

COR

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>AMECOR1

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>AMECOR3

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>GFLCOR3

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>HCACOR1

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>HCACOR2

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>HCACOR3

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>JDICOR1

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>MAQCOR1

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>NDOCOR2

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>MAQCYP80-1

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>MAQCYP80-2

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>MCACYP80-1

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>MCACYP80-4

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>BTHCYP82-2

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>CCHCYP82-1

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>CCHCYP82-2

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>CCHCYP82-3

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>CCHCYP82-4
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>CCHCYP82-5
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>CCHCYP82-6
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>CCHCYP82-8
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>CMACYP82-1
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>CMACYP82-2

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>CMACYP82-3

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>CMACYP82-4

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>CMACYP82-5

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>CMACYP82-6

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>CMUCYP82-1

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>CMUCYP82-2

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>CMUCYP82-3

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>GFLCYP82-7

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>HCACYP82-6

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>HCACYP82-9

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QDEINIRVGKDKPVDES DIEKLVYLQAIVKETLRLYPVLPLSVPHEAIEDCTIAGYHVPNGTRLITNLWK
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>HCACYP82-10

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>JDICYP82-1

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DESRKVQKATREFDRLLGLFVVSDYLPFLRWLDLEGHQKLMKSIGRELDLSILQWLDEHKTRRNSGGGAK
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>JDICYP82-2

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>MAQCYP82-1

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>MAQCYP82-2

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>MCACYP82-1

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WKIQREPSIWADPLEFQPERFLTTHKGMDVGQHFELIPFGSGRRSCPGTAFALQVIHLTLARLLHGFE
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>MCACYP82-2

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>MCACYP82-3

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>MCACYP82-4

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>MCACYP82-5

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>NDOCYP82-1

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>NDOCYP82-2

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>NDOCYP82-3

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>NSACYP82-2

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>NSACYP82-3

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RKIAILELLSNHRLKSLKHVWISEISGFVKELYQLCVANGNTGRQSALEMRQWLNDLTLNVSRMVVGK
RYFGSGSEHGGEDVKRFQKAIKDFFRLAGKFTLADAIPFLRWLDFGHERAMKKTAKELEYVLA
RNKLNCETKQVDQDFMDVMLTVLGDKDLYGFKA
DVVNKATCLNLILGGVDTSVLTWALSLLNNPNIL
NKAQEEIDVQIGKDRQVDDNDLGKLVYEAIVKETMRLYPAGPLSGARA
AAIEDCMVAGYHVPKGTRLIVN
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>NSACYP82-4

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ISLLL
NNP
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AMEDC
VIGSY
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>NSACYP82-5

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FTVND
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FSPYGS
YWR
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LELSN
HRLEEL
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VEIKP
ISVDSL
SQWF
ADLT
FNVV
MMITG
KRY
IGSTD
AGDM
NEIRHF
QAA
LVFM
RLLR
ISLL
DVFP
VLQW
INYGG
FKGV
MKSTAR
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NHDF
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>NSACYP82-6

SFNQTYTGFI
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GLTGKMKKCGKKDAVVGDAVEVHRQKKLKISRNTAGELTEHEEEEDFIDVCLSIMEQSQIPGNNPEISVK
SIALDMLSGGSDTTKLIMTWTLSLLNHPDILDKAKEEVDTYFRKKKISDNTPVDAADVPNLVYIQAI
KESMRLYPASTLMERMTSDDCEVGGFHVPAGTRLWVNWKMQRDPRVWNDPLVFRPERFLSNDKGMDVK
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>PBRCYP82-2

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SSWEMVKECFGNNDTFFSNRPIPLAFKIIFYAGGVDSYGLALVPYGYWELRKICVHNLLSNQQLKF
RHЛИISQVDTSFNKLYELCKNSEDNQGMVRMDDWLAQLSFSVIGRIVCFGQSDPKTGAPSVEQFKEAIN
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>PBRCYP82-3

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GYQSGERLMLSGDTASNGERYKKTLEEAFLMSSFAVSDVFPCLEWVDRSRGLVRSMKRGDQLNSIAGC
LIEEHQRKRSQSVSASNSTNDKVGVDQDFIDVLLSVAELSQIPGDDPDLVIKSMILEALAGGSDDTTST
LTWVLSSLNHPKVLKTAKEEIDMHVGRNRCVEESDIPKLVYVNAIIKESMRLYPNGSLVDRLTLEECEV
GGFHVPAGEHFLFVNWKIHRDPSWENPLEFKPERFLSNDCKVDMDFISQKYEFIPFGIGRRICPGMLSA
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>PBRCYP82-4

