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 A GTPHVVATGNYDARTYTLTTLTQSCAPTPGQSAKEP FVI P S GTPKL AVVSGQWDARSFRLDVVSQTWAPTPGQSDKQPMVI P

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 AGTPLVSVSSSYDQGEFTLSLLEMIPPTPGQGTKEPMHIP


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A GTPVVTTSGDYDAGTFALKLRQQTPPTPGQSEKKPVVI P

A GTP T R S SV A A E Y A D K T Y T L
A GTPRVQVSLTHDAQTATLTVRQSNAPAGDEAVKPPD HIPB




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VA GLI GDDGNDMPLRLEGEPHSTRVLEFTQAEQSFTFVD

LS L Q L F A D D G A A VPA A SVVE GA E Y T G S V L H L T E R TAQTA V F H G
I R L G L LD D N G K E L N LLH
L A L A L F GEN GQ K L DLVVSEDAAPTE GLI E L DRAARADRFRE I KVALMDTE GKPLPFKYQGGHYEEVLLHLSEASQEFVFEG




 $V A F G L L A P D G A E L P B A G L L L L E E A R Q D I V F E N$
VAFALFGENGEKLELASPDARADE



LCMGLV A E GK NDPLVLAAGEDVVTN R L L L

| $F$ | $D G E L$ | $D$ | S E G N S L |
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LSVAL YNKYGEYL GEQYDQVLNVTQEQQVFVFSD
I RVGLIGGNGQEIPLVRDGEAIEDGVLNLTRRSETARFVD


L A VGLL N S K GED MVLDD TA G GPAK T A V L LVVDKEEQEFT F L N
L A L G L L N S G K G R R L S T K L N G Q A N D E H L L I L R D F E Q D F V F T D
$V$ K M GLLD R S GKEML



LAVGL LD Q S GAEI
I K I A L F N A Q G D A L P LA H D
LK K E L Y GE Q GEP I A L Q F E G T E Q H N
I R V A L F D S K G QL MP I K H D








 V A L G L L D S N G S D I P L S S V G Q P V H T A I L R V T Q K E E E F I F S D



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LADGLI DAD GRSMP IQ WE GEARRDTVVVL E L R EAASGT WTLLT D
L D I E L Y DVVH G A V I P L Q Y N GV M M L N K I L N N N E S DQ S F T F D R
V S V ELLS S NGEALALNSNGQAVSS VLELTQQQQTWHFEG


I AVGLI GPNG DEVLPTRILEMTEDRQSFSFEG

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NKVLDFVENEQEFVFDN V A I GLL N S T GT E M P V C E VG H S D T T A I L P L K K T E Q V F R F K $V$ S I G L L G A D G N D LLA A K



