

Supplementary Table S2. Summary of conserved MoRFs in carboxy and amino terminal regions outside of the AP2 domains

Group I		
I N1*		
AT1G64380.1	DIIEKPhL	
AT1G36060.1	ELMEALqP	
AT1G22190.1	ELMEALlP	
AT5G65130.1	EFMEALeP	
Os06g11860.1	ELMKALeP	
AT4G39780.1	ELMKALqP	
AT1G78080.1	ELMDALvP	
Os09g20350.1	ELMRALeP	
Os03g09170.1	ELMGALaP	
Os02g51670.1	ELMKALeP	
Consensus sequences	[ED]-[LIF]-[MI]-[EDKRG]-[AK]-[LF]-x-[PL]	
I C1		
AT1G64380.1	FILarmPSfdpE.LIWE	
AT2G22200.1	FgLrkfPSv..E.IDWD	
AT1G36060.1	FmLgkcPSy..E.IDWA	
AT1G22190.1	NaLeKyPSy..E.IDWD	
Pp1s187_47V6.1	LlLgsvPSse.EqVDWS	
AT5G65130.1	MgLhkyPSl..E.IDWD	
AT4G39780.1	FgLekfPSv..E.IDWD	
Os06g11860.1	FhLykcPSw..E.IDWD	
AT1G78080.1	FsLeKyPSy..E.IDWD	
Os10g22600.1	FaLrryPSw..E.IDWD	
Os09g20350.1	FaLtkyPSy..E.IDWD	
Os03g09170.1	FILhkyPSl..E.IDWD	
Os08g31580.1	FaLtkyPSy..E.IDWD	
Os02g51670.1	FhLrkyPSw..E.IDWD	
Consensus sequences	L-x(3)-P-[SN]-x(1,3)-E-x(0,1)-[VLI]-[DI]-W	
Subgroup IIA		
IIa C1*		
AT4G06746.1	IRkKAaEVGarVDA	
AT4G36900.1	IRrKAaEVGaQVDA	
Os04g55520.1	IRkKAiEVGsrrVDA	
AT3G50260.1	IRkKAteVGAQVDA	
AT2G23340.1	IRrKAaEVGAQVDA	
AT5G67190.1	IRkKAteVGAQVDA	
Os06g07030.1	IRkKAaEVGarVDA	
AT1G46768.1	IReKAaEVGarVDA	
Consensus sequences	I-R-x-K-A-x-E-V-G-x(2)-V-D-A	
IIa C2*		
AT4G06746.1	LDMNklP...Eay..G	
AT4G36900.1	VDLNklPpd.EtsddD	
Os04g55520.1	PDLNqaPps.EnsdaE	
AT3G50260.1	VDLNklPpd.EnlddD	
AT2G23340.1	VDLNklPpd.EnsdgD	
AT5G67190.1	VDLNklPpdPEssdeE	
Os06g07030.1	PDLNrePpt.DtsddE	
AT1G46768.1	PDLNqiP...Esg..D	
Consensus sequences	D-[ML]-N-x(2)-P-x(0,3)-[DE] EAR Motifs	
IIa C3		
AT1G71520.1	MEEdedkLsI	
Pp1s480_16V6.1	LEEvE.LaW	
AT1G74930.1	LDEsl.lIW	
Pp1s60_269V6.1	LEDvd.LaF	
Pp1s8_127V6.1	LEDvg.LaW	
Pp1s55_256V6.1	LEDve.LaW	
Pp1s155_21V6.1	LDDve.LaW	
Consensus sequences	[LM]-[ED]-[ED]-x(2,3)-[IL]-x-[FWI]	
IIa C4		
Pp1s259_96V6.1	EDLlqeL	
Pp1s480_16V6.1	DDInl.l	
Pp1s183_112V6.1	DDFne.W	
Pp1s155_21V6.1	DDLnf.L	
AT1G01250.1	DDFwegI	
Pp1s8_127V6.1	DDIkf.L	
Os06g11940.1	DDLav.W	
Pp1s259_97V6.1	EDLlqeL	
Pp1s55_256V6.1	DDInf.L	
Consensus sequences	[ED]-D-[ILF]-x(2,3)-[LIW]	
IIa C5		
Pp1s276_3V6.1	LWcF	
Pp1s15_189V6.1	LWcF	
AT1G19210.1	LWnF	
AT1G22810.1	VYdY	
Os02g54050.1	LWsF	
AT1G01250.1	LYqY	
Pp1s259_94V6.1	LWcF	
Pp1s15_186V6.1	LWcF	
AT5G21960.1	LWnF	
Pp1s259_97V6.1	LWsF	
AT1G71520.1	VYdY	
Pp1s259_96V6.1	LWsF	
AT1G74930.1	LWdF	
Pp1s117_23V6.1	LWsF	
Os06g09810.1	VYaF	
Pp1s55_253V6.1	LWfF	
Pp1s133_11V6.1	LWsY	
Os06g11940.1	VYaF	
Os06g09717.1	LWsF	
Consensus sequences	[LV]-[WYF]-x-[FY] LWSY Motif	
Subgroup IIB		
IIB C1*		
Pp1s119_43V6.1	PREIQFweVLnR	
Pp1s11_280V6.1	PREIQFavVLdR	
Pp1s87_98V6.1	PKEIQFavVLnR	
Pp1s86_33V6.1	PREIQFleVLnR	
Consensus sequences	P-[RK]-EIQF-x(2)-VL-x-R	
IIB C2*		
AT1G44830.1	EEgDir.LWNF	
Os06g10780.1	EEgDia.LWSF	
AT1G21910.1	EDaDip.LWSF	
AT1G77640.1	DDvDip.LWSF	
Os03g15660.1	EDgELmrLWSF	
Consensus sequences	[ED]-[ED]-x-[ED]-[LI]-x(1,2)-L-W-[SN]-F LWSY motif	
Subgroup IIIa		
IIIa C1		
AT1G71450.1	LWD	
Os11g13840.1	LWD	
Os02g35240.1	LWD	
Consensus sequences	L-W-D	
Subgroup IIIB		
IIIB C1		
Os02g45420.1	EsLWsY	
AT1G12630.1	EdLWgY	
AT2G36450.1	DyLWnF	
AT5G52020.1	DnLWsY	
AT1G63040.1	EsLWsY	
Os05g49700.1	ElIWeM	
Consensus sequences	[ED]-x-[LI]-W-x[YFM] LWSY-like Motif	
Subgroup IIIC		
IIIC N1*		
Os08g43200.1	KRpAGRtKFqETRHPV	
Os09g35010.1	KRpAGRtKFrETRHPV	
Os04g48350.1	KRrAGRtKFkETRHPV	
AT4G25490.1	KKpAGRkKFrETRHPi	
Os09g35020.1	KRpAGRtKFrETRHPV	
AT1G63030.1	KKrAGRriFkETRHPi	
AT5G51990.1	KKrAGRkKFrETRHPi	
Os06g03670.1	KRpAGRtKFrETRHPV	
Os01g73770.1	KRrAGRkKFrETRHPV	
Os09g35030.1	KRpAGRtKFrETRHPV	
AT1G12610.1	KKrAGRrvFkETRHPV	
AT4G25480.1	KKpAGRkKFrETRHPi	
Os02g45450.1	KRrAGRtKFkETRHPV	
AT4G25470.1	KKpAGRkKFrETRHPi	
Os08g43210.1	KRpAGRtKFhETRHPV	
Consensus sequences	K-[RK]-x-A-G-R-x(2)-F-x-E-T-R-H-P-[VI] Positively charged motif prior to AP2 domain	

