

**Table S1.** Peptide sequences of 3-5 kDa peptide fraction ultrafiltrated from bromelain-hydrolyzed CGM with 4 h hydrolysis.

	RP-HPLC peak retention time	4.0 min	5.55 min	6.5 min	8.1 min	12.3 min	13.1 min	14.5 min	15.6 min	19.1 min	23.03 min	24.9 min	41.9 min
Zein-16	Area%	21.1%	48.6%	10.6%	9.6%	80.2%	11.2%	23.3%	6.4%	45.0%	4.1%	8.5%	45.8
	Coverage%	15.8%	16.4%	8.7%	8.2%	14.2%	19.1%	15.3%	12.6%	71.0%	69.9%	43.2%	22.4
Sequences	VALAL	GC	KVLIVALAL	MKVLI	RH	KVLIVALAL	VALAL	QQCC	MKVLI	KVLIVALAL	IVALAL	ASAASS	
	LALAASA	TP	FYLPP	QQ	CS	LALAA	QQF	ATY	SGGCGC	LALAASAASS	LALAASAASS	TS	
	FYM	VGSVGS		QP	LQ	GGCGC	GSCGVGSVGS	GVVL	TP	TSGGCGC	TSGGCGC	LPP	
	PPPFYL	RH		GELAA	QPQGELA	TP	PFLG	QQCC	PFHLPPPFYM	TP	PFHLPPPFYM	HRY	
	CH	CS			AQQLTA	QQCC	IR	QP	PPPFY	PFH	PPPFY	LTA	
	IR	GVVL				ATY		GELAA	SPC	YM	SVGS	PCNAAG	
		GELA				GVVL			GSCGVGSVGS	PPPFYLPP	PFLG		
									PFLG	PW	CSPAATP		
									CVEFL	YP	YGSP		
									RH	PP	GL		
									PAATP	LSPC	PG		
									YGSP	GSCGVG	PCPCNA		
									CCH	IR			
									EPLHRY	EPLHRY			
									ATY	ATY			
									GVVL	GVVL			
									SFL	SFL			
									VA	ALM			
									LTA	AA			
									MCGL	VA			
									CPCNAAGG	LTA			
									VYY				
Zein-19	Area%	26.3%	27.6%	17.8%	21.5%	75.2%	24.3%	56.6%	16.2%	35.4%	5.4%	5.9%	14.2
	Coverage%	23.3%	8.8%	16.2%	26.7%	22.1%	13.1%	30.8%	12.5%	61.2%	76.5%	39.6%	10
Sequences	LLM	KIFSLLM	KIFSLLM	MATKIFSLLM	RLQQ	KIFSLLM	KIFSLL	KIFSLLM	CVAN	KVLIVALAL	IFSLLM	MATKIFSLL	
	LLM	LLALSTC	LLALSTC	LLALSTC	ASNIPLS	LLALSTC	LLALSTCVAN	LLALSTC	ATIFPQCSQA	LALAASAASS	LLALSTC	LLALSTC	
	LLPPYL	IIIGGAL	IFPQCS	PIASLLPP	AL	QLVL	ATIFPQC	AIAASNIP	PIASLLPPY	TSGGCGCQTP	ATIFPQCSQA	PIASLLPP	
	PSII		QLVL	SIIASI	SLVQ	LLPFY	AIAASNIP	ALAN	SIIACICEN	PFH	PIASLLPPY		
	QQ		PL	IAASNIP	RAQQL	IIIGGAL	AL	LSP	PALQPYR	YM	PSIIA		
	AIAASNIP		FL	ALAN	NQVALAN		SLVQ		AIAASNIP	PPPFYLPPQQ	LVQT		

FNQLSTLN	TQQQ	LLPFN	QQILL	LSPYS	PL	QPQPWQYP	RAQQLQQLV						
