

>AtEXP1

MALVTFLFIATLGA

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GSIVVTATNFCPPNNALPNNAAGGCNPPQQHFDSLSPVFQRIAQYRAGIVPVAYRRVPCVRRGGIRFTINGHSYFNLVL  
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>AtEXP2

MNLTEYSHILFLSLCTLNFCLYSINS

DDNGGWERGHATFYGGADASGTMGGACGYGNLHSQGYGLQTAALSTALFNSGQKCGACFELQCEDDPEWCIPGSIIVSA  
TNFCPPNFALANDNGGCNPLKHFDLAEP AFLQIAQYRAGIVPVAFRRVPCEKGIGIRFTINGNPYFDLVLITNVGGA  
GDIRAVSLKGSKTDQWQSMSRNWQNSNTYLRGQSLSFQVTDSDGRTVSYDVVPHDWQFGQTFEGGQF

>AtEXP3

MTATAFRVGLWLAVTASFLLTATNA

KIPGVYSGGPWQNAHATFYGGSDASGTMGGACGYGNLYSQGYGVNTAALSTALFNNGFSCGACFEIKCTDDPRWCVPGN  
PSILVTATNFCPPNFAQPSDDGGWCNPPREHFDLAMPFLKIGLYRAGIVPVSYRRVPCRKIGGIRFTVNGFRYFNLVL  
VTNVAGAGDINGVSVKGSKTDWVRMSRNWQNSNAVLIGQSLSFRTASDRSSSTSWNVAPATWQFGQTFSGKNFRV

>AtEXP4

MAIKLAILFTTFVLFLADA

RIPGIYSGGAWQNAHATFYGGSDASGTMGGACGYGNLYSQGYGLETAALSTALFDQGLSCGACFELKCANDPQWCHSGS  
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ITNVAGAGDIVRASVKGSRTGWMSLSRNWQNSNAVLVGQALSFRVTGSDRRRTSTSWMVPSNWQFGQTFVGKNFRV

>AtEXP5

MGVLVISLLVVHLLAFLSVCVQG

GYRRGGHHPGGHMGPWINAHATFYGGSDASGTMGGACGYGNLYSQGYGLETAALSTALFDQGLSCGACFELMCVNDPQW  
CIKGRSIVVTATNFCPPGACDPPNHHFDLSQPIYEKIALYKSGIIPVMYRRVPCRKIGGIRFTINGHSYFNLVL  
GGAGDVHSVSMKGSRTKWQLMSRNWQNSYLNQSLSFVVTSDRRSVVSFNVAPPTWSFGQTYTGGQFRY

>AtEXP6

MAMLGLVLSVLTILALSEA

RIPGVYNGGWETAHATFYGGSDASGTMGGACGYGNLYSQGYGVNTAALSTALFNNGFSCGACFELKCASDPKWCCHSGS  
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>AtEXP7

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ATNLCPNWyQDSNAGGCNPPRTHFDMAKPAFMKLAYWRAGIIPVAYRRVPCQRSGGMRFQFQGNSYWLIFVMNVGG

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>AtEXP8

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>AtEXP9

MAAKVITFMAVMVTAFTANA

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PSILITATNFCPPNFNQASDNGGCNPPLQHFDLAQPV FQRIAQYRAGIVPVSYRRIPCRKKGGIRFTINGFKYFNVL  
VTNVAGAGDVIKVSVKGSNTQWLDSRNWQNSNALLVGQSLSF RVKTSDGRSSTSNNIAPS NWQFGQTYSGKNFRV

>AtEXP10

MGHLGFLVMIMVGVMASSVSG

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NFCPPNNALANNNGGCNPPLQHFDLAQPV FQRIAQYRAGIVPVSYRRIPCRKKGGIRFTINGHSYFNVLITNVGGAG  
DVHSAAIKGSR TVWQAMSRNWQNSYLNQALSFKVTTSDGRTVVSFNAAPAGWSYQTFAGGQFR

>AtEXP11

MSKSLAGLAVLAALFI AVDAFR

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>AtEXP12

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RSVAVRGSKGKTWLQMTRN WGANWQSSGDLRGQRLSFKVLTDSKTQTF LNVVPSSWFGQTSSRGRQFV

>AtEXP13

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GGGIFISVLITNVAGSGDIAAVKIKGSRTGWLPMGRNWQNHINADLRNQAXSF EVTSSDRSXVTSYNVSPKNWNYGQ  
TEFGKQFETP