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A GTPVLSVTATEDEHGYSLNFRQQTPPTPGQAEKLDVVVI|P

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A GAGTPTVGGDDDE
A GTPSSLSWRGEHDAKQFRLTVVQKTAPTPGQPDKDVALHMP
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| UniRef90-TOHN87 | FAA APVLSINRDFSAPVIVD |
| UniRef90-A8TUW9 | VAPGTVPSLLRGFSAPVKL |
| UniRef90-V4P7M9 | $V A T A P V V S A L R R F S A$ |
| UniRef90-R1DFB5 | LPAPVVPSILRGFSA |
| UniRef90_Q15UC4 | LKAKPTPSLLHNFSAPVKV |
| UniRef90-A3VI45 | L A AKPVPSILRGFSA |
| UniRef90-K2MGC6 | L K A R PVLSINRGFSA |
| UniRef90-UPIO0040C4FC3 | IT QEPVVSL $\square$ R DFSAPVQ |
| UniRef90-Q2N674 | FAQAPVLSINRG |
| UniRef90-K6YJ54 | QAKPTPSLLHDFSA |
| UniRef90-UPI0003814 | ACKQPVFSLLRDFSA |
| UniRef90_UPI000475F | 1 A S Q PVPSLLRGFSA |
| UniRef90-A8PKP6 | VKSKPIPSLLRHFSA |
| UniRef90_Z5IR91 | $V \mathrm{Y}$ F Q PVPALLCEFSA |
| UniRef90-A4CC84 | I K S A P TPVLLVDFSA |
| UniRef90_Q47936 | LS SEPVPSLLRDFSAPVILNF |
| UniRef90-A0A037ZJI2 | LA SKPVPSLLRGFSAP |
| UniRef90_UPI000225E | HAAPPI DSINRGFTA |
| UniRef90-U5N8G5 | VQEPPVPSLLRGFSA |
| UniRef90-Q1NDE2 | VATAPVLSINRGFSA |
| UniRef90-K6X9R6 | 1 D SKPIPSLLHGFSA |
| UniRef90-B6AC42 | VESDPVPSILRDFSAP |
| UniRef90-A6DNQ3 | LKEKPVPSLFRAFSA |
| UniRef90'B1KDM1 | LDHKPTPSLLQNFSA |
| UniRef90-UPI00046726BF | SERPAlSL NRGFSAP |
| UniRef90-U2ZUF7 | FAKPPVLSLNRGFSA |
| UniRef90_V4RCC7 | VKHAPVLSILRHFSA |
| UniRef90-A0A058ZPI3 | APEKPTPSVLRHFS |
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| UniRef90_L1P0Y9 | VD T A AVPSLVRGLSA |
| UniRef90-V4NWE7 | VKS S PVLSVLRHFSA |
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| UniRef90-F0E | S A |
| UniRef90-X5Q5I0 | VERPAMSLNRGFSA |
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| UniRef90-R4YM22 | VKEEPVPSLLRDFSA |
| UniRef90_UPI00035C5A4B | LSATPAVSWLRGFSA |
| UniRef90-I9C5N0 | FASAPVISINRGFSA |
| UniRef90_UPI0003B7805B | FAQAPVLS |
| UniRef90-Q5QX55 | VVEKPILSLFDNFSAPVKVK |
| UniRef90-V4PMY7 | V AEQPVISALR |
| UniRef90_UPI00037CC2B6 | LPSLLRGFSA |
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| UniRef90-C7D8K8 | LK K K P I P S ILR |
| UniRef90-D8SUB9 | VKEKPVPSYLRSFSA |
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| UniRef90-F8JGS8 | V G S R P VP |
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| UniRef90-E8RL08 | V THTPV $\mathrm{V}^{\text {S A A R GFSA }}$ |
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| UniRef90-T0J2K9 | FT DAPVLSI NRGFSAP |
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| UniRef90-UPIO004756910 | VPDGAVPSLLRAFTAPVSL |
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| UniRef90-M1SU00 | VASRPVLSINRNFSAPINL |
| UniRef90-G2IS15 | FAQAPVLSLNRGFAA |
| UniRef90-M2XX49 | P PGSRLS MLR GFSAPVR |
| UniRef90-V7IIB4 | NYQQVVPSLLRGFSAPVN |
| UniRef90-D4YWX7 | WPTAPILSINRGFSA |
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| UniRef90-U1LL39 | VVSKPVPVLLEDFSA |
| UniRef90-A0A011PLP1 | VAEPPVLSINRGFSA |
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| UniRef90_I4ZUB4 | $V\|K A K P\| V / S \left\lvert\, \frac{90}{L R N F S A P V\|N\| L \mid E F}\right.$ |
