




	150	160	170	180	190	200	210	220	
GmPR-1-1	MDV.KTARA E VG.....	VEAL S WSEK L GNV S SLMVRYQRNKKG	CEFANLT...A..SRY G GNQLWAGVT..	EVAPRVV V EE W V K E K KFYVREN T CV	225				
GmPR-1-2	LEA H NQARA A VG.....	VEPLRWSEQLANVTSKLARYQRDKLG	CEFANLS...T..GKYGANQLLAWGT..	AVTPRMAVEE W V K Q K QFYNHAD N SCV	122				
GmPR-1-3	LNGQNDARSDVDQVP....	LPPLVWNNTLAEYAQDYAKQRKSN..	CQLV H S...N..GPYGENLAGSTG..	DISCANAVKLWVDE K PYYDRNS N SCV	117				
GmPR-1-4	LDA H NAARA E VG.....	VEPLAWDDTVAAYAQQYADSRIKE..	CQV V H S ...Q..GPYGENLVASPG..	DVSGTD A V K M V W A E K ANYDHKANKCV	111				
GmPR-1-5	FNVHNAARSQVG.....	VPPLTWDN T LAAFAQSYANLRNVI..	ANL.....	STHADHTVRA V WNE K ANYD N SNTCS	123				
GmPR-1-6	LHAHNWIRKQYN.....	LPEYTWDEKLASYARGYLMQRYED..	CKL V H S ...N..SNYGENVFWGKKL..	HWSPSDATYYWY E K QWYNFQTL S CA	220				
GmPR-1-7	LFRHNLVRAAKW.....	ELPLMWDFQLEQYARWWAGERKAD..	CKLEH S FPEDG..FKLGENIYWGS G S..	AWTPSDAVRAWADEEKYTYAT N TCV	151				
GmPR-1-8	LIPQNAARAVLR.....	LRPLVWDSKLAHYAQWYANQRND..	CALEH S ...N..GPYGENIFWGS G T..	GWKPAQAVSAWVEERQWYNYWH N SCV	125				
GmPR-1-9	VNAHNAARA E VG S QSPRQT V I	VPSLAWDDTVAAYA E SYANQRKGD..	CQLI H S...G..GEYGENIAMSTG..	ELSGTD A V K M V WDE K SNYDYDS N SCV	124				
GmPR-1-10	VNAHNAARA E VG S QSPRQT V I	VPSLAWDDTVAAYA E SYANQRKGD..	CQLI H S...G..GEYGENIAMSTG..	ELSGTD A V K M V WDE K SNYDYDS N SCV	124				
GmPR-1-11	VNAHNAARA E VG S QSPRQT V I	VPSLAWDDTVAAYA E SYANQRKGD..	CQLI H S...G..GEYGENIAMSTG..	ELSGTD A V K M V WDE K SNYDYDS N SCV	124				
GmPR-1-12	VNAHNAARA E VG S QSPRQT V I	VPSLAWDDTVAAYA E SYANQRKGD..	CQLI H S...G..GEYGENIAMSTG..	ELSGTD A V K M V WDE K SNYDYDS N SCV	124				
GmPR-1-13	VNAHNAARA E VG S QSPRQT V I	VPSLAWDDTVAAYA E SYANQRKGD..	CQLI H S...G..GEYGENIAMSTG..	ELSGTD A V K M V WDE K SNYDYDS N SCV	124				
GmPR-1-14	VNAHNAARSEVG.....	VQNLAWDDTVA A FAQNYANQRKGD..	CQ R GES...C..NEH G	79					
GmPR-1-15	L D VHNQARA E VG.....	VGPLSWNHTLQAYAAQSYANKRIPD..	CNLEH S ...M..GPFGENISEGYA..	EMKGS D AV K F W LTE K PYYDHHS N ACV	113				
GmPR-1-16	L D VHNQARA E VG.....	VGPLSWNHTLQAYAAQRYANERIPD..	CNLEH S ...M..GPFGENLAEGYG..	EMKGS D AV K F W LTE K PYYDHYS N ACV	113				
GmPR-1-17	VNAHNAARSEVG.....	VQNLAWDDTVA A FAQNYANQRKGD..	CQLI H S...GGGGQYGENLAMSTG..	DLSGTD A V K LWVDE K SNYDYDS N SCV	116				
GmPR-1-18	VNAHNAARSQVG.....	VPNI V WDNA V AFAQNYANQRKGD..	CKL V H S ...GGDGKYGENLAGSTG..	NLSGKD A V Q LWVNE K SKYNYNS N SCV	116				
GmPR-1-19	VNAHNAARSQVG.....	VPNI V WDDTVA A FAQNYANQRKGD..	CKL V H S ...GGDGKYGENLAGSTG..	NLSGT N AV K LWVDE K SKYDYDS N TCV	117				
GmPR-1-20	VNAHNAARA E VSQSPRAN V I	VPSLAWDDTVAAYA E SYANQRKGD..	CAL I H S ...G..GKYGENIAMSTG..	ELSGTD A V K M V WDE K ANYDYDS N SCV	124				
GmPR-1-21	VDAHNAARSEVG.....	VPDLAWDD S VAAY A ENYANQRKGD..	CAL I H S ...G..GEYGENIAMSTG..	ELSGTD A V K M V WDE K ANYDHDS N SCV	87				
GmPR-1-22	LEA H NQARA A VG.....	VEPLRWSEQVANVTSKLARYQRVKTG	CQFANLT...A..GKYGANQLLARGSA	AVTPRMAVEE W V K Q K QFYNHAD N SCA	124				
GmPR-1-23	LIPQNAARAVLR.....	LRPLVWDSKLAHYAQWYANQRND..	CALEH S ...N..GPYGENIFWGS G T..	GWEPAAVSAWVEERQWYNYWH N SCA	118				
GmPR-1-24	LFRHNLVRAAKW.....	ELPLMWDFQLEQYARWWAGQRKAD..	CKLEH S FPEDG..FKLGENIYWGS G S..	AWTPSDAVRAWADEEKYTYAT N TCV	107				
consensus	* * * * ! *	* * ! * * * * *	* * * * *	* * *	* * * *	*	* * * * *	* * * *	

