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$\square$ A ACPFI LDREI CGTDGVTY ACPFIRRE
A A C
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QCGDKEQFA NCSRYQLPAC $\square \mathrm{DCRPYSN}$

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S D Y YK CNDAYHPVCASNAITYGNKCKMCSDLYRQR CNDAYHPVCASNADTYGNKCKMCSDLYRQR CNDAYHPVCASNA CNDA Y A P V CAASNA CNDAYHPVCASNAITYGNKCKMCSDLYRQR CNDAYHPVCASNAITYGNKCKMCSDLYRQR DECSEQKNPDCTEAY DPFCGSNGNTYGNKCKMCSDDYGYQR DCTKYGNYACPRDYHPVCGTDGETYGNECVLCDANSEDN CSSTYロPVCGNNGUYASKCHLDQNACLDK

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HDI KI DRDEPC \begin{tabular}{ll|llllll}
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G \& C \\
K \& $H$ \& $P$ \& $G$ \& $K$ \& $C$

 N T I T I VHE GPC NTITI AHEGAC 

T \& $N$ \& S \& S \& K \& Q D \& G \& $E$ \& $C$ \\
$R$ \& $D$ \& $K$ \& $V$ \& 1 \& $Q$ \& $E$ \& $E$ \& $P$ \& $C$
\end{tabular} TN L L Q S K GEC

$\square N D G M K H K G K C$ GK I Y L K H H G K C EKVQFLHEGRC S NV SK K H D GK C | $S$ | $N$ | S K K H D G K C |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| S | $N$ | $V$ | $S$ | $K$ | $K$ | $H$ | $D$ |
| $G$ | $K$ | $C$ |  |  |  |  |  | GKI K LK H N G K C K D I K $1 \begin{array}{ll}1 & 1 \\ \text { Q } & \text { GPC }\end{array}$ ASVDKRHDGGC $N N V K$ VAKKGPC A NVEKEYDGEC A NV EKEYDGEC GTI T L N H F GKC GK L Q F L H D GHC

G
T NVVSKD H D GEC TNVSKDHDGEC GKLS L N HE GKC GKFTFSHYGRC ANVSKDHDGEC L H I R D R Y F E E C GS L SLQHRGEC GR L K FA H F GRC P TLTLSYN D K I K F A H M GEC
 K D I Q $\quad$ A Y K S S C T S V WKL H D G P C TSVWKLHDGPC

T S VA K K H D GRC TSVAKKHDGRC $T$ S VA K K H D G R C T S V A K K H D GRC GTLTLSHFGKC REVLVAHRGPC DKLKKVHF GEC GKVGLKHDGKC GK L G F K HE GKC T S I TKK K H D G K C TS I TKKKHDGKC ASVGKQYAGEC V P V L I R K Y G P C GKLGFKHEGKC HDI K

T Y V K $\square$ K H K G A C GS FTMSHYGRC GS LTLKHHGEC ND D K I M H N GPC GTL T L N H F GEC | $N$ | $P$ | $K$ | $D K$ | $D$ | $S$ | $P$ | $C$ |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | $P$ | $L$ | $Q$ | $K$ | $S$ | $G$ | $C$ | $C$ | T P V L I QK S GPC GALKLKHNGPC S NVRLAH Q G Q C HEI KI DRREPC QKVQVASNGEC

TNVSKEHDGRC T NVVKEHDGRC T NVVKEHDGRC K E I

 $\begin{array}{llllllllll}K & E & Q & V & H & H & G & C \\ K & E & Q & V & I & H & T & G & I & C \\ K & E & Q & V & & H & T & G & C\end{array}$ \begin{tabular}{l|llllll|l}
$K$ \& $E$ \& $I$ \& $Q$ \& $V$ \& $I$ \& $H$ \& $T$ \\
\hline

 

$K$ \& $E$ \& Q \& V \& I \& H \& T \& G \& I \& C \\
K \& C \& \\
\hline

 

$K$ \& $E$ \& $Q$ \& $V$ \& $I$ \& $H$ \& $T$ \& $G$ \& $I$ \\
$G$ \& $C$ \\
$G$ \& $L$ \& $L$ \& $R$ \& $H$ \& $R$ \& $G$ \& $E$ \& $C$

 T N I T S I Q MVEKEAC T S I Q MVVEKEAC TS I Q MVVEKEAC K D I K I 

$H$ \& $R$ \& $l$ \& $T$ \& $l$ \& $M$ \& $H$ \& $S$ \& $E$ \& $E$ \\
$S$ \& $C$ \\
$S$ \& $Q$ \& $G$ \& $G$ \& $K$ \& $S$ \& $E$ \& $G$ \& $E$ \& $C$ \\
\& $T$ \& $L$ \& $G$ \& $H$ \& $F$ \& $G$ \& $E$ \& $C$

 

$V$ \& $T$ \& $L$ \& $G$ \& $H$ \& $F$ \& $G$ \\
$I$ \& $Q$ \& $C$ \\
$I$ \& $V$ \& $K$ \& $D$ \& $G$ \& $E$ \& $C$
\end{tabular} N K L K FA H F G K C

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 ${ }^{\text {E C }} \mathrm{C}$
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N E CM F CA LT L L N K K Y A S E C E L H H V A A C T H Q


