	Original Alignment		Better Alignment
RMGIQK	AGAATGGGAATACAGAAA	RMGIQK	AGAATGG <mark>G</mark> AATACAGAAA
EKQD	GAAAAA CAGGAC	EKQD	GAAAAACAGGAC
ARYSSA	GCTCGGTACAGCTCAGCA	AR <mark>YS</mark> SA	GCTCGGTACAGCTCAGCA
FRSA	TTCCGC TCAGCA	FRSA	TTCCGCTCAGCA
MEVGA	ATGGAAGTTGGGGCC	MEVGA	ATGGAAGTTGGGGCC
GS-RA	GGAAGT CGGGCC	-GSRA	GGAAGTCGGGCC
KLLWL	AAGCTCCTTTGGCTG	KLLWL	AAGCTCCTTTGGCTG
RL-WL	CGCCTA TGGTTG	-RLWL	CGCCTATGGTTG
MIKES	CTGATAAAGGAGTCT	M <mark>IK</mark> ES	CTGATAAAGGAGTCT
TL-ES	ACACTG GAGTCT	-TLES	ACACTGGAGTCT
RSNAA	CGAAGTAATGCTGCC	RSNAA	CGAAGTAATGCTGCC
NT - AS	AATACT GCTTCC	-NTAS	AATACTGCTTCC
VSIGEK	GTAAGCATTGGTGAGAAA	VSIGEK	GTAAGCATTGGTGAGAAA
IVEE	ATTGTT GAAGAA	IVE <mark>E</mark>	ATTGTTGAAGAA
SAGTSD	TCTGCGGGAACCAGCGAC	SAGTSD	TCTGCGGGAACCAGCGAC
EPTS	GAACCC ACCAGC	EPTS	GAACCCACCAGC
SQSFV	AGCCAAAGTTTTGTC	SQSFV	AGCCAAAGTTTTGTC
PK-FV	CCAAAGTTTGTT	-PKFV	CCAAAGTTTGTT
TPYHFT	ACACCCTACCATTTTACT	TPYHFT	ACACCCTACCATTTTACT
YPFT	TACCCTTTTACT	YPFT	TACCCTTTTACT
RLQSG	AGGTTACAATCCGGT	RLQSG	AGGTTACAATCCGGT
SL-SG	TCCCTT TCAGGT	-SLSG	TCCCTTTCAGGT
FIPERCQL	TTCATACCTGAAAGATGTCAGTTG	FIPERCQL	TTCATACCTGAAAGATGTCAGTTG
TL WL	ACACTTTGGTTA	TLWL	ACACTTTGGTTA
ESTIL	GAAAGTACAATTCTC	ESTIL	GAAAGTACAATTCTC
RD - VL	AGAGAC GTTCTC	-RDVL	AGAGACGTTCTC
HRLQW	CACAGATTACAATGG	HRLQW	CACAGATTACAATGG
TD-TM	ACAGAT ACAATG	-TDTM	ACAGATACAATG
SAAAPAA	AGCGCCGCGGCGCCGGCGGCG	SAAAPAA	AGCGCCGCGCCCCGGCGCG
VPSS	GTGCCTTCCAGT	VPSS	GTGCCTTCCAGT
KLDTE	AAGCTGGACACGGAA	KLDTE	AAGCTGGACACGGAA
PA-AE	CCGGCCGCGGAA	-PAAE	CCGGCCGCGGAA
FAEHI DI-LI	TTTGCTGAGCACATC GACATC CTCATT	FAEHI -DILI	TTTGCTGAGCACATCGACATCCTCATT
QNIEK RT-QK	CAGAATATCGAGAAG AGAACA CAGAAG	QNIEK -RTQK	CAGAATATCGAGAAG AGAACACAGAAG
HFDQNV VL AV	CATTTTGATCAGAATGTT GTGCTGGCTGTG	HF <mark>DQN</mark> V VLAV	CATTTTGATCAGAATGTT GTGCTGGCTGTG
ASTYA	GCTAGTACGTATGCT	ASTYA	GCTAGTACGTATGCT
IK-HA	ATTAAA CATGCC	-IKHA	ATTAAACATGCC
RSYGY	CGAAGCTATGGCTAC	RSYGY	CGAAGCTATGGCTAC
SS-GY	AGCTCT GGCTAC	-SSGY	AGCTCTGGCTAC
NALSVTS	AATGCTCTTTCTGTAACCAGT	NALSVTS	AATGCTCTTTCTGTAACCAGT
SATS	TCTGCGACCAGT	SATS	TCTGCGACCAGT
SIPSD	TCCATACCATCAGAT	SIPSD	TCCATACCATCAGAT
KV-SD	AAAGTT TCAGAT	-KVSD	AAAGTTTCAGAT
INTEVPDV	ATCAACACAGAAGTCCCTGATGTC	INTEVPDV	ATCAACACAGAAGTCCCTGATGTC
DSDV	GACTCT GATGTC	DS DV	GACTCTGATGTC
TDSHT	ACTGACAGTCATACA	TDSHT	ACTGACAGTCATACA
GN-HT	GGCAAC CATACA	-GNHT	GGCAACCATACA
SEGEH	AGTGAGGGGAGCAT	SEGEH	AGTGAGGGGAGCAT
AR - EH	GCGAGG GAGCAC	- AREH	GCGAGGGAGCAC
SSTHS	TCAAGTACGCACAGT	SSTHS	TCAAGTACGCACAGT
NA-HC	AACGCA CACTGT	-NAHC	AACGCACACTGT
TITDVEAV	ACTATTACAGATGTGGAAGCTGTT	TITDVEAV	ACTATTACAGATGTGGAAGCTGTT
VIAA	GTGATC GCTGCT	VIAA	GTGATCGCTGCT
LLPDT	CTTTTACCTGACACA	LLPDT	CTTTTACCTGACACA
		5 .	

LL-DT	TTACTT GACACA	-LLDT	TTACTTGACACA
AALTGF	GCGGCACTGACAGGCTTT	AALTGF	GCGGCACTGACAGGCTTT
LPGF	CTGCCAGGCTTT	LPGF	CTGCCAGGCTTT
SEKLEQQD		SEKL <mark>EQQ</mark> D	TCGGAGAAGTTGGAACAGCAAGAT
DEDD		DED D	GATGAGGACGAT
RAHASPRT	AGAGCA CACGCTTCGCCAAGGACA	RAHASPRT	AGAGCACACGCTTCGCCAAGGACA
LQRT		LQ RT	TTGCAGAGACA
TLFVQ	ACGCTGTTTGTTCAA	TLFVQ	ACGCTGTTTGTTCAA
RC - VQ	CGCTGT GTCCAA	-RCVQ	CGCTGTGTCCAA
PEVIL	CCTGAAGTGATTCTA	PE <mark>V</mark> IL	CCTGAAGTGATTCTA
EE-IL	GAAGAG ATTCTA	-E <mark>E</mark> IL	GAAG <mark>A</mark> GATTCTA
NPEYDY	AATCCCGAATATGATTAT	NPEYDY	AATCCCGAATATGATTAT
VS DY	GTCAGT GATTAT	VSDY	GTCAGTGATTAT
MMIDP	TTGATGATTGACCCG	MMIDP	TTGATGATTGACCCG
IL-DP	ATTCTT GACCCG	-ILDP	ATTCTTGACCCG
TSTVH	ACCTCGACTGTCCAT	TSTVH	ACCTCGACTGTCCAT
LA - VH	TTGGCT GTCCAT	-LAVH	TTGGCTGTCCAT
TAPPHHR	ACCGCGCCCCGCACCACAGA	TAPPHHR	ACCGCGCCCCGCACCACAGA
RG HD	CGGGGC CATGAC	RGHD	CGGGGCCATGAC
SQPPS	TCCCAGCCGCCTTCA	SQPPS	TCCCAGCCGCCTTCA
QQ-PS	CAGCAG CCTTCA	-Q <mark>Q</mark> PS	CAGCAGCCTTCA
GSVPL	GGCTCAGTGCCACTG	GSVPL	GGCTCAGTGCCACTG
SA-PF	TCTGCACCTTTT	-SAPF	TCTGCACCTTTT
SNPGI	TCTAACCCTGGGATT	SNPGI	TCTAACCCTGGGATT
IQ-NL	ATACAGAACTTA	-IQNL	ATACAGAACTTA
SSTTE	TCCAGTACCACAGAG	SSTTE	TCCAGTACCACAGAG
NN-TE	AATAAC ACCGAG	-NNTE	AATAACACCGAG
TSGET	ACTTC AGGAGAGACT	TSGET	ACTTCAGGAGAGACT
LE-ET	TTGGAA GAGACT	-LEET	TTGGAAGAGACT
CEGPI	TGCGAGGGTCCCATC	CEGPI	TGCGAGGTCCCATC
AR-PI	GCGAGG CCCATC	-ARPI	GCGAGGCCCATC
PLGVGGA	CCCCTCGGGGTGGGCGGGCT	PLGVGGA	CCCCTCGGGGTGGGCGGGCT
EEPS	GAAGAA CCGTCA	EEPS	GAAGAACCGTCA
GSPNR	GGCAGCCCCAACAGG	GSPNR	GGCAGCCCCAACAGG
SS-SR	AGCTCC AGCAGG	-SSSR	AGCTCCAGCAGG
SLGVSK	TCGTTAGGTGTTTCCAAG	SLGVSK	TCGTTAGGTGTTTCCAAG
DLSK	GACCTTTCCAAG	DLSK	GACCTTTCCAAG
SSGRN SD-RN	AGCTCTGGCAGGAAC	SSGRN -SDRN	AGCTCTGGCAGGAAC TCTGACAGGAAC
	TCTGAC AGGAAC		<u> </u>
EVLRDPI SIAI	GAAGTATTAAGAGATCCAATT AGCATTGCAATC	EVLRDPI SIAI	GAAGTATTAAG <mark>AGATC</mark> CAATT AGCATTGCAATC