IIic C1		
Os09g35010.1	DMpLWS	
Os04g48350.1	EVnLWS	
AT1G63030.1	DLsLWS	
AT5G51990.1	DVsLWS	
AT1G12610.1	DMSLWS	
AT4G25470.1	DVsLWS	
Os08g43200.1	EMeLWS	
AT4G25490.1	DVsLWS	
Os09g35020.1	DIA LWS	
Os06g03670.1	DVtLWS	
Os09g35030.1	DVpLWS	
AT4G25480.1	DVsLWS	
Os02g45450.1	EVqLWS	
Os08g43210.1	DVsLWS	
Consensus sequences [ED]-[VMLI]-x-L-W-S		

Subgroup IIId		
IIId C1*		
AT5G25810.1	EeLgE.IVELPsL	
AT4G32800.1	DdLdE.IVKLPsL	
Os02g13710.1	DeL.EaIVELPrL	
AT1G77200.1	EeLsE.IVELPsL	
AT5G11590.1	EeLgE.IVELPsL	
AT2G25820.1	E.LgD.IVELPsL	
Os06g36000.1	EeLeE.IVELPpI	
AT3G16280.1	ErL.EkIVELPnI	
Consensus sequences [ED]-x-L-x-[ED]-x-I-V-[EK]-L-P-x-L EDLL-like motif		

IIId C2		
Os04g46410.1	DdadDFFFgE	
Os04g46440.1	Dlp.DLLL.D	
AT4G32800.1	Esn.EFViFD	
Os02g43970.1	DaadDALF.D	
Os10g41130.1	Dlp.DLLF.D	
Os04g46400.1	Dlp.DLLL.D	
AT3G60490.1	Dlp.DLFT.D	
AT2G44940.1	Dlp.DLFTdE	
AT1G77200.1	EsIsEFVYvD	
Os02g43940.1	Dlp.DLLL.D	
Consensus sequences [ED]-x(2,3)-[ED]-[LFA]-[LFIV]-x(0,1)-[ED]		

IIId C3		
AT5G25810.1	DsadLW	
Os01g10370.1	ElapLW	
Os04g46410.1	EplvLW	
Os02g43970.1	EeplLW	
Os04g46400.1	Epl.LW	
Os10g41130.1	EeplLW	
Os04g46440.1	EepmLW	
Pp1s14_196V6.1	EfdnLW	
AT2G25820.1	Esf.LW	
Consensus sequences [ED]-x(2,3)-L-W		

