

	1	10	20	30
Prupe.2G147000.1	MDP.....	VAAHGRPLPPPFLSRDLHLHPHHQFQHHLHNNHN		
Prupe.2G108200.1	MAG.....	LDLGSASRFVHQQLQIPDLHL.....	QRPPD	
Prupe.2G239000.1	MANRWWAGNVAMGGGHVDSISSTP.....	PSLHL.....	RNTEE	
Prupe.8G182400.1	MSG.....			
Prupe.6G348200.1	MANRWWAGQVGLPGGVNETSAAATNSPMKNI	IKPDLGI.....		
Prupe.4G266900.1	MAA.....			
Prupe.5G037400.1	MAG.....	LDLGSAPRYVH.QLHRQDLHL.....	QQQQQTD	
Prupe.5G082200.1	MDT.....	HSLPPPFHTRDFHLQHHPQF...HHQQQQN		
Prupe.5G004600.1	MAG.....	YNESLSTTSAPTASRYVHQLFHPDLHLQVHQQQQLHHHHHQQQQ		
Prupe.3G173700.1	MAG.....			
Prupe.1G530300.1	MKG.....	GYVDTKGGNSKHPSPT.....	NHRECQT	
Prupe.1G034400.1	MDS.....	AATNSAALN.....	KQRELEI	

	40	50	60	70
Prupe.2G147000.1	SEDEQN.....	SSGGGGLISRGIK.....	RD	ENTSAATTSLLEG.....
Prupe.2G108200.1	SDDDH.....	NTPNRNNLFSSDH.....	HQNDVD	DDNPHHQGLDLV.....
Prupe.2G239000.1	QLDDHNTTNTPTNSSTSNPATTPNKQND	EHEDGRD	NNDLEADNQDPN.....	
Prupe.8G182400.1			LDPDP	
Prupe.6G348200.1	SMNNN.....	TTGTSSLGGSGGD.....	DDDD	RDNNSDDPKE.....
Prupe.4G266900.1	...DY.....	GGGVRAISLSQGG.....	RNSDD	DGSSQHSPPRSASGGVVV
Prupe.5G037400.1	SEDDA.....	VVNRSTGQFSAED.....		HHQGLDLG.....
Prupe.5G082200.1	SEDEQ.....	TGSSGLNNKGQK.....	RED	IDNDSGGNGGDLG.....
Prupe.5G004600.1	SDDSH.....		HQDDQD	HNNNKIESSDT.....
Prupe.3G173700.1	...GADLPVPSVVSKTAIDRS.....		QDAD	KSNSHHRPGIDA....I
Prupe.1G530300.1	SEERHPAATSSGTATVTNPSAQN			KSSAAADPSNPS.....
Prupe.1G034400.1	SINEN.....	NSGRS.....	SGGD	EDRD

	80	90	100	110
Prupe.2G147000.1	.....KELG..	STSAGEGEIT	RRPGRRP	AGSKNKA
Prupe.2G108200.1	.....	TPNPGSGDSGG	RRSRGRPP	CSRNKPKPP
Prupe.2G239000.1	.....	TGSG.SHD	SLEPGSSN	RRPGRRP
Prupe.8G182400.1	.....	PDAP.TNASPG	APPSA	RRPGRRP
Prupe.6G348200.1	.....	GAI	EVARRRP	RRPGRRP
Prupe.4G266900.1	VGGGSSSSKSK.FVSP	SGEIIIMS	KKPRGRPP	CSRNKPKPP
Prupe.5G037400.1	.....	GINPGSGDIVA	RRPGRRP	CSRNKPKPP
Prupe.5G082200.1	.....	KELNVTISGGDG	SEMT	RRPGRRP
Prupe.5G004600.1	.AATSSGGGGD.GDGG	SGSGGPT	RRPGRRP	CSRNKPKPP
Prupe.3G173700.1	LMAKLPKAVP.PISAAA	EGESI	RRPGRRP	CSRNKPKPP
Prupe.1G530300.1	.....	ADGATIEVI	RRPGRRP	CSRNKPKPP
Prupe.1G034400.1	.....	GAVEIGS	RRPGRRP	CSRNKPKPP

	120	130	140	150	160
Prupe.2G147000.1	VMEV	AN	GD	IMDSV	S
Prupe.2G108200.1	ILEV	SS	GD	VFD	SV
Prupe.2G239000.1	VLEI	SS	GD	IVDSI	A
Prupe.8G182400.1	VLEV	SS	GD	IVDSLV	TYASRR
Prupe.6G348200.1	VMEI	SN	ADI	ADSV	ARFART
Prupe.4G266900.1	VLEI	SAG	SD	VIEAII	QYARRR
Prupe.5G037400.1	ILEV	GN	GD	VFD	CVATYARRR
Prupe.5G082200.1	VMEV	AD	GD	DIVES	ATFARRR
Prupe.5G004600.1	VLEI	SAG	AD	IMESVS	IYARRR
Prupe.3G173700.1	AMEV	SS	GD	VSESL	TNFARRK
Prupe.1G530300.1	ILEV	PG	SD	DIVEA	VSRRFCCR
Prupe.1G034400.1	VMEV	AG	AD	VAESV	AQFARRR