>AtEXP14

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YSSGVNVNARATFYGGADASGTMGGACGYGNLYSQGYGTNTAALSTALFNGGQSCGACFQIKCVDDPKWCIGGTITVTGTC  
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>AtEXP15

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DVHSVAVKGSRTRWQQMSRNWGQNQSNLLNGQALSFVKTASDGRTVVSNNIAPASWSFGQTFTGRQFR

>AtEXP16

MAINPLILLTIFPLFLLSFTDA

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ITNVAGAGDIARTSVKGSKTGWMSLTRNWGQNQSNALVGQSLSRVTSSDRRTSTSNIAPSNWQFGQTFVGKNFRV

>AtEXP17

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GWLQAHATFYGGSDASGTMGGACGYGNLYTDGYKTNTAALSTALFNDGKSCGGCYQILCDATKVPQWCLKGKSITITAT  
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>AtEXP18

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TATNICPPNYQQASNNGGCNPPrVHFDLTKPAFMKIANWKAGIIPVSYRRVACKKIGGIRFKFEGNGYWLLVYVMNVG  
GPGDIKTMAVKGSRTGWINMSHNWGASYQAFSSLYGQSLSFRLTSYTRQTIYAYNAAPASWSAGKTYQSKANFN

>AtEXP19

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SIKITATNFCPPNYQEPVQYHWCPNPKHFDLSMKMFTTVAEYRAGIVPVKFRVACHKRGVRFEIKGNPYIIMVLVY  
NVGGAGDVSNVEIRGQKSNWIVMKRNWGQIWDTGLLVGQSLSFIVRTSDGRSMTFNVAPPNWGFQTYEAKSNF

>AtEXP20

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EDDWKIATATLSRDRDGSSSVATGGACGYGDLRQSSFAGYSAGLSGKLFNRGSSCGACLEVRCVNHIRWCLQGSPSVVV  
TATDFCPPNSGLSSDYGGWCNFPKEHLELSHAFTGIAETRAEMIPIQYRRVKCGRRGGLRFSLSGSSHFFQVLISNVG  
LDGEVVGVKVKGHTTAWIPMARNWGQNWHSSLIGQSLSFEVTLKGGKTIASYDVAPPYWRFGMTYQGKQFHS

>AtEXP21

MTYVECF MII MATWFMFISYSHG

ANVAAAPGTNGLDTAWYDARAAYYGDIHGGGTELEGACGYGDLNKHYGLATAALSTALFNSGASCGACYEIMCSPNPQ  
GCLSGSIKITATDLCPPGSWCYLPNKHFDLSLPMFIKIAQVKAKMVPVRYRRVPCAKTGGVKFEVKGNPNILTILPYN  
VGGAGDIIAVSAKGSKTAWVMSRYWGQNWTNVNL TGQSVLRVTSMDGITKDFTDVMPSAWFGQTFDGKTNF

>AtEXP22

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GVKFETKGNPYFLMVLINYVGGAGDIKYVQVKGNKTGWITMKKNWQGNWTITVLTQQLSFRVTSDDGITKDFWNVMP  
KNWGFQTFDGRINF

>AtEXP23

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YQIMCVNDPQWCLPGSVKITATNFCPPDYSKTEGVWCNPQKHFDLSLPMFLKIAQYKAGVVPVKYRRISCARTGGVKF  
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FGOTFDGKINF

>AtEXP24

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>AtEXP25

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GGGOTFDGKINF

>AtEXP26

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GVKFETKGNPYFLMVLINYVGGAGDIKYVQVKENKTGWITMKKNWQGNWTSTVLTQQLSFRVTTDGITKDFWNVMP  
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>AtEXPB1

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CSKRAVTIIATDQSPSGPSAKAKHTFDLSGAAFGHMAIPGHNGVIRNRGLNILYRRTACKYRGKNIAFHVNAGSTDY  
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>AtEXPB2

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FAVLVAYVNGDGEIGRIELKQALDSKWLMSMSQSWGAVWKLDVSSPLRAPLSLRVTSLEGKTVVASNVIPANWQPGAI  
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>AtEXPB3

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EFEDGEDEGDSMHIRQAGAREWLEMKHVGANWCIIIGGPLKGFSIKLTTLSAGKTLSATDVVPRNWAPKATYSSRLNF  
SPVL

>AtEXPB4

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QNETIDVAGSGTAGVTWYGEFGAGSTGGACGYGSAVANPPLYAMVSAGGPSLFNNKGCGTCYQVVCIGHPACSGSPI  
TVTITDECPCGGPCASEPVHIDLNGKAMGALAKPGQADQLRSAGVIRVNYKRAACLYRGTNIVFRMDAGANPYYISFVVE  
YENGDGDLNVEIQPAGGSFISMQEMRSAVWKVNSGSALRGPNIRLTSGESHKVIVAYNVIPANWPDESYRSIVNF  
>AtEXPB5