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KIATELLSDRRLAMLKNVWISEINLCINELHQLLMDKNSRKVDHHQHVYNQNMDFPISVEMNGWFADLSF
NVVARMIAKRYFGKNTDGEEETRRYREAMNDFMHLVVILLVSDAVPFLGGDFQGYKKRMKKTAKEID
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WALSLLNNQHVLRAQDELDIHVGRERQLEESDIKLVYLQAIVKETLRLYPAAPLSAPRMAMEDCTVA
GFQVSKGTQLMLNVWLHRDPFWGPDPLEFRPERFLTAGSSTGSGHCIDIDVKGRHYELLPFGSGRRM
CPGVSFAMQVVLHTLATLLHGFHLSTPTDGPVDMTETSGLSCPKATPLEVLLTPRLPC

>PBRCYP82-5

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KALFAF
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DGQKKQMK
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>PBRCYP82-6

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>SCACYP82-6

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>SCACYP82-7

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>SCACYP82-8

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>SCACYP82-9

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>SCACYP82-10

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>SCACYP82-11

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>SCACYP82-12

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>SDICYP82-3

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>TFLCYP82-1

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>XSICYP82-1

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>XSICYP82-2

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>XSICYP82-3

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>PSOCYP82Y1

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>MAQFADX1

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>ND0FADX1

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>BTHFADX1

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>JDIFADX1

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>MCAFADX1

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>CTRFADX1

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>TCOFADX1

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>CMUFADX1

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>BPEBETV1

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>PBRNCS1

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>TFLNCS1

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>ECANMT4

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>ECANMT5

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>ECANMT6

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>JDINMT1

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>AMENOS2

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>BTHNOS1

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>NDONOS2

MEMEGEKGSGSRVVCVTGGGYIASWLIMRLLQLGYSVRATARLDPKLKDSLHNTNLPRASQNLKIFNA
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ANKTGLMEMDESIWSDIDFKAYKFPGSSYVAAKTLSEQAAIKFAEEHGLELVTVISSMVAGPFICPSLP
SSVCMALALIMGKSDQYINLVKANLVHIDDIVAAHIFLLECPKAKGRYICSAIDTTIHELAKYLSFKYPE
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>NSANOS1

MADEEQPSTKLRAVCIGGTGYLASFLIKHLLQKGYHVNSTAKDPGNPETISHLLELQNLGELKIFRADLT
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INNTDPVMDEEWWTDVQYLSSEKPFAGYPVSKALAECWAJKYAENNEMDLITVIPSVIAGPSLTPNVPN
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>NSANOS2

MSSSTTTEGAGKTCVTGGSGYIASWLIKLLLQRGYTVKATVRDPNDPRQTMHRELCGAGERLSLFKAD
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NGKLRTPDVVDETWFSDPEVCKELKLWYPLSKTLAEESAWKFAKDGHIDMVSINPAMVIGPLLQPTLNS
SSSIILNLINGAKTYTNAAYGLVDVRDVANAHILAFAEVPSATGRICLAEKVCHFSEMVEILHELYPDIQL
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>NSANOS3

MPEYCVTGGTGFIAAYIVKELLHKGNVRATVRDPGDAEKVGFLLEMDGAKERLKLVKADLLEDGSFDDA
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NESHWSDPEYCKSYNLWYAYAKTLGEKEAWRLSKELGIDLVVNPSSYVGPLIAPQPTSTLLMILGIITG
VTDEYPNTMIGFVHIDVVRAHILAMEESRAAGRILICSSSVVHWSEIIKMLDKYPSYMPPTKCSDKKGD
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>SCANOS1

MEMEGEKGSGSRVVCVTGGGYIASWLIMRLLQLGYSVRATARLDPKLKDSLHNTNLPRASQNLKIFNA
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ANKTGLMEMDESIWSDIDFKAYKFPGSSYVAAKTLSEQAAIKFAEEHGLELVTVISSMVAGPFICPSLP
SSVCMALALIMGKSDQYINLVKANLVHIDDIVAAHIFLLECPKAKGRYICSAIETTIHELAKYLSFKYPE
FEMPMDSLKGAPREMQPIHVSSKKLMDLGFKFLWMKYLMEQFKVAKKGLCRLLVLELP

>SCANOS2

MGSTTHDQDDQMMVMIKGPVVVTGAAGYCGSWLVMRLLQQGYTVRATVRDPTKIEKTKHLLDIPGAKERL
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AGTINVEKQQKPIYDETSWSDLEFCRQTKMTGWMYFVSKTLAEQAADFAKENNIHFISVIPTLVVGPFI
TNNMPPSMLTALALITRNEAHYSILKQIQFVHLDLCAHIFLAEPKAEGRYICSSEDPTIFQLANMLS
ARYPEFDIPTKFEFIGIDESIKPVHFSSKKLKDGFQFKYTMEDMFDAIQSCREKKLFPSDLEKNNQHFDY
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>SCANOS3