AYS	HIIGGAL	LAALNPAA	LAAANR	QQILL	LVQTI	PPQLSPCQQF	AAYLQQQLL						
QQQQLLP		LPFVQ	LL	LLPFY	RAQQL	GSCGVGSVGS	PFSQLATA						
SFL			QLQQLL	TLL	NQVALAN	PFLGQCV	PAAYL						
TQQLLP				QLQQLLP	LSPYSQQQQF	IRQV	QQQILLP						
				HIIGGAL	LPFNQLSTLN	EPLHRYQATY	PAASY						
					PAAYLQQQLL	GVVLQSFLQQ	QQQHIGGAL						
					PFSQLATAYS	QP							
					QQQQLLPFNQ	ALM							
					LAAANRASFL	AAQVAQQQLTA							
					TQQ	MCGQLQLQQPG							
					TLL	PCPCNAAAGG							
					QLQQLLPFVQ	VY							
Glutenin	Area%	52.9%	46.6%	5.3%	20.2%	100.0%	11.2%	42.1%	5.9%	29.0%	5.8%	7.1%	12.1%
	Coverage%	39.9%	8.5%	4.0%	15.2%	24.2%	12.1%	20.2%	15.7%	63.2%	68.6%	29.6%	12.6%
Sequences	VALAL	GVG	VLLVALAK	AL	HP	LAL	VLLVALA	HVPPPV	LAASATS	LVALAL	AL	SATST	
	LALAASATST	STPILG		LALAASATST	PH	LALAA	GTCVG	QCC	HTSGCG	LALAASATST	LALAASATST	HVPPPV	
	HTSG	QVA			PHP	CQQPH	QPP	STPILG	QL	PPVHLPPP	HTSGCG	HTSGCGC	SG
	PILG	GLLAA			CP	GVG	RP	PTA	SG	HVPPPVHLP	CPC	VHLPPP	VA
	LRH				GLLAA	STPILG	QQCCQQL	TPYCSP	VA	PPCH	PHPSP	HVPPPVHLP	GLL
	CSPTA				GLLAA	RH	TPCPYAA	IFG	GLL	RP	GTCVG	PPCHYP	IA
	PYCSP				TP	CS		VA	TAQ	PHP	STPILG	SP	LTA
	LRH					QS		GLLAA	LTA	CPC	CVE	GTCG	
	HRY					LR		TPCPYAA	TPCPYAA	PHPSP	FIRH	VL	
	GLVL					QQQPQSG				GTCVG	CSPT	SIL	
	VALAL					VA				STPILG	YA	SG	
	GLLAA					GLLAA				PTA	LTAMCGL		
	IA					LTA				TPYCSP	TPCPYAAAG		
	MCGL									LR			
	TPCPYAAAG									CC			
										IFGLVL			
										SIL			
										LLAA			
										IA			
										LTAMCGL			
										TPCPYAA			

**Table S2.** Peptide sequences of <1 kDa peptide fraction ultrafiltrated from ficin-hydrolyzed CGM with 4 h hydrolysis

	RP-HPLC peak retention time	4.1 min	6.4 min	12.9 min	14.2 min	15.9 min	17.5 min	19.3 min	19.9 min	21.7 min	23.03 min	41.9 min	51.3 min
Zein-16	Area%	23.5%	44.5%	6.0%	9.2%	11.8%	3.9%	19.9%	20.7%	18.0%	13.4%	2.0%	14.0%
	Coverage%	43.7%	18.6%	8.7%	51.9%	23.0%	67.2%	79.8%	65.0%	30.1%	31.7%	13.1%	60.7%