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| UniRef90-Q4YUW6 | V SEKPIPSLFREF |
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| UniRef90-A7AQY5 | V NEDC |
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| UniRef90-M4S8B2 | I GERPILSI NRGFSAPVTV |
| UniRef90-B9QTN5 | VP DAPKVSLLRGFSAP |
| UniRef90-E2C | LSEAPVLSILRDFSSP |
| UniRef90-A0A031LXJ1 | V VKVPVISLLRNFSAPVNLEF |
| UniRef90-UPIO0037372B6 | VTERPVLS NRGFSAP |
| UniRef90_B1LYU2 | 1 AEEPVPSLLRDFSA |
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| UniRef90-UPI00026CDC97 | V T ERPI D S I NRGFSA |
| UniRef90-UPI00047BC51A | K A G AVPSL $\square$ R |
| UniRef90-W9BUK6 | YARAPVLSINRGFS |
| UniRef90-Q3IGY4 | LAEQPVAVLLEDFSA |
| UniRef90-D9s |  |
| UniRef90_UPI00046F2538 | LKERPTPSLFRGF |
| UniRef90-UPI00035C8E68 | FHERPIPSLLRDFSA |
| UniRef90-F7RPB1 | LTHKPVISLLQDF |
| UniRef90-Q0IBF1 | L P QPPALSLFRQFSAP |
| UniRef90-K1Z941 | I A AKPCPSLLRNFSAPVKVQY |
| UniRef90-UPI00037C08A1 | PEKP ${ }^{\text {P P S L L R NFS }}$ |
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| UniRef90-C0QFX7 | V PEKCIPSI F |
| UniRef90-B8KXW5 | VESEPVPALLRGFSAPVR |
| UniRef90_UPIO00475A2AC | GETRPLVSLLR |
| UniRef90-M1V766 | VPPGHVVSYL |
| UniRef90-UPI0003B57718 | V DEQPVLSINRG |
| UniRef90-Q12NG9 | 1 MQPPVMSLLQDFS |
| UniRef90_Q0F8V1 | 1 N QRPVVSLLRGFS |
| UniRef90-J4DNF9 | V S D CVLSLNRGFS |
| UniRef90-W0AJQ6 | A ERPVLSIN |
| UniRef90_UPI0004755360 |  |
| UniRef90-UPI00037BA60D | VAERPIVSLNRGF |
| UniRef90-V2TFZ0 | I T NEPVVSLLRNFS |
| UniRef90-Q3SKD3 | 1 P A A PVASLLR |
| UniRef90-F8KVT8 | VASKPIPSVNRDFTAP |
| UniRef90-B6BJ89 | L NSKPYLSINRDFSAP |
| UniRef90-A1RIZ9 | L S HKPVVSLLQD |
| UniRef90_U1KV86 | I D SMPVPVLLEDFSA |
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| UniRef90-N9CNH0 | 1 T A P PVVSLLRNFSA |
| UniRef90-UPI00047CE381 | V R ERPVVA WLENFSA |
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| UniRef90-UPI00047CFEFB | VEQAPVISLLRGFSAPVT |
| UniRef90-V9HLN8 | NANTVTPSLLRGFSAPVYL |
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| UniRef90-E0UV09 | FETKPVLSINRD |
| UniRef90-G4QAP8 | VSSKPIPSLLRDFSAPVKV |
| UniRef90-R7Q744 | $V \mathrm{PKGTVPSLLREFSAPVK}$ |
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| UniRef90-N0BD61 | VTSRPIPSLLRNFSAPVNV |
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| UniRef90-D7FQZ3 | $V A S E P I P S L L R D L S A P V K L R Y$ |
| UniRef90-K21917 | HDARPVVSMLRGFSA |
| UniRef90-A5V9Z3 | AERPVLSINRGFSAPVI |
| UniRef90-N9H2G1 | $V \mathrm{~T}$ A KPVVSLLRNFSAPVNLDF |
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| UniRef90-Q6FAT2 | VTQKPVVSLLRNFSAPVNLDF |
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| UniRef90 F3WYZ6 | I TERPVLSINRGFSAPVVI |
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| UniRef90-W8S9B9 | VPQRVI PSLLRGFSAPVVLD |
| UniRef90-I8UD67 | ATAPLVVWLED |
| UniRef90-A0A023PZL1 | VESEPTPVLLEDFSAPCLLEY |
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|  | D A E P I S L R GFS A PVMLD |