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CDGAYRPVCAHNGRTY
 CVASAQPVC CPKTAQAACPMNFAPVC
CSKYSKGHC

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Y R P
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Y A NGR TQYSE $\quad$ CTMEYLPHCGSD GVVY









 T L C A Q S R K $\square \mathrm{K}$ $T \quad \frac{L}{F}$ | $L$ | $F$ | $C$ | $N$ | $A$ | $V$ | $L$ | $N$ | $S$ |
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| $V$ | $F$ | $C$ | $S$ | $E$ | $K$ | $L$ |  |  |

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 TS I DI KYGGPC GKI NLKHPGKC RRI GKAHNGAC SDI AVS S T GP C AKENAKQEGE AKENAKQEGE GKLGFKYEGNC

 NS L T L K K H DGK C


 GALALAKHGQC VNVTVAAHEAC KLI QVAA RGEC Q RI TV $V$ HS H KKVTVVHSKDC EKFDYRHHGPC TRIVSVHSKDC GAI TQVHDGAC KNI R VHHQGRC KNI RVHHQGRC | $K N I$ | $R V H H Q G R C$ |
| :--- | :--- |
| $M N$ | $R K L L H D G E C$ |

 STVTVAHPGLC
F S VR\|LQDNNC RKLHLQRYGEC KKIT R SKGPC VEEKEKNSG VEEKEKNS G


 KHI EETRPGPC \begin{tabular}{ll|l|lllllll}
\hline$L$ \& $K$ \& $V$ \& $D$ \& $K$ \& $K$ \& $H$ \& $G$ \& $L$ \\
$L$ \& $K$ \& $V$ \& $D$ \& $K$ \& $H$ \& $C$ \\
\hline

 

$L$ \& $K$ \& $V$ \& $D$ \& $K$ \& $H$ \& $S$ \& $G$ \& $C$ \\
$L$ \& $K$ \& $V$ \& $D$ \& I \& K \& $H$ \& $S$ \& $G$ \& $L$ \\
$C$
\end{tabular} GRI K FYHDGRC




 GQURYYHTGRC DEERKRKEKE A DVVTQAFGHC
P DLVI AS DGPC
$\square \mathrm{P} V \mathrm{LI} \mathrm{KKHGPC}$ TSVAKKHDGRC TSVAKKHDGRC


1 N LQVAAQGDC i NLQVAAQGDC 1 NLQVAA Q GDC KKI EVVKEGSC
 K K I EVVVKEGSC
 TTLFVKHPGEC GSLCFEHDGEC VNVTVAHEGAC
 SDILI AKDGDC REI GVSHKGPC S SIVK K N GAC S L S V V K A N GAC $S \mathrm{~L} \mathrm{~S} \| \mathrm{V}$ KANGAC A
K D T R VK H Q G A C


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 NEERKKKEGE
PELTVVSQGP PELTIVSQGPC GQLGYNHDGKC EYVAFAYYGEC QDI QITKDGKC GVAVAYKGEC NEERKRKEGE RHLKKVHSGPC RHLKKVHSGPC



 TKIEKAHDGEC SHV Tl K HVGEC KRI A A A HNKDC GSLQ $L K Y$ A GS C Y K A G E C
 VKI QiSHDGQC

| $K$ | $K$ | $A$ | $A$ | $A$ | $R$ | $A$ | $G$ | $P$ | $C$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
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10 GF 20

俭 QQVCAGLYDPVCGNDGVTYGSPCELEATACVLR QF QCHTNY DPVCGSNGDTYQNECFLRRAACKHQ
ECQVYREHA


 $V$ CGSD GQDYRNECELLNMYACDRQ VCGSDGQDYRNECELLNMYACDRQ
DCSEFGELFCTRENDPVRGPDGKTHGNKCAMCKAD
ACTREYRPVCGTDGKTYPNPCILEMKACKNM NCDDFK QF ITCTLGGTAVCGTNGKTYSNRCALCAMNAETR P V C D A T LAA P V CAT DHNTYGSECKMRMHACQE G FCPRDFRPVCGSDGSTYGN ECVLKDMSCRTG
NCDVYKNFPCTREKD PVVCGTDGRTYSNECI F CSAMMM
DCDEKNKTK
$\begin{array}{lllllll}\text { D C D E K N K T K } \\ \text { D C } & \text { D E K N K T }\end{array}$DPEDLCPTRCTREY DP
VCGS GNVY S NRCDIRNAVVRSQ
V
 CVA S A Q P V C G S D GHT Y A S E C E L H V H A C TH Q

 C D GA Y R P V C GK N GRTY A N D C A R R R A E C L T T CDGAYRPV CGKNGRTYANDCARRRAECLTT DCSKYPQTLCKTTNHEVMCTTDGETYSNECMLCNRDLNTK CVVQTY E P V C G S D GVVTHNNDCMMLRAVAAC Y D VCTDVFAPVCGSDSVTYISECHLRVASCSQK $V$ C T D V E H RCS GD K D P V C G T D GRT Y L N R CMM R V E ICR VG CPDNYKPVCGSDGVTYTNECQLGITSCNER | $V$ | $C$ | $G$ | $S$ | $D$ | $G$ | $K$ | $D$ | $Y$ | $V$ | $N$ | $E$ | $C$ | $E$ | $L$ | $H$ | $Q$ | $H$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $V$ | $A$ | $C$ | $K$ | $N$ | $K$ |  |  |  |  |  |  |  |  |  |  |  |  |
| $V$ | $G$ | $S$ | $D$ | $G$ | $K$ | $D$ | $Y$ | $V$ | $N$ | $E$ | $C$ | $E$ | $L$ | $H$ | $Q$ | $H$ | $A$ |
| $C$ | $K$ | $N$ | $K$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