Sequences	KVLIVALAL	GCQTP	LTA	MKVLI	VLIVALAL	MKVLIVALAL	MKVLIVALAL	KVLIVALAL	KVLIVALAL	AASAASS	SVGS	ALAASAASS	
	LALAA	GQCVEF	MCGL	LPPPFYM	AASS	LALAASAASS	LALAAS	LALAASAASS	LALAASAASS	TS	PFLG	TSGCGC	
	GGCGCQTP	RHQCS	PG	PPPFYLPP	TSGGCGC	TSGGCG	TSGGCGCQTP	TSGGCGCQTP	TSG	GCQTP	QCSPAATP	LPPPFYM	
	PF	HQIRQ	PCP	GSCGVGSVGS	CQQF	PFYM	PFHLPPFYM	PFH	QPQPWQYPTQ	LPPQQ	YGSPQC	CGVGSVGS	
	PPFYM	GVVLQS		PFLG	GSCGVGSCGS	PPPF	PPPF	FYM	PPQLS	PW		PFLGQCVEFL	
	PPFYM	QPQGELA		FL	PAATP	LPPQQ	QLSPCQQF	PPPFYLPP	GSPQCQ	YPTQ		RH	
	LPPQQ			PHQCSPA	YG	QPQPWQYPTQ	GSCGVGSCGS	PW	HRY	PP		CSPAATP	
	GSCGVGSVG			YGSP		PPQLSPCQQF	PFLGQCVEFL	YPT	PCNAAAG	VGSVGS		YGSP	
	GQCVEF			AL		GSCGVGSVGS	RHQCSPAATP	VGSVGS		HRYQ		AL	
	LQ			QCCHQIRQV		PFLGQCV	YGSPQCQ	PFLG		GVVL		QQCCH	
	QQCC			EPLHRYQATY		GSPQCQAL	QQCCHQTRQV	CVE		PCNAAAG		PLHRY	
	QV			GVVLQSFHQ		QQCCHQIR	EPLHRYQATY	GSP				GELAA	
	EPLH			ALM		QSFLQ	GVVLQSFHQ	AL				AQQLTA	
	QATY			AA		QPQGEELAA	QPQG	QQC				MCG	
	GVVLQSF			PCPCNA		CGLQLQQPG	TA	QV				PCNAAAG	
	LM					PCPCNAA	MCGLQLQQPG	EPLHRYQATY				VY	
	AAQV						PCPCNAAAGG	GVVL					
							VYY	SF					
								LAALM					
								QVA					
								QLTA					
								AA					
Zein-19	Area%	22.8%	52.0%	23.6%	9.6%	2.3%	2.8%	4.0%	3.2%	2.6%	8.6%	11.2%	12.2%
	Coverage%	21.7%	20.0%	28.8%	55.8%	7.9%	61.7%	67.1%	52.9%	69.2%	20.0%	10.8%	29.6%
Sequences	MATKIFSLLM	KIFSLLM	MATKIFSLLM	KIFSLLM	KIFSLLM	IFSLLM	FSLLM	SLLPPYL	TKIFSLLM	QSPAL	MATKIFSLL	SLLM	
	LLALSTC	LLALSTC	LLALSTC	LLALSTCVAN	LLALS	LLALSTCVAN	LLALSTCVAN	PSIIASICEN	LLALSTCV	ALAN	LLALSTC	LLALS	
	IFPQCS	AL	TIFPQC	ATIFPQC	AAANRAS	ATIFPQCSQA	ATIFPQCSQA	PALQP	PPYL	LSPYSQQQQF	ATIFPQCSQA	ATIFPQCSQA	
	PIASLLPP	SLVQ	PIASLLPP	SIIASI		PIASLPPYL	PIASLPPYL	SNIPLS	PSIIASICEN	FNQLSTLN		YRLQQ	
	QLVL	QLVL	QLVL	AIAASNIPLS		PSIIASICEN	PSIIASI	PLLFFQQSPQL	PALQPYRLQQ	PAAYLLQQ		AIAASNIPL	
	PLLN	PL	QQQLL	PLLFQQSPAL		PALQPYRLQQ	AIAASNIPLS	SLVQLSVQTI	AIAASNIPLS	QQQQL		ALAN	
	LLPFYQ	QQILLPF	QQQLL	SLVQS		AIAASNIPLS	PL	RAQQQLQLVL	PLLFQQSPAL	TQQQL		LSPYSQQ	