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## B5DDD2 <br> D2

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SGTPTVTYESSYDAKKFHLTLTQSSRSND

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## A

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## \section*{A} <br> S

## A

A $G$ A TPEVTGSQQFDSGRLTISLSQRTRHVEGCDAPKALPIP
 A G S GIPIVKVTMN




A GTPHVAATLSHQGDSAVLKLSQTKGAGTEEPAPSEMVIPP A GTPELS IDDRQWNS GQLTVVDLHQATPPTPGQADKQPLVLPB


 S GTPEVVEVVDEYDSKDYRATFTQKN QQDPFVMP


 A GTP KLLVRDEYLEGQY LLDUDQMVPESA K G


 A GTP HVVKVVADYDA QA WLL Q F S Q S L A QAK S EVD K TPP L L I P



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| UniRef90-15B4W6 |  |
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| UniRef90_Q4N8R7 | VTEDCVLSLNRGFSA |
| UniRef90-Q28R73 | APDHVVPSLLRGFSA |
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| UniRef90-UPI000477E | GSDKPLLSVNRQFSA |
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| UniRef90_UPIO00374E05D | VDARPVPSLFRGFSA |
| UniRef90_UPI0003C1399D | V PRRPVLSALRGFSA |
| UniRef90-B8LCH3 | L E G DVLPSLLRGFSA |
| UniRef90-L8D6Q0 | I K A R PVVVALEDFSA |
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| UniRef90-M1L2E4 |  |
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| UniRef90-UPIO000E10BA | VDEASIVTLFNGFSA |
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| UniRef90-X6P1R4 | V DEPPLLSINRGFSA |
| UniRef90-U1KCS9 | L ESEPVVVLLEGFSA |
| UniRef90-UPI000422A46D | LRARPLPAFNQGFAA |
| UniRef90-K6Y9G2 | FTEKPTVALLADFSAPVKLEF |
| UniRef90-U6GAL6 | $\square$ NEDCQLSLLRG |
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| UniRef90-C1NA16 | FDAEPTPSILRGFSA |
| UniRef90-Q05XU8 | LPQPPALSLFRQFS |
| UniRef90-UPI0003B5DDD2 | GPDALPS IFRQFSA |
| UniRef90-T0R6S8 | VAEKVVPSFNRDFSA |
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| UniRef90-A0A059FKH6 | VTEPPLVSVNRDFTA |
| UniRef90-UPI0003F8 | KPVPVLLGGFSAPVKI D Y |
| UniRef90-E7RXP7 | VESAPMLSLLRDFSAPVVVDH |
| UniRef90-A2C8D9 | LPKPPALSI FRRFSA |
| UniRef90-C4GFF5 | Pet T T P SLLRGFSAPVHLNF |
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| UniRef90-A3WER1 | AGADPVVSINR |
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| UniRef90_UPI0003704C26 | I K S K Pi P SWFRGFSA |
| UniRef90_UPI000363B6D1 | LNTEPVV |
| UniRef90-A3WPB9 | SNEEPIVSVFDDFSAPVKVQ |
| UniRef90_UPI00036323DC | IKPGSILSVNRGFAAPVTVNF |
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| UniRef90-M1L920 | I S DLDPILSLLRNFSA |
| UniRef90-D3HSS9 | I NAHPTPSLLRSFSA |
| UniRef90-M1LBI2 | Torplostlonfsa |
| UniRef90-B6AC41 | I E DEPI ASILREFSA |
| UniRef90-F6DAN8 | APADLVWSLLRDFSA |
| UniRef90-C8PWK0 | LDFDPVVSLLRDFSA |
| UniRef90-M1LYZ8 | I S D L PVLSSLLRNFSAPVKVKY |
| UniRef90_G2H0B4 | $V$ NCRPVPSLLREFSAPVKLD Y |
| UniRef90-UPI0003B3E | FAEAPVLSINRGFSAPI L D D |
| UniRef90-Q3AIC9 | QP T P P AL SVLRRFSAPVHVR |
| UniRef90_UPI000262CD26 | V S A R PVVSILRGLSAPVK |
| UniRef90-Q30SY2 | AK S K P I L S I NRD |
| UniRef90-UPI0003794555 | IES R P T P SLLRSFSAPV HLK |
| UniRef90-UPIO0037859B9 | 1 NFEPVISLLRDFSAPVNLQ |
| UniRef90_UPI000287FE64 | IK SKPTPSWFRGFSAPIKFN |
| UniRef90-G4QHL0 | S E D FVPVLLS DFSAPV1LD Y |
| UniRef90-A5WDX9 | LA A P PVLSLLRDFSAPVQMRF |
| UniRef90 Q3AYV5 | QPNSPAPSFLRRFSAPLIVQ |
| UniRef90-E4U2J9 | 1 S S APRLSLNRGFSAPVIIE |
| UniRef90-FOXX84 | VDEGAVLSLNRDFSAP |
| UniRef90-UPI00026C77C0 | VHSHPTPSLFRSFSA |
| UniRef90-UPI00037D0A26 | 1 VAKPlPSLLRGFSAPVHLEY |
| UniRef90-DOKZJ7 | HADLLVPSL |
| UniRef90 ${ }^{\text {A0A037XPG7 }}$ |  |
| UniRef90-M0UCY1 |  |
| UniRef90-T1C669 | VQ D P P I S G L D F S A P VIWK |
| UniRef90-F3G |  |
| UniRef90-UPI0003761DCC | S GK\\|VPSLLRNFSAPVIL |
| UniRef90-W0DQ33 | APADLVWSLLRDFSAPVILDY |
| UniRef90-Q31FJ6 | A PYLSLL R |
| niRef90_D5BN6 | $V \mathrm{~L}$ T P S L L R F S A PVVL |