	230	240	250	260	270	
GmPR-1-1	.GKHE C GVYT Q V V WR N S T E V GCAQAVCVKEQ.ASLT I CFYDPPGN V I G EIPY.....	275				
GmPR-1-2	.PNHRCGVYT Q V V WR S L E LGCARATCVKEQ.ASLT I CFYNPPGN I Y I GESPY.....	172				
GmPR-1-3	.GG.VCGHYT Q V V WR D S T Q V GCAK V CDNG..GTFIC C NYYPPGN I Y V GQRPY.....	165				
GmPR-1-4	.NNQECMHYA Q L V WS N T F L V GCARSKCDNG..WTFV I CSYDPPGN F QGEQPY.....	160				
GmPR-1-5	...SVCGHYT Q V V WR N SL R VGC A K V RC D NG..STF I IC C YDPRGN I R G QRPY.....	170				
GmPR-1-6	PPPKAC G H F T Q V V WR D S Q R I GCALQHCHNPSLGMLIACEYDPAGNYENED P L K QHER	277				
GmPR-1-7	.PGQMCGHYT Q I V W K ST R R I GCARVVCDDG..DVFM T CNYDPVGN I Y V GERPY.....	200				
GmPR-1-8	.NGQMCGHYT Q I V W S T R K I GCASVVC S GGK.GTFM T CNYDPPGN I Y Y GERPY.....	175				
GmPR-1-9	.GG.ECLHYT Q V V W A NS V RLGC A K V TC D NG..GTFITCNYDPPGN F VGERPY K ...L	174				
GmPR-1-10	.GG.ECLHYT Q V V W A NS V RLGC A K V TC D NG..GTFITCNYDPPGN F VGERPY K ...L	174				
GmPR-1-11	.GG.ECLHYT Q V V W A NS V RLGC A K V TC D NG..GTFITCNYDPPGN F VGERPY K ...L	174				
GmPR-1-12	.GG.ECLHYT Q V V W A NS V RLGC A K V TC D NG..GTFITCNYDPPGN F VGERPY K ...L	174				
GmPR-1-13	.GG.ECLHYT Q V V W A NS V RLGC A K V TC D NG..GTFITCNYDPPGN F VGERPY K ...L	174				
GmPR-1-14	79				
GmPR-1-15	.HD.ECLHYT Q I V WR D SV H LGCARAKCNND..WVF V IC S YSPPGN I EGERPY.....	161				
GmPR-1-16	.HD.ECLHYT Q I V WR D SV H LGCARAKCNNG..WVF V IC S YSPPGN I EGERPY.....	161				
GmPR-1-17	.GG.ECLHYT Q V V WR D SV R LGC A K V AC D NG..GTFITCNYAPPGN I Y V GQRPY.....	164				
GmPR-1-18	.GG.ECLHYT Q V V WR N SL R LGC A K V RC N NG..GTFIGCNYAPPGN I Y I GQRPY.....	164				
GmPR-1-19	.GG.ECRHYT Q V V W K NS V RLG C G K VRC D NG..GTFITCNYAPPGN I Y V GQRPY.....	165				
GmPR-1-20	.GG.ECLHYT Q V V W A NS L RLGC A K V TC D NG..GTFITCNYDPPGN L VGESPYE...L	174				
GmPR-1-21	.GG.ECLHYT Q V V WR D SV R LGC A K V TC D NG..GTFITCNYD PL	126				
GmPR-1-22	.PNHRCGVYT Q V V WR S S V ELGC A QATCVKEQ.ASLT I CFYNPPGN I Y V GESPY.....	174				
GmPR-1-23	.NGQMCGHYT Q I V W S T R K V GCASVVC S AGK.GTFM T CNYDPPGN I Y Y GERPY.....	168				
GmPR-1-24	.PGQMCGHYT Q I V W K S T	123				
consensus	* * * * * *	* * * * *	* * * * *	* * * * *	* * *	

 non conserved
 similar
 $\geq 80\%$ conserved