	HIIGGAL	LLALSTC	LAALNP	NQLSTLN		PLLFQQSPAL	PAL	PLINQVALAN	SLVQLSVQTI			FNQ	

	QLQQQLL	QQQLLP	PAAYL	SLVQSLV	SLVQSLVQTI	LSPYSQQQQF	RAQQLQ	LAALNPA					
	HIIGGAL	HIIGGAL	PFSQLATAYS	PLINQVALAN	RAAQL	LPFNQLST	LVL	QILLPFSQ					
		QQ		LSPYSSQQF	QF	QQQILLPFSQ	PLINQVALAN	ASFL					
		LLPEN		LPPQQ	LPFNQLSTLN	LAAANR	LSPYSQQQQF	TQQQ					
		ALNPAAYL		PFSQLATAYS	PAAYLQQQLL	LQQLLPFVQ	LPFNQLST						
		QILLPFSQ		QQQQLLPEN	PFSQLATAYS	LALTDPAAASY	QQQQLLPENQ						
		RASFL		NPATILL	QQQQLLPFNQ	QQHIIIG	LAAL						
		TQQQLLPFYQ		QLQ	LAALNPAAYL		QILLPFSQ						
		QFAA		PFVQ	QQQILLPFSQ		LAAANRA						
		TLL		LALTDPAAASY	AANPATLL		ATLL						
		QLQQQLLPFVQ			QLQQQLLPFVQ		QLQQQLLPFVQ						
					LALTDPAA		LALTDPAAASY						
							QQHIIIG						
Glutenin	Area%	35.4%	25.0%	28.2%	5.2%	3.0%	3.8%	24.8%	26.6%	7.0%	18.0%	10.0%	23.0%
	Coverage%	27.8%	5.8%	19.3%	19.3%	12.6%	71.3%	67.3%	84.8%	65.0%	27.4%	9.4%	28.3%
Sequences	ALAL	PILGQC	AASATST	SATST	VLLVALAL	VLLVALAL	LLVALAL	MRVLLALAL	MRVLLALAL	VHLPPP	MRVLLV		
LALAA	QVA	HTSGGCGCQP	HTSGGCGCQP	LA	LA	LALAASATST	LALAASATST	LALAASATST	LALAASATST	LAASATST	HVPPP	VHLPPP	
QPP	GLLAA	PILGQC	PTA	TST	HLPPV	HTSGGC	HTSGGCQ	HTSGGCQ	HTSGGCQ	HTSGG	VCVE	HVPPP	VHLPPP
QRQPQ	IL	TPYCSPQCQS	HTSGG	HLPPVHLPP	PPVHLPPP	PPVHLPPP	PPVHLPPP	PPVHLPPP	PPVHLPPP	CHYPT	FLR	PPCH	
PQPHP	QVA	LR	QP	PVHLPPVHL	HVPPP	HVPPP	HLPPVHLPP	HLPPVHLPP	HLPPVHLPP	RP	SP		
CPC	GLLAA	QLR	PPPVLPP	PPPVLPP	PSP	PVHLPPVHL	PVHLPPVHL	PVHLPPVHL	PVHLPPVHL	PHP		GTCGVG	
PILQCVE	LTAMCGL	QVEP		VHLPP	CQLQGTCGVG	PPPVLPP	PPPVLPP	PPPVLPP	PPPVLPP	QGTCVG	ST		
PYCSPQ		QVEPQHRY		PPCHYPTQPP	STPILGQCVE	HVPPVHLPP	ILGQCVE	STP	STP		CVE		
QCCQQL				PC	FLRHQSPTA	PPCHYPTQPP	FLR	QHRY	QHRY		FLR		
QVA				QPHPS	TPYCSPQCQS	PQPHPQPH	CSPQCQS	PYAAAGG	PYAAAGG		GLLAA		
GLLAA				GTCVG	LRQQCCQQLR	CPCQQPHPSP	LRQQCC	VP	VP		IA		
QPP				STPILG	QVEPQH	CQLQGTCGVG	QHRYQA				LTAMCG		
TPCPYAAA				CVE	QA	STPILGQCVE	IFGLVL						
				FLRHQSPTA	IFGLVLQSL	FLR	AQIAQQ						