|  | UniRef90_F5Z7U3 |
| :---: | :---: |
|  | UniRef90-D6Z6L6 |
|  | UniRef90-R7UUB2 |
|  | UniRef90_UPI00046629FE |
|  | UniRef90-G5ZVN1 |
|  | UniRef90-G5LLZ4 |
|  | UniRef90-H5T9F8 |
|  | UniRef90-V4ZCP8 |
|  | UniRef90-A5EWZ7 |
|  | UniRef90-K1PW46 |
|  | UniRef90-U7DYB4 |
|  | UniRef90-C0B1D8 |
|  | UniRef90-LOWKH2 |
|  | UniRef90-F2GCW2 |
|  | UniRef90 ${ }^{-} 11$ AW92 |
|  | UniRef90-K0EAD2 |
|  | UniRef90-A0A023B597 |
|  | UniRef90-19WWR2 |
|  | UniRef90-K7T2T7 |
|  | UniRef90-K6YUL0 |
|  | UniRef90-M7YFU2 |
|  | UniRef90-G8UY03 |
|  | UniRef90-G9ZDY4 |
|  | UniRef90-K2LB43 |
|  | UniRef90-E8AX04 |
|  | UniRef90-G9EL27 |
|  | UniRef90-L8UHS0 |
|  | UniRef90_UPI0003B47D0 |
|  | UniRef90-F0E5B4 |
|  | UniRef90-L8Y1X3 |
|  | UniRef90-T1AYS1 |
|  | UniRef90-UPI0004774367 |
|  | UniRef90-U6MUI9 |
|  | UniRef90-UPI0003B35C30 |
|  | UniRef90-E1QKY3 |
|  | UniRef90-B9P274 |
|  | UniRef90_W9TNX2 |
|  | UniRef90-UPI00041A9F2D |
|  | UniRef90-Q7V180 |
|  | UniRef90_A0LG85 |
|  | UniRef90_UPI000366AB92 |
|  | UniRef90-F0G4C6 |
|  | UniRef90-U6KQ11 |
|  | UniRef90-U6M0H5 |
|  | UniRef90-Q31AM4 |
|  | UniRef90-A3CXL6 |
|  | UniRef90-J0S8Q3 |
|  | UniRef90-14C3J0 |
|  | UniRef90-A0A023AZ68 |
|  | UniRef90-K5BZL7 |
|  | UniRef90-Q46AV5 |
|  | UniRef90-A2C3K1 |
|  | UniRef90-W9DP87 |
|  | UniRef90-U6LZB3 |
|  | UniRef90-UPI000474C4BF |
|  | UniRef90-Q8Q058 |
|  | UniRef90 K4MHF1 |
|  | UniRef90-UPI000473EF4C |
|  | UniRef90-R9A7Q3 |
|  | UniRef90 X6LK27 |
|  | UniRef90-U6KMX0 |
|  | UniRef90-K7K9L9 |
|  | UniRef90-R8ZQN6 |
|  | UniRef90-U6LDM1 |
|  | UniRef90 ${ }^{\text {K }}$ WWKU0 |
|  | UniRef90-LOKW79 |
|  | UniRef90-B0S9W2 |
|  | UniRef90-TOPZY3 |
|  | UniRef90-M4BYP5 |
|  | UniRef90-A0A024UV> |