NSPLCCPE	AACTCCCCGCTCTGCTGCCCTGAA	NSPLCCPE	
SDPE	TCAGAC CCTGAA	SDPE	AACTCCCCGCTCTGCTGCCCTGAA
SSGDL	AGCTCTGGGGACTTG	SSGDL	AGCTCTGGGGACTTG
SE-DL	TCTGAGGACTTA	-SEDL	TCTGAGGACTTA
GFWTG	GGGTTCTGGACAGGT	GFWTG	GGGTTCTGGACAGGT
SP-SR	TCCCCA AGCCGT	-SPSR	TCCCCAAGCCGT
PGEQEELR	CCTGGTGAGCAGGAGGAACTGCGG	PGEQEELR	CCTGGTGAGCAGGAGGAACTGCGG
GALK	GGAGCATTGAAG	GALK	GGAGCATTGAAG
DHCVL	GATCACTGTGTGCTG	DHCVL	GATCACTGTGTGCTG
PY-VL	CCCTAT GTGCTA	-PYVL	CCCTATGTGCTA
SGLPS	AGTGGTCTACCAAGC	SGLPS	AGTGGTCTACCAAGC
EP-PP	GAACCACCACCC	-EPPP	GAACCACCACCC
RARPTR	AGAGCTCGCCCAACGAGA	RARPTR	AGAGCTCGCCCAACGAGA
RTMR	CGCACA ATGAGA	R <mark>TM</mark> R	CGCACAATGAGA
SLDAR	AGCTTGGATGCCCGT	SLDAR	AGCTTGGATGCCCGT
SI-AR	TCGATT GCCCGT	-SIAR	TCGATTGCCCGT
RGVPP	CGTGGCGTGCCTCCG	RGVPP	CGTGGCGTGCCTCCG
VS-PP	GTCTCGCCCCCA	-VSPP	GTCTCGCCCCA
			1

DIGKV	GACATAGGCAAGGTG	DIGKV	GACATAGGCAAGGTG
MV - EV	ATGGTT GAAGTA	-MVEV	ATGGTTGAAGTA
SALER	TCAGCCTTGGAAAGA	SALER	TCAGCCTTGGAAAGA
AS-ER	GCCTCG GAGAGA	- ASER	GCCTCGGAGAGA
VIDLP	GTAATCGACCTTCCA	VIDLP	GTAATCGACCTTCCA
NY-IP	AACTAC ATTCCA	-NYIP	AACTACATTCCA
LLAPLI	CTCCTGGCTCCACTGATC	LLAPLI	CTCCTGGCTCCACTGATC
ALLI	GCTCTACTGATC	ALLI	GCTCTACTGATC
SSPQG	TCGAGCCCCCAGGGA	SSPQG	TCGAGCCCCCAGGGA
SS-QG	AGTTCC CAGGGG	-S <mark>S</mark> QG	AGTTCCCAGGGG
YVFRT	TATGTTTTAGGACC	YVFRT	TATGTTTTAGGACC
GS-RS	GGCTCT CGGAGC	-GSRS	G <mark>GCTCTC</mark> GGAGC
TLLQEP	ACACTGCTGCAGGAGCCT	TLLQEP	ACACTGCTGC <mark>AG</mark> GAGCCT
LLES	CTGCTA GAGTCT	LLES	CTGC <mark>TA</mark> GAGTCT
A PHLSE	GCCCCACACCTCTCAGAA	APHLSE	GCCCCACACCTCTCAGAA
HPSE	CACCCC TCAGAA	HPSE	CACC <mark>C</mark> CTCAGAA
SKFSNDD	TCCAAGTTCAGTAATGATGAC	SKFSNDD	TCCAAGTTCAGTAATGATGAC
SRDD	AGCCGT GATGAC	S <mark>R</mark> DD	AG <mark>CCG</mark> TGATGAC
SRYLY	TCCAGATACCTGTAC	SRYLY	TCCAGATACCTGTAC
ME-VF	ATGGAG GTTTTC	-MEVF	ATGGAGGTTTTC
FKMNHK	TTCAAAATGAACCATAAA	FKMNHK	TTCAAAATGAACCATAAA
KK QK	AAGAAG CAGAAG	KKQK	AAGAAGCAGAAG
COLLV	TGCCAGCTGTTGGTC	C <mark>OL</mark> LV	TGCCAGCTGTTGGTC
LE-LV	CTGGAG TTGGTC	-LELV	CTGGAGTTGGTC
EALPGL	GAGGCCCTGCCAGGTCTG	EALPGL	GAGGCCCTGCCAGGTCTG
PLGL	CCGCTAGGTCTG	PLGL	CCGCTAGGTCTG

	Original Alignment		Better Alignment
MPLLRP	CTGCCGCTCCTGAGGCCT	MPLLRP	CTGCCGCTCCTGAGGCCT
LATR	CTGGCA ACCCGG	LATR	CTGGCAACCCGG
RGPGG	AGGGG <mark>A</mark> CCT <mark>GGG</mark> GGT	RGPGG	AGGGGACCTGGGGGT
RG- <mark>S</mark> G	AGGGG <mark>G</mark> TCTGGG	RG <mark>S</mark> G -	AGGGG <mark>GT</mark> CTGGG
TSTPTPTP	ACTTCAACACCCACTCCAA <mark>CT</mark> CC <mark>A</mark>	TSTPTPTP	ACTTCAACACCCACTCCAACTCCA
TS <mark>I</mark> P	ACTTCAATACCC	TS <mark>I</mark> P	ACTTCAATACCC
PYSSSSS	CCTTATTCTTCCTCTTCCTCT	PYSSSSSS	CCTTATTCTTCCTCTTCTTCCTCT
PYSS	CCTTATTCTTCC	PYSS	CCTTATTCTTCC
CSNITQ	TGCTCCAATATCACTCAG	CSNITQ	TGCTCCAATATCACTCAG
CSSS	TGCTCCAGCTCC	CS <mark>SS</mark>	TGCTCCAGCTCC
MFGGK	ATGTTTGGTGGGAAA	MFGGK	ATGTTTGGTGGGAAA
ML - GR	ATGTTA GGCCGG	MLGR-	ATGTTAGGCCGG
CGLED	TGTGGACTTGAAGAC	CGLED	TGTGGACTTGAAGAC
CE-HG	TGTGAA CATGGA	CEHG-	TGTGAACATGGA
GEEAEA	GGAGAAGAGCCGAAGCA	GEEAEA	GGAGAAGAGCCGAAGCA
GEEA	GGAGAA GAAGC <mark>C</mark>	GEEA	GGAGAAGAGCC
DDEEE	GACGACGAGGAGGAA	DDEEE	GACGACGAGGAG
DD-EE	GACGAC GAGGA <mark>G</mark>	DDEE-	GACGACGAGGAG
SPSSS	TCCCCTAGTAGTAGC	SPSSS	TCCCCTAGTAGTAGC
SP-SS	TCCCCT AGTAGT	SPSS-	TCCCCTAGTAGT
VGVLF	GTTGGCGTGCTTTTC	VGVLF	GTTGGCGTGCTTTTC
HG-WR	CATGGT TGGCGT	HGWR -	CATGGTTGGCGT
MNEKDEK	ATGAATGAAAAGGATGA <mark>G</mark> AA <mark>A</mark>	MNEKDEK	ATGAATGAAAAGGATGAGAAA
MN EK	ATGAATGA <mark>A</mark> AAG	MNEK	ATGAATGAAAAG
GSFSS	GGAAGTTTTTCCTCA	GSFSS	GGAAGTTTTTCCTCA
GR-DF	GGAAGG GATTTC	GRDF -	GGAAG <mark>GGA</mark> TTTC
TRA <mark>A</mark> A	ACCAGGGCTGCCC	TR <mark>A</mark> AA	ACCAGGGCTGCTGCC
TR-TA	ACCAGG ACTGCT	TRTA-	ACCAGG <mark>A</mark> CTGCT
ESGEK	GAGTCCGGCGAGAAA	ESGEK	GAGTCCGGCGAGAAA

RS-RL	AGGAGT CGACTG	RSRL -	AGGAGTCGACTG
TEGPA	ACAGAAGGCCCGGCA	TEGPA	ACAGAAGGCCCGGCA
GE-VL	GGGGAA GTCCTG	GEVL-	GGGGAAGTCCTG
PGEDSRD	CCCGGAGAGGACAGCCGGGAT	PG <mark>E</mark> DSRD	CCCGGAGAGGACAGCCGGGAT
PGKD	CCTGGAAAGGAC	PG <mark>K</mark> D	CCTGGAAAGGAC
VEGEGIVT	GTGGAGGGTGAAGGAATTGTTACT	VEGEGIVT	GTGGAGGGTGAAGGAATTGTTACT
EKAG	GAGAAGGCTGGA	EKAG	GAGAAGGCTGGA
EKEEE	GAGAAGGAAGA <mark>G</mark>	EKEEE	GAGAAGGA <mark>A</mark> GAAGAG
EK-EE	GAGAAG GA <mark>G</mark> GAA	EKEE-	GAGAAGGA <mark>G</mark> GAA
GCGG <mark>G</mark>	GGCTGCGGCGGC <mark>GGT</mark>	GCG <mark>G</mark> G	GGCTGCGGC <mark>G</mark> GCGGT
GC - G <mark>S</mark>	GGCTGC GGC <mark>AGC</mark>	GCG <mark>S</mark> -	GGCTGCGGC <mark>A</mark> GC
