

>DmeGlob1

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>DmeGlob2

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>DmeGlob3

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>CcaGlob1

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>CcaGlob2

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>GmoGlob1

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>GauGlob1a

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>GauGlob1b

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>GauGlob2

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>GbrGlob1a

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>GbrGlob1b

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>GbrGlob2

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\*

>GfuGlob1a

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>GfuGlob2  
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>GpaGlob1a  
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>GpaGlob1b  
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>AgaGlob1  
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>CriHb1

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>CriHb1A

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>CriHb2B

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>CriHb3.1

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>CriHb3.2

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>CriHb4.1

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>CriHb4.2

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>CriHb6

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>CriHb7A1

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>CriHb7B3

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>CriHb7B4

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>CriHb7B5

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>CriHb7B6

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>CriHb7B7

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>CriHb7B8

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>CriHb7B9

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>CriHb7B10

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>CriHb8

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>CriHb9

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>CriHb10

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>CriHb11

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>CriHb12

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>CriHbE

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>CriHbP

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>CriHbW

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>CriHbX

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>CriHbY

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>CriHbZ

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>CriHb3A

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>CriGbXL

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>LloGlob1

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>LloGbXL Exon2

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>PpaGlob1

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>PpaGbXL

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>MdeGlob1

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>MdeGbXL

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>BmoHbL

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>TcaHbL2

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>DpoGbXL

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>DceHbL

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>NviHbL

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>CflHbL

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>SinHbL

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>PhuHbL2

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>PhuHbL3

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>PhuGbX

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>ApiHbL

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>ApiGbXL

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>AgoHbL

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>AgoGbX

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>AgoGbXL

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>BtaHbL

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>BtaGbXL

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>MpeHbL

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>NluHbL

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>NluGbX partial

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>NluGbXL

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>DciHbL

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>BmaHbL

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>CleHbL partial

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>CleGbXL

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KGYNS\*

>HhaHbL Exon2

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>HhaGbX

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>HhaGbXL  
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>HvitHbL4 Exon2  
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>HvitGbX partial  
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>HvitGbXL  
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TLEKGYKGS\*  
>OfaHbL Exon2  
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AEVHVSRIKPPDFS  
>OfaGbX  
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>OfaGbXL  
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LTGIGQSHKIPGFKPEYFWKIEQPFLAVEKTLDDRYTENVENIYKVTIKLIIETLVNG  
YNS\*  
>PveHbL partial  
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>PveGbX  
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>RprHbL1 Exon2  
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VASNHKKRNIKKEEFV  
>RprHbL2 Exon2  
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>RprGbX partial C-term uncertain  
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R\*  
>RprGbXL  
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LEKGYNT\*  
>FocHbL  
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>FocGbX Nterm uncertain  
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>FocGbXL  
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>LkoHbL  
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>LmiHbL1  
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>LmiHbL2 partial  
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RKQGENHGRRKITEGEFL  
>LmiGbX partial  
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SLESQWSDDLQGAWERLFEYIAFHMKAAMERERAEKR\*  
>LmiGbXL partial  
RIPTARQKYNMLASWKGISRAMEPTGVYMFIRLFEEHAELLE LFERFRSLRTREEQAGSM  
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TTLGDRYTDNVDTL YRATIKLIIETLINGYNNAQDNPQAQTKQPSS\*  
>RflHbL  
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>ZneHbL1

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HDRHGVSEKEFNDLKVVLMLKLLKQKLGKLLTSQAEAAWSKTTIDVAYQVIFEGLKTSDVAS  
VK\*

>ZneHbL2

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KHGISRQEFNDLKITLLKLLKLLKLGSKFTCEDEAAWKKMLDVAFSVIFTGMDDEDQGSSES\*

>ZneGlobX

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QVFMFPNGIELEDLKHSLKQLRAHALRVMAFVQKAVARLHEPEKLETILQELGKKHYTYGA  
KQKYVDLIGPQFIQAIQPSLEDRWTPPELQEAWIHLFKYMAVVMKTSMGEEEEQRINSQQ\*