V C G S D GK D Y V N E C ELLH QHACKN K
T T C P D H H K P

$V$ C G S D G Q D Y P S E C QL N Q H A C R L Q

 DCS Q Y P Q T K CTPSSPMVCGTD GVTHSSECTTLCDKILTKTR C GSEVDPV CGSDANTYPNQCHLNVAVCLK G
 PAPMCPEDNMS

$V$ C G S D GVV S Y GSEC DL R L A A CR K Q ECSEYRNRICTRENNPVRGADGKTYKNKCYRCRADLQKE ECSEYRNRICTRENNPVRGADGKTYKNKCYRCRAILQKE CERDWTPV CGTD GVTYGNDCLLEFAHCEN
$\square C T M Q Y$ D P V C G S D G I T Y G N A C M L L G A S CR S D CGO
NCS
CGLEHSPVCGSDGKTYSNECMLRQEACQSR
 PVCGSDNKTYPTRCHLIRAQCSSG D S $\square$ C TMEFEPQCGSNGVTYGNKCSLVVAQCNDG PKCSNEFAPVCGSDGISYGNRCKLQLESCRHR $K \square T V C T L Q W D P M C G V D G V T Y G N M C M L N A A$

CNETK
CPREYAPVCATDAETYENLDCVGVAKCM N $P L C P A E N N P V C G S D G V T Y N S L C V M K R T N C E F G$
K N
IK C Q S A Y K P V C G S D G K T Y D N G CVV F N Y A K R L S K QCSYYQKTFCS $\square R \mathrm{R}$ V PLCASNNVTYSNSCVYCFAN■ALK $N \square P C N R I N A P V C G S D G N I Y S N E C L L R T A S C K Q K$
 CPS GGPVVCGTD GQTYANECEVRVYACLQR

 Q ASDGNTYANP CVFAVEACVRR | $V$ | $C$ | $P$ | $R$ | $E$ | $K$ | $Q$ | $P$ | $V$ | $C$ | $G$ | $S$ | $N$ | $D$ | $V$ | $T$ | $Y$ | $E$ | $N$ | $A$ | $C$ | $E$ | $L$ | $R$ | $V$ | $A$ | $A$ | $C$ | $Q$ | $Q$ | $K$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $V$ | $C$ | $P$ | $R$ | $E$ | $K$ | $Q$ | $P$ | $V$ | $C$ | $G$ | $S$ | $N$ | $D$ | $V$ | $T$ | $Y$ | $E$ | $N$ | $A$ | $C$ | $E$ | $L$ | $R$ | $V$ | $A$ | $A$ | $C$ | $Q$ | $Q$ | $K$ |



## D C G G Y

 CPS G GVVRVCGSDGQTYANECELTAYACLQQQ CNEQY DPV CGDNGDTYENECKLLRYENCKFK

 A PVCGS D DVTY S S K C NL ELK S CQTQ NCTRYA QHMCTKELDPVCGTDGRTYNNRCIFCSEK

ACTFDFNPI CGNDGVTYGNMCGLTS QACLQR
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Y G L L $F$ \| $\mid$ A Y D GEC

 GSFRFRHYGKC VThRKDHAGQC

 K NLYKKHNGPC KNLYKKHNGPC

DKLQWAHDGPC A QVGlKSEGEC
 RTA $\backslash K V S E G P C$

GA $\quad \mathrm{WLK} N \mathrm{Y}$ GLC K Di A V Q H F GQQC KDi AVQHFGQC K D: A V Q HF GQC | K | L |
| :--- | :--- |
| P | $\mathrm{K} K \mathrm{KKGEC}$ | 1 S L HVASAGHC I SLHVASAGHC ALI PI QHPGPC ALI PI QHPGPC

 P SI TLA Y E G A C KRITMETQGPC K R T M M T Q G P C I QLSHLGPC
KNITMVNE
KNI RVQYQGHC
KNI RVQYQGHC
KNI RVQYQGHC
RKISID WDDTC


 TQi E EARAGPC | $T Q$ | $E$ |
| :---: | :---: |
| $T$ | $E A A R A G P C$ |
| $S E$ | $G D R N D G V C$ |




LNVVMAYEGPC
LNVVMAYEGPC

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RHVQVLYDGPC
DVKLDYRGEC SMI KVKHQGTC SVI NI LHQGPC R DL QL V A NVTC S GIELVSSGKC