ALDD <mark>A</mark>	GCCCT <mark>C</mark> GACGATGCA	ALD <mark>D</mark> A	GCCCTCGACGATGCA
AL - DV	GCCCTTGACGTT	ALD V -	GCCCTTGACGTT
YAT <mark>TQ</mark>	TATGCTACTACGCAA	YA <mark>TT</mark> Q	TATGCT <mark>AC</mark> TACGCAA
YA - <mark>VR</mark>	TATGCTGTTAGG	YA <mark>VR</mark> -	TATGCT <mark>GT</mark> TA <mark>G</mark> G
AAVEV <mark>S</mark>	GCGGCCGTGGAGGTTTCT	AAV <mark>E</mark> VS	GCGGCCGTGGAGGTTTCT
AA VV	GCGGCGGTGGTG	AAVV	GCGGCGGTGGTG
SELSGEQL	TCAGAGCTGTCAGGGGAACAGCTG	SELSGEQL	TCAGAGCTGTCAGGGGAACAGCTG
SDQS	TCGGACCAGTCA	SDQS	TCGGACCAGTCA
AQSS <mark>S</mark> S	GCCCAGTCCTCTTCCTCC	AQ <mark>S</mark> SSS	GCCCAG <mark>T</mark> CCTCTTCCTCC
AQTS	GCCCAGACCTCT	AQTS	GCCCAG <mark>A</mark> CCTCT
ISLGD	ATAAGTTTA <mark>GGGG</mark> AC	ISLGD	ATAAGTTTAGGGGAC
KS-KR	AAAAGT <mark>AAAAGG</mark>	KSKR-	AAAAGTAAAAGG
RATTT	AGAGCAACTACT <mark>ACC</mark>	RAT <mark>T</mark> T	AGAGCAACT <mark>A</mark> CTACC
RA-TP	AGAGCA ACT <mark>CCT</mark>	RAT P -	AGAGCAACT <mark>C</mark> CT
RSSRSR	CGTTCCTCCAGA <mark>AGCCGC</mark>	RSSRSR	CGTTCCTCCAGAAGCCGC
RSSR	CGTTCC <mark>TCCAGA</mark>	RSSR	CGTTCCTCCAGA
REDCM	AGGGAAGAT <mark>TGTATG</mark>	REDCM	AGGGAAG <mark>ATT</mark> GTATG
RE-AG	AGGGAA <mark>GCTGGT</mark>	REAG -	AGGGAAG <mark>CTG</mark> GT
SATTTTT	TCTGCCACCACCACCACTACT	SATTTTT	TCTGCCACCACCACTACT
SATT	TCTGCCACCACC	SATT	TCTGCCACCACC
PPSSS	CCCCCAAGCAGCAGT	PPSSS	CCCCCAAGCAGCAGT
PP-SS	CCCCC <mark>G</mark> AGCAG <mark>C</mark>	PPSS-	CCCCCGAGCAGC
PTPPPP	CCCACTCCTCCACCGCCT	PTPPPP	CCCACTCCTCCACCGCCT
PT PP	CCTACTCCTCCA	PTPP	CCTACTCCTCCA
VERSLT		VERSLT	GTAGAGCGGTCACTCACC
AEQS		AEQS	GCAGAGCAGTCA
PLRKRPRR	CCGCTCCGCAAGAGGCCCCGCCGA	PLRKRPRR	CCGCTCCGCAAGAGGCCCCGCCGA
IFVL	ATTTTTGTGTTG	IFVL	ATTTTTGTGTTG
KTFHFH	AAG <mark>A</mark> CTTTCCATTTCCA <mark>C</mark>	KTFHFH	AAGACTTTCCATTTCCAC
KS FH	AAG <mark>T</mark> CTTTCCA <mark>T</mark>	KSFH	AAGTCTTTCCAT
ALPPP	GCGTTGCCGCCGCCA	ALPPP	GCGTTGCC <mark>G</mark> CCGCCA
AL-PP	GCGTTGCCACCG	ALPP-	GCGTTGCC <mark>A</mark> CCG
APTTT	GCCCCACCACAACT	APTTT	GCCCCACCACAACT
TP-TT	ACCCCC ACCACA	TPTT -	ACCCCCACCACA
PATAATPT	CCTGCCACAGCCGCTACCCCA <mark>ACT</mark>	PA <mark>T</mark> AATPT	CCTGCCACAGCCGCTACCCCAACT
PAPA	CCTGCCCCA <mark>GCC</mark>	PA <mark>P</mark> A	CCTGCCCCAGCC
HLDDD	CACCTTGATGATGAC	HLDDD	CACCTTGATGATGAC
HL-DD	CACCTT GATGAT	HLDD -	CACCTTGATGAT
QPAAA	CAGCC <mark>G</mark> GCGGCGCA	QPAAA	CAGCC <mark>G</mark> GCGGCGCA
QP-AA	CAGCCAGCGGCG	QPAA -	CAGCC <mark>A</mark> GCGGCG
SLGFLPRK		SLGFLPRK	TCCTTGGGCTTCCTGCCTCGCAAG
TIRG		TIRG	ACAATCAGGGGC
KFPIETP	AAATTTCCAATCGAG <mark>ACGCCA</mark>	KFPIETP	AAATTTCCAATCGAGACGCCA
YFSY	TATTTTTCCTAC	YFSY	TATTTTTCCTAC
SFGEE	AGCTTCGGG <mark>G</mark> AGGAA	SF <mark>G</mark> EE	AGCTTC <mark>G</mark> GGGAGGAA
SF-RE	AGCTTC <mark>AG</mark> GGA <mark>G</mark>	SFRE-	AGCTTC <mark>A</mark> GGGAG
QRDES	CAACGAGACGAGTCA	QRDES	CAAC <mark>G</mark> AGACGAGTCA
QQ-AG	CAACAGGCTGGG	QQAG-	CAAC <mark>AGGCT</mark> GGG
			<u> </u>

IACEEE		MACEEE	•
AGEEE		AGEEE	GCAGGAGGAGGAG
AG-EE	GCAGGA GA <mark>G</mark> GAA	AGEE -	GCAGGAGAGAA
HGSSSS	CATGGCTCCAGCTCTTCT	HGSSSS	CATGGCTCCAGCTCTTCT
HGSS	CATGGC TCCAGC	HGSS	CATGGCTCCAGC
EAIGSG	GAGGCAATAGGG <mark>T</mark> CGGGA	EAIGSG	GAGGCAATAGGGTCGGGA
EA TG	GAGGCA ACAGGG	EA <mark>T</mark> G	GAGGCAA <mark>C</mark> AGGG
QAV <mark>MS</mark>	CAGGCTGTGATGAGT	0A <mark>VM</mark> S	CAGGCTGTGATGAGT
QA - DE	CAGGCT GATGAG	QADE -	CAGGCTGATGAG
ESDTA	GAATCCGACACGCA	ESDTA	GAATCCGACACGGCA
			GAATCCATCCTG
ES-IL	GAATCC A <mark>TCCTG</mark>	ESIL-	
KSKKK	AAA <mark>T</mark> CTAAGAAGAA <mark>A</mark>	KSKKK	AAA <mark>T</mark> CTAAGAAGAAA
KP-KK	AAACCT AAGAAG	KPKK-	AAACCTAAGAAG
TTPGTVPA	ACTACCCCAGGGACTGTGCCAGCA	TTPGTVPA	ACTACCCCAGGGACTGTGCCAGCA
THLQ	ACACAC CTCCAG	THLQ	ACACACCTCCAG
QLQQQQQ	CAGCTGCAGCAGCAGCAA	QLQQQQQ	CAGCTGCAGCAGCAGCAA
QLQQ	CAGTTGCAGCAG	QLQQ	CAGTTGCAGCAG
PVFPC	CCCGTGTTCCCTTGC	PVFPC	CCCGTGTTCCCTTGC
PV- <mark>SL</mark>	CCCGTTTCCCTT	PV <mark>SL</mark> -	CCCGTTTCCCTT
GLPTQ	GGATTGCCAAC <mark>TCAA</mark>	GLPTQ	GGATTGCCAACTCAA
GL-T <mark>A</mark>	GGATTG AC <mark>AGCT</mark>	GL <mark>TA</mark> -	GGATTGACAGCT
KPLECG	AAACCTCTTGAGTGCGGC	KPLECG	AAACCTCTTGAGTGCGGC
GT LV	GGGACT CTGGTG	GTLV	GGGACTCTGGTG
LAPPP	TTAGCCCCCCACCG	LAPPP	TTAGCCCCCCACCG
VA-PP	GTAGCTCCCCCA	VAPP-	GTAGCTCCCCCA
TPKKK	A <mark>C</mark> TCCAAAGAAGAAA	TPKKK	ACTCCAAAGAAGAAA
IP-KK	ATTCCA AAGAAG	IPKK-	ATTCCAAAGAAG
PPEEEE	CCTCCCGAGGAAGAGGAG	PPEEEE	CCTCCCGAGGAAGAGGAG
PPEE	CCTCCCGAGGAA	PPEE	CCTCCGAGGAA
TGTQEATQ	ACCGGGACCCAGGAGGCGACCCAA	TGTQEATQ	ACCGGGACCCAGGAGGCGACCCAA
TGTQ	ACCGGGACCCAG	TGTQ	ACCGGGACCCAG
SSLPP	TCTTCCCTGCCTCCA	SSLPP	TCTTCCCTGCCTCCA