>ZneGlobXL

MGCELGKLVMMVHRDAGEGSKGRHGEAGPPPPPEPPDRLPLTAKQKYSMMASWKGISRAM  
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LDSFFDFLTQVGASHHRI PGFKPEYFWRIERPFLEAVQMTLGDYRTENIESIYKITIKFI  
IETLVRYEKKPDT\*

>BgeHbL1

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>BgeHbL2

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RRGISRQEFINLKAUVLKLKTKLGSKFTSEDEAAWNTLVDVAYSVIFKGLDKAEDASQ  
KA

>BgeGbX

MGNASSHHKAGGVAEKVPGGDLGKNGAEFEEQEOMRKRSSVGVESDRDVIPLVCPEPLSE  
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LRVMAFVQKAVARLHEPEKLEKLLQDLGKKHYAYGAKQKYVDLIGPQFIQAIQPSLAEQW  
TPELNTAWVQLFQYMAFVMKTSMNEEEQRVRAQQ\*

>BgeGbXL

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KPAS\*

>LfuHbL1 partial

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QKEKIVLKTENAS\*

>LfuHbL2

MGLRHSTAVDNTDPDVTGLTPAQIQAVRSTFDVLRSDPKDFGVDLFLSLFDAHNPYQKLF  
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ESFEHLKSVIMGLLKRRLKDRFTPFAEESWSKTLDVANSVIFKGLEDGQKEKIVLKSENA  
S\*

>LfuHbL3

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LGQNHGQRHIPEQAFDLKAVLMKMLKEKLEGHFTAYEEESWDKTMDTAFSVIFQGLKDQ  
ELTAT\*

>LfuHbL4 partial Exon2

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>LfuGbXa

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KQLKAHALRVMAFVQKAVARLHEPDKLDVLLRELGKKHYTYGAKQEYIDYIAPQFIQAIK  
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PTQPFAPSKGLLHGSRRASSDVGGDGVSAAGGTSLLASKRRGTLY\*

>LfuGbXb

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ALRVMAFVQKAVARLYEPEKLDLLRELGKKHYSYGAKQQYIDYIAPQFIQAIKPSLEDR  
WTGELQDAWIALFNMGVIMKAAMDWEEKRAAAATIPYALPPSSHPSKTGAPAPVNPTAP  
PVTAPPTNPTPPINPPPPVAAATNITKEPNRRASDVI TNTRKGTGVRTEALRRGTLN\*

>LfuGbXc

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KHSKQLRSHALRVMGVQKAVARLHEPEKLDVLLRDLGKKHFSYAAKPEYVDLIGPQFIQ  
AIKPSLEDKWNEEIHEAWTTLFEYMASMMKTEMAYEEKKAIANSATETRVQNTNRRPTAS  
SKTSTSSHNNPKNHGSRRASSDAATIGGTVAAVNNRRGTLLH\*

>LfuGbXL

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>BspHbL1

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>BspHbL2

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>BspGbX partial

AKVGVI TFISLFETHPDVQETFLPFNGIELEELKQSKQLKAHALRVMAFVQKAIARIHEP  
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VMKHSIEQERLNSGSGVAAAN

>BspGbXL partial

YNIMASWKGISRAMEPTGVYMFIKLFEEHEELLTFLTKLAEKTKEQQGSLELAEHATK  
VMSTLDEAIRTLNLDQTIQFLXXXXXXXXXXXXXXXXXXXXRIEKPF L DAVKTTLGDRYT  
DNVDVIYQ

>EdaHbL1

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APEPSKPQQQVEMKTEERSQEE\*

>EdaHbL2

MGGMSRGE PVDVWP KGVDPDLIDPETPRDRRVVSRTFAVCV PKVREVAMDI FVTLF  
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DNHKKRHHVSPSAFPDFKDVLMV LKRHLGALFTSEELSWDRAMNFVNRTVTARLV\*

>EdaHbL3

MRFLISCVLSMVFLETTIANPNDLHSEEISGVEDI IKNVLAPDLATHGPALFLELFKLE  
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KKLNVGYDHAKVLSKAIQNYLSANLPHGYGGDVKTGWNKVLYVMTEAFK\*

>EdaGbX

MGVKN SKLIEAKCPGAPNSPARKSLEPVPEPAKTPENMTSCCETIPIPV LAPLELESIGP  
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LRAHALRVMAFVQKAVARLHEPEKLEALLRDLGQKH YFYGAKPEYVELIGPQFIQAIRPS  
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>EdaGbXL