Group IV		
IV N1*		
Os05g27930.1	Et.IkR.WaE	
Os01g07120.1	Et.I.KwWkE	
AT3G11020.1	Dr.LkK.WkE	
AT2G38340.1	EatLqR.WeE	
AT2G40340.1	Ei.L.RqWrE	
AT5G05410.1	Er.LkR.WkE	
AT2G40350.1	Ei.LrK.WrE	
Consensus sequences [ED]-x(1,2)-[LI]-x(0,1)-[RK]-x(0,1)-W-x-E		

IV N2*		
Os05g27930.1	KKGcmKKGKGGPEN	
Pp1s162_92V6.1	KKGamKKGKGGPEN	
AT1G75490.1	RKGcmRGKGGPDN	
Pp1s81_44V6.1	KKGcmKKGKGGPEN	
AT3G11020.1	KKGcmKKGKGGPDN	
AT2G40340.1	RKGcmKKGKGGPEN	
AT2G40350.1	RKGcmKKGKGGPEN	
AT5G05410.1	KKGcmKKGKGGPEN	
Pp1s23_27V6.1	KRGcmKKGKGGPEN	
Os08g45110.1	RKGcmKKGKGGPEN	
Os01g07120.1	KKGcmAKKGKGGPEN	
AT2G38340.1	KKGcmRGKGGPEN	
AT5G18450.1	RKGcmKKGKGGPEN	
Pp1s292_5V6.1	KKGamKKGKGGPEN	
Consensus sequences [KR]-[RK]-G-x(2)-[RKA]-G-K-G-G-P-[ED]-N Positively charged motifs		

Group V		
V N1*		
Pp1s17_332V6.1	MNLTISSIIEQGKPKtKk.WDpCGG..KvKEQaLqL	
Pp1s225_102V6.1	MNLTISSILEHGKPKsKtwWDsCGGsnKgREQgLlL	
Pp1s174_79V6.1	MNLTISSILEQGRPKsKnwWDpCGGg.KaREQgLqL	
Pp1s179_56V6.1	MNLTISSIIEQGKPKaKncWDpCGGg.KiREQgLqL	
Consensus sequences MNLTISSI-[IL]-E[QH]G-[RK]-PK-x-K-x(1,2)-WD-x-CGG-x(0,2)-K-x-[RK]-EQ-x-L-x-L		

V C1*		
Pp1s17_332V6.1	LQ1yPIPPPELPWESFAALVKQRATSAAKRARVPSS	
Pp1s225_102V6.1	LQ1hPIPPPELPWESFAALVKQRATSAAKRARVPSS	
Pp1s174_79V6.1	LQ1yPIPPPELPWESFAALVKQRATSAAKRARVPSS	
Pp1s179_56V6.1	LQq1PIPPPELPWESFAAVVKQRATSAAKRARVPSS	
Consensus sequences LQ-x(2)-PIPPPELPWESFAA-[VL]-VKQRATSAAKRARVPSS		

V C2		
AT5G11190.1	EDqlameMIEEL	
Os02g55380.1	EEqhvegMIDEL	
Os06g40150.1	EErialqMIEEL	
AT1G15360.1	EEkvalqMIEEL	
AT5G25390.1	DDqmamqMIEEL	
Os06g08340.1	EEqyvdaqMIEEL	
Os02g10760.1	EEkialqMIEEL	
Os04g56150.1	DEyvee.MIqBEL	
AT5G25190.1	EEdhieqMIEEL	
Consensus sequences [ED]-[ED]-x(4,5)-M-I-x-E-L		

Group VI-L		
VI-L N1		
Os01g04020.1	RrVrVvfeDpdATDsDSDDD	
AT1G68550.1	RkVrIivnDpyATDdSSSDE	
Os09g13940.1	RkVrVfcsDpdATDsSDEDD	
AT1G22985.1	RiVrIsftDmeATDsSSSED	
AT3G25890.1	RkLrFvvnDpyATDySSSEE	
AT4G27950.1	RlVrVsmtdRrdATDsSSDEE	
AT1G25470.1	RtVrIvftDpdATDdSSSSS	
AT4G23750.1	RiLrIsvtDpdATDsSSDDE	
AT1G49120.1	KtIsVicnDpdATDsSSDDE	
AT2G46310.1	KiVkiIvtDpcATDsSSDEE	
AT4G11140.1	RiLrIsvtDpyATDsSSDDE	
AT5G53290.1	KkVsIcytDpdATDsSSDED	
Os08g27220.1	RrIrIsysDpdATDsDSDDSD	
AT3G61630.1	RlVrItvtDpfATDsSSDDD	
Consensus sequences [KR]-x-[VLI]-x-[IVF]-x(3)-D-x(2)-A-T-D-x-[SD]-[SD]-[SDE]-[SED]-[SED] Highly charged SDE Motif		