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HNKTHWNTAGITWYGDREGPGTTGGACGYGDAVAKHPYRCMVSAGGPSLFKDKGKGCGACYRLKCDHPLCTKPKIKVMIS  
DECPCGCKESVHFDSLKGAFGALAKRGKDQLRNLGELKVSYKRACCKHPKTMAIHVDAGANPYYMSFAVKFANGDGN  
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>AtEXPL1

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>AtEXPL2

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CDDHIWN

>AtEXPL3

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CGHIWN

>AtEXLB

MKHSHVLLLLFVQVIVLPLLLCLS

DDFVNSRATYYGSPDCKANPRGHCGYGEFGRDINNGEVSGVSWRLWNNGTGCACYQVRCKIPPHCSEEGVVVATDSG  
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>GbEXP A1

MGLVNDLWYLLFILIAQLFQCDAKQRWSNAHTFYGGSTYAESMGGACGYGSAEYGRNTAALSTALFNNQACGSCYE  
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>GbEXP A2

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WCLPGKSITITATNFCPPNYDPLSNDGGWCNPPLQHFDMAEPaweQIAIYRGGIVPVLFKRVPCKKSGGVRF TINGRSY  
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GSRTEWQAMSRNWGANWQSNSYINGQSLSFRTTSDGKTITFPNVAPSNWQFGQTFSTSLQF\*

>GbEXP A3

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>GbEXP A4

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WCNPPLQHFDMAEPAYQQIAKYSSGIVPILFRRVPLKKGGIRFTVNGHSYFNLVLVS  
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>GbEXP A5

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ALFNNGGLSCGACYEVKCSGDPQWCLPRSIVVTATNFCPPNFALPNNAGGWCNPPLQHFDLSQPVFQNI  
AQFH\*

>GbEXP A6

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GAGDVQAVWIKGSRTGWQPM  
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>GbEXP A7

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TAALSTALFNNGLTCGACYEM  
KCNDDPQWCLPGTVVV  
VNGHSYFNLVLVS  
HAVWIKGSKTGWQPM  
RNWGQNQNSNSNMNGQSLSFKVTTSDGRRTVSYNAPSKEFGQTFQGTQF\*

>GbEXPA8

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AGDVQAVWIKGSRGWQPMQR

NWGQNQSNSYMNQSLSFKVTTSDGRTSVSYNVAPSNWQFGQTFQGTQF\*

>GbEXPA9

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>GbEXPA10

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TKRLNSMALIESIPLITVLVGLLWLPRAYGYDGWQTAHATFYGGSDASGTMGGACGYGNLYSQGYGTNTAAALSTALFN  
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PGTVVVTATNFCPPNNALPNDNGGCNPLQHFDMAEPAYEQIAKYRSGIVPILFRRVPCLKGGIRFTINGHSYFNLV  
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>GbEXPA11

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>GbEXPB1

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>GbEXPA20

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GNPSIIVTATNFCPPNKALPNNGGCNPLRHFDMSQPAYQHIALYRAGIVPVLYRRVPCKRRGGIQFTLNGWPYFTL  
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>GbEXPA21

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VITATNFCPPNYGLPSDAGGCNPPREHFIMPVTAF EKIAMWKIGNMNVEYRRVKCQREGGMRFKIAGKDYFYMVLITN  
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>GbEXLB1

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VWNVMEPPKGALSVRFLVSDGDEEQWMTAPNVI PANWTKGALYDSGIQIN\*

>GbEXLA1

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GACYQIRCTNSALCTKSGVKI

VVTDLNQNNQDFVLPSRSFSSLALPNKASQLVKMGAVDVEYKRIICEYPGQNM TVKVDKSSNYPYYLAVQFLYQGGQT

DITIVDVAQVGSTDWHYMTRN  
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>PtEXPA18

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>PtEXPA19

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>PtEXPA20

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>PtEXPA21

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>PtEXPA22

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>PtEXPA23

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>PtEXPA24

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>PtEXPA25

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>PtEXPA26

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>PtEXPA27

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>PtEXPB1

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>PtEXPB2

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>PtEXPB3

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>PtEXLA1

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>PtEXLA2

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>PtEXLB1

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>PtEXLB2

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>PtEXLB3

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>PtEXLB4

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