

	10	20	30	40	50	60
Cn_H99	ASTSRRTNSGIFKCPVPGCGS	TFTRHFNLKGHLRSH	NDRPFKCLYEGCPKA	IVGFARQHD	CKR	
Cn_JEC21	ASTSRRTNSGIFKCPVPGCGS	TFTRHFNLKGHLRSH	NDRPFKCLYEGCPKA	IVGFARQHD	CKR	
An	--KRVQKHPATFQCTL	--CPKRFTRAYNLRSHLR	THDERPFVCT--VCGKA	---	FARQH	DRKR
Ao	--KRVQKHPATFQCHL	--CPKRFTRAYNLRSHLR	THDERPFVCT--VCGKA	---	FARQH	DRKR
Af	--KRVQKHPATFQCNL	--CPKRFTRAYNLRSHLR	THDERPFVCT--VCGKA	---	FARQH	DRKR
Ci	--KRVQKHPATFQCNL	--CPKRFTRAYNLRSHLR	THDERPFVCT--VCGKA	---	FARQH	DRKR
Chg	SAKRVQKHPATFQCTL	--CPKRFTRAYNLRSHLR	THDERPFVCT--VCGKA	---	FARQH	DRKR
Mg	GPKRVQKHPATFQCSL	--CPKRFTRAYNLRSHLR	THDERPFVCT--VCGKA	---	FARQH	DRKR
Gz	--TKRVQKHPATFQCTL	--CPKRFTRAYNLRSHLR	THDERPFVCT--VCGKA	---	FARQH	DRKR
Nc	GPRAQKHPATFQCKV	--CPKRFTRAYNLRSHLR	THDERPFVCT--VCDKA	---	FARQH	DRKR
Pn	--KRTQKHPATFQCSL	--CPKRFTRAYNLRSHLR	THDERPFVCS--VCGKA	---	FARQH	DRKR
Y1	---RVQKHPSTFACHL	--CDKRFTRAYNLRSHLR	THDERPFVCT--VCGKA	---	FARQH	DRKR
Td	----QKNPAMFACEL	--CDKRFTRAYNLRSHLR	THDERPFVCS--VCGKA	---	FARQH	DRKR
Sc	--TNNRNPNANFACDV	--CGKRFTRAYNLRSHLR	THDERPFVCS--VCGKA	---	FARQH	DRKR
Cg1	----NNTGTDYVCEV	--CGKRFTRAYNLRSHLR	THDERPFVCS--VCGKA	---	FARQH	DRKR
K1	----QKHPAVYACDI	--CDKRFTRAYNLRSHLR	THDERPFVCS--VCGKA	---	FARMH	DKNR
Ag	----KNPAYVACNL	--CDKRFTRAYNLRSHLR	THDERPFVCS--VCGKA	---	FARQH	DRKR
Ca	--SKRTQKHPSLYACHL	--CDKRFTRAYNLRSHLR	THDERPFVCS--VCGKA	---	FARSH	DKKR
Cd	--SKRTQKHPSLYACHL	--CDKRFTRAYNLRSHLR	THDERPFVCS--VCGKA	---	FARSH	DKKR
Dh	--SKRTQKHPSLYACHL	--CDKRFTRAYNLRSHLR	THDERPFVCS--VCGKA	---	FARQH	DRKR
Sp	KAKSESQSGNVVCTFAG	CNKRFRTRAYNLRSHLR	THDERPFVCS--VCGKA	---	FARQH	DRKR
Sc_Ace2	DQYVKELPDKLFECLYP	CNKVFKRRYNIRSHIQ	THLQDRPYS	CDFFPGCTKA	---	FVRNHDLIR
Sc_Swi5	DKYVKEMPDKLFECLYP	CNKVFKRRYNIRSHIQ	THLQDRPYS	CDFFPGCTKA	---	FVRNHDLIR

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	74	84	94	104	114	124
Cn_H99	HMLLHEGLRFLFCEG	-----CGKKFARLDAL	TRHHK---SEQQEQ	CAITHPLPTN	FDG	
Cn_JEC21	HMLLHEGLRFLFCEG	-----CGKKFARLDAL	TRHHK---SEQQEQ	CAITHPLPTN	FDG	
An	HEGLHSGEKKFVCRGDL	SRGGQ-WGCGRRFARADAL	GRHF---SEAGRICIKPL	LDEESQER		
Ao	HEGLHSGEKKFVCRGDL	SRGGQ-WGCGRRFARADAL	GRHF---SEAGRICIKPL	LDEESQER		
Af	HEGLHSGEKKFVCRGDL	SRGGQ-WGCGRRFARADAL	GRHF---SEAGRICIKPL	LDEESQER		
Ci	HEGLHSGEKKFVCRGDL	TRGGQ-WGCGRRFARADAL	GRHF---SEAGRVCIKPL	LDEEAER		
Chg	HEGLHSGEKKFVCKGEL	KRGGQ-WGCGRRFARADAL	GRHF---SEAGRICIKPL	LDEEISER		
Mg	HEGLHSGEKKFVCKGDL	KAGGQ-WGCGRRFARADAL	GRHF---SEAGRICIKPL	LDEEIMER		
Gz	HESLHSGEKKFVCKGDL	KVGGQ-WGCGRRFARADAL	GRHF---SEAGRICIKPL	LDEEMMER		
Nc	HEGLHSGEKKFICKGEL	PVAGQWCGRRFARADAL	GRHF---SEAGRICIRPL	LEAENRER		
Pn	HEGLHSGEKKFVCRGNL	KDGNH-WGCGRRFARADAL	GRHF---SEAGRVCIRPL	LEEAQEK		
Y1	HEALHSGEKKYQCGVL	ADGQTPWCGRRFARADAL	GRHF---TEAGRECIRLL	LEEANEK		
Td	HEDLHTGKKRYVCGGHL	KDGTAWGCGKKFARSDAL	GRHF---TESGRKCILPL	YEEASREK		
Sc	HEDLHTGKKRYVCGGKL	KDGKFWGCGKKFARSDAL	GRHF---TESGRRCITPL	YEEARQEK		
Cg1	HEDLHTGKKRYVCGGKL	KDGTFWGCGKKFARSDAL	GRHF---TSSGRKCITPL	YEEATAREK		
K1	HEDLHTGKKRYVCGGIL	KNGNSWGCGKKFARSDAL	GRHF---TELGKKCILPL	YEEAELEK		
Ag	HEDLHSGEKKRYVCGGKL	KGATWGCGKKFARSDAL	GRHF---TESGRRCIAPLY	DEASKER		
Ca	HELLHQGIKNFKCEGYL	QDGTWGCGKSFARADAL	RRHFQ---TEAGKQCVKRL	LLEEQAN		
Cd	HELLHQGIKNFKCEGYL	QDGTWGCGKSFARADAL	RRHFQ---TEAGKQCVKRL	LLEEQAN		
Dh	HEDLHTGKKFQCKGFL	KDGTWPYCGRRFARADAL	RRHFQ---TEAGKECIRLL	VEEDEKDR		
Sp	HEQLHTGIKAFACV	-----TCNQRFARMDAL	NRHYK---SEVGQNCLRT	ATERGIQVP		
Sc_Ace2	HKISHN-AKKYICP	-----CGKRFNREDAL	MVHRSRMICTGKKLEHS	SINKKLTSPK		
Sc_Swi5	HKSHQ-EKAYACP	-----CGKRFNREDAL	VVHRSRMICS	GKKYENVVIKRSPRKR		

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