELKQIAVKNATDIAAG GI KFGLAFCEASGKRLVRRSGTDPELTQLACDNAMTIGAG QVKFGLAFCEASGDCLLRVAGNEEALSAIAAKNGEALSAG
 GGKFAIAFCEASGPCLIRAEGNDQELKADAIENANALGAG GVKFGLAFNEASGDRVRYDGNDPELDEAAVDAAKRUGAG NAKFGIAFSEASGDCLVRTEGNNEELEEFVADTMLEI GCG GAKFGLAFMEASGECLVRHEGTDPELRKHAAETMLRIGCG SMEFGLAFCEASGDRLVRWDGNSEELVQLAKVNALAIGAG GIKFGLAFCEASQERLVRKGTDPELVELAVKNALAVGAG QAEFGI AFGEASGDCLVRCAGNNKELVKIASNKMLEI GCG Ni KFGLAFCEASGDCLIRHDGNNAEMEAAAVENAEKINAG NVKFGVAFCEASMRRLLRRAGTDDELIGLAVKNALABGAG NIKFGI GFCESSGPCLVRYEGNDEKLIELAKKNALNI GAG




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| UniRef90_W9GHT2 |  |
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| UniRet90 HoUSE5 |  |
| UniRef90-H5S919 | YKL |
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| UniRef90-85YKJ5 | YKL |
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| UniRef90-UPIO0036C1FE4 | YKF |
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| UniRef90-UP100036C93E6 |  |
| UniRef90-UP100035D1428 |  |
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| UniRef90-E6N317 | YKL |
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| UniRef90 G9PYT1 |  |
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| UniRef90_B5YDK8UniRef90-B5Y8X4UniRef9-IOGLE6UniRef90-D9PWWT3UniRef90-B5ID02UnRefo-E1R9P5UniRef90-K9PSK9UnRef9-A2BM53UniRef90-A1ASW5UniRef9-E1ZLC3UniRef90-E4U7T1UniRef90-UPI0003661C56 |  |  |  |  |  |