SS- <mark>Q</mark> P	TCTTCC CAGCCT	SS <mark>Q</mark> P-	TCTTCCCAGCCT
Q QPPP	CAGCAGCCGCCG	Q QPPP	CAGCAGCCGCCA
PQ-PP	CCGCAG CCACCG	PQPP-	CCGCAGCCACCG
HTPPP	CACACACCGCCGCCC	HTPPP	CACACACCGCCGCCC
HS-PP		HSPP-	CACTCACCACCG
CWNLSL	TGCTGGAACCTGTCTCTA	CWNLSL	TGCTGGAACCTGTCTCTA
		CWNLSL CWSL	
CWSL	TGCTGGAGCCTG		TGCTGGAGCCTG
GSGGG	GGTAGTGGCGTGGC	GSGGG	GGTAGTGGCGGTGGC
GS-GG	GGTAGT GGCGGT	GSGG-	GGTAGTGGCGGT
EQEEEEE	GAACAGGAGGAGGAGGAA	EQEEEEE	GAACAGGAGGAGGAGGAA
EQEE	GAACAGGAGGAG	EQEE	GAACAGGAGGAG
EEEEENEE	GAGGA <mark>G</mark> GAAGAGGAAAATGA <mark>G</mark> GA <mark>A</mark>	EEEEENEE	GAGGAGGAAGAGGAAAATGAGGAA
EEEE	GAGGAAGAAGAG	EEEE	GAGGAAGAAGAAAA TAAGAAA
AEEEDEE	GCAGAGGAGGAAGATGAAGAG	AEEEDEE	GCAGAGGAGGAAGATGAAGAG
AEEE	GCAGAGGA <mark>G</mark> GAA	AEEE	GCAGAGGAGGAA
QRFNS	CAGCGGTTCAATAGC	QRFNS	CAGCGGTTCAATAGC
PR-AV	CCGAGG GCGGTT	PRAV -	CCGAGGCGGTT
EQDDD	GAGCAAGACGACGAT	EQDDD	GAGCAAGACGACGAT
EQ-DD	GAGCAA GATGAC	EQDD -	GAGCAAGATGAC
PGLLL	CCAGGGCTACTTCTA	PGLLL	CCAGGGCTACTTCTA
PG-LL	CCAGGG CTCCTT	PGLL-	CCAGGGCTACTTCTA
KDGPGKA	AAAGATGGGCCGGGAAAGGCT	KDGPGKA	AAAGATGGGCCGGGAAAGGCT
KD EL	AAAGAT GAGCTG	KD <mark>EL</mark>	AAAGATG <mark>A</mark> GCTG
ISGPGP	ATTTCAGGCCCAGGCCCG	ISGPGP	ATTTCAGGCCCAGGCCCG
ISGP	ATTTCAGGCCC <mark>A</mark>	ISGP	ATTTCAGGCCCA
GAESR	GGTGCCGAAAGCAGA	GAESR	GGTGCCGAAAGCAGA
NV - AN	AATGTGGCTAAC	NVAN-	AATGTGGCTAAC
PDEEE	CCTGATGAAGAAGAG	PDEEE	CCTGATGAAGAAGAG
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i.		mant.euge.re	•
PD-EE	CCTGAT GAAGAA	PDEE-	CCTGATGAAGAA
KQEEE	AAACAAGAAGAA <mark>G</mark> AG	KQE <mark>E</mark> E	AAACAAGAAGAAGAG
KQ-EK	AAACAA GAA <mark>A</mark> A <mark>A</mark>	KQE <mark>K</mark> -	AAACAAGAA <mark>A</mark> AA
RAGGG	CGAGCTGGAGGCGG	RAGGG	CGAGCTGGAGGCGGG
RA-GG	CGAGCT GG <mark>A</mark> GG <mark>C</mark>	RAGG-	CGAGCTGGAGGC
KLSTS	AAGCTGAGCACAAGC	KLSTS	AAGCTGAGCACAAGC
KL-TT	AAGCTG ACCACA	KL <mark>T</mark> T-	AAGCTGACCACA
HESSS	CACGAGAGCAGT	HESSS	CACGAGAGCAGCAGT
RE-CS	CGCGAGTGCAGC	RECS-	CGCGAGTGCAGC
ANMIS	GCCAATATGATATCC	ANMIS	GCCAATATGATATCC
AS-IR	GCCAGT ATTAGA	ASIR-	GCCAGTATTAGA
DWSNS DW-NN	GATTGGAGCAACTCT	DW <mark>S</mark> NS DW <mark>N</mark> N -	GATTGGA <mark>G</mark> CAACTCT GATTGGA <mark>A</mark> CAAC
	GATTGGAACAAC		
THRDRD	ACACATAGAGATAGAGAC	THRDRD	AC
THRD	ACACAC AGAGAT	THRD	ACACACAGAGAT
MSAAA	CTGAGCGCAGCGGCC	MSAAA	CTGAGCGCAGCGGCC
LS-AA	CTGAGC GC <mark>A</mark> GC <mark>G</mark>	LSAA-	CTGAGCGCAGCG
ETEEE	GAGACAGAGGAAGAG	ETEEE	GAGACAGAGGAAGAG
ET-EE	GAGACA GA <mark>G</mark> GA <mark>A</mark>	ETEE-	GAGACAGAGGAA
YDIAN	TACGACATCGCTAAC	YDIAN	TA <mark>C</mark> GACATCGCTAAC
YD - NT	TATGAC AACACT	YD <mark>NT</mark> -	TATGACAACACT
GGGGAGG	GGCGGCGGCGCGGCGA	GGGGAGG	GGCGGCGCGGCGGGCGA
GG A G	GGCGGCG <mark>CG</mark> GGC	GGAG	GGCGGCG <mark>CG</mark> GGC
PNTPTT	CCAAACACGCCAACCACG	PNTPTT	CCAAACACGCCAACCACG
PNAS	CCAAAC GCATCA	PNAS	CCAAACGCATCA
EKERER	GAAAAAGAACGGGAGCGA	EKERER	GAAAAAGAACGGGAGCGA
EKER	GAAAAA GAACGG	EKER	GAAAAAGAACGG
SGASAS	AGCGGTGCCAGCCCAGT	SGASAS	AGCGGTGCCAGCGCCAGT
SGAS	AGCGGT GCTAGC	SGAS	AGCGGTGCTAGC
SKEEE	AGCAAAGAGGAAGAG	SKEEE	AGCAAAGAGGAAGAG
SK-EE	AGCAAAGAGGAA	SKEE-	AGCAAAGAGGAA
EKEEE	GAGAAGGAAGGAA	EKEEE	GAGAAGGAAGAGAA
EK-EE	GAGAAG GA <mark>A</mark> GAG	EKEE-	GAGAAGGAAGAG
GDGGG	GGTGACGGCGGCGG	GDGGG	GGTGACGGCGGG
GD - GG	GGCGATGGCGGC	GDGG-	GGCGATGGCGGC
VGDDD	GTGGGGATGAC	VGDDD	GTGGGGATGAC
VG-DD	GTGGGG GATGAC	VGDD -	GTGGGGATGAC
GTAAA	GGCACCGCCGCA	GTAAA	GGCACCGCCGCA
GT-AA	GGCACC GCCGCC	GTAA-	GGCACCGCCGCC
EGEEE	GAAGGGAGGAA	EGEEE	GAAGGGAGGAA
EG-EE	GAAGGG GAGGAG	EGEE-	GAAGGGAGGAG
EGEEE	GAGGGAGAGA <mark>G</mark>	EGEEE	GAGGGAGAGAG
EG-EE	GAGGGA GA <mark>G</mark> GAA	EGEE-	GAGGGAGAGGAA
PAPPPP	CCGGCTCCACCTCCACCC	PAPPPP	CCGGCTCCACCTCCACCC
PAPP	CCGGCCCCACCT	PAPP	CCGGCCCCACCT
LPAGEVAG	CTTCCTGCTGGTGAAGTGGCCGGC	LPAGEVAG	CTTCCTGCTGGTGAAGTGGCCGGC
LPAG	CTTCCTGCTGGT	LPAG	CTTCCTGCTGGT
KSLPL0	AAGTCACTACCACTGCAG	KSLPLQ	AAGTCACTACCACTGCAG
ESLA	GAGTCC CTGGCA	ESLA	GAGTCCCTGGCA
YYAAA	TACTACGCCGCGGCA	YYAAA	TACTACGCCGCGCA
TY-AA	ACCTAC GCCGCG	TYAA-	ACCTACGCCGCG
AGAAAA	GCAGGGGGGGGGGGGA	AGAAAA	GCAGGGGCGGCGCA
AGAA	GCGGGG GCAGCG	AGAA	GCGGGGCAGCG
DYGGG	GACTACGGAGGTGGA	DYGGG	GACTACGGAGGTGGA
EY-GG	GAGTAC GGCGGT	EYGG-	GAGTACGGAGGTGGA
		EDNKENK	
EDNKENK	GAAGACAACAAGGAGAACAAA	EDNKENK EDNK	GAAGACAACAAGGAGAACAAA GAAGACAACAAG
EDNK	GAAGACAACAAG		
SQSGSG	TCCCAGTCAGGGTCAGGA	SQSGSG	TCCCAGTCAGGGTCAGGA
SQSG	TCACAGTCAGGG	SQSG	TCACAGTCAGGG
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EEKNKN	GAAGAAAAGAACAAGAAT	EEKNKN	GAAGAAAAGAACAAGAAT
EKKN	GAA <mark>A</mark> AA AAGAA <mark>C</mark>	EKKN	GAA <mark>A</mark> AAAAGAAC