VI-L N2		
AT3G25890.1	Rr.KRYVcEIdL	
AT1G68550.1	RkmKRIVrEInF	
Os09g13940.1	KkeRRFSrEIlI	
AT4G27950.1	RrvKRlInEIrV	
AT1G25470.1	RkvKRFVhEItF	
AT1G49120.1	KppKRYVsKiCv	
AT4G23750.1	RrvKKFVnEVyL	
AT1G22985.1	RrgKKLVkEivI	
AT2G46310.1	Rv.KRYVdEIrF	
AT4G11140.1	RrvKKYVKEVvL	
AT5G53290.1	RrvKRFVnEItV	
AT3G61630.1	Rv.KRYVKEIrF	
Consensus sequences [KR]-x(0,2)-[KR]-[KR]-[YIFL]-[VFIS]-x-[EK]-[VLI]-x-[IVLF]		

VI-L C1*		
AT1G25470.1	FLt.Denil.LdDYsllenDIn...FsrfEnsl.P	
Os01g04020.1	VLftEdml..LgDFaeed.DLldldIgd.DfcedF	
AT3G25890.1	LLteEnnnqmLdDYcgid.DLdi..Igl.Ecdg.P	
AT1G68550.1	FLadDg...FdDFgllD.DIgg..Fe..Dng..P	
Os08g27220.1	FL-dDn..d.M.DFklssdDLs...Fl.fDig..F	
Consensus sequences [FLV]-L-x(1,2)-[DE]-x(1,5)-[MLF]-x(0,1)-D-[FY]-x(4,5)-D-[LI]-x(1,4)-[FI]-x(1,3)-[ED]-x(2,4)-[FP]		

VI-L C2*		
AT1G25470.1	LPdc.DFt..EM	
Os01g04020.1	IPsgyDFgrgDM	
AT3G25890.1	LPdy.DFs..DV	
AT1G68550.1	LPdf.DFa..DV	
Consensus sequences	[LI]-P-x(2,3)-D-F-x(1,3)-[ED]-[VM]	

VI-L C3*		
AT1G49120.1	LLDfdpliDdFkleDfPmdDlglLgD	
AT2G46310.1	LPDlfrsgDyFwdsE.ItpDpl.FlD	
AT5G53290.1	PLDtptfl.DnYfn.EsPp.Ems.IfD	
AT4G27950.1	PLDitfl.DnYfn.EsLp.Dis.IfD	
AT3G61630.1	LPDislagEcFwdtE.IapDl1.FlD	
Consensus sequences	[LMP]-[LAP]-D-x(4,5)-[DE]-x-[FYI]-x(2,3)-[DE]-x(0,1)-[PLI]-x(1,2)-[ED]-x(2,3)-[LFI]-x-D	

VI-L C4		
AT1G68550.1	SalpDfd..FaDvedlqLa.D	
AT3G25890.1	SelpDyd..FsDve...I..D	
AT4G27950.1	SeikEigssFnDldds1Is.D	
AT4G23750.1	SwhmEdh..FgDigd1.FgsD	
AT1G25470.1	SttkEvfttF.DfsdvkIp.D	
AT2G46310.1	SwdvDef..FgDhl...L..D	
AT4G11140.1	SwhvEdh..FgDigd1.FgsD	
AT5G53290.1	SsikDmgstFsDfdds1Is.D	
AT3G61630.1	SspwDvdhfF.DhhhsF..D	
Consensus sequences	S-x(3)-[DE]-x(2,4)-F-x(0,1)-D-x(2,5)-[LFI]-x(0,2)-D	

Group VI VI N1		
Os06g06540.1	VRVLCrDhDaTDS.SgdDD	
Os01g46870.1	VRIFwdDpDlTDS.SgeDE	
Os07g12510.1	VRIIfrDeDaTDSsSseDE	
Os03g60120.1	VRILvrDaDaTDSsSseDE	
Os01g12440.1	VRVFcdDfDaTDSsSdeDE	
Os05g25260.1	VRVYfvDaDaTDtD\$sgDE	
Consensus sequences	VR-[VI]-[LFYI]-x(2)-D-x-[DE]-x-TD-[ST]-x(0,1)-S-x(2)-D-[DE]	

VI C1*		
Os06g06540.1	DgFfsDVggd.Dl..FaAeP.F	
Os01g46870.1	DyFq.DLr...Dl..FpLnP.L	
Os05g25260.1	E.F..DWlpwwEgedF.VtAgL	
Os01g12440.1	DdFfgDIt...Dl..FqipV.V	
Consensus sequences	[DE]-x(0,1)-F-x(0,2)-D-[WVLI]-x(1,4)-[DE]-x(1,3)-F-x(0,1)-[ALIV]-x-[PVA]-x(0,1)-[FLV]	