	170	180	190
Prupe.2G147000.1	SVVTLHGRFEI	LSLSGSFL	PPPA
Prupe.2G108200.1	AVVTLHGRFEI	LSLTGSFL	PPPA
Prupe.2G239000.1	GVITLHGRFEI	LSLSGAFL	PSPS
Prupe.8G182400.1	TVVTLQGRFEI	LSITGTCL	PPPA
Prupe.6G348200.1	SVMALHGRFEI	LSLTGAFL	PGPA
Prupe.4G266900.1	LLSLHGRFEI	LSLSGSFM	DAVPATATC
Prupe.5G037400.1	SVVTLHGRFEI	LSLSGSFL	PPPA
Prupe.5G082200.1	SIVTLHGRFEI	LSLAGSFL	PPPA
Prupe.5G004600.1	SVVTLHGRFEI	LSLSGTVL	PPPA
Prupe.3G173700.1	AIVTLHGRFEI	LSLLGSIL	PPPA
Prupe.1G530300.1	ATVTFHGRFEI	LSISATFL	PQTT
Prupe.1G034400.1	AVVALQGRFEI	LSLSGAFL	PGPA

	200	210	220	230	240
Prupe.2G147000.1	LTIIYLAGV	QGVVGGSVV	CPLLASGPVVIMAASF	GNAA	YERLPLEEEE
Prupe.2G108200.1	LTIFLAGGS	QQVMGGNVV	GALIASGPVIVIASSF	TNVAYERLPLEEEE	QL....
Prupe.2G239000.1	LTIVYLAGG	QGVVGGIVM	GALVASGPMVVAATF	TNATYERLPLEEDE	QAGEGG.
Prupe.8G182400.1	LSIYLTGGQ	QGVAGGIVV	GPLRASGPVVLNVVS	FAHAVYDRLPLEEEE	EKEPSA
Prupe.6G348200.1	MTIYLAGVQ	QGVVGGSVV	GPLVASGPMVIAATF	SNATYERLPLEEEE	EVGGN.
Prupe.4G266900.1	FGICLAGAQ	QGVFGGIVGGKVV	AASAVVVVGATF	VNPTVLERLPLPGD	HD....
Prupe.5G037400.1	LTIFLAGVQ	QGVVGGSVV	CELTASGPVIVIASSF	TNVAYERLPLDEEE	QL....
Prupe.5G082200.1	LTIIYLAGG	QGVVGGSVV	GTLIASGPVVIMAASF	SNAA	YERLPLEEDE
Prupe.5G004600.1	LSIFLAGVQ	QGVVGGCVV	GPLLASGPVVLMAASF	GNAVFERLPLDDDE	EGTPTG
Prupe.3G173700.1	LTIIYLAGAQ	QGVVGGSVV	GALIASGPVVIMAASF	MNATFDRLPLEDEE	VAAAL.
Prupe.1G530300.1	FTISLAGPQ	GGQIVGGIVAG	ALVAAGTVYVIAASF	NNPSYHRLPGEDEA	AVRNSGS
Prupe.1G034400.1	LTIVYLAAG	NGQVVGGSVV	GSLVAA	GPVMVVAATF	ANATYERLPLEEDE

	250	260	270	280
Prupe.2G147000.1	V.....	QGS	GPLGSP.GV	GGQEHQQ.QSIQQQQQLLQDPNA
Prupe.2G108200.1	.....	QMQQPV	PQSSGG	GGSGGG..GGGGVTNP.....FPDPSS
Prupe.2G239000.1	.....	MQVQQQ	QQQQQS	GVNSA...GTGGNSGSQ.....GLVEHTS
Prupe.8G182400.1	P.....	RIQAPAA	ASQSS	GVTGGG..SGGDSYNL.....
Prupe.6G348200.1	.....	NSGQAA	GGGGSPP	GI
Prupe.4G266900.1	.....	DHEN	GVEGGAP...	AAEYEAQETKPGVNVESHCSVYGG
Prupe.5G037400.1	.....	QVQVP...	QGS	GGSGGG..GV
Prupe.5G082200.1	G.....	GG	GGSLGSPSGV	GHQQQQQ.HQQQQQQQLLAAEAAAN
Prupe.5G004600.1	GNGGGGGLQVQ	QP.TASQSS	GVTGGLGEGT	GGNSGGG.....
Prupe.3G173700.1	.....	QNQQ.....	.....	YQNGRHHHLDI.....
Prupe.1G530300.1	G.....	DAHSP...	PLSG	GVESGG.....HAP.....PSSQSC
Prupe.1G034400.1	G.....	GHHNN	GGSGNSP.TA	GGSSGAQLGSGGHQHQQQLPDPSS

	290	300	310
Prupe.2G147000.1	P...SLFHGM	PQSLN	S...CQLF.AEGY....WG...TARPP...Y
Prupe.2G108200.1	G...LPFFNL	LPLNNMP...	HQLQ.VD.....SWGGN.SAGRPP...Y
Prupe.2G239000.1	S...MAIYN	LPPNLLPN...	GQMP.PDV...WGPP..PPRPPPS.Y
Prupe.8G182400.1	.....	GVTIS	MGN...SGFP.GDVY...GWSSG...SSLP...K
Prupe.6G348200.1	G...VG VYN	LQPNMLPN	NGGQALS.HDQGAAYSSWAHGQGGGRAP...F
Prupe.4G266900.1	GG.....	GVAS	STPMNCQITSVF.DQVM...PWGPP...SRPP...Y
Prupe.5G037400.1	G...LPFFNL	LPLNMQN...	VQLF.ID.....GWAGNNSGGRPP...F
Prupe.5G082200.1	TNA...PLFHGL	LPPNLLNS...	MQLF.AEAAA...YWA...TGRPP...Y
Prupe.5G004600.1	.....	AGLFNL	LGGNMAAN...YPFSGPDLF...GWGGG.STPRPP...F
Prupe.3G173700.1	.....	SDLYGL	LPPNLLTN...GNVP.PEVY...SWASGRTMSK...T
Prupe.1G530300.1	G...MSMYS...	.....	CHLP.TDVL...WAPT..ARQPPPPPPY
Prupe.1G034400.1	GGLPNIYSHH	LPPNLLIF	NGGHGQLG.HEAY...AWA...RPP...Y