EGPAK	GAAGGACCAGCAAAG	EGPAK	GAAGGACCAGCAAAG
EG-LS	GAAGGA CTCTCA	EGLS-	GAAGGACTCTCA
ASTTT	GCATCCACCACCACT	ASTTT	GCATCCACCACCACT
AS-TT	GCATCTACCACC	ASTT-	GCATCTACCACCACT
HPEEE	CACCCGGAAGAGGAA	HPEEE	CACCCGGAAGAGGAA
HP-EE	CACCCG GAAGAG	HPEE-	CACCCGGAAGAG
DDEEE	GATGATGAAGAAGA <mark>G</mark>	DDEEE	GATGATGAAGAAGAG
DD-EE	GATGAT GAAGA <mark>A</mark>	DDEE-	GATGATGAAGAA
AEEDED	GCGGAAGAGGACGAGGAT	AEEDED	GCGGAAGAGGACGAGGAT
AE ED	GCCGAGGAGGAC	AEED	GCCGAGGAGGAC
VIPPP	GTTATTCCACCTCCC	VIPPP	GTTATTCCACCTCCC
VI-PP	GTTATTCCACCTCCC	VIPP-	GTTATTCCACCTCCC
DEEDED	GATGA <mark>A</mark> GAGGATGAGGA <mark>C</mark>	DEEDED	GATGAAGAGGATGAGGAC
DEED	GATGAGGAGGAT	DEED	GATGAGGAGGAT
KKNKG	AAGAAAAT <mark>A</mark> AAGGG	KKNKG	AAGAAAATAAAGGG
KE-QT	AAGGAA CAGACA	KEQT-	AAGGAACAGACA
RFWGL	CGCTTCTGGGGACTG	RFWGL	CGCTTCTGGGGACTG
RF-KE	AGATTC AAAGAA	RFKE-	AGATTCAAAGAA
STPPPPP	TCCACCCGCCCCGCCG	STPPPPPP	TCCACCCGCCCCGCCCGCCG
STPP	TCCACCCCTCCC	STPP	TCCACCCCTCCC
PGVPS	CCCGGCGTGCCGTCC	PGVPS	CCCGGCGTGCCGTCC
RD-RL	CGTGAC CGTCTG	RDRL -	CGTGACCGTCTG
GNSPPASE	GGAAACAGCCCTCCAGCCAGTGAG	GNSPPASE	GGAAACAGCCCTCCAGCCAGTGAG
GNSS	GGAAACAGCTCT	GNSS	GGAAACAGCTCT
GSGGG	GGATCCGGGGGAGGC	GSGGG	GGATCCGGGGGAGGC
GS-GG	GGATCTGG <mark>G</mark> GGA	GSGG-	GGATCTGGGGGA
MLAAA	CTGCTGGCTGCCC	MLAAA	CTGCTGGCTGCC
LL-AA	CTTCTGGCTGCT	LLAA-	CTTCTGGCTGCT
PYAQAQ	CCATATGCTCAGGCTCAA	PYAQAQ	CCATATGCTCAGGCTCAA
PY AQ	CCATATGCCCAG	PYAQ	CCATATGCCCCAG
	TTTTCAGAAGTAGCACGC		TTTTCAGAAGTAGCACGC
FSEVAR		FSEVAR	
FGIA	TTCGGAATAGCA	FGIA	TTCGGAATAGCA
KKEEEEEE		K KEEEEEE	AAAAAGAAGAAGAAGAGGAGGAG
IKEE	ATAAAAGAAGAA	IKEE	ATAAAAGAAGAA
KHQGSRK	AAGCACCAAGGCTCTAGGAAG	KHQGSRK	AAGCACCAAGGCTCTAGGAAG
KHKR	AAGCACAAACGC	KHKR	AAGCACAAACGC
HFLLL	CACTTCTTGTTGTTA	HFLLL	CACTTCTTGTTGTTA
HF-LL	CACTTCTTGTTG	HFLL-	CACTTCTTGTTGTTA
GLGSQ	GGGCTCGGTTCACAG	GLGSQ	GGGCTCGGTTCACAG
GL-S <mark>S</mark>	GGTCTC AGTTCA	GL <mark>S</mark> S-	GGTCTCAGTTCA
RGIRSR	CGGGGAATCCGAAGTCGG	RGIRSR	<pre>CGGGGAATCCGAAGTCGG</pre>
GGSR	GGGGGA AGCCGA	GGSR	GGGGGAAGCCGA
ATAAA	GCGACCGCGGCGCC	ATAAA	GCGACCGCGGCGCC
AT-AA	GCGACC GCGGCG	ATAA-	GCGACCGCGGCG
SAQQQ	AGCGCGCAGCAGCAA	SAQQQ	AGCGCGCAGCAG
SA-QQ	AGCGCG CAGCAG	SAQQ-	AGCGCGCAGCAG
KVRTV	AAG <mark>GTG</mark> AGG <mark>ACTGTG</mark>	KVRTV	AAGGTGAGGACTGTG
KI-VA	AAGATC GTGGCT	KIVA-	AAGATCGTGGCT
PEAAA	CCAGAGGCAGCGGCA	PEAAA	CCAGAGGCAGCGGCA
SE-AA	TCAGAG GCAGCG	SEAA-	TCAGAGGCAGCG
KHCDQ	AAACATTGTGACCAA	KHCDQ	AAACATTGTGACCAA
KY-GV	AAGTAC GGAGTC	KYGV -	AAGTACGGAGTC
FGTKY	TTTGGGACAA <mark>AAT</mark> AC	FGTKY	TTTGGGACAAAATAC
FG-RQ	TTTGGGA <mark>GGC</mark> AA	FGRQ-	TTTGGGA <mark>GGC</mark> AA
SDKKT	AGTGACAAAAAACT	SDKKT	AGTGACAAAAAAACT
PV-RE	CCTGTC AGAGAA	PVRE -	CCTGTCAGAGAA
ETPAA	GAAACTCCTGCAGCC	ETPAA	GAAACTCCTGCAGCC
LII AA	OAAAC I CC I UCAUCC		ONANC I CC I GCAGCC

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ET-SA	GAAACG TCTGCA	ETSA-	GAAAC <mark>GT</mark> CTGCA
SDAGQRAA	TCGGACGCCGGCCAGCGCGCCGCT	SDAGQRAA	TCGGACGCCGGCCAGCGCCGCT
SD GG	TCGGACGGCGGC	SDGG	TCGGACGGCGGC
EDEDD	GAAGACGAGGACGAT	EDEDD	GAAGACGAGGACGAT
ED-ED	GAAGAC GAGGAC	EDED-	GAAGACGAGGAC
SGAGS	TCAGGTGCTGGAAGT	SGAGS	TCAGGTGCTGGAAGT
SG-GG	TCAGGTGGTGGA	SGGG-	
			TCAGGTGGTGGA
PGSSS	CCAGGCAGCAGT	PGSSS	CCAGGCAGCAGT
PG-SS	CCAGGC AGCAGC	PGSS-	CCAGGCAGCAGC
RSGLL	CGCAGCGGTCTGCTA	RSGLL	CGCAGC <mark>GGT</mark> CTGCTA
RS-RL	CGCAGC CGCCTG	RS <mark>R</mark> L-	CGCAGCCGCCTG
QRQQQ	CAGCGGCAGCAA	QRQQQ	CAGCGGCAGCAA
QR-QQ	CAGCGG CAGCA <mark>G</mark>	QRQQ-	CAGCGGCAGCAG
GKQLQT	GGGAAACAACTGCAGACT	GKQLQT	GGGAAACAACTGCAGACT
GSAR	GGGTCGGCCCGG	GSAR	GGGTCGGCCCGG
YQEEE	TACCAGGAAGAGGAA	YQEEE	TACCAGGAAGAGAA
YQ-EE	TACCAGGAAGAG	YQEE-	TACCAGGAAGAG
		OGTPGA	
QGTPGA	CAAGGAACCCCCGGGGCT		CAAGGAACCCCCGGGGCT
QGAL	CAAGGAGCCCTC	QGAL	CAAGGAGCCCTC
PCPPPPP	CCATGCCCACCACCACCT	PCPPPPP	CCATGCCCACCACCACCT
PC PP	CCATGCCCACCA	PCPP	CCATGCCCACCA
HSDHDDH	CACAGTGACCATGATGACCAC	HSDHDDH	CACAGTGACCATGATGACCAC
HS DH	CACAGT GACCAT	HSDH	CACAGTGACCAT
IYPLLLL	ATTTACCCCCTGTTGCTGCTA	IYPLLLL	ATTTACCCCCTGTTGCTGCTA
V Y LL	GTCTACCTCCTG	V YLL	GTCTACCTCCTG
ENREWVRA	GAGAATCGTGAGTGGGTTCGTGCT	ENREWVRA	GAGAATCGTGAGTGGGTTCGTGCT
ENLL	GAGAAT CTCCTG	ENLL	GAGAATCTCCTG
GSAAAA	GGCTCCGCCGCTGCCGCC	GSAAAA	GGCTCCGCCGCTGCCGCC
GSAA	GGCTCC GCCGCT	GSAAAA GSAA	GGCTCCGCCGCT
LKDARS	CTCAAGGATGCTCGTTCG	LKDARS	CTCAAGGATGCTCGTTCG
LQKV	TTACAAAAGGTT	LQKV	TTACAAAAGGTT
GQADADAD	GGACAGGCTGATGCTGACGCTGAC	GQADADAD	GGACAGGCTGATGCTGACGCTGAC
EQ AD	GAGCAGGCTGAT	E QAD	GAGCAGGCTGAT
FDYGEEHS	TTTGACTATGGAGAGGAGCATTCG	FDYGEEHS	TTTGACTATGGAGAGGAGCATTCG
LD H G	TTGGATCACGGA	LDHG	TTGGATCACGGA
