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CEH $\square$ C $V$ N T $\square$ GS Y S C $L$ C H D G Y S L LD T N N R N C

CLIN N GE CQTDN GGCCSDH F C K N N TVV G S F D C S C C K K G Y K L L L T D E K S C C D LCAE GKHDCEQVCISSPGNFSCDCREGYRLQDDGRTCSM


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 $\begin{array}{rl}C N Y G N G G C Q H T & C \\ G & D \\ G & C \\ V & D\end{array}$ YCSF GNDSCEHECVVSVLKKGFHCLCNEGYSSLND DK K T C T M
 C A S S NGHCS H L C L LA T P S GYTCGCPVHHSLNADNKTCS P CSSNNGGCTQTCNNTPGSFYCSCAAGYTLNADGKGCTD QCSYN NGGCS HLC LVS S E A Y S C A C P T GVR L L N D S RTC ed $\begin{array}{r}C \\ C \\ \mathrm{C} \\ \mathrm{C} \\ \mathrm{C} \\ \hline\end{array}$ N L S N
CSND NVDHGCEFQCVSE GLDS YRCLCPEGQQLQADGKT C CS S N N N G GC Q Q L C V N T P G D Y E CLL CH S N Y K L H WN K K D C V E

Q C AVY N G G C S CLES N PCHQRCLLNSVGSYHC GCDT

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CANNNGGCSHTCTNTNGSYVCSCPDSNQLNKSDGRRCDE CLTANGGCQHVCVNTPGTFFCDCAAGFVDRGDGTC C
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## $C$ $C$ $C$ E

C D R D N G G QHFCHNYVGG

CHLCLSPNKYSCACPTGVRLLDNNKTC GGCSHICKDLVIGYECDCAAGFELDDRKTCGG
 $G V C Q Q M C V N Y V G G F E C Y C T E G Y E E L E A D R D D C A P$
$\square C K S \square N H$ GCEHVCVNAGESFVCKCQEGF LLREDGKTC CNTL NGGCSDLLCNNTVGSFYCSCDTGYYSLDTMDKYNCTCD CQTLN QCQHECRNSLGTYRCLCPTGYRLLLSNGKTCHD CSMSNGNCSHYCDN LA GSFQQCACP LGFSSLAANGRQCRD


CMHNN $\mathrm{C} \square \mathrm{H} \mathrm{G} \mathrm{N} \mathrm{G} \mathrm{G}$ $C Q H T C E D A D D G Y V C G C$
$C E Y E C L D T V M D S Y R C A C$

CATEKHG $\begin{array}{lllllllllllll}C & E & Q & C & C & V & T & P & G & Y & L & C & Q \\ C\end{array}$ LC TA A G N | $C$ | $Q$ | $Q$ | $C$ | $l$ | $S$ | $S$ | $P$ | $G$ | $V$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $C$ | $G$ | $Q$ | $C$ | $C$ | $V$ | $N$ | $T$ | $P$ | $S$ |
| $C$ | $G$ |  |  |  |  |  |  |  |  |
| $C$ | $S$ | $Q$ |  | $C$ | $Y$ | $Q$ | $S$ | $P$ | $T$ |
| $G$ |  |  |  |  |  |  |  |  |  |



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$\qquad$ NGT CQTDE
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$G S C S Q H C Y N M R G S F C A C D T G Y M L E D G R T C K I V$ CRTNNGNCEHLCLPKAFSHYCMCATGYVLESDGKTCKD CNSNNGGCNHTCVNTVGSYVCQCNSSYTLSDDHHSCDD CLQNNGRCSHTCLNDKGSNCTCPEGYELDDDEETCQD SVENGPCSQRCLNTLGSYLCACYHGYTLRPDQRTCVID CSEKNGECSHVCTNTTGGHFCSCPTGYELSQDERTCVD CADKNGG
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VDKCACEQDCVNDR
$\square \quad$ TPCGG【1 K
$V \mathrm{NEC}$
TGPQP
V N E C
1 D E C
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NCQFECG
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EDPCSDG
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PDVCPC
KD DCS
VDF
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LDVC
VDECTCGQDCD
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K N E

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$\qquad$
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VPVLCKSTSDE
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VDHCA
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1 DPC
YNECS

VNEC
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AVRYPCGQV
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C S Q $\square$ C EN TA G S Y $\square$ C K C A P G Y $\square$ R E P D G K S C
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$\qquad$
G C