Subgroup VIIa VIIa N1		
Os02g54160.1	MCGGAIihhLkghP	
AT3G16770.1	MCGGAIIsdYa..P	
Os03g08470.1	MCGGAILaeFipaP	
Os05g29810.1	MCGGAIIdFvp.P	
Os06g09390.1	MCGGAILsdLippP	
AT2G47520.1	MCGGAIIsdFi..W	
Os09g26420.1	MCGGAIIsGFlp.P	
Os07g42510.1	MCGGSILgdLhl.P	
AT3G14230.1	MCGGAIIsdFippP	
AT1G53910.1	MCGGAIIsdFippP	
Consensus sequences	MCGG-[AS]-I-[IL]-x(2)-[FLY]-x(1,3)-[PW]	

VIIa N2*		
Os02g54160.1	RRATeglLW	
AT3G16770.1	RKLTaeelW	
Os03g08470.1	KRVTashLW	
Os06g09390.1	RRVTagdLW	
AT3G14230.1	LRVTnefIW	
Os09g26420.1	RRVTadvLW	
Os07g42510.1	RTVNagdLW	
AT1G53910.1	RRVTsefIW	
Consensus sequences	[KRL]-[RKT]-[VAL]-[TN]-x(3)-[LI]-W	

VIIa N3		
Os02g54160.1	DEDFEADFeeF	
Os03g08470.1	VDDFEAAFeqF	
Os06g09390.1	EDDFEADFeeF	
Os09g26420.1	EEDFEADFreF	
Os07g42510.1	DDDFEADFeeF	
AT3G14230.1	DDDFEADFqgF	
AT1G53910.1	DAEFEADFqgF	
Consensus sequences	[DEV]-[EDA]-[DE]-FEA-[DA]-F-x(2)-F	

VIIa C1		
Os02g54160.1	EPyMrFL	
AT1G72360.1	ENqTeYF	
Os03g08470.1	DPfmLFQ	
Os06g09390.1	EPyMkFL	
AT2G47520.1	EDyMrFY	
Os09g26420.1	DPeMkYL	
AT3G14230.1	DDlMaYL	
Consensus sequences	[DE]-[PND]-x-[MT]-x-[FY]-[FYLQ]	

VIIa C2*		
Os02g54160.1	LWSFDDM	
Os03g08470.1	LWSFDDF	
Os06g09390.1	LWSFDDM	
AT3G14230.1	LWSLDEI	
Os09g26420.1	IWSLDEL	
Os07g42510.1	LWSFDDM	
AT1G53910.1	LWSIDEI	
Consensus sequences	[LI]-WS-[FLI]-D-[ED]-[FMLI] Extended LWSY motif	

Subgroup VIIb VIIb N1		
AT5G61890.1	KRpfggDeseer...EEdEnlFpvFsarsqhD	
Os09g11480.1	KRggggD.....DDwEaaFreFiagdddd	
Os09g11460.1	RRklavD.....EDwEaaFreFlsrhdhd	
AT5G07310.1	KRpfrgDesdekkeaDDEniFpfFsarsgyD	
Consensus sequences	KR-x(4)-D-x(0,8)-[DE]-[ED]-x-E-x(2)-F-x(2)-F-x(6)-D	

VIIb C1*		
Ppls149_253V6.1	PIqtLFggss....SrveKsiltsvPalkvsstg..WSpG	
Ppls90_184V6.1	PVqtLFgdamgiaskSvk.KplthsvPvlevspsg..WSmD	
Ppls124_33V6.1	PIqtLFqdtmgktsySak.KpsilavPpvrtsaip..WSlG	
Ppls127_75V6.1	PIhaLFeeaghvve.SkrqRvmkkptPitptter...LSvG	
Ppls105_212V6.1	PIqtLFgesli....Slk.KplihsvPavdvsvsqveWSlG	
Ppls487_24V6.1	PIqvPfeeaghvad.SkrqRtlkkptPitptteg....LSvG	
Consensus sequences	P-[IV]-x(2)-[LP]-F-x(4,9)-S-x(2,3)-[KR]-x(6)-P-x(6,10)-[LW]-S-x-[GD]	

VIIb C2*		
Ppls149_253V6.1	VFLNSDnPetkP.....R	
Ppls90_184V6.1	VILNSEsPeivAallq..K	
Ppls124_33V6.1	VIVNSEsPeivAtppqqrkK	
Ppls127_75V6.1	VILNSEaAcatPptphdaK	
Ppls105_212V6.1	VILNTEsPetkPts....R	
Ppls487_24V6.1	VILNSEaAcatPptphdaK	
Consensus sequences	V-[FI]-[LV]-N-[TS]-[ED]-x-[AP]-x(3)-[AP]-x(0,6)-[KR]	

VIIb C3*		
Ppls149_253V6.1	pFLIDLNFPPcl.D	
Ppls90_184V6.1	pFLLDLNFPPssdD	
Ppls124_33V6.1	pFLLDLNsPPcldE	
Ppls127_75V6.1	pFLLDLNqPPck.D	
Ppls105_212V6.1	sILLDLNFPPchdE	
Ppls487_24V6.1	pFLLDLNqPPcs1E	
Consensus sequences	[FI]-L-[LI]-D-L-N-x-P-P-x(2,3)-[ED] EAR-like Motif	