				TPYCSPQCQS	QQQPQSGQVA	PTA	LTAMC						
				QQLR	GLAAQIAQQ	TPYCSPQCQS	TPCPY						
				QVEPQ	LTAMCGLQQP	LRQQCCQQLR	TPCPY						
				QA	TPCPYAA	QQQPQSGQVA	AAAG						
				IFGLVLQSL		GLAAQIAQQ							
				QQQPQSG		LTAM							
				AQIAQQ		GLQQP							
				LTAMCGLQQP		TPCPY							
				TPCP		AAAG							

**Table S3.** Peptide sequences of 5-10 kDa peptide fraction ultrafiltrated from papain-hydrolyzed CGM wth 3 h hydrolysis

Compared peptides	RP-HPLC peak retention time	5.05 min	6.8 min	13.3 min	16.5 min	18.3 min	19.5 min	21.5 min	24.5 min	42.7 min	52.9 min
Zein-16	Area%	11.1%	8.9%	17.6%	20.7%	2.3%	8.3%	37.1%	19.0%	20.5%	34.0%
	Coverage%	47.5%	62.3%	43.2%	89.1%	42.6%	92.9%	98.4%	84.2%	18.6%	84.2%
Sequences	MKV LIVA	VALAL	KVLIVALAL	MKV LIVALAL	MKV LIVALAL	V LIVALAL	MKV LIVALAL	KVLIVALAL	VEFL	KVLIVALAL	
	PPF YM	LALA	LALAASAA	LALAASAASS	HLPPP FYM	LALAASAASS	LAL	LALAASAASS	PLH RY	LALAASAASS	
	PPPFYLPPQQ	GGCGC QT P	TSGGCGC Q	TSGGCGC QT P	PPPFYLPPQQ	TSGGCGC QT P	SAASS	TSGGCGC QT P	FLQQ	TSGGCGC QT P	
	QP	PF	PPPFYLPPQ	PF	QPQPW	PFH LPPP FYM	TSGGCGC QT P	PFH LP	QPQ GELAA	PFH LPPP FY	
	PPQLSPC QQF	PPPFYM	FLQC VEF L	PPPFYLPPQQ	PTQ	PPPFYLPPQQ	PFH LPPP FYM	QPWQ YPT Q	QVAQQL	PQQ	
	GSCG	PPP	RYQAT Y	QYPTQ	PPQLSPC QQF	QPQPWQYPTQ	PPPFYLPPQQ	PPQLSPC QQF	GLQLQQ	QPQPW	
	PFLGQC VEF L	YLPPQQ	GVV	PPQLSPC QQF	GSCG	PPQLSPC QQF	QPQPWQYPTQ	GSCGVGS VGS		LSPC QQF	
	RHQC	PQLSPC QQF	QPQ GELA ALM	GSCGVGS VGS	PFLGQC VEF	GSCGV G	PPQLSPC QQF	PFLGQC VEF L		GSCGVGS VGS	
	EPLH RYQAT Y	GSCGVGS VGS	QLTA	PFLGQC VEF	TY	GQC VEF L	GSCGVGS VGS	RHQCS PAAT P		PFL	
	GVVLQSFL	CSPAAT P	LQQPG	HQC SPA	GVVLQSFL	RHQC SPAAT P	PFLGQC VEF L	YGSPQC QAL Q		CVEFL	
	QLTA	YGSPQC QAL Q	PCPC N	YGSPQC QAL Q	PCPC NA	YGSPQC QAL Q	RHQC SPAAT P	QQC HQI		CSPAATO	
	MCGLQLQQPG	QQCC HQIR QV		QQCC	PG	QQCC HQIR QV	YGSPQC QAL Q	HR YQAT Y		YGSPQC QAL	
	TQ	EPLH RYQAT Y		EPLH RYQAT Y		EPLH RYQAT Y	YQCC HQIR QV	QCC HQIR QV		QCC HQIR QV	
