## QUERY

UniRef90_UPI00036719B4
UniRef90_Q975G7
UniRef90 F4B8B7
UniRef90_F4G1S6 UniRef90_W7L6P0
UniRef90_A0A031LMH2
UniRef90_Q4JB26
UniRef90-FOLHQ5 UniRef90_UPI00029A3E28 UniRef90_G0ECM8 UniRef90_C6A457 UniRef90-U6EBP4
UniRef90 A5UJS0 UniRef90-F6D478 UniRef90-Q2NEX6 UniRef90-D3E3U3
UniRef90 D9PWR7 UniRef90-E3GZ90 UniRef90-A2BKB9 UniRef90-Q8PTT9
UniRef90 Q8TYC0 UniRef90-A0B8W4 UniRef90_N0BP98
UniRef90 UniRef90-G7WQG2 UniRef90_UPIO00474B2B6 UniRef90-G4RPH7 UniRef90-A3DMU8 UniRef90_F4BTR1 UniRef90-D2RH02
UniRef90-I0A2W8
UniRef90-10A2W8
UniRef90-Q0W2Y9 UniRef90_UPI0003632410 UniRef90_I3TDJ8 UniRef90_B8D6C0 UniRef90-E8R7E5
UniRef90-F7XML1 UniRef90-A0RXU2 UniRef90-LOKY66
UniRef90-E6N8Y6 UniRef90_Q64B49 UniRef90_R9T5L6 UniRef90-E1QP67
UniRef90-D5U396 UniRef90_Q12ZB8 UniRef90-S5ZDN9
UniRef90-C4R4Z2 UniRef90_V6ARV7 UniRef90-A8A8Z3 UniRef90-J6EE87
UniRef90-D5EAW7 UniRef90-X1GHB4 UniRef90 A1RXQ7 UniRef90-XOWDV8 UniRef90-J7S3U0 UniRef90_G8ZV81 UniRef90_C4XXZ2
UniRef90_B3TBC5 UniRef90-B3T8C3 UniRef90_Q6CA66 UniRef90-T1BRU9 UniRef90-B1L6N8 UniRef90_LOHJ37 UniRef90-W1QHV2 UniRef90-B6JY62 UniRef90-12JY05 UniRef90_B3TBC4 UniRef90-J9IS21 UniRef90_UPI000375FA17 UniRef90-F2UU76 UniRef90-M7TDM6 UniRef90_K0IL40 UniRef90_L1IG35 UniRef90_LOPGE7
UniRef90_M9SC60 UniRef90-A8MBC2 UniRef90_S4R881 UniRef90-F2U1Z1
UniRef90 M4YLU4 UniRef90-UPI00037E4041 UniRef90-E9FXT9 UniRef90-TOMVL8 UniRef90-K2RIR5 UniRef90-T2ME10 UniRef90-F6Y6W3 UniRef90-D2EG60 UniRef90_S9Q2Z1
UniRef90_UPI000380A2AF
 MDRKIVDP GELLLSENEQNAGLGTYV D R K RVMPGDVITT GPYRPEQNT

LYF F ENE LVVVP
VPG

Q V V VPG
NT N E S GS G T Y V


## K D Y NVS G S $\square Y$ W

 K E GKVV Y R D GK
E E G K
V DGNI Y S A LYVNDK QIVLPGDAI A T K D YNVSGS $\quad$ V W D D G DVAYS A $K V I V A D R Q L V R P G D D L A A G E F K K D P D K H V Y \square F$ $\square \mathrm{V}$ V D R Q NNQS IVVP TR

P G DVI
QRKIVMPGDLVVKGNY T I NN P K S Y L Y K V
 K DKEIV $\quad$ P GEVL SKDNFTP G RGT
DHVKDRQIVAPGEFVGEGRFRVEGQ
$R E V V V P G E V L T E D N F L P G R G T I L N K E R$

## T D S

$K N L V T K K R Y V I P G D V I$

DRTLVLP LLVRDKEVVIP G GQP $R K$ V VPGEE $S V V$ TP GELLI $R \mathrm{~N} V V_{\mathrm{E}} \mathrm{V}$ Q Q D R