Subgroup VIIc VIIc N1*		
Os03g08500.1	MCGGAILAeLiPsa.PaaRrvTAghVWP	
Os03g08460.1	MCGGAILAdFtParvP..RrlTAaeLLP	
Os03g08490.1	MCGGAILANiiPatpP..RpaTAahVWP	
Consensus sequences	MCGGAILA-x-[LIF]-x-P-x(2,3)-P-x(0,2)-R-x(2)-TA-x(2)-[VL]-[WL]-P	

VIIc C1*		
Ppls61_230V6.1	EDdPylvsd..MArgMLiqPPsysddd.DS	
Ppls83_10V6.1	DDnFynqvde.MArgLMi rPPnndsddsDD	
Ppls1_34V6.1	EDqFdvrdl.YNalLIppPYyndtrd.DS	
Ppls199_50V6.1	DDdFynqvhe.MArgMMmqPPksdsddsDE	
Ppls296_32V6.1	DEiVsrssasdWft..PFedPWcsnhal.ED	
Ppls26_306V6.1	DDdPrnqmnr.IAqaMLidPPnhdsddtDE	
Ppls45_159V6.1	DEdPlgatwe.VPdeMMv.FLtpprevlyDS	
Consensus sequences	[ED]-[ED]-x-[VPF]-x(5,7)-[WVIMY]-[FPAN]-x(1,2)-[PML]-[FMLI]-x(1,2)-P-[WLPY]-x(4,7)-[ED]-[EDS]	

VIic C2		
Pp1s83_10V6.1	EDPPLcW	
Pp1s26_306V6.1	DDPPL.W	
Pp1s61_230V6.1	NGPSL.W	
Pp1s1_34V6.1	GGFSL.W	
Pp1s199_50V6.1	GDPLL.W	
Pp1s296_32V6.1	TDFPY.L	
Pp1s45_159V6.1	DDLPP.W	
Consensus sequences [TEDGN]-[DG]-[FLP]-[PS]-[YPL]-x(0,1)-[LW]		

VIic C3*		
Os03g08500.1	ALlFaDQYnhfnggayeSL	
Os06g47590.1	PLpFdLNMpppeeeId.MA	
AT4G34410.1	MMmMdFGNgdssdsdgn.TI	
Os04g52090.1	GVgLdLNLpppie....EA	
Os04g34970.1	PVrPlFHGgngweqrgdSA	
Os03g08460.1	PLsMaLQLqyaa....MI	
Os03g08490.1	PF1FgDQFgdlnggafaSL	
Os02g06330.1	PLpFdLNLpassp....SA	
Consensus sequences [LFVM]-x-[FPML]-x-[FLD]-[QHGN]-[YFGNML]-x(4,9)-[STEM]-[LAI]		

Subgroup VIIIA		
VIIIA N1		
Pp1s7_481V6.1	LKREYtlSss.D	
Pp1s293_60V6.1	LKRDYssSsddE	
Pp1s293_53V6.1	VKREY..SphgE	
Pp1s126_30V6.1	VNSDYccSss.D	
Pp1s21_239V6.1	LKREYssSsdd	
Pp1s7_472V6.1	LKREFvySsseE	
Pp1s21_247V6.1	LKREFvsSde.E	
Consensus sequences [VL]-[KN]-[RS]-[DE]-[FY]-x(0,2)-S-x(2,3)-[ED]		

VIIIA N2*		
Pp1s7_481V6.1	KRvrVICTDPDATDSSsDEeDn.F	
Pp1s293_60V6.1	KRvrVICTDPDATDSSgDEeDs.F	
Pp1s293_53V6.1	KRvrVICTDPDATDSSsDEeDt.I	
Pp1s126_30V6.1	KR..VICTDPDATDSSsDEkDn.F	
Pp1s21_239V6.1	KRvrVICTDPDATDSSsDEeDn.F	
Pp1s7_472V6.1	KRvrVICTDPDATDSSsDEeEs.F	
Pp1s21_247V6.1	KRvrVICTDPDATDSSsDE.EgsF	
Consensus sequences KR-x(0,2)-VICTDPDATDSS-x-DE-x(0,1)-[ED]-x(1,2)-[FI]		

VIIIA N3*		
Pp1s7_481V6.1	LRnsqqR.LvgEIytstes..Favness.....SDsELd...EpEmpSYH	
Pp1s293_60V6.1	ARnphkR.FvgEIqmesqs..Itedefs.....SDnEFn...EtEtqSSH	
Pp1s293_53V6.1	VRnsqrR.LvrEIhlset..Faaeess.....SDsDLd...EpEvpSYH	
Pp1s126_30V6.1	VRnphrR.Lq.EIhist....Mvdesa.....SDsEvd...ElEvpSYH	
Pp1s21_239V6.1	LRnsqrR.LvgEIhmsne...Fgaadels.....SDsELd...EpEvpSYH	
Pp1s7_472V6.1	MRssq.RvLvqEIdlsragseFmfmaesssa...SDsELdeleEsEvpSYH	
Pp1s21_247V6.1	MRssq.RvLvqEIdmfragpeLmamaksssssssSDsEFdeteEcEvpSYH	
Consensus sequences R-x(3,4)-RK-x(0,1)-[LF]-x(1,2)-EI-x(4,8)-[LFMI]-x(5,12)-SD-x-[DE]-[FLV]-x(1,4)-E-x-E-x(2)-S-[YS]-H		