AEEPAL	GCCGAGGAACCAGCCCTG	AEEP AL	GCCGAGGAACCAGCCCTG
GE AT	GGAGAAGCAACA	GEAT	G <mark>GA</mark> GA <mark>AGC</mark> AACA
EVWKAEDT	GAGGTCTGGAAGGCAGAGGACACT	EVWK AEDT	GAGGTCTGGAAGGCAGAGGACACT
KVTE	AAGGTCACCGAG	KVTE	AAGGTCACCGAG
RQSVDS	AGACAGAGTGTGGATTCT	RQSVDS	AGACAGAGTGTGGATTCT
EKQE	GAAAAA CAAGAG	EKQE	GAAAACAAGAG
FAHHH	TTTGCCCACCACCAT	FAHHH	TTTGCCCACCACCAT
FA-HH	TTTGCCCACCACCAT	FAHH-	TTTGCCCACCACCAT
SREEE	TCAAGAGAGGAAG	SREEE	TCAAGAGAGAAGAG
SR-EE	TCAAGA GAGGAA	SREE-	TCAAGAGAGAA
AITSKDNN	GCCATCACTTCAAAAGACAATAAC	AITSKDNN	GCCATCACTTCAAAAGACAATAAC
AV NS	GCTGTCAATTCA	A <mark>VN</mark> S	GCTGTCAATTCA
QDPPP	CAGGATCCTCCTCCG	QDPPP	CAGGATCCTCCTCCG
QD - PP	CAGGAT CCTCCT	QDPP-	CAGGATCCTCCT
LRDYE	CTTAGGGACTATGAG	LRDYE	CTTAGGGACTATGAG
LR-AS	CTCAGG GCCTCT	LR <mark>AS</mark> -	CTCAGGGCCTCT
DPSRAPS	GACCCCTCTAGAGCCCCCTCT	DPS RAPS	GACCCCTCTAGAGCCCCCTCT
EPIR	GAACCC ATTCGA	EPIR	GAACCCATTCGA
WTWRP	TGGACATGGAGGCCC	WTWRP	TGGACATGGAGGCCC
WA-RV	TGGGCC CGCGTG	WARV -	TGGGCCCGCGTG
	<u> </u>		
ATAAA	GCTACT CCTCCT	ATAAA	GCTACTGCTGCT
AT-AA	GCTACTGCTGCT	ATAA-	GCTACTGCTGCT
HHQQQ	CATCACCAGCAACAG	HHQQQ	CATCACCAGCAACAG
HH - <mark>H</mark> Q	CACCAC CACCAA	HH <mark>H</mark> Q -	CACCACCAA
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SWEDED	AGTTGGGAGGACGA <mark>A</mark> GA T	SWEDED	AGTTGGGAGGACGAAGAT
IWED	ATTTGGGAGGAC	TWED	ATTTGGGAGGAC
SDSSS	TCGGACTCCAGCTCG	SDSSS	TCGGACTCCAGCTCG
SD-SS	TCAGAC TCCAGC	SDSS-	TCAGACTCCAGC
SISSSS	TCCATCTCCTCGTCCTCC	SISSSS	TCCATCTCCTCGTCCTCC
SISS	TCCATC TCCTCG	SISS	TCCATCTCCTCG
EPAPEAP	GAGCCAGCACCTGAAGCCCCA	EPAPEAP	GAGCCAGCACCTGAAGCCCCA
EPAP	GAGCCAGCTCCT	EPAP	GAGCCAGCTCCT
AMAAA	GCCATGGCTGCC	AMAAA	GCCATGGCTGCC
AM - AA	GCCATG GCTGCT	AMAA -	GCCATGGCTGCT
EHEEE	GAACACGAGGAGGAA	EHEEE	GAACACGAGGAGGAA
GH-EE	GGGCAC GAGGAG	GHEE-	GGGCACGAGGAG
MMSSS	ATGATGTCCAGTTCA	MMSSS	ATGATGTCCAGTTCA
MV-SS	ATGGTGTCCAGT	MVSS -	ATGGTGTCCAGT
QQQPQ <mark>Q</mark>	CAGCAGCAGCAG	QQQ <mark>P</mark> QQ	CAGCAGCAGCAGCAG
QQ Q T	CAGCAG CAG <mark>ACA</mark>	QQQT	CAGCAGCAGACA
HRQQQQ	CATCGACAGCAGCAA	HRQQQQ	CATCGACAGCAGCAA
HRQQ	CATCGACAGCAG	HRQQ	CATCGACAGCAG
HPEEE	CACCCGGAAGAGGAA	HPEEE	CACCCGGAAGAGGAA
HP-EE	CACCCGGA <mark>A</mark> GAG	HPEE-	CACCCGGAAGAG
GIVAK	GGCATTGTGGCCAAG	GIVAK	GGCATTGTGGCCAAG
NL-GG	AACCTT GGAGGC	NLGG-	AACCTTGGAGGC
EEAAA	GAGGAG	EEAAA	GAGGAGGCGCGCA
EE-AV	GAGGAG GCTGTG	EEAV-	GAGGAGGC <mark>T</mark> GTG
GSHHL	GGCAGCCACCTT	GSHHL	GGCAGCCACCTT
SS-HC	TCCTCT CACTGC	SSHC-	TCCTCTCACTGC
NANREK	AACGCTAATCGAGAGAAG	NANREK	AAC <mark>G</mark> CTAATCGAGAGAAG
NT DV	AACACT GATGTA	NTDV	AACACTGATGTA
GQSRS <mark>S</mark>	GGACAAAGCAGGAGCTCC	GQSRSS	GGACAAAGCAGGAGCTCC
GQ SG	GGACAA AGCGGG	GQS <mark>G</mark>	GGACAAAGCGGG
		LVPSS	
LVPSS	TTAGTTCCTTCTCC TCAGTT CATTCT	SVHS-	TTAGTTCCTTCTCC
SV-HS			TCAGTTCATTCT
MPDDQ	CTGCCAGATGACCAA	MPDDQ	CTGCCAGATGACCAA
LL-DA	CTACTG GATGCC	LLDA-	CTACTGGATGCC
PYPQPQ	CCTTACCCTCAGCCTCAA	PYPQPQ	CCTTACCCTCAGCCTCAA
A Y PQ	GCTTAC CCTCAG	AYPQ	GCTTACCCTCAG
QTTPGP	CAGACAACTCCAGGACCT	QTTPGP	CAGACAACTCCAGGACCT
QS AP	CAGTCAGCTCCA	QSAP	CAGTCAGCTCCA
MKVEK	TTGAAGGTGGAGAAA	MKVEK	TTGAAGGTGGAGAAA
LK-EE	CTGAAG GAAGAG	LKEE-	CTGAAGGAAGAG
YGEEC	TATGGGAAGAGTGC	YGEEC	TATGGGGAAGAGTGC
YG- <mark>GV</mark>	TATGGG GGAGTG	YG <mark>GV</mark> -	TATGGGGGAGTG
GPGVRT	GGTCCTGGAGTCAGAACT	GPGVRT	GGTCCTGGAGTCAGAACT
GPR <mark>V</mark>	GGTCCTAGAGTC	GP <mark>R</mark> V	GGTCCTAGAGTC
PPTTT	CCGCCTACAACCACA	PPTTT	CCGCCTACAACCACA
PP-TT	CCGCC <mark>C</mark> ACAAC <mark>C</mark>	PPTT-	CCGCCCACAACC
POPPPPP	CCGCAGCCACCGCCGCCACCA	POPPPPP	CCGCAGCCACCGCCGCCACCACCA
PQ AP	CCGCAGGCACCG	PQAP	CCGCAGGCACCG
		ITRDK	
ITRDK	ATCACCAGGGATAAG		ATCACCAG <mark>GGA</mark> TAAG
IT-SG	ATCACC AGCGGT	ITSG-	ATCACCAG <mark>CGG</mark> T
YLEWIGOD	TATTTGGAGTGGATAGGTCAGGAC	YLEWIGQD	TATTTGGAGTGGATAGGTCAGGAC
YF AR	TACTTCGCCCGG	YFAR	TACTTCGCCCGG
SELLL	TCTGAGCTCCTGCTT	SELLL	TCTGAGCTCCTGCTT
SE-LL	TCTGAGCTCCTG	SELL-	TCTGAGCTCCTG
ISEEEEE	ATCTCAGAAGAAGAGGAAGAG	ISEEEEEE	ATCTCAGAAGAAGAGGAGGAAGAG
VSKE	GTCTCAGAAGAAGAGGAGGAAGAG	VSKE	GTCTCAAAAGAA
SSEEE	TCCAGTGAGGAAGAG	SSEEE	TCCAGTGAGGAAGAG
SS-EE	TCCAGT GA <mark>G</mark> GAA	SSEE-	TCCAGTGAGGAA
QREKEKEK	CAGCGGGAGAAGGAGAAA	QREKEKEK	CAGCGGAGAAGGAGAAA
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QREK	CAG <mark>A</mark> GGGAGAA <mark>G</mark>	QREK	CAGAGGGAGAAG
RRHDQHD	CGACGGCATGACCAGCATGAT	RRHDQHD	CGACGCATGACCAGCATGAT
RRHD	CGA <mark>A</mark> GGCATGA <mark>C</mark>	RRHD	CGAAGGCATGAC
GEAAA	GGGGAAGCGGCCGCT	GEAAA	GGGGAAGCGGCCGCT
GE - AA	GGGGAA GC <mark>G</mark> GCC	GEAA-	GGGGAAGCGGCC
APGDD	GCACCTGGAGACGAT	APGDD	GCACCTGAGACGAT