MDWKVIGKKTVCVTGGTGYVASLLIKNLLEKGTYAVNTTARNPEDQKKVAHLLILQADHSDLKIFRADLT
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QNGTGFVMDEGCWTDVEFLASAKPPIWGPVSKTQAECWAJKFAEENKIDLITVIPSLMLGPSLTLAVPS
SIFLGMSLLGNNEINTLKGQMQLSGSISITHVEDVNAHIFLAEKESASGRYICCNISSSLPELAKLL
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>SCANOS4

MAEYCVTGGTGFIAAYIVKALLEKGHRVRATVRDPDKVEKVGFLWEFTGAKERLKLVKADLMVEGSFDE
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PLNESHWDPEYCKSYNLWYPYAKTLAEEQAWKLANESIDLVVNPSSYVGPLIAPYPTSTLLMILGII

KGVQSEYPNLAVGFVHIDDVVAAHILAMEESKASGRLICSSSVAHFSEIIEMLKS KYP S YPIVNKCNDKK
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>SDINOS1

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NVEEHLKPVYDETSWDVEFCRRIKMTGWMYFVSKT LAEAQAAWDFAKENNIHLISVIPLVVGPFIMNSM
PPSMITALALITGNKAHYSILKQIQLVHLDLCAHIFVATHPKAEGRYICSSEDPTIFQLANMIRD RHP
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>SDINOS2

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LNESHWS DPEYCKSYNLWYPYSKT LAEEHAWK WAKE SGIDL VVVNPSFVVGPLIA PYP TST LMI LGI IK
GMRGEYPNFR LGFVHIDDVVAAHILAMEESKASGRLICSSSVAHFSEIIEMLKS KYP S YPIFNCCDRKG
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>SDINOS3

MAKGTVCVTGASGFLASWLIKRLLSGYHVVGTVRDPGN DTKLAHLWNLQGAKERLRLVKAELTEEGSFD
DAIKGCEGVFHMASPVLGQPTDPQDILKPAIDGTLNVLRSCKNPSLRRVLTSSSTIRVREKLD PKNP
LDESSWSSVELCSKLKIWYVLSKTMAEKAWEFCNENG INLTVSPSFVVGPSLPPALC STASDILG LLQ
GETERFYWHGRMGYVHIDDVALCHILVYEREEAEGRYLCSSTVVDNDELVSILSARYPTLPIPKRFEQHE
RPYYDFNTNKIKSLGFTFKSIP EMFDDCITS LVAQGHLSIP

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>RSEVS

MAPQMEKVSEELILPSSPTPQLCYKISHLDQ LLLTCHIPFILFYPNPLDSNLDPAQTSQHLKQSL SKV
LTHFYPLAGRINVNSSVDCNDSGVPFVEARVQAQLSQAIQN VVELEKLDQYLPSAAYPGGKIEVNEDVPL
AVKISFFECGTAIGVNLSHKIADVLSLATFLNAWTATCR GETEIVLPNF DLAARHFPPV DNTPSPEL VP
DEN VVMKRFVFDKEKIGALRAQASS ASEEKNFSRVQLVVAYIWKHVIDVTRAKYGA KNKFVVQAVNLR S
RMN PPLPHYAMGNIATLLFAAVDAEWDKDFPD LIGPLRTS LEKTEDDH NHELLKG MTCLYELEPQ ELLSF
TSWCRLGFYDLD FGWGKPLSACTTFPKRNAALLMDTRSGDGVEAWLPMAEDEM AMLP VELL SLV DSDFS
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>AMEOAT1

MSDIMKVEVSREI KPLSPTPNHLKTFNLSFLDQLS PPIYVPII LFYPI DCKNDCKSTIESIRGNLKKT
LAHTLT KYYPLAGRIKDG SFVECNDGVDYVEANVYDING GISEII IQPDGDILK KLLPFD PYGVEGY NT
KVLLSIRINVLENCGGIVIGICISHKIGDGSSLTTFINDWAAAARKNPSEQIKGPQFDLPSLFPLRDLK
GYI PPSAGAEMVEEIVTKKFV FEGSKITE LKKKGIVNGGNND DDVKKYPSRVEAVSAFIWRRVIGLDQA
KKQGGDSNNEAPVTY GSLHAVNMRSRMN PPLPSNSFGN MYTTT MAFSIIN NHADEE EKLGHYQLPNLVE
KVKESIKKIDSEYVKKVQT TDLLNSMKHLATGHQMVMLSFSSWCRFPIYEADFGWGKPIWTTSTFPFK
NNVVFM DT KSGDGIEAWVNMTKDDMAA FERDQELLQYVS

>BTHOAT1

MKMKVQVISRESIKPSSPTPPYLKTFNLCFLDQIAPPFYIPIFLFYADNSPNDIENAGLHCRQKRSLSET
LTSFYPLAGR INGNTSVD CNDEG ANYVEARVSGLLSEVIV QPNVADVLKMFSPCDEPHFDDADTAHGP KF
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>JDISALR1

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>MCASALR1

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>MCASALR2

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>NDOSALR2

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>NDOSALR3

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>NDOSALR4

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