KP P S IA HRG
KPISIAHRG
AE I TVVVSEGLC


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| UniRef90-H2KUW7 | R Q I WV V Y S G Q C |
| UniRef90-B8Y816 | K P I VKV Y D G K C |
| UniRef90-T1D5N9 | NKL R K L A D G P C |
| UniRef90-UPI00046C25FC |  |
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| UniRef90-T1VZC3 | TNI TKMHDGEC |
| UniRef90-F6T1W2 | VQVLI Q K Y G K C |
| UniRef90_S4PXB4 | P EVVCVA S E G E C |
| UniRef90_S4PXB4 | P EVCVASEGEC |
| UniRef90_UPI00021054B2 |  |
| UniRef90-T1L3L3 | $\square \mathrm{L}$ LR V V H S E C |
| UniRef90-A0A059E8Q2 | S 1 A S E G P C |
| UniRef90_A7SCV7 | K M ${ }^{\text {P }}$ T |
| UniRef90-A7SCV7 | K M I T |
| UniRef90_U6HGD7 | K HI WVID T K P C |
| UniRef90-G1N1H6 | T R I E Q I P M S Q C |
| UniRef90_Q2PQ60 | P GLKLA HVGKC |
| UniRef90_Q2PQ60 | P G L K L A HVGGKC |
| UniRef90_V4A188 | $\square \mathrm{D}$ L H A S H N G T C |
| UniRef90_H3G0S7 | RELAVYRRGS C |
| UniRef90-I3J1J4 | TR I K QVP L S Q C |
| UniRef90_T1JHP9 | K NI R Y DRKGAC |
| UniRef90_W5MW41 | K K V F V V H S K D C |
| UniRef90-A7YIH7 | K DI EV A Y Q G I C |
| UniRef90_A7YIH7 | K D I E V A Y Q G I C |
| UniRef90-H6TBL4 | $\square \mathrm{A}$ G M I H A GEC |
| UniRef90- W6MNX5 | PS ITVA HCGDC |
| UniRef90_UPI0003289064 | S HIK F F K Y G K C |
| UniRef90-Q4ACB2 | R T I S A L H S K H C |
| UniRef90_UPI000022266F | K D I F VK Y N SVC |
| UniRef90-F1KQV3 | T R N AVR H T G T C |



| UniRef90_D6MTG6 | P DLKVA HQ G ${ }^{50}$ C |
| :---: | :---: |
| UniRef90-D6MTG6 | P DLKVA HQGPC |
| UniRef90-T1JZW6 | T DIVI L H K G P C |
| UniRef90_UPI0002A4B2D8 | ERI EVVK CLGHC |
| UniRef90-W4GQIO | P NLTL HARGRC |
| UniRef90-I3D051 | 1 KHQGEC |
| UniRef90_UPI0004433A65 | VDVLIKK K S G K C |
| UniRef90_U3KIN6 |  |
| UniRef90_UPI00032900D9 |  |
| UniRef90_B8Y818 | K A I I A V S N G P C |
| UniRef90-J9JPU3 | VDI QI D H S L K C |
| UniRef90_A0A016VMN3 | KF I M I A F E GK C |
| UniRef90-A0A016VMN3 | K F I M I A F E G K C |
| UniRef90-M5DLD1 | GVVS E H E G E C |
| UniRef90-E9H692 | R H L R I L Y K G L C |
| UniRef90-T1GTD0 | TELAI K Y Y G A C |
| UniRef90_R4G7R1 | I G V S HVGGP C |
| UniRef90_UPI0003C12759 | GTL I LKRGRC |
| UniRef90-B8Y814 | K AITTVVRN |
| UniRef90_K1PEE6 | K HIVKVDSEG |
| UniRef90_E5S857 |  |
| UniRef90-T1KF42 | $\square$ T LT VA Y Y G E C |
| UniRef90-UPI00032B21C3 |  |
| UniRef90-H2Y4V9 | $\square \mathrm{F}$ LT G |
| UniRef90-A7S7E5 | S NI QVA GLGQ C |
| UniRef90_A7S7E5 | S NIQVA GL G Q C |
| UniRef90-F7ARJ0 | Q DI Y DARHKDC |
| UniRef90-C3YSN4 | NALVVA H Y |
| UniRef90-B8K254 | LR R T F H H A G |
| UniRef90_A0A026WMV3 | T S L T T R R L S R C |
| UniRef90-B6DDZ6 | GRLR I L H E G S C |
| UniRef90_F6XDR3 | L S YKHHGVC |
| UniRef90_UPI00038F0078 | Y T L T I R H G G V C |
| UniRef90-A0EKE4 | G DV SLA HEGPC |
| UniRef90_G7Z060 | P S I EL E T Y G R C |
| UniRef90_A7S7C7 | K R I R V R G F G H C |
| UniRef90_A7S7C7 | KRIRVVRGF G H C |
| UniRef90_UPI00042C42B6 | VRLE EPAPP G H C |
| UniRef90_W4XGF3 | K N I T V V S Y A C |
| UniRef90-W4XGF3 | K NITTVVS Y G A C |
| UniRef90_UPI00034FDBD7 | A EEKEKNSG |
| UniRef90-LOAUH3 | $K D L G \square L K V G$ |
| UniRef90-G5A319 | NKWTVLHEGTC |
| UniRef90_E9FSS4 | V H I S L K K K G Y C |
| UniRef90_Q26057 | L N L K I A Y K G A C |
| UniRef90-H3GN32 | P N L NVASRGLC |
| UniRef90-L5LBA1 | R A I A PRHQGPC |
| UniRef90-R4G5Q7 | $P \mathrm{G} V \mathrm{E}$ L KHEGGDC |
| UniRef90-R4G5Q7 | P G V E L K H E G I C |
| UniRef90-R4G5Q7 | P GVVELKHE GIC |
| UniRef90-O96790 | P DLVQVHEGPC |
| UniRef90_C3ZX54 | THLQA I P L E E C |
| UniRef90_UPI00034F35F2 | VQI E A A A GPC |
| UniRef90_UPI00034F35F2 | VQI E E A R A G P C |
| UniRef90-W5NA46 | H S L S $\quad$ A H R G R C |
| UniRef90-R7V4Y2 | R DI TV V Y E G K C |
| UniRef90_R7V4Y2 | $R D \\| T V V Y E G K C$ |
| UniRef90_Q0ASJ9 | $A T$ GEC |
| UniRef90_UPI00042AC44B | $F T \square R \square Q F N$ G K C |
| UniRef90-T1F1D8 | K N L V V I S E N C |
| UniRef90_UPI0003C8FE86 | L N IT K L H D G P C |
| UniRef90_K7F0K0 |  |
| UniRef90_F7G083 | $R \mathrm{~K} \square \mathrm{~L} \square \mathrm{~L}$ K K G F C |
| UniRef90-G3VS45 |  |
| UniRef90_UPI000361053E | $\mathrm{G} V \mathrm{E}$ V A S D G A C |
| UniRef90_UPI000361053E | GVEVASDGAC |
| UniRef90_UPI000361053E | GV EVAS DGAC |
| UniRef90_V9KEP5 | ERIEVVKHLLGKC |
| UniRef90_U6NT64 | TMMGLA Y R GEC |
| UniRef90-C3YQE0 | Q QLI Y A H D S C |
| UniRef90-R4G8Z7 | G L E LK H T G K C |
| UniRef90-G1SFU9 |  |
| UniRef90-H3DR86 | R LIS RVA E G P C |
| UniRef90-K1Q9X6 | R Sil H V V H Y G N C |
| UniRef90-T1F1D9 | VDI T L Q H Y G P C |
| UniRef90_C7T5D3 | $L \mathrm{NLLK} \mathrm{V}$ A Y K G E C |
| UniRef90-H9G6E2 |  |
| UniRef90_A7S7C6 | $R \mathrm{R} \\| \mathrm{I} L \mathrm{~L}$ G R G R |
| UniRef90_A7S7C6 | RRIILA GRGR |
| UniRef90_UPI00046B8AAA | E FTMKNAGP |
| UniRef90_R7UWX5 | $R \mathrm{D} 口 \mathrm{R} \mathrm{A}$ H E G P C |
| UniRef90-T0QPL8 | P ELTTLVSNTS C |
| UniRef90-T1HXE8 | LAHEGEC |
| UniRef90 ${ }^{-}$V8NR24 | G E |
| UniRef90-W4H0M0 | S H L S L H A R G C C |
| UniRef90_W4GSW3 | $P \mathrm{GLT}$ T H A S G R C |
| UniRef90_UPI000462AE8D | TNSSIKHKGPC |
| UniRef90_F0VGR8 | K 1 R L K H R G R C |
| UniRef90-M4A3W3 | K T L T M A HRGRC |
| UniRef90_UPI0002B42086 | M NVSVVN $\square$ GPC |
| UniRef90-D8VNJ7 | $\square \mathrm{L}$ L K I A K N G Q C |
| UniRef90-H2TJ98 |  |