GP-ED	GGGCCT GAAGAC	GPED -	GGGCCTGAAGAC
NKQQQQ	AACAAGCAGCAGCAA	NKQQQQ	AACAAGCAGCAG
NK QQ	AACAAGAGAGAGTTATG	NKQQ	AACAAGCAGCAGTTATG
QNRVI QS-TD	CAGAACAGA <mark>GTTATC</mark> CAGAGC ACAGAT	QNRVI QSTD-	CAGAACAGAGTTATC CAGAGCACAGAT
GSEEE	GGCTCTGAGGAAGAG	GSEEE	GGCTCTGAGGAAGAG
GS-EE	GGCTCTGAGGAAGAG GGCTCTGAGGAA	GSEE-	GGCTCTGAGGAAGAG
SSGGG	AGCTCAGGTGGCGGT	SSGGG	AGCTCAGGTGGCGGT
SS-GG	AGCTCC GGTGGC	SSGG-	AGCTCCGGTGGC
EDLELWSK	GAAGACTTAGAGCTTTGGTCAAAA		GAAGACTTAGAGCTTTGGTCAAAA
KD SE		KDSE	AAAGACTCAGAG
NSRQP	AACTCCAGGCAGCCA	NSRQP	AACTCCAGGCAGCCA
DS-ML	GACTCC ATGCTG	DSML -	GACTCCATGCTG
AAVGGSGG	GCTGCAGTAGGGGGCAGCGGCGGT	AA <mark>V</mark> GGSGG	GCTGCAGTAGGGGGCAGCGGCGGT
AA GG		AA <mark>G</mark> G	GCTGCAGGAGGG
NTLPH	AACACGCTACCCCAT	NTLPH	AACACGCTACCCCAT
AT - PS	GCTACC CCATCC	ATPS-	GCTACCCCATCC
S PRGA	TCACCAAGAGGTGCG	SPR GA	TCACCA <mark>A</mark> GAGGTGCG
LP-GG	TTACCA GGAGGT	LPGG-	TTACCAGGAGGT
XAGXYXR	NTGGCCGGGNTCTACANTCGN	XAGXYXR	NTGGCCGGGNTCTACANTCGN
CRVY	TGCCGAGTCTAC	CRVY	TGCCGAGTCTAC
GFIRDGIS	GGGTTCATCAGGGATGGGATCAGC	GFIR DGIS	GGGTTCATCAGGGATGGGATCAGC
AL VG		ALVG	GCGCTCGTTGGG
LRGPE	CTTCGGGGGCCAGAG	LRGPE	CTTCGGGGGCCAGAG
LR-DR	CTTCGG <mark>GACAGA</mark>	LRDR -	CTTCGGGACAGA
MLLPLT	TTGCTGTTGCCTTTGACA	MLLPLT	TTGCTGTTGCCTTTGACA
LLLL	TTGCTGTTGCTT	LLLL	TTGCTGTTGCTT
MTGGG LT-GG	TTGACAGGAGGAGGT TTGACA GGAGGA	MTGGG LTGG-	TTGACAGGAGGAGGT TTGACAGGAGGA
KPPGAG <mark>A</mark> G KP S G		KPSG	AAGCCCCCGGGTGCGGGC AAGCCCTCGGGT
QCLLQ	CAATGTTTGCTTCAA	QCLLQ	CAATGTTTGCTTCAA
HC-LS	CACTGT TTGAGT	HCLS-	CACTGTTTGGTTCAA
ASSGGS	GCGAGCAGCGGAGGCAGT	ASSGGS	GCGAGCAGCGGAGGCAGT
AS GG	GCGAGCGGCGGA	ASGG	GCGAGCGGCGGA
GGHKQPN	GGAGGCCACAAACAACCTAAC	GGHKQPN	GGAGGCCACAAACAACCTAAC
GG PK	GGAGGCCCCAAA	GGPK	GGAGGCCCCAAA
TSGKK	ACTTCTGGCA <mark>AG</mark> AA <mark>A</mark>	TS <mark>G</mark> KK	ACTTCTGGCAAGAAA
TS-SK	ACTTCT A <mark>GC</mark> AA <mark>G</mark>	TS <mark>S</mark> K-	ACTTCTAGCAAG
WMLAV	TGGATGCTCGCGGTC	WMLAV	TGGATGCTCGCGGTC
WM - <mark>PS</mark>	TGGATG CCCTCG	WM <mark>PS</mark> -	TGGATGCCCTCG
GDAANAA	GGGGATGCTGCGAATGCTGCA	GDAANAA	GGGGATGCTGCGAATGCTGCA
GD AA	GG <mark>A</mark> GAT GCTGC <mark>G</mark>	GDAA	GGAGATGCTGCG
HHGED	CATCACGGAGAGGAC	HHGED	CATCACGGAGAGGAC
HH-EE	CATCAT GAAGAG	HHEE-	CATCATGAAGAG
EEKKK	GAGGAGAAAAAG	EEKKK	GAGGAGAAAAAAA
EE-RK	GAGGAG AGAAAA	EERK-	GAGGAGAGAAAA
RRHFF	AGAAGA TATTIC	RRHFF	AGAAGATATTTC
RR-YF	AGAAGA TATTTC	RRYF-	AGAAGATATTTC
RDEPEP QD EP	CGGGATGAGCCTGAGCCA CAGGAC GAGCCT	RDEPEP QDEP	CGGGATGAGCCTGAGCCA CAGGACGAGCCT
VPGGG	GTTCCTGGAGGAGGG	VPGGG	GTTCCTGGAGGAGGG
VPGGG VP-GG	GTTCCTGGAGGAGGGGGGTTCCTGGAGGA	VPGGG-	GTTCCTGGAGGAGGG
 		 	

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AESSS	GCAGAGTCTTCATCT	AESSS	GCAGAGTCTTCATCT
AE-SS	GCAGAGTCTTCA	AESS-	GCAGAGTCTTCA
SDIENE EDAE	TCGGATATTGAGAACGAA GAAGAC GCAGAG	SDIENE EDAE	TCGGATATTGAGAACGAA GAAGACGCAGAG
ESEEDEE	GAGAGTGAAGAAGACGA <mark>G</mark> GA <mark>G</mark>	ESEEDEE	GAGAGTGAAGAAGACGAGGAG
ES EE	GAGAGT GAAGAA	ESEE	GAGAGTGAAGAA
GVNSS	GGTGTGAACAGTAGC	GVNSS	GGTGTGAACAGTAGC
GV-SS	GGTGTGAGCAGT	GVSS-	GGTGTGAGCAGT
LHVVA	CTCCATGTGGTGGCA	LHVVA	CTCCATGTGGTGGCA
LR-VE	CTCCGT GTGGAG	LRVE-	CTCCGTGTGGAG
DSEEEEE	GATTCGGAAGAGGAGGAGGAA	DSEEEEE	GATTCGGAAGAGGAGGAA
DSEE	GATTCGGAAGAG	DSEE	GATTCGGAAGAG
GNPKA	GGAAACCCCAAAGCC	GNPKA	GGAAACCCCAAAGCC
GT-RQ	GGAACC CGCCAA	GTRQ-	GGAACCCGCCAA
EDDGYDE	GAAGATGATGGTTATGATGAA	EDDGYDE	GAAGATGATGGTTATGATGAA
ED ES	GAAGAT GAGTCT	EDES	GAAGATGA <mark>GTC</mark> T
ASRNEHR	GCCTCACGTAATGAACACAGA	ASRNEHR	GCCTCACGTAATGAACACAGA
AL HN	GCCTTACATAAT	ALHN	GCCTTACATAAT
YEYFDNV	TATGAGTACTTTGACAACGTA	YE <mark>YF</mark> DNV	TATGAGTACTTTGACAACGTA
YE NY	TATGAGAAC <mark>TAT</mark>	YENY	TATGAGAACTAT
GTGDK	GGAACAGGTGA <mark>CAAG</mark>	GT <mark>GD</mark> K	GGAACAGGTGACAAG
GT-DR	GGAACA GA <mark>TCGC</mark>	GTDR -	GGAACAG <mark>ATCG</mark> C
KSGGG	AAGAGCGGCGGAGGC	KSGGG	AAGAGCGGCGGAGGC
KS-GG	AAGAGC GGCGGA	KSGG-	AAGAGCGGCGGA
AYGGG	GCCTACGGGGGCGGT	AYGGG	GCCTACGGGGGCGGT
AY-GG	GCCTAC GGGGGC	AYGG-	GCCTACGGGGGC
EDEEE	GAAGACGAGGAAGAG	EDEEE	GAAGACGAGGAAGAG
ED-EE	GAAGAT GAGGAA	EDEE-	GAAGATGAGGAA
VASGP <mark>S</mark>	GTGGCTTCCGGCCCCTCA	VA <mark>SG</mark> PS	GTGGCTTCCGGCCCCTCA
VA PD	GTGGCTCCTGAC	VA <mark>PD</mark>	GTGGCTCCTGAC
QNYSS	CAGAACTACTCTTCC	QNYSS	CAGAACTACTCTTCC
QN-SS	CAGAAC TCCTCT	QNSS-	CAGAACTCCTCT
PHLPT	CCTCATCTCCCCACT	PHLPT	CCTCATCTCCCCACT
LY-HA	CTTTAT CACGCC	LYHA-	CTTTATCACGCC
EEAAAA	GAGGAGGCGGCTGCGGCG	EEAAAA	GAGGAGGCGGCTGCGGCG
EEAA	GAGGAGGCGGCT	EEAA	GAGGAGGCGGCT
VALLL	GTGGCCCTCCTTCTC	V ALLL	GTGGCCCTCCTTCTC
AA-LL	GCGGCCCTCCTT	AALL-	GCGGCCCTCCTT