LCSRFNGGCDHHCHNYLGSFYCSCRVGYVLHENKRTCSA CASGACSQTCINTYGSYRCSCTEGYILQPDGRSCKA CASQSHGCSQLCDNTAGSFHCACLDGFSLAADAKGCQP

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| :--- |
| Y C |
| Y C | CGRHNGGCSQDCEDLKIGFKCRCRPGFRLKDDGKTCAD CGRHNGGCQQICLNDGLGYRCMCRLGYDLQDDRHSC NPGFCSQHCYNTRGSFRCWCDKEYMLDTDGKTCKV CVFWNHGCTLGCKNDPGSYYCTCPKGF LLLSDGKRCQE CAMSNGTCSQLCVNTMGSYRCECHEGYTREEDGKTCT CATSNGGCEQICTNTDGSFHCSCQVGYSLSTDSLSCND CEVNNGGCAOTCDNSEGAYSCACHPGYHLEQDGQKCKV CTDRNGGCMHKCQARRGVAHCECHAGYRLAADHKSCED GFCSQHCFNMRGSFRCSCDKE CATNNGGCEQLCLFNGTQAVCVCSHGMMPSDDGKTCKP CKVMNGGCEQQCDNTPGSFQCSCYSGYKLRDNVHKCEA CNHFCHNYPGGFLCSCRHSFSLDPDGRTC CNTNNGGCEQQCDNTFGSYCCACNNSYMLNADNHMCDD CSVNNGGCQTSCNNYVGGYFCSCPPEYFLHEDKRNC CLEETDGCTQLCEDTFGGYACSCHDGYKLESDNQTCDD NGGCEQUCNATSGAVVCDCDPGYRLTSDNATCEE

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UniRef90＿H2VG93

CNHTCTNSPGSFVCSCNPGYY｜L｜DVDGVSCRD
 RDCSLN GE L N N

H H T CSSNNGDCQHVCINNGVSYTCKCREGYVLNTDQKTC

## D N G P

 CAHGH CKQACENTLGG CASGH CEETNGGG CAERN | CDSSNG |
| :--- |
| CTD |
| CT | CT $\square$ Q N G S

CQDGNAG $C Q Q T C V N T L D G$ CSQDCHNTDGSYRCE CSD GNGGCE DQCSNTVVGGFYCRCPA GHQLLQGDGRTCCQD CLIR D NGGCS H $\quad$ CNPETGG CS CPS GLELLSVDGKTCVD CAFANGGCEQHCTNNLGSFDCSCSTGYRLNSDGMACDD CSTNNRPCSHTCTNVPGSFVCGCPDGFSMGPDGRNCED CSVNN GDCS QLCLPTETT RACMCTAAGYS LTK S GQQS C E G

G P $C Q V H N$
$C A A E N$

C SHKCENTGGS YLLC

C A D R N G

## CQHTCVNTTRGE

$\qquad$
C
$\qquad$
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 ICMEDNGGCQQLCLYRGGGRACACAHG DLAADRATC CDSDNG

C
CYTSNGDCENVCHKTPVGPVCSCRVGYELADDEKSCRD $N G \square C E Q Q C T P D G G R P Q C S C S L G G E S L R A D G R S C D A$
 CASNNGGCDHECRHGDDGTTCACHHGYMLQA DGRS CQD CRVENGGCQHACNRSSPSPTCLCPADADLQADGRSCDV K $\begin{array}{lllllll}C & E & V & C & V & A & D \\ C & E & S \\ C & M & C & N & \text { E } & \text { L } & \text { G A }\end{array}$ GA SCSCSNGFQLEADGKSCSD
 CELLNNGBCQQSCCHNLEGGY ICRRCNRGYTLLPNGRDCTGG
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C E
C A
CQHTCTNワWGSYRRCGCHQGY LI QLDGHSSAD
 CADRNGGCVHKCHNHGGVARCDCHAGYRL ARDNRNCED CSDPNPPCQHECRNRYGSYQCYCKD GYTLAAADKRSCDD
 CAVDS
CERIP GLDCQHVCLNVWGS YQCRCNS GFRLNADNRSCSD


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|  | VDECS |
| UniRef90 ${ }^{\text {I }}$-1EWG0 | 1 N E C |
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| UniRef90_UPI00021A869C | Q T A CNA GE $\square \mathrm{KCCG}$ |
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| UniRef90_UPI0003C4A880 | $\checkmark$ V E C P C |
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AEPC
PVSNPC T D Y CA

E G G T P
ENQEEDNRVSEEDR VNEC
1 NEC

 | 1 |  |
| :--- | :--- |
| $V$ | $B$ |
| $V$ | $E$ |
| $V$ | $C$ |

V K E F

|  |  |  |  |
| :--- | :--- | :--- | :--- |
| $V$ | $T$ | $E$ | $F$ |
| 1 | $D$ | $E$ | $C$ |

$1 \begin{aligned} & \text { DEECS } \\ & \text { D E C }\end{aligned}$
$\checkmark$ VECS
TGPPP
$V \mathrm{DECVTGTHTCS}$
PTVQSC
TQNYS

VNEC
$\square$ NECPCYQVCD
T G L C
GS PEP
ID DCPC
IDEC
PPPNPC
KNECDSGSHTCK
NAGC
VNEC
S D S N S C
SDSNSC
VGEC GQPT $\square$ G
D D R C
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