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UniRet90 E9G782 UniRef90- V9LJK8 UniRef90_UPIO002B466CB UniRef90-UPI000359FD57 UniRef90-E7F4V4 UniRef90 GONQY6 UniRef90-W2QLY8 UniRef90_O86MK1 UniRef90-D216DO UniRef90-A9GU35 UniRef90-A0A023F751 UniRef90-UPI0001D57C69 UniRef90-K1QDE6 UniRef90-D8U3P2 UniRef90-K7GH62 UniRef90- Bos6Y8 UniRef90-UP1000359BD2D UniReffo-K1QAGO UniRet90-F4W895 Unirer90_W6MH78
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UniRei90_UPIO004571FE3 UniRef90_UPIOOO258EE00 UniRef90_B4MVZ1 UniRef90-B4JR34 UniRef90-G5A906 UniRef90-F7DJZ0 UniRef90-H2XZS6 UniRef90-W7TU92 UniRef90-K2G851 UniRef90'UPI000367F734 UniRef90_UP10002B4214C UniRef90-G5A8Z8 UniRef90-B3MVF1 UniRef90 E7EDQ9 UniRef90 G0ZJ82 UniRef90-H3G689 UniRef90 ${ }^{-}$A1KXI9
UniRef90-V9FGZ6
UniRef90-X1Y8W5
UniRe990 UP10001DEC8FA UniRef90-W2ROJO
UniRef90-B4KM40 UniRef90_K105G0 UniRef90 G3PD14 UniRef90-T1G614
UniRef90-DON791
UniRef90_O29LL6
UniRef90-D6WGB1
UniRef90 ${ }^{-}$W4YET9
UniRef90-UPI0003DF7FA9 UniRef90-K1PSU2 UniRef90_UPI00046A78D6 UniRef90-G5DYH3 UniRef90_UPI0004435F7E UniRef90-A7TAX7 UniRef90-T1JGA3 UniRe990-13J2D7 UniRef90-E4Z6K6
UniRef90 R4G460 UniRef90 R4G460 UniRef90 G6CR90 UniRef90_UPI0003FOF489 UniRef90_A0A023EF10 UniRef90_K7GDG9 UniRef90-UPIOOO26533A2 UniRef90_W5KED2