A GTPAVTLRQHYDAETLQLEVSQQHVATAGQPEKQAL GAPRVRVRTNYDPRTFSITLAQHNNPTTSGAPSGPLLIP SGTPNLDI KREDNDSGITLNI SQLIN GYPTVRAATSFDAGRYVIKLEQRRPQGVG NKMPRHP GTPKVK LKR DWDQRDEKLTISQSNPDKKNPYNDDPLIIP
A




IKWQA GGDDG $\quad$ P $\quad$ GEAQLTVLDAAQTHVSDP
 IKMSFLNEKGNPIKYK DDNSNFHEHVYLLTKSKDSUTVNT FAlGGI GRDGRDLPLRL
VKTGLI GKVSKKDLLD
I A I GL I GKESKKDLL
INLAI FCDENKTIK
KTVVLKSKKQEFTFRN
FRFALVDADGRDI RETTARIADEAGETVLDG
FVVALVDRKGRD
IVEVALVGGKDGQDD
RAETTHLVTGRHEELLDED
NSLAVVFRKGTILK
FRAALVDEHGNDLVELLE
ILYSCYSREKGANPLAENN


 $\begin{array}{ll}1 \\ I & R L G L V S A Q G E P H S F R I D G A A A A E H T V L F S A P E Q T V K L K P ~\end{array}$
 LQYCLFSQRGEEDKSDTFLLKKSKQALELTLENQT