VIIIA N4*		
Pp1s7_481V6.1	SpnFYdep.WeS.K.KnapRVlmKkV	
Pp1s293_60V6.1	SsnFYdks.WgS.RlKap.KVseKkV	
Pp1s293_53V6.1	SsnFYeks.WgS.K.RiapKMseKkV	
Pp1s126_30V6.1	SsrFYkks.WgSqK.Kal.KMpeKkM	
Pp1s21_239V6.1	SssFYdkp.WgSkK.Kap.KateK.V	
Pp1s7_472V6.1	SasFYynpsWkSkK.Ks..KVtqKtP	
Pp1s21_247V6.1	S..FYekplWkTmK.Ka..KVpgKtM	
Consensus sequences S-x(0,2)-FY-x(3,4)-W-x-[TS]-x(0,1)-[KR]-x(0,1)-[KR]-x(1,3)-[KR]-[VMA]-x(2)-K		

VIIIA C1		
AT1G53170.1	LdLDLNLAPP	
Os05g41780.1	FdLDLNCPPP	
AT3G15210.1	LdLDLNLPPP	
Os05g41760.1	LpFDLNePPP	
AT1G50640.1	FgFDLNFpPL	
AT3G20310.1	FgFDLNFpPL	
AT1G28370.1	LdLDLNFpPP	
AT5G44210.1	LnLDLNLAPP	
Os01g58420.1	FdLDLNLrPPP	
Consensus sequences [LF]-x-[LF]-D-L-N-x-[AP]-P-[LP] EAR Motif		

VIIIA C2*		
Pp1s7_481V6.1	MgScCdLgqvFLsDdFLFDFF	
Pp1s293_60V6.1	VgSaCdLgevFLsDnFLFDFF	
Pp1s293_53V6.1	VgSaCdLgdvFLsD.FLFDFF	
Pp1s126_30V6.1	VgSgSgLgevFLsDdGFMDWA	
Pp1s21_239V6.1	VeScCdLgevFLsDdFLFDFF	
Pp1s7_472V6.1	VgSgCdLdisLLpEdIFFDLP	
Pp1s21_247V6.1	VgSgCeLdevFLsDdLFFDFF	
Consensus sequences [VM]-x-S-x-[CS]-x-L-x(3)-[FL]-L-x-[DE]-x(0,1)-[FLI]-[FLM]-[FM]-D-[FLW]-[AP]		

VIIIA C3*		
Pp1s7_481V6.1	VDFsaGFdcFg.GD.IgdLaFgsdqnEsLdWfNya.DIL	
Pp1s293_60V6.1	LDistGFs.FleGD.LgnLaFdcdenEsMnWlnIs.DVL	
Pp1s293_53V6.1	LEIaaGFd.FlgGD.LgdLaFecdysEgLdWLnst.DIL	
Pp1s126_30V6.1	VEFgaGLE.F1.GddVdyLeFdcdgrEsFdWLngs.DIL	
Pp1s21_239V6.1	LDFaaGLE.FleGD.IgdLaFgsdqnEsLeWlnaa.DIL	
Pp1s7_472V6.1	LDFasGFd.F..GDvIgdFeFgeaetDsLaWFnsa.DML	
Pp1s21_247V6.1	LDFavGFd.F..GDdIgdFeFgaaesDsLdWFsnaaDMP	
Consensus sequences [LV]-[DE]-[FI]-x(2)-G-[FL]-x(1,2)-F-x(0,2)-GD-x(0,1)-[IVL]-x(2)-[FL]-x-F-x(5)-[DE]-x-[LFM]-x-W-[FL]-x(3,4)-D-[MIV]-[LP]		

Subgroup VIIIB		
VIIIB C1*		
AT5G13910.1	YVHSPMFsrMP	
Os04g32790.1	YVHSPLFSpMP	
Os02g32040.1	YVHSPMFSpMP	
Consensus sequences Y-V-H-S-P-[ML]-F-S-x-M-P		

VIIIB C2		
AT5G13910.1	DSFpQgFnyfGS	
Os04g32790.1	DGF.Q.LggsSS	
Os02g32040.1	DGF.Q.LggsSS	
AT1G28160.1	EGF.NsLp..ST	
Consensus sequences [ED]-[GS]-F-x(0,1)-[NQ]-x(0,1)-[FL]-x(1,3)-[GS]-[TS]		

Subgroup IXa		
IXa N1		
AT5G47220.1	DyaLLEsItrHLL	
AT4G17500.1	DyaFLEsItrHLL	
AT5G51190.1	DqsALDlItqHLL	
AT5G61600.1	Ea1AIDfIsqHLL	
Consensus sequences [ED]-x(2)-[FLA]-[IL]-[ED]-x-I-x(2)-H-L-L		