$V L \vee N D K D F V L P G B Y$ KNFD IV TP GELL S
 MRRRYVIPGDKI AEGNFRPLMN VDKAGNALIA T

EVVTPGQEISEAGFLRGHGTYVWK GKLIAS
HFSSSKVVTPGEFATNDPFMRGHGTYVARDKNTVYAS
V T R
R
R $R M I V L P G B D$ RHLVAPGDV $\begin{array}{llllll}V & C & P & G & D & V \\ V & L & P & G & D & V\end{array}$
RETV V LP MERKIVLPGEEI NEGMKQ G GNGIVH
$K V V V P G D F I S A E V N R A G E G T Y V$
KRARVARRDIVTPGETVTDDPQMRGHGTYVPDD D GNVYAL

$\square$ NDKNFD IVVTBELLSDE
$K \mathrm{~N}, \mathrm{M} \vee \mathrm{APGQ} \mathrm{L}$


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| UniRef90_UPI00036719B4 |  |
| UniRef90-Q975G7 | I TGLLIEVKENLFEIVPLEG |
| UniRef90-F4B8B7 |  |
| UniRef90-F4G1S6 | V V GIL L ${ }^{\text {l }}$ K EPVFEVIPLE G |
| UniRef90-W7L6P0 | V I GLFEVKK P I F El I PLE G |
| UniRef90-A0A031LMH2 | $V \vee G I F E P K E N R F E V I P L K G$ |
| UniRef90_Q4JB26 | 1 TGLITVK D G S I E V |
| UniRef90-FOLHQ5 | V VGLVDIRNDFIRVI |
| UniRef90-UPI00029A3E28 | V VGLVEI R G D T I K V I PLE G |
| UniRef90-G0ECM8 | 1 L GL A D V Q E K K I GVI PLE G |
| UniRef90-C6A457 | VVGLVRVSNDTV SVVPLEG |
| UniRef90-U6EBP4 | LVGGLVAVRDKKLSVI |
| UniRef90_A5UJS0 | LMGLVSLRNKKI R V I |
| UniRef90-F6D478 | LVGLVAI R D K K I S V I PL Q |
| UniRef90-Q2NEX6 | ITGLVVYFESEQI K V I PL K |
| UniRef90-D3E3U3 | L L G L V S L N K K I SVI |
| UniRef90-D9PWR7 | FVVGLVSVRNKKI NVI PL |
| UniRef90-E3GZ90 | VVGLLVSIK K K R I EV I |
| UniRef90_A2BKB9 | 1 T GLA AVQQEKVSI |
| UniRef90-_Q8PTT9 | L CGI ESLKEDKVGV I |
| UniRef90-Q8TYC0 | V T GLVDID GR R I R V I PL A G |
| UniRef90-A0B8W4 | L Y Gl A F R D RIS V I |
| UniRef90-N0BP98 | \\| M GLVDRSETSLRI |
| UniRef90-B1Y979 | VVGLVEFRDDVVVI |
| UniRef90_G7WQG2 | LYGMAS SYKDKVRVI |
| UniRef90-UPI000474B2B6 | $V L G \square K$ S VK S N Y V N I I P L G G |
| UniRef90-G4RPH7 | SVGGLVEFRENKIVI |
| UniRef90-A3DMU8 | VLGI A S $\quad$ T D K TV S V I |
| UniRef90-F4BTR1 | LYGLANYRD KI NVIPLA G |
| UniRef90-D2RH02 | VLGLLDKTETMVKVIPLKK |
| UniRef90_IOA2W8 |  |
| UniRef90-F9CV52 | AIGGISEIF D D SIKVIPLT G |
| UniRef90-Q0W2Y9 | NFGLVDRR NSIKVIPLS G |
| UniRef90_UPI0003632410 |  |
| UniRef90-I3TDJ8 | A YGVASVSENDI AV I |
| UniRef90-B8D6C0 | VLGI VYI E D K DI NVI |
| UniRef90-E8R7E5 | V L GVVYI EDKDVNVI |
| UniRef90-F7XML1 | LYGVLNI K NKVDVIPFS G |
| UniRef90-A0RXU2 | VVGVSEI A D D AVSVIPDT G |
| UniRef90-LOKY66 | LYGVANVK NRIISVI |
| UniRef90-E6N8Y6 | VMGFAKSINGVLRII PVS G |
| UniRef90-Q64B49 | QY G\\|VNVRGE I K V VPLS G |
| UniRef90-R9T5L6 | 1 M GFKTVKSNYVNVVPLS |
| UniRef90-E1QP67 | V VGLINI RERDVEVIPLS G |
| UniRef90-D5U396 | LVGVVNVS GEDI QVIPLE G |
| UniRef90-Q12ZB8 | LYGI ANFKG RVSVVPFS G |
| UniRef90-S5ZDN9 | VLGVVT $\quad$ NEDVLRVIPLK |
| UniRef90-C4R4Z2 | V A G TIISKVNKLL SVVPL R G |
| UniRef90-V6ARV7 | TVGI SEITDS GVRVI |
| UniRef90_A8A8Z3 | VAGMAEITNGTV SLI PFEG |