 LKIA LYDENGVAQTD YDSEGVVDNVLNITQKTKRL


VCAALVDKEGKDLA

INLAI FCDKNKTIKKTVVLKTKK QEFI N N NSIAVFDREGKLL TEEKRПMSGARDQ\|RIAA
 NS YAAFDHK GNELLFVKRIQYGHVDRVRVLQTKE

## VRFGLIGKNSKKDILD




lupas_21
lupas_14
lupas_28
jnet
conf
sol25
sol5
sol0
jhmm
jpssm


| UniRef90_F5Z7U3 | $\text { DTKKLTTPVLLGNFSAP\|V\|K\|V\|H }{ }^{90}$ |
| :---: | :---: |
| UniRef90-D6Z6L6 | L HARPVPSLLRGFSAPVRLTY |
| UniRef90-R7UUB2 | LTRPCVPALLRGFSAPVQ |
| UniRef90-UPI00046629FE | IE Q D GYLSLFFRGFSAPVLVD |
| UniRef90-G5ZVN1 | AT QPVVPSALRGFSAPVRLN |
| UniRef90_G5LLZ4 |  |
| UniRef90-H5T9F8 | P N E Q T P S LLQ F S A P VLI |
| UniRef90-V4ZCP8 | MEEEPLVAPLQSFSAPVK |
| UniRef90_A5EWZ7 | A DADLI PVLMQGFSAPI Y Y Y |
| UniRef90-K1PW46 | DKPLLSINRGFSAPI EL |
| UniRef90-U7DYB4 | ERPVPSLLRGFSAPIRL |
| UniRef90-C0B1D8 | $V \mathrm{PE}$ Q PI PSLLREFSA |
| UniRef90-LOWKH2 | IQAHPVVSVLRNFSAPVKI D F |
| UniRef90-F2GCW2 | ENASLTPVVLGNFSAPAKVE |
| UniRef90-A1AW92 | M DVEPTPSWL R GFSAP |
| UniRef90-K0EAD2 | KTTNLTPVVLGNFSAPAKVE |
| UniRef90-A0A023B597 | TTKRPVVSLLRGFSAP |
| UniRef90-19WWR2 | VTEEPVPSLLRDFSAP |
| UniRef90-K7T2T7 | IS SAPKLSL NRHFSAPV |
| UniRef90-K6YUL0 | S QDFVPVLLSDFSSPVMLD |
| UniRef90-M7YFU2 | VTEEPVPSVLRDFSAPVRLD |
| UniRef90-G8UY03 | Q T RPI PSLLRSFSAPVHMKY |
| UniRef90-G9ZDY4 | AEADLI PVLMENFSAPVYYQH |
| UniRef90-K2LB43 | VAEQPIVAWLESFSAPVKL |
| UniRef90-E8AX04 | VYFQPVPALLCEFSAPVKL |
| UniRef90-G9EL27 | V P E C P M P L L R GFSAPV |
| UniRef90_L8UHS0 |  |
| UniRef90_UPI0003B47D0A | NAADALDSANRNFSAPVR |
| UniRef90-F0E5B4 | $\square \mathrm{QAKPLPSLLRGFSAPVKLSF}$ |
| UniRef90-L8Y1 33 | QTA A V S L L R D S A PVLLHY |
| UniRef90_T1AYS1 | VPSPPVPSLLRGFSA |
| UniRef90-UPI0004774367 | VQS P V VVW ENF |
| UniRef90-U6MUI9 | VYEDCI PSLFRNFSSPVLFS |
| UniRef90-UPI0003B35C30 | NNTNLTPSLLRGFSAPVKLK |
| UniRef90-E1QKY3 | LT Q T P A L S I N G Y |
| UniRef90-B9P274 | VRSHPLVS YFREFSSPVEWE |
| UniRef90_W9TNX2 |  |
| UniRef90-UPIO0041A9F2D | LA GK EYLS L L D F S |
| UniRef90_Q7V180 | I NSKPIISYFRNFSAP【KWE |
| UniRef90_A0LG85 | IEKAPAASMNRDYS |
| UniRef90_UPI000366AB92 | NEKNLTPSLLKEFSAPVILE |
| UniRef90_FOG4C6 |  |
| UniRef90-U6KQ11 |  |
| UniRef90-U6M0H5 |  |
| UniRef90-Q31AM4 | VRS QPLVT YFREFSSPV |
| UniRef90_A3CXL6 | V D R P A F S L R G CS |
| UniRef90-J0S8Q3 | $V$ D A P A V $V$ A |
| UniRef90-14C3J0 | LP EEPA AS L N RSYS |
| UniRef90_A0A023AZ68 | SADKPALSVNREFSA |
| UniRef90_K5BZL7 | LDEKP |
| UniRef90-Q46AV5 | $V$ D MPAFLSLNRGY |
| UniRef90_A2C3K1 | EQQAPVLSLFRCFSSPVVWE |
| UniRef90_W9DP87 | VDRPAFLSLNRN |
| UniRef90-U6LZB3 | 1 REGCEASILRDFSAPVRV |
| UniRef90_UPI000474C4BF | L NTKPIVTYFREFSAPVIWE |
| UniRef90-Q8Q058 | V GMPS FLSLN |
| UniRef90-K4MHF1 | V DKPAFLSLNRGYS |
| UniRef90_UPI000473EF4C | I R P QPFVTYFRQFSSPVEWE |
| UniRef90-R9A7Q3 | L D K P V S LFRSLS S PV |
| UniRef90-X6LK27 | $V$ DESPLLSIN |
| UniRef90_U6KMX0 | V Y E D CVPSLFRNFSSPVH |
| UniRef90_K7K9L9 | F ERHVPS |
| UniRef90-R8ZQN6 | G GKP L S WFRS |
| UniRef90-U6LDM1 |  |
| UniRef90-K3WKU0 | VA E P Y L S F A R WS |
| UniRef90-LOKW79 | VERPAFLS L N R G S |
| UniRef90-B0S9W2 | 1 D NKP IVVFFRGLS S P L L L |
| UniRef90-TOPZY3 | $V$ A TKPYLSFAREWS |
| UniRef90-M4BYP5 | $V$ T DEPFLSFARGWS |
| UniRef90_A0A024UVX1 | 1 S VT P Y L S F GRQWS |

[^1]



[^0]:    - 

[^1]:    lupas 21
    lupas_14
    lupas_28
    jnet
    conf
    sol25
    sol5
    sol0
    jhmm
    jpssm