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| UniRef90_B5YDK8 |  | N V L ${ }^{\text {N A }}$ \| | K H V ${ }^{\text {P P E V V }} \mathrm{N} \mid$ |  |  |
| UniRef90-B5Y8X4 | HFFI I VMEEGYPI | NVLNA | K NVPEVA A I | Y A A | ANPMQVIV |
| UniRef90_I0GLE6 | HFFII FIK G A F P | NVLNA | K S V Q EVCNI | Y A A | A P MQVI V |
| UniRef90-D9PWT3 | HSFIVFLREAFPI | NVLQRI | K NVPEVVNI | Y CA | A P PVEVI |
| UniRef90-B5ID02 | HAFIILLRNAYPI | NVLNAL | K NVQEITTRI | M V $A$ | A N P L Q V |
| UniRef90-E1R9P5 | HTFFLILRNCYPI | NVLDR1 | K A CPEVVHL | F A A | A ${ }^{\text {E E L L L }}$ LV |
| UniRef90-K9PSK9 | HSFVI LLKEGYPI | NFL NAI | K QCPEVCT | Y CA | A P PVEVI |
| UniRef90-A2BM53 | HVFVI YI K D A WPi | NVLNA | K S V Q EVVTI | F A A | GNPLQVIV |
| UniRef90-A1ASW5 | HVFCl LL R D A Y P | NVLNQ | K N CPEVVRI | $Y$ C A | A NPLQVIV |
| UniRef90-E1ZLC3 | HSFlI FLK D A F P | NVLK A | S S CPTVCRV | Y C A | A NPTAVVV |
| UniRef90-E4U7T1 | HFFIVVLGEGFPI | $\mathrm{N} V \mathrm{MHA}$ | RTVPEVVNL | Y A A | A NPLAVL |
| UniRef90-UPI0003661C56 | H $\square \mathrm{F}$ I I Cl K Q G P P | NIL N S | K MIP E V V Ni | Y C A | ANPIKVI |
| UniRef90-K9XIQ8 | HSFII VMQNAYPI | SVLNA | KQCPEVCNI | Y C A | A P PVEAI |
| UniRef90-E3GWU0 | HS Fil Y L K A Y P | NIL Q R L | K TVPEVVNI | C A | A P PVQVL |
| UniRef90-M1E8F8 | HSFII VLK NAFPI | NILNSL | K GCQEVVSI | F C A | A NDVKVVV |
| UniRef90-B1L613 | HSLVILMKDAWPV | NVLPR | K QLP El A T | H A | A NPLKV |
| UniRef90-TOLDA7 | HSFIVHLA DAFP | NVIPHI | R SVPEVLGL | Y A A | S NPLSVV |
| UniRef90-D6GVX7 | HS FVVILRDAYPI | NVL N R | K QVMEIVNV | Y A A | A NPLKVI |
| UniRef90-Q97BF9 | HTFVILLRDAYPI |  | $V K$ CQEVGG | F A A | A S S ${ }^{\text {L }}$ |
| UniRef90-LOADG7 |  | NVLNS |  | Y V | SNPVKVAV |
| UniRef90-TOMUR0 | HCFLIMLKNVFP | SVLNQ | $\checkmark K$ CQEIV | F A A | S NPVKVLV\| |
| UniRef90-Q01VU8 |  | $N V L$ GR | $K \mathrm{DVP}$ P E V C G | F C A | A NPVQA! V |
| UniRef90-D8PJD7 | HSVIVLLKECFPI | NVLPMI | R QVPP V C T | F C A | ANDVEVI M |
| UniRef90-TONEF7 | HTFMl VLREAYPI | QVL $\mathrm{NQI}^{\text {l }}$ | KS CQEV GR |  | ANPLTVLV |
| UniRef90_Q6L0A6 |  | N ML NA A | K M C Q EVGT | A A | A NPLSVIV |
| UniRef90-Q9HII6 | HTFVILIRNAYPI | N L N A | $V K M C Q E V G S I$ | F A A |  |
| UniRef90-UPI000349CDB9 | HSFI I L L Q A Y P | NFL ${ }^{\text {a }}$ | K Q CPEVCN |  | A NPVEVI |
| UniRef90-TOMON7 | HTFLILI R D A F P | TVL ${ }^{\text {a }}$ A | K NCQEVGSV |  | A NPI S Al |
| UniRef90-SOALE3 | HTFMILLRNAFPI | NI L P Q | K MTQEL GA | F A A | A NPIKVIL |
| UniRef90-D2EE90 | H Lf V L L K D A Y P | NVLNR | K DVMEVVN |  | ANPLKVL |
| UniRef90-W7T6T4 | HSFVILLRGGFPV | NVLNP | $\checkmark \mathrm{K}$ LVPEVCT |  | A NAVDVLV |
| UniRef90-T1C0T2 | HT FLILFKGAYPI | NVVK HI | R DV N EVVSV | Y C A | A N PVSVVV |
| UniRef90-T1AF09 | HSFIVFLRDGYPi | NVL N A | K SVP EVGC | F C A | A NQVEVLI |
| UniRef90-Q4LEF4 | HVFVLLI SNAYPI | NIL N R | $\checkmark K M M D E V A C$ | Y CA | A P PVELI |
| UniRef90-D3S1Q5 | HVFVVFVENAFPI | NVLNTI | KQHPAVCNV | Y A A | A NPMEVIV |
| UniRef90-C5ZZS6 | HVFVIVMKNAFPI | NVL ${ }^{\text {T }}$ | $\checkmark \mathrm{K}$ N HPAVVMV | Y GA | ENPGQVI |
| UniRef90- X1VUZ6 | HVFVI I L K D A P P | NVLNA | K N CPEI C | F C A | A NEVEVVI |
| UniRef90-B1ZRM0 | D TFLVFFGAVPPF | GILAA | K S L P DV C Gi | Y CA | A NPLEVIL |
| UniRef90-XOTPN4 | HVFI I F LD G T F | NVL N R | K QVP EVCS | Y C | A N AVQVVI |
| UniRef90-X8F0F1 | HSFVI FLREGFPV | NLLNP | $\checkmark K$ AVPEV | F C | A NPVEIVV |
| UniRef90-X7Y169 | HCFVIFLREGFPI | SVLNP | V K A V P E V C T | HCA | A N PVEVV V |
| UniRef90-Q3SBA3 | HVFI ALI K D A P PV | NIL ND | K HV H GVCR |  | S NPMEVVI |
| UniRef90-O30249 | HVFVVVTSNAFPI | NI L NTI | KLHPAVCNV | F V A | A NP\EII V |
| UniRef90-Q2Y4N3 | HTFFI 1 M ${ }^{\text {G A A P }}$ | NVLTVL | K S HPAVANI | F V A | A NPLDVIV |
| UniRef90-F2KMT9 | HVFVIMTSNAFP | NVL N A | K M HPAVCNI | F V | A NPIEII V |
| UniRef90-X0YLP2 | HAFI I FMENAYPI | NVLNS | K S VP E V C Ril | C A |  |
| UniRef90-XOUQU4 |  | NVL Na | K N |  |  |
| UniRef90-X1AF24 | HAFI I FMENAYP | N V L N | S VP EVVRT1 | F C A | A NQTE $\square$ V I |
| UniRef90-X1GHJ9 | H $\square \mathrm{F}$ VILL L K D A F PL | NVLND |  |  |  |
| UniRef90-X0ZLG5 | HSFIVFMKDCFPL | NVLNA 1 | K N I P E VCF | Y C A | A NPTKLVI |
| UniRef90-X0TV96 | HAFVVLLKKA |  |  |  |  |
| UniRef90-X1JLS6 | HTFVVLLKKAFP | NVLNS! | $\square K$ D C P E VCS $\square$ | F C A | A N P V E V V I |
| UniRef90-K2BU71 | HSLLFIFLK N A |  |  |  |  |
| UniRef90-T1CM40 |  |  |  |  |  |