		AQVAQQLTA		GVVLQSFL QQ		GVVLQSFL QQ	EPLH RYQAT Y	GVVLQSFL QQ		EPLH RYQAT Y	
		MCGLQLQQPG	PCN	QPQ GELA ALM		QPQ GELA ALM	QPQ GELA ALM	AAQVAQQLTA		GVVLQSFL QQ	
				AAQVAQQLTA		AAQVAQQLTA	AAQVAQQLTA	MCGLQLQQPG		QPQ GELA ALM	
				MCGLQLQQPG		MCGLQLQQPG	AAQVAQQLTA	PCPCNA AAG		AAQVAQQLTA	
				PCPCNA AAG		PCPCNA AAG	MCGLQLQQPG	PCPCNA AAG		GLQLQQPG	
				QV		PCPCNA AAG				PCPCNA AAG	
				VY		VY					
Zein-19	Area%	11.3%	13.0%	25.5%	17.7%	1.2%	4.8%	13.6%	3.5%	31.3%	15.3%
	Coverage%	27.9%	44.2%	34.6%	67.5%	11.2%	67.9%	93.3%	87.1%	17.5%	44.6%
Sequences	ATIFPQCSQA	KIFSLL M	KIFSLL M	MATKIFSLL M	IPLS	LLALSTCVAN	MATKIFSLL M	ATIFPQCSQA	MATKIFSLL	LLALSTCVAN	
	PIAS	LLALSTC	LLALSTC	LLALSTCVAN	PLL F	ATIFPQCSQA	LLALSTCVAN	PIASLLPPYL	IAASNIPL	ATIFPQCSQA	
	CEN	IASL LPPYL	PIASL LPPYL	ATIFP	LLPFY Q	PIASL LPPYL	ATIFPQCSQA	PSIIASICEN	ALAN	PIASL	
	PALQPYRLQ	PSTTA	PSIIAS	PIASL LPPYL	QFA	PSIIASICEN	PIASL LPPYL	PALQPYRLQQ	LSP	RLQQ	
	NQLSTLN	LS	AL	PSIIASICEN	PATLL	PALQPYRLQQ	PSIIASICEN	AIAASNIPLS	QQQF	AIAA	
	PAAYLQ	PLL FQQ	SLVQLSVQT I	PALQPYRLQQ	QLQQL	AIAASNIPLS	PALQPYRLQQ	PLLFQQSPAL	FNQ	NIPLS	
	LLPFY Q	SLVQLSVQT I	RAQQL	AIAASNIPLS		PLL FQQS	AIAASNIPLS	SLVQLSVQT I	LAA	PLL	
	QFAANPATLL	PLINQVA	QLVL	VQT I		RAQQLQQQLV L	P LLFQQSPAL	RAQQLQQQLV L	LAAANRA	VQSLVQT I	
	QLQQL	QQQLL	QQILLPF	RAQQLQ		PLINQ	SLVQLSVQT I	PLINQVALAN		RA	
	LALT	PFSQ L	LLPFY Q	QVALAN		SPYSQQQQF	RAQQLQQQLV L	LSPY SQQQQF		PLINOVA	
	FYQ	QQQLLPFNQ	QLQQLL	LSPYSQQQQ		LPFNQLSTLN	PLINQVALAN	LPFNQLSTLN		QQQF	
		LAAL	HIIGGAL	LQQQLL		PAAYLQQQLL	LSP	PA		QLLPENQ	
		QQILLPFSQ	PL	FPSQLATA		QQQQLLPENQ	QQQF	PFSQLATAYS		QQQILL	
		QQQLLPFYQ	QF	AYL		LAALNPAAYL	LPFNQLSTLN	QQQQLLPENQ		AANRASFL	
		QFAA	LL	QQQILPFS		ANRASFL	PAAYLQQQLL	PAAYL		TQQ	

	QLLPF	VL	NRASFL	TQQQLLP	FPSQLATAYS	QQQILLPFSQ	LLPFVQ				
			TQQQLLPFYQ	ALLTDAASY	QQQQLLPENQ	LAALNPAAYL	LALTD				
			QFAANP	QQHIIG	LAALNPAAYL	TQQQLLPFYQ	LAA				
			QQLLPFVQ		QQQILLPFSQ	QFAANPATLL	LVL				
			LALTDAASY		LAALNPAAYL	QLQQLLPFVQ	YL				
			QQHIIG		TQ	LALTDAASY					