| UniRef90-J6EE87 | VA GTVS RVNRLLSVIPDKG |
| UniRef90-D5EAW7 | FYGVAN DKNRVTVVPFSG |
| UniRef90_X1GHB4 | FVGI K VIR K N Y I NVIPLR G |
| UniRef90-A1RXQ7 | VL GVVTVDEEVVKVIPLK |
| UniRef90-X0WDV8 | NI GLK K I NKNYI NVI |
| UniRef90-J7S3U0 | VVGTVSKVNKLLSVVPLK |
| UniRef90-G8ZV81 | VAGTVSKVNRLLSVLPLKG |
| UniRef90-C4XXZ2 | $V A G N V S R V N R L L S V I P L R$ |
| UniRef90-B3TBC5 | CMGLLS DVS S D SVVRVIP L A G |
| UniRef90-B3T8C3 | A T GFSEl K D D L T V |
| UniRef90-Q6CA66 | TAGVVTKTNKLLSVVPLRG |
| UniRef90-T1BRU9 | VLGLVAERPPFVQVLPL S G |
| UniRef90-B1L6N8 | KL GLV SLK D D EI SIIVPLVG |
| UniRef90-LOHJ37 | YLGIVVDLRAGYVNVIPLS G |
| UniRef90-W1QHV2 | VAGTVLKVNKLLSVVPFKG |
| UniRef90-B6JY62 | VA GIVQRV |
| UniRef90-G8BSM0 |  |
| UniRef90-12JY05 | VA GIVI L R V N X L L S V I PFK |
| UniRef90-B3TBC4 | AVGFYEIEDNAVNVIP LTTG |
| UniRef90-J91S21 |  |
| UniRef90_UPI000375FA17 | VVGMVRTKGQKTEV ${ }^{\text {V }}$ PARG |
| UniRef90-F2UU76 | FL GMAQVSEKR\\|DVTPLTG |
| UniRef90-M7TDM6 | KLG\\|LS A S S Y Y I NVIPLK G |
| UniRef90-KOIL40 | RIGI A P T GRDGVKVI PL S G |
| UniRef90-L1IG35 | VAGIVQRVNKLVSVV |
| UniRef90-LOPGE7 | V VGTVQRVNKLI SVKP |
| UniRef90_M9SC60 | V M GLLKT Y T G D AVVGVIP M G |
| UniRef90-A8MBC2 | TVAMINIK G DVVQVIPLNG |
| UniRef90_S4R881 | VAGVVERVNKLI CVRPLK |
| UniRef90-F2U1Z1 | $V A G V V E R V N K V I S V R P$ |
| UniRef90-M4YLU4 |  |
| UniRef90-UPIO0037E4041 | SIGLLSDVSADSVRVIPLT G |
| UniRef90-E9FXT9 | VA GVVERVNQLIS VR |
| UniRef90-TOMVL8 | QMGVLQTYNNYANIIPPLS G |
| UniRef90-Q64DM7 | KYGVVDDRG T I K V VAL S G |
| UniRef90-K2RIR5 | VAGTVLKTNKLLS |
| UniRef90-T2ME10 | V VGVVERVNKLI S |
| UniRef90-F6Y6W3 | V AGVVERINKLI CVRAL |
| UniRef90-D2EG60 | FLGMVQLSD RGI SVSPLA G |
| UniRef90-S9Q2Z1 | VTGVVQRVNKL |
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| UiRef90-K1QXY9 |  |  |  |  |  |
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| UniRef90_M7TAN9 |  |  |  |  |  |
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| UniRef90-T1BCl3 |  |  |  |  |  |
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| niRef90_U9U9U6 |  |  |  |  |  |
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| niRef90-U5HAR4 |  |  |  |  |  |
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| niRef90-M7TWJ2 |  |  |  |  |  |
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| UniRef90-FOWJU5 |  |  |  |  |  |
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| niRef90-W6MTA2 |  |  |  |  |  |
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| UniRef90-A0A024JI76 |  |  |  |  |  |
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| UniRef90_L8FW90 |  |  |  |  |  |
| UniRef90_UPI00026577D2UniRef90_D7E9E4 |  |  |  |  |  |
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| UniRef90-A4VBG0UniRef90-X1LGA0 |  |  |  |  |  |