TQPRSR	ACGCAGCCGAGATCAAGG	TQPRSR	ACGCAGC <mark>C</mark> GAGATCAAGG
TQ <mark>Q</mark> R	ACGCAGCAGCGA	TQ <mark>Q</mark> R	ACGCAGCAGCGA
AAGGS	GCTGCCGGTGGCTCA	AAGGS	GCTGCCGGTGGCTCA
AA- <mark>S</mark> S	GCTGCC AGCAGC	AASS-	GCTGCCAGCAGC
MKDAA	CTGAAAGAT <mark>GCAGCG</mark>	MKDAA	CTGAAAGATGCAGCG
LK-HS	CTGAAA CATTCA	LKHS-	CTGAAACATTCA
GFPGPPG	GGTTTTCCAGGTCCCCGGGA	GFPGPPG	GGTTTTCCAGGTCCCCGGGA
GFPG	GGTTTTCCTGGT	GFPG	GGTTTTCCTGGT
PPTTTT	CCTCCCACAACAACCACC	PPTTTT	CCTCCCACAACAACCACC
PPTT	CCTCCC ACAACA	PPTT	CCTCCCACAACA
EALLL	GAAGCGCTGCTG	EALLL	GAAGCGCTGCTGCTA
EA-LL	GAAGCT CTGTTG	EALL-	GAAGCTCTGTTG
LRQQQQQ	CTTAGGCAGCAGCAGCAA	LRQQQQQ	CTTAGGCAGCAGCAGCAA
LRQQ	CTTAGGCAGCAG	LRQQ	CTTAGGCAGCAG
PGPPP	CCGGGCCGCCGCCT	PGPPP	CCGGGCCCGCCT
PG-PP	CCGGGC CCGCCG	PGPP-	CCGGGCCCGCCG
DHSSS	GACCACAGCTCCTCA	DHSSS	GACCACAGCTCCTCA
DH-NS	GACCAC AACTCC	DH <mark>N</mark> S -	GACCACAACTCC
TVPPP	ACCGTGCCTCCCA	TVPPP	ACCGTGCCTCCTCCA
TV-PP	ACCGTGCCTCCT	TVPP-	ACCGTGCCTCCT
PQPPPP	CCACAGCCTCCTCCA	PQPPPP	CCACAGCCTCCTCCA
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<mark>Q</mark> Q PP	CAGCAG CCTCCT	<mark>Q</mark> QPP	CAGCAGCCTCCT
SPTPP	TCACCAACGCCTCCG	SPTPP	TCACCAACGCCTCCG
SP-PP	TCACCA CCGCCT	SPPP-	TCACCACCGCCT
LCKNS	CTCTGCAAGAATTCC	LCKNS	CTCTGCAAGAATTCC
LC-NI	CTCTGCAATATT	LCNI -	CTCTGCAATATT
		EEAAA	GAAGAAGCAGCC
EEAAA	GAAGAAGCAGCC		
NE - AA	AATGAA GCAGCA	NEAA-	AATGAAGCAGCA
ATSSSSS	GCTACTTCTTCCTCCTCC	ATSSSSS	GCTACTTCTTCCTCCTCC
AT SS	GCTACTTCTTCT	ATSS	GCTACTTCTTCT
PSPLCE	CCATCTCCATTGTGTGAA	PSPLCE	CCATCTCCATTGTGTGAA
VSSS	GTGTCTTCATCG	VSSS	GTGTCTTCATCG
VTRRHRH	GTCACTCGCCGCCATCGCCAT	VTRRHRH	GTCACTCGCCGCCATCGCCAT
VTRS	GTCACTCGAAGC	VTRS	GTCACTCGAAGC
			II.
QTSWEASL	CAGACTTCATGGGAGGCCTCCCTA	QTSWEASL	CAGACTTCATGGGAGGCCTCCCTA
QT SR	CAGACTTCACGG	QTS <mark>R</mark>	CAGACTTCACGG
LMKKK	CTCATGAAAAA <mark>G</mark> AA <mark>A</mark>	LMKKK	CTCATGAAAAAGAAA
LM-KK	CTCATG AA <mark>A</mark> AA <mark>G</mark>	LMKK-	CTCATGAAAAG
MPEEE	CTGCCGGAGGAGGAA	MPEEE	CTGCCGGAGGAGGAA
LP-EE	CTGCCGGAGGAG	LPEE-	CTGCCGGAGGAG
QSEEE NC DE	CAGAGCGAAGAGGAA AACAGC GATGAG	QSEEE NSDE-	CAGAGCGAAGAGGAA AACAGCGATGAG
NS-DE			
ELKKK	GAACTCAAGAAGAAA	ELKKK	GAACTCAAGAAGAAA
QL-KK	CAGCTC AAGAAG	QLKK-	CAGCTCAAGAAG
EWEEE	GA <mark>A</mark> TGGGAGGA <mark>A</mark> GA <mark>G</mark>	EWEEE	GAATGGGAGGAAGAG
EW-EE	GAGTGG GAGGAA	EWEE-	GAGTGGGAGGAA
NDGEE	AATGATGGTGA <mark>A</mark> GAG	NDGEE	AATGATGGTGAAGAG
ND-DE	AACGAT GATGAA	NDOE-	AACGATGATGAA
GPTLHL	GGGCCTACTTTGCACCTC	GPTLHL	GGGCCTACTTTGCACCTC
APRL	GCACCTCGTTTG	APRL	GCACCTCGTTTG
KEKKK	AAAGAGAAGAA <mark>A</mark> AA <mark>G</mark>	KEKKK	AAAGAGAAGAAAAG
KE-KK	AAAGAG AA <mark>G</mark> AA <mark>A</mark>	KEKK-	AAAGAGAAGAAA
DQEEE	GACCAGGAGGAGAG	DQEEE	GACCAGGAGGAAGAG
DQ-EE	GACCAG GAGGAA	DQEE-	GACCAGGAGGAA
HVLGPQ	CATGTCCTAGGACCCCAG	HVLGPQ	CATGTCCTAGGACCCCAG
HL SV	CATCTT TCAGTA	HLSV	CATCTTTCAGTA
VTEEE	GTA <mark>A</mark> CAGAGGA <mark>A</mark> GA <mark>G</mark>	VTEEE	GTA <mark>A</mark> CAGA <mark>G</mark> GAAGAG
VA-DE	GTAGCA GATGAA	VADE -	GTAGCAGATGAA
NAPPP	AACGCTCCTCC <mark>T</mark> CCG	NAPPP	AACGCTCCTCCG
NA-PP	AATGCT CCCCCT	NAPP-	AATGCTCCCCCT
STISS	TCCACAATATCTTCC	STISS	TCCACAATATCTTCC
AT-TS	GCCACA ACATCT	ATTS-	GCCACAACATCT
DTSPP	GACACCTCTCCACCT	DTSPP	GACACCTCTCCACCT
EI-TP		EITP-	
	GAGATA ACCCCA		GAGATAACCCCA
DRDGDG	GACAGGATGGTGATGGC	DRDGDG	GACAGGGATGGTGATGGC
DR DG	GACAGG GACGGT	DRDG	GACAGGGA <mark>C</mark> GGT
SLPSS	AGCCTGCCTTCATCC	SLPSS	AGCCTGCCTTCATCC
GL-TS	GGCCTG ACTTCA	GLTS -	GGCCTGACTTCA
VLC <mark>K</mark> K	GTGCTGTGCAAGAAA	VL <mark>C</mark> KK	GTGCTGTGCAAGAAA
VL-SK	GTGCTGAGCAAG	VLSK-	GTGCTGAGCAAG
ARAAA	GCCCGGGCGGCTGCG	ARAAA	GCCCGGGCGGCTGCG
ARAAA AR-AA	GCCCGGGCGGCT	ARAAA ARAA-	GCCCGGGCGGCT
TGENDDEN	ACAGGTGAAAACGACGATGAAAAT	TGENDDEN	ACAGGTGAAAACGACGATGAAAAT
TGE G	ACAGGC GAAGGC	TGE <mark>G</mark>	ACAGGCGAAGGC
ILAAA	ATCTTGGCTGC <mark>A</mark> GCT	ILAAA	ATCTTGGCTGCAGCT
IL-AA	ATCTTG GC <mark>T</mark> GC <mark>A</mark>	ILAA-	ATCTTGGCTGCA
DVTSN	GATGTGACTAGCAAT	DVTSN	GATGTGACTAGCAAT
DV - PG	GATGTGCCTGGC	DVPG-	GATGTGCCTGGC
RQLLL	AGGCAGTTGCTCTTA	RQLLL	AGGCAGTTGCTCTTA
RT-FL	AGGACG TTCCTC	RTFL-	AGGACGTTCCTC
IXI - FL	AUUACU I I CC I C	IXII L-	AUUACUTTCCTC
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GDAAA GD - AA			GGGGACGC <mark>A</mark> GCAGCC GGGGACGCTGCA
ISTAA	ATCTC <mark>C</mark> ACAGC <mark>T</mark> GCA	ISTAA	ATCTCCACAGCTGCA ATCTCTGCAGCT
,			CAGGTCCCAGCTGGCCATAGCCAG CAGGTCTCGTCT
DTPS <mark>S</mark> DT-SA			GACACA <mark>C</mark> CTTCATCC GACACATCTGCA
PASSS PA-SS			CCTGCATCCAGCAGT CCTGCATCCAGC