					LPFYQ	QFAANPATLL					
					QLQQL	QLQQL					
					LALTDAASY	LALTDAASY					
					QQ	QQ					
Glutenin	Area%	23.4%	7.9%	27.4%	34.3%	10.9%	15.1%	32.2%	20.4%	10.5%	31.7%
Coverage%		51.6%	89.2%	34.1%	80.0%	47.5%	69.1%	96.9%	76.7%	5.4%	77.1%
Sequences	MRVLLVA	RVLLVALAL	MRVLLVALAL	MAAKIFSILM	AASATST	RVLLVALAL	RVLLVALAL	MAAKIFSILM	VE	VLLVALAL	
	HTSGGCGCQP	LALAASATST	LALAA	LLALSACVLD	HTSGGCGCQP	LALAASATST	LALAASATST	LLALSACVLD	FLRH	LALAASATST	
	PPPVLH	HTSG	TSGGCGCQ	ATIFPQYSQA	PP	HTSGGCGCQP	HTSGGCGCQP	HTSGGCGCQP	PQSGQVA	HTSGGCGCQP	
	HP	CQP	HVPPPV	PIAALL	VHLPPPV	PPPVLPPP	PPPVLPPP	PPPVLPPP	PP	VHLPVV	
	CPCQQPHPSP	PPPVHLPPP	TQPP	PSMTASV	HLPPPVLPP	CHYPTQPP	HLPPPVLPP	HLPPPVLPP		VHLPVV	
	CQLQGTCVG	HLPPPVLPP	RPQPHPQPHP	EN	PVHLPPPVL	RPQPHPQPHP	PVHLPPPVL	VPPVHLPP		HLPPPVLPP	
	STPILGQCVE	PVHLPPPVL	PILGQC	PTLQPYRLQQ	PPPVLPPP	CPCQQPHPSP	PPPVLPPP	PPCHYPTQPP		PVHLPPPVL	
	FLRHQCSPA	HVPPPVLPP	VLQSIL	NLPLS	HVPPPVL	TCVG	HVPPPVLPP	RPQPHPQPHP		PPVHLPPP	
	TPYSCPQCQC	PPCHYPT	QQQ	PLLFFQQSPAL	PCHYPTQPP	STPILGQCVE	PPCHYPTQPP	CPCQQPHPSP		HVPPPVLPP	
	LRQQCCQQQLR	RPQPHPQPHP	VA	SLVQ	CQQPHPSP	FLRHQCSPA	RPQPHPQPHP	CQLQGTCVG		PPCHYPTQPP	
	QQQQPQSGQ	CPCQQPHPSP	GLLAAQIAQQ	VQTI	CSPTA	TPYCSQCQS	CPCQQPHPSP	STPILGOCVE		RPQPHPQP	
	GLQQP	STPILGOCVE	LTAMC	RAQQQLQQLV	TPYCSP	LRQQCCQQQLR	CQLQGTCVG	TPYCSQCQS		HPSP	
	TPCPYAAAGG	FLRHQCSPA		OVALAN	QQQPQSGQ	QVEPQHRYQA	STPILGOCVE	LRQQCCQQQLR		CQLQGTCVG	
	IL	LRQQCCQQQLR		LSPYSQQQ	RP	IFGLVLQ	FLRHQCSPA	HRYQA		CVE	
		QVEPQHRYOA		LQQQLL	CQ	GLLAAQTAQQ	TPYCSQCQS	GLVLQSI		TPYCSQCQS	
		IFGLVLQSL		PFSQALATA	IL	LTAMCGLQQP	LRQQCCQQQLR	QQQPQSGQVA		LRQQCCQQQL	
		QQQPQSGQV		FLPENQ		TPCP	QVEPQHRYQA	LTAMCGLQQP		PQSGQVA	
		LAAQIAQQ		LAALNPAAYL			IFGLVLQSL			GLLAAQIAQQ	
		LTAMCGLQQP		QQQILLPFGQ			QQQPQSGQVA			LTAMCGLQQP	
		TPC		LATTNRASFL			GLLAAQIAQQ			TPCPYAAA	
		TPYC		TQQQLLPFYQ			LTAMCGLQQP			ST	
				PATLL			TPCPYAA			PLR	
				QLQQLL							
				NPAAFY							
				QQHIIGGAI							
				QF							