TKCENVEKPVCCSKGDVTYKNKCEAHKKACKLN
EDMGCFALYDPVCGSDGHTYSNSCTLDVANCGKT
DFKCSGD Y A P V C G S NGESYENHCCLLRKAACK LQ ACTLTSDPVCGSDGQSYRSPCEMRAMGCTL
KQGECDDNEGPVCGTDGQTYPTRCHLLRAQCGG VDCSRYKKLPCHEDYAPICGSDGKTYPNDCFFCFEV TDCTSKNTKMMCTKEYDPVCGCDGKTYGNECAANAA DD $\square$ SKN $\square K P M C T K E F D P V C A S N G T T Y S N K C M F E C N N E K K$ DSICGSDHITYSGECHLCYR\|LYEK CPSDVQPVCGTDDATYRNLCQLKKASCEER CPDDYQPVCGSNGKTYDNACVFCA
DCSSLSPPGCPRDFDPVCGTDNVTYPNECELCAA
NFKCNNDYVPVCGSNNENYENECFLRRDACKQQ ERKCSKDFAPVCGTDMVTYSNLCMLERASCDHN

D C S Y DCSREYAPVCASNGKSYGNKCEFLCHVKEEQ
DCSY

SCHCQFACPP VVPVCGKDGVTYDNECHEMMVACEKQ
PTNVCSLYYNPICGNNNKTYYTQCHMIQDSCQNN QFERCTCHRDYDPVCGSDGQLYQNQCQMEVFACRNG CPNMLDPVCGSDGKNYDNVCKLRQNACKTN TSEYNPVCGSDDVEYSNPGQLTCASAC G

DCSH $\square$ SRK CTTDY RPVCGSDAKVYTNMCEFTNARCNN
$H A V C G S D G K S Y K D E C T L L M A R C M G H$
PSCDCSKEDDPVCGSDGNNYDNGCYLECAQYTSK
PPVACTMEY EPVCGSDANTYANLCQLRAASRRSE
$R K C \prod C P L L Y Q P V C G V D G V T Y S N E C L L K C$
IVCPMNYEPVCGSDYKVYSNTCMAGAAGVESD PLCPRDYDPVCGSDGRNHGNSCEFQ DCDHYEKCMCYRDYDLVCGSDSVIYQNQCQMEVASCRNN TPEYNPVCGSDNGDYDNPGRMSCAAACGQ CSRVSSTYCPRILREVCGSDGVTYGNPCLLNCADKREG DCDYYRKFPCPTEYLPVCGSDFNTYGSGCHDCVANL
CSDVTSRHCTRDRRPVCGGNGDTYSNKCEYCRE RRDD ACPRDYAPVCGCDGRTHANTCVAGAAR
TVCTEEYNPVCWEDNNTYSNSCABA MAEKQ PDAVCPAVYEPVCGCNDDTYPNECAADAAGVQST CPKNYDPVCANNGFTYLUQCEFDNAACDIH PCPRNYDPVCGSNGKTYPNRCEFDCKRRRKG TSCSRSHKPVCGSDGRSYDTNCDLERAKCR D THCYALHDPVCGTDGKTYSNSCYLKVEACKNP PCPRNFDPVCASNGITYPNRCMYDCARRRSG ACPDVVLPVCGSDGVWYSSPCQRAAACKNP CTREWDPCGTDGITYNVCELKRQACLIG VCTDDFDPVTDEDGVTYSNKCFMQMAKCKQR CTCPNDFDCRRSNKQVCGSDDNTYQSRCHMRVASCTDG CPMTDEPVCGSDGRTYDNECFLKERACARN ACLDVYSPVIGDDGDSYPNECSMQMAKCKKS QKQCAVHRRLVCGSDGHVYPNHCELHRASCMTA EDUVCADEYNPVCWEDGKTYSNKC PVCGADGNTYKSACHLRLAACRAG CKSVTSHSCPDDFAEVCGSDGVTYDNHCFFETHRCD H KPT\CPQDFKPVCGCDGKTYPNACTASAA

CKTHKRPVCGSNGKTYGNHCELHRDACLTG HNCATYENQRCGEDNVTYTNECTHQKANCDQT DGCKEY CSP保DPCGSDGKAYSNECFGLETCRTR CRDY CPRVYEPVCGDDGVLYDNDCQLRLRNCLNG ACPHALHRVCGSDGETYSNPCTMNCAKHNGK Q $\square \mathrm{PDCS}$ SREAKPVCGTDGHTYNNPCMLNCAKDVLE KETDCPMVREPVCGSDGQTYDNRWLVCTDLLRKG KCKPCPTHSSPVCGSDGHTYSSKCKLEFHACTSA PTSDCPREYGPGCGTGNDTYPSLCHEQDAACKAK

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UniRef90-E9G782 UniRef90-V9LJK8 UniRet90-UPIO002B466CB UniRef90-UPIo00359FD57
UniRef90-E7F4V44 UniRef90_UPIO003B31027
UniRef90-GONQY6
UniRef90-W2QLY8
UniRef90_O86MK1
UniRef90_A9GU35
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UniRef90-K1QDE6
UniRef90-D8U3P2
UniRef90 K7GH2
UniRef90- Bos6Y8
UniRef90-UP1000359BD2D
UniRefefo-K1QAGO
UniRef90- W6MH78
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UniRef90-V9G192
UniRet90_D3TPG
UniRef90-I3N116
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UniRef90_B3S003
UniRef90-G3PCJO
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GRLLRQAEGEC