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SLIAYLEAVGASHRR IPTFERNHFHRIEKPF LDAVRTTLGDRYTDNVDVIYQATIKFIID  
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>LysHbL

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>FcaHbL1

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>FcaHbL2

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>FcaHbL3

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HLEDSEVLGELLFKTGVNHKGRGLGLNDFKNLNNAILDYFSIALGKLF TPVVMRGWTKTL  
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>FcaGbXL partial

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>StuHbL

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>CclHbL

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>LsaHbL

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>LsaGbXa

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AHRIMKT VSDVISL NKDEEKIEEMLVALGGKHHGFGVHIEILELMGPHFISAIYPTLKE  
TWTEELQEAWQCLFNYIIALMHIGFDQALLAKVKPTW INYFD\*

>LsaGbXb

MGQRQSSSHCKYLEKSKSRNSVPIQSSPNTCSVEHHPSLSNEQLPVDKIDLKVLMEETKS  
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YSENLSHAI RVM AIEKVMHRLDDEERAARIL IAYGKKHFQIGVKTEMLEKMGESFVTA  
VEPSLEKVVTKKMAEAWLSLFYFITYFMKLAYPNKPESVDSL\*



>EafHbL partial

LNSRAHAGLVMSTLNFWVSNLDDIDLVVASVQKTGRNHSGLNCNNNMKSRLSHIF

>EafGbXL partial

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>DpuHb1-1

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VVIQSLSSQELLANQINALGGAHQPRGATPIMFEQFGAITEEVLAEEELGIAFNAEARQAW  
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>DpuHb1-2

DPQTKLTPHQIHVDQRSWENIRANRNSLVSALFVKLFKETPRVQKHFAKFANVAVDSLPG  
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>DpuHbA

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>DpuHbB

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>DpuHbC

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LVNSWHILKKRSDFAPKVFMRYPKAKPEAQKLFSEFANVSVTDLNNHDFLNAAYSCISS  
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>DpuHbD

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>DpuHbE

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>DpuHbF

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PTNPDFLNSAFTCVNSLNYLIPFLKYDHPERCPSPFKQIKDNYNEVDVKKLGSIWMMAMQ  
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>DpuHbG

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NSYVEHLGKNPKNCPFIKAKGKYHHEDLKLGLVTLMGVLEELGKGFDETKEAWKKGL  
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>DpuHbH

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>DpuHbIPartial

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QVDIT

>DpuHbJPartial

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>DpuK

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>DpuGbX

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>DpuGbXL

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>AsaHbT1-9

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>CmaHbL

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>CmaGbXL

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>HazHbL partial

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>HazGbXa partial

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XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX LIGPQFIAAMQGS LQRRWEACVEEAWL  
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>HazGbXb

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>HazGbXLa

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>HazGbXlb partial

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>SsuHbL

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>SmaHbL partial

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>SmaGbX

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>SmaGbXL

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>MgiHbL

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>SjeHbL

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>CexHbL1

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>CexHbL2

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>CexHbL3

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>CexGbXa

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>CexGbXb

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CSRPAQQ\*

>CexGbXLa

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>CexGbXLb

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>IscHbL1

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>IscHbL2

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>IscHbL3

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>IscHbL5

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>IscGbXL

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>MocHbL1

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>MocHbL2 partial

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>MocGbXL

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>CspHbL1 partial

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>PspHbL1 partial

SGINAEYMGKKYPQYQQKFPQFCNMTPECAMSSPALXNFTCQKFTGAMNNLIDSMDDKEL  
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VGKYNRQMLIL\*

>PspHbL2

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>PspGbXL partial  
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>CcalHbL3  
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TTHVQNGFRT\*  
>SkoGb1  
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>SkoGb3  
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>SkoGb5  
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>SkoGb6

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>SkoGb7

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>SkoGb8

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KNS

>SkoGb9

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>SkoGb10

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>SkoGb11

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>SkoGb12

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>SkoGb14

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>SkoGb15

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>SkoGb16

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>CinGb1

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>CinGb2

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>CinGb3

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>CinGb4

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>Bf1Gb1

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>Bf1Gb2

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