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 AESK $\square G G R G \square L G V \square D G F \square P K G \square E N K E D \square A W R K K F \square R D \quad \square K$ AET RQGRGVMGVIDGFHSKGVEREADVKTRKKFDRNTGG

[^0]

| UniRef90_B5YDK8 | Y K F |
| :---: | :---: |
| UniRef90_B5Y8X4 | $Y K L$ |
| UniRef90_I0GLE6 | Y K F |
| UniRef90_D9PWT3 | $Y \mathrm{~K} F$ |
| UniRef90_B5ID02 | $Y \mathrm{~K} L$ |
| UniRef90_E1R9P5 | $Y \mathrm{~K} L$ |
| UniRef90 K9PSK9 | Y K |
| UniRef90_A2BM53 | Y K |
| UniRef90 ${ }^{-11 A S W 5}$ |  |
| UniRef90_E1ZLC3 | Y K |
| UniRef90_E4U7T1 | $Y \mathrm{~K} L$ |
| UniRef90_UPI0003661C56 | Y K |
| UniRef90_K9XIQ8 | $Y K L$ |
| UniRef90_E3GWU0 | $Y K$ F |
| UniRef90_M1E8F8 | $Y \mathrm{~K} L$ |
| UniRef90_B1L613 | Y K |
| UniRef90-T0LDA7 | Y K |
| UniRef90-D6GVX7 | Y K |
| UniRef90_Q97BF9 | Y K |
| UniRef90_L0ADG7 | Y K I |
| UniRef90_T0MUR0 | Y K |
| UniRef90_Q01VU8 | Y K |
| UniRef90_D8PJD7 | Y K F |
| UniRef90_T0NEF7 | Y K |
| UniRef90_Q6L0A6 | Y K |
| UniRef90_Q9HII6 | Y K |
| UniRef90_UPI000349CDB9 |  |
| UniRef90_T0M0N7 | Y K |
| UniRef90_S0ALE3 | Y K |
| UniRef90_D2EE90 | Y K |
| UniRef90_W7T6T4 | $Y \mathrm{~K} L$ |
| UniRef90_T1C0T2 | Y K |
| UniRef90_T1AF09 | Y K L |
| UniRef90_Q4LEF4 |  |
| UniRef90_D3S1Q5 | $Y \mathrm{~K} L$ |
| UniRef90_C5ZZS6 | Y |
| UniRef90 X1VUZ6 |  |
| UniRef90_B1ZRM0 | $F \mathrm{~K}$ L |
| UniRef90_X0TPN4 | Y K L |
| UniRef90_X8F0F1 | Y K L |
| UniRef90-X7YI69 |  |
| UniRef90_Q3SBA3 | $Y \mathrm{~N}$ |
| UniRef90_O30249 | $Y \mathrm{R} L$ |
| UniRef90_Q2Y4N3 | Y |
| UniRef90_F2KMT9 |  |
| UniRef90_X0YLP2 |  |
| UniRef90_X0UQU4 |  |
| UniRef90_X1AF24 | Y K L |
| UniRef90_X1GHJ9 |  |
| UniRef90_X0ZLG5 | $Y \mathrm{~K} L$ |
| UniRef90_X0TV96 |  |
| UniRef90_X1JLS6 | Y K L |
| UniRef90_K2BU71 |  |
| UniRef90_T1CM40 |  |
| lupas_21 |  |
| lupas_14 |  |
| lupas_28 |  |
| jnet |  |
| conf | 999 |
| sol25 | B |
| sol5 |  |
| sol0 |  |
| jhmm |  |
| jpssm |  |


[^0]:    lupas_21
    lupas_14
    lupas_28
    jnet
    cont
    sol25
    sol5
    sol0
    jhmm
    jpssm