EHIEIAYEGNC GD K QVSKGAC TEVLVVSDGAC KDI RI QHKGPC KDI WKRGNC DLLAV
HQVSLKYSGSC
GVSVAS DGEC LNI IKLHDGPC
RRI NQAYPGKC
GVSVAYLGEC
TETLVVSEGSC
KELIKVKSEGSC KLIVVKSHGVC GSVQIKOTGPC QSVRLAYRGEC KSLYIVKFGAC TNITMVHDGPC QHI DMAHDGQC AHLEPVPPGLC MYNSVLYAGKC
ERLEPAPLGRC DT DKSYGGEC TRI K
TLI TLSRDAC TLI TLISRDAC KDVTKRHYGEC

PDLEVMYQGGC K G EVVVKQGPC

RQVVLQRGAC NKVRPEHDGPC CELDMV
PTRYRGNGEC

 GSLFKSRDGPC

KS WK LIHDGEC VSVRHAGPC N NVKVKYE WGDC VSTKKVHEGAC IVRVQLKHTGMC RSMD LRSGTC RTLTLAHRGRC HKLSVDYDGEC
PSITKNAKGKC
RSLNLIRSGSC
NSLAKETDGPC
EQNLVQDDGAC
RAPVAYRGRC
N NVYFSFGTC
K N
KNVSLKHRGNC
KRIRVKHKGAC
NKIHVQHRARC
DDVIVQFSGEC
GK
RNDGFLRSGQC
TDITV
NSVKIAYTWEC
TNLQFSRWGKC
RAIPVAYKGHC
PDLYMNYEAPC
SKVSVVEREGE
FDALIRKSGKC
QTAGI RHMGPC

GKVVMDSTWK C
P DLEVMYHGEC
TNVR
PGLVKVHDGPC
PGLVKVHDGPC
DL HVFHEGPC
 GKLTVAKKGEC DDTKVLLAGEC
QKLTMAHHGPC
$N \square V C T R E R \square P V C G S N G R E Y P N A C M L R A D S C E Q Q$ PCTR VY RP V CAMA GDVTFSNE CLVVNAENDTKQ
CDDKCKC $V C P R V Y L P V C G D D N L T Y T S E C R L A C D N Q N K N$


D Q Q GKPHCTK LLD QVCGTDNQTYAS SCHLEATKCKKG DCSA $\qquad$ Q RPPFCDREWNP V C G S D G I V Y A S A C L L E E A A CR K R V D A R R $\qquad$
HPCPWSDSPVGGSDGKTYQNECQQ EARYKQR CVMCRTAPCPMPMAPVCGNDNDTYPSACHLRRATCGEGG

PSPGCPSDDNDVCGSDGNTYPSLCHLKNRQACLDS $\begin{array}{rl}E C N D C P Q & S C T D D Y T P V C A A D G R T F P N Y C H L D H A D C H T E \\ P E P Q C T D S A Q A L C G S D G K T Y A Q D C R F Q E A A R A Q Q\end{array}$
$\begin{aligned} & P E P Q C T \\ & \square C S \text { T }\end{aligned}$
 K CHCPVVERPVCGVNGLTYGSACTARCA
$P \vee C G S D G K T Y K D E C G L L K A K C K G Q$
K P R F C T REFRPVCGCDGKTYGNDCERRAA
CTKASEPVCGSDGVSYRNTCELRRASRRAQ
CMP QREMVCTMQY LPVVGCDGQTYGNSCMAGNA
CDKHYEPI CGTDGDTYVNQCRFMKARC HD



CPKDFEK I CGTDSRTYANKCAMRKYRCKQR $V$ CGSD GATYRDECEDLRTARRCRGH
 D T P CWPED A P V $\operatorname{V}$ C G S N G DT Y CDKMEEDACNEEFRPVACASSRRTFRN YCELLLLVTCRTCD Y C G R D L R P V C G S N G R T Y H N A C L L E N A R C V D GCSSRE Y A P V C G S D GHE Y S N GCCLL RMEACCRK G
VDPEDRCPTL

DCDKFEDTGCTNEYFPVCAS DGNTYSNACAFCNEVR
$C P L G Y S P V Q G S D G H T Y S F Q C K L E Y Q A C V S G$
VDCD $\square \mathrm{Y}$ K K $\square \mathrm{P}$
VCK S R Y
$P \vee C$
 $\square C S$ R T Q K P V C G S D G R S Y E T G C E L Q R A R C K D


| $V$ | $C$ |
| :--- | :--- |
| $V$ | $G$ |
| $V$ | $G$ |


$P \vee C G S D G T T Y T N M C Q F R Q A N F \quad S G$

| $C D S S L$ |
| ---: | :--- |


$V C$ G S D GRS Y R SV C AL R L H S WA A R
YCTRESNPHCGTD GVTYGNKCAFCKAVL
CQDQYNPVCGKYKDTRRNECELQLVKCRTG VCKTRY PVCGSDGTTYANACQLRAANLKGK