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| UniRef90_K0KJ20 | $\|V\| A G T!S R\|V N R\| L L\|S\| V\|T P\|!R G$ |
| :---: | :---: |
| UniRef90-A0A023FHB2 | VAGVI EKVNKLI TVRPLK |
| UniRef90-T1BPA4 | YFGTI QK G D ¢ Y I DVVPFT G |
| UniRef90-17M2A2 | V I GTVVQTNKLL SVS |
| UniRef90-K3X3G6 | VTGVVEKVNQLI TVR |
| UniRef90_G3PX61 | VA GEVQRVDKLI CVVPLQ |
| UniRef90-W4XYP2 | V A GVVEKVNKLI SVRPLK |
| UniRef90-Q5KQ17 | $\checkmark A G T I E R V N K L I S V R P L R$ |
| UniRef90-T0QJ62 | V A GVVEKVNQLVSVRP |
| UniRef90-H0Z2Q5 | V A GVVERVNKLVCVRALK G |
| UniRef90-D3BDG0 | VCGLVERVDKLVSVRP |
| UniRef90-N4VF33 | VAGTVNRTNKLLSVRP |
| UniRef90-F6QCl3 | V VGCVERVNKLI C |
| UniRef90-G1N1J1 | V A GAVERVNKLVCVT |
| UniRef90_T1A3D7 | VLGII D P TDRSV HVVPRNG |
| UniRef90-F4P6X7 | VAGVVERVNKLI SVK |
| UniRef90-G0QFQ4 | HIGTVKYGSGNVRVQPMDG |
| UniRef90-UPI0003604AC7 | LGLYERSSNEVNVIPLRG |
| UniRef90-E3KDI4 | LAGTVERINKLITVIPLS G |
| UniRef90-K1QXY9 | VAGVVERVNKLICV |
| UniRef90_C7DHU8 | V VGRAKVNEGKMEVEP |
| UniRef90-M7TAN9 | RLGFLLS QHADY\NV $\square$ P LT G |
| UniRef90-T1EGF1 | VAGVVEYVSKLVTVNPLK |
| UniRef90-G2QFQ0 | VAGTVTRTNKLLSVR |
| UniRef90-T1BCI3 | V L G TVDPRDRTVR |
| UniRef90-G0S9A0 | VAGTILRTNKLLSVRP |
| UniRef90-A5E4J0 | VVGNILRVNRLLSVNPIRG |
| UniRef90_U9U9U6 | V A GVVDRVNKLISI R P |
| UniRef90-F4RN16 | LA GTIERINKLVSVRGLRG |
| UniRef90_U5HAR4 | VA GTLERVNKLVSVRP |
| UniRef90-A0B534 | TTGVVDID S R V S |
| UniRef90-M7TWJ2 | VA GTL S K T N K L L S VRPL |
| UniRef90-T1AJK7 | $V \mathrm{MGLL}$ S A R P P FARV $\square \mathrm{PL}$ L A G |
| UniRef90-F0WJU5 | V A GVVEKVNQLIS V WP |
| UniRef90-C5L6L5 | VRGILLERVNKLLYI R P |
| UniRef90-W6MTA2 |  |
| UniRef90_A8PTK6 | VA GTVEQVNKLVSVR |
| UniRef90-A0A024JI76 | V A G S I VRVNKLL SVKPLRG |
| UniRef90-F0XSK4 | LA GTVMRTNRLLSVRPLR |
| UniRef90_L8FW90 | VAGTI QKTNKLLSVR |
| UniRef90-E5AAB7 | VAGHLHKTNKLLSVQPLR |
| UniRef90_UPI00026577D2 | V A GVVEKVNKLITVR |
| UniRef90-D7E9E4 | $V A G D V V V D D N S V S V D^{P}$ |
| UniRef90-A4VBG0 |  |
| UniRef90_X1LGA0 | $F \backslash \mathrm{G}$ L |

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

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