| UniRef90_A0A034UYR7 | $N T\|L\| A \mid A \text { Y RGH }{ }^{50}$ |
| :---: | :---: |
| UniRef90_F6R501 | KNIMKAAYEGPC |
| UniRef90-R4FKP5 | PGLQLHHYGHC |
| UniRef90-C3Y3K4 | TPIKLEHKGPC |
| UniRef90-E2BSJ1 | VSILIKHTGPC |
| UniRef90-C3ZID4 | QTID KVGSPPC |
| UniRef90-B4PVL7 | R NWRIVVSEGLC |
| UniRef90-K7JPK1 | S NLKLSYCGKC |
| UniRef90-H9JWU8 | K TVKMVRTGPC |
| UniRef90-B8PXJ7 | S SLSVTQRGRC |
| UniRef90-UPI00032B05F7 | T PVVQLQKGAC |
| UniRef90-G1P9Q9 | HQLQLDYF GA C |
| UniRef90-L9KWK3 | V HLEPAPHRRC |
| UniRef90-UPI00046CB499 | T EVQ $\square$ WY WGPC |
| UniRef90-G4V4G1 | D GLRAMHRGPC |
| UniRef90-C3YRG0 | K Q L Y K V H G S C |
| UniRef90-UPI0003EA7FOD | R Si GVRHYGHC |
| UniRef90-B0WR45 | T T L A V A Y K G H C |
| UniRef90-W4YP59 | STLNI D HPGAC |
| UniRef90-B4NEI7 | Y P WKL E H L S T C |
| UniRef90_UPI0003D07288 | A NLSVAHEGPC |
| UniRef90-G6DBC5 | D RIDIVKKGKC |
| UniRef90-W5N7R5 | HRLHLDYAGPC |
| UniRef90-H3CFK4 | K K I AVK C P GTC |
| UniRef90_D2VGQ3 | DVSI H Y Y GVC |
| UniRef90-M4A6W4 | P DLDVQYQGKC |
| UniRef90-UPI0004694B96 | GVSLRSQGKC |
| UniRef90_Q4RNH2 | RLLQFVQRGAC |
| UniRef90_UPI0003A2C0F9 | GV NIA Y D GE C |
| UniRef90-A0A044RLZ9 | K TLLLA Y N GEC |
| UniRef90_F6RTK3 | P AI HI QK GP C |
| UniRef90-UPI00038EAAAC | P DLRVMYRGHC |
| UniRef90-B9TKA0 | Q GVSVAHEGEC |
| UniRef90-B7SFG1 | R S I GVRHYGNC |
| UniRef90-F6M1Q8 | P DLEVQYQGKC |
| UniRef90-A1YIY4 | R RLLHD Y L G P C |
| UniRef90-UPI0001CBAA2C | RDIEVAYHGEC |
| UniRef90_Q8BJD6 | P DLRVMYGGRC |
| UniRef90-UPI0003F06C79 | STAEI QHKGVC |
| UniRef90-G5ABN5 | L NVTQVSTGAC |
| UniRef90-V9KFK5 | PPVLFIQRGAC |
| UniRef90-B5DNV0 | HQWKILHD G T C |
| UniRef90-B5L664 | P T $\square$ T HQ HE G P C |
| UniRef90_UPI00022CE339 |  |
| UniRef90-C3ZID3 | V VID TVGK P P C |
| UniRef90-G4ZFW7 | P EVKRKHK G R C |
| UniRef90-L815P7 |  |
| UniRef90-F7HWL2 | K Q $\square$ S VK C E G R C |
| UniRef90_UPI00006053D5 |  |
| UniRef90-UPI00033462B5 | S R VT QV S K G T C |
| UniRef90-TOREY0 | P DIQ F I A P GK C |
| UniRef90-Q5CZL7 | P DLEVMYY GK C |
| UniRef90-C3YFT4 | K DI QEECTGKC |
| UniRef90-G3PFN4 | RALALAHRGRC |
| UniRef90-I4DN14 | T NVNLLRSSPC |
| UniRef90-E9QKW2 | PALAVVHRGRC |
| UniRef90-R4G7Z7 | PGLLVQYRGAC |
| UniRef90-UPI0003F14D87 | GNLSIRNYTEC |
| UniRef90-UPI0003F0F5F4 | HQLQMDYFGAC |
| UniRef90-K1Q873 | K NIT TVKQRGC |
| UniRef90-Q4SGA1 | TKIRADQRGHC |
| UniRef90-H2MT91 | P NLQLSARGPC |
| UniRef90-UPI0003592EA8 | F EFQNARNGDC |
| UniRef90-K7J4P9 | Y S $\mathrm{TH}^{\text {HMHHGP C }}$ |
| UniRef90-EOVQX0 | K A I P Va Y K G K C |
| UniRef90_UPI0003D0EC0E | PRLHKAHDGEC |
| UniRef90-R0L5C1 |  |
| UniRef90-B4IGL1 | WRKHHD GP C |
| UniRef90-UPI000332F2B0 | QP ${ }^{\text {PT }}$ QVSK GPC |
| UniRef90-H3CEL1 | P GLR Q V R R G P C |
| UniRef90-F1REIO | QQVTNVHKGPC |
| UniRef90_Q06BU7 | HKLHLDY I GPC |

[^1]
[^0]:    

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