IXa C1		
Pp1s181_69V6.1	FLee.DMmlnnIsGF	
Os07g47790.1	FMDy.DAvma..GF	
Pp1s15_234V6.1	FVDsdDMfvvgIsSL	
Pp1s41_212V6.1	YVDsdDMfaigltsSL	
Pp1s14_458V6.1	YVDadDVftl...GL	
Os10g25170.1	VFDpyDVhgglA.SY	
Pp1s276_50V6.1	FVDseDMfti...GF	
Consensus sequences [VFY]-[FMLV]-[DE]-x(1,2)-D-[MVA]-x(3,6)-[SG]-[YFL]		

IXa C2*		
Pp1s181_69V6.1	DgMCLVPPptamVaET	
Pp1s15_234V6.1	NaMCIPPPpehApEA	
Pp1s41_212V6.1	DaMCIPPPdsehAtET	
Pp1s14_458V6.1	DaMCIPPPdsehAtET	
Pp1s276_50V6.1	DaMCIPPPapehAtET	
Consensus sequences [DN]-x-M-C-[LI]-[PV]-P-P-x(4)-[VA]-x-E-[TA]		

IXa C3*		
Pp1s181_69V6.1	DGDeattynWEPrLWSF	
Pp1s15_234V6.1	DGEegsst.WEPHLWSY	
Pp1s41_212V6.1	DGEegsnt.WEPHLWSY	
Pp1s14_458V6.1	DGEegsnt.WEPHLWSY	
Pp1s276_50V6.1	DGEegsti.WEPHLWSY	
Pp1s132_34V6.1	SDEgtsaysWEPrLWSF	
Consensus sequences [DS]-[DG]-[ED]-x(5,6)-W-E-P-x-L-W-S-[FY] LWSY motif		

Subgroup IXb		
IXb N1*		
Os04g46240.1	MDFpgda.EdFaLeFIrEhLLGgD	
Os02g43820.1	MDFsgdidDLIsLqLLhdqLLGvE	
Os04g46250.1	MDFhhgdaDdFaLeFIrEhLLGvD	
Consensus sequences MDF-x(4,5)-[DE]-x-x-[IF]-x-L-x-[LF]-[LI]-x-[DE]-x-LLG-x-[DE]		

IXb N2*	
Pp1s58_260V6.1	MaskyprKCrEha...SPgvggR
Pp1s243_70V6.1	MvgaswnKCrRtss1rsSPrtagR
Pp1s79_169V6.1	MgskiprRCaEqa...SPrgrrrR
Consensus sequences	M-x(6)-[KR]-C-x-[RE]-x(2,6)-S-P-x(4)-R
IXb C1*	
Os04g46240.1	P.SsWSWDQYwD
Os01g21120.1	PaGLWTFEDY.E
Os02g43820.1	P.SsWSWDQL.E
Os04g46250.1	P.SsWSWEQYwE
Consensus sequences	P-x(0,1)-[GS]-x-W-[TS]-[FW]-[ED]-[DQ]-[YL]-x(0,1)-[ED]
IXb C2*	
Pp1s58_260V6.1	LdDeLseIpnFvgE..LDheaMdfsshGEvYY
Pp1s243_70V6.1	LpDnLqeIs.Fc.D..FDspsLssenyGDvYF
Pp1s79_169V6.1	LdDdLasIeaImyEfdFDqeaMdcnifGDgYY
Consensus sequences	L-x-D-x-L-x(2)-I-x(1,2)-[FL]-x(1,2)-[DE]-x(0,2)-[FL]-D-x(3)-[LM]-x(5)-G-[ED]-x-Y-[FY]
Subgroup IXc	
IXc N1	
AT4G18450.1	M.EmdcnpnYYrmnnsnTsdplr...SS
Os07g22730.1	M.EqshshcwYygggmavTaaagagaaaSS
AT2G31230.1	M.Eysqss.MYssps..Sws.....SS
AT3G23230.1	MdDyslrp.FYassss.Ss.....SS
Pp1s265_50V6.1	M.DqndsddMFiySilkDashsaad.SS
Os07g22770.1	MaEhfshagMYigyta.DaaaSSSSSSSS
AT1G06160.1	M.Eyqtn..FLsgefspEnssSSSSSS.SS
Os09g39850.1	MsDrdrvdmhILtalma.DmadSSSSSSSS
AT3G23240.1	M.DpfliqsPFsgfsp.Eysig...SS
Consensus sequences	M-x(0,1)-[ED]-x(4,6)-[YIMFP]-[YLF]-x(2,6)-[EDST]-x(1,8)-S-S
IXc C1	
Os07g22730.1	PVLaLKgRHSkrkR
AT2G31230.1	PVMaLKrkHs1RnR
Os05g37640.1	PVLtLKrRRRiRkR
Os07g22770.1	PVLaLKrkRHSkrkR
AT1G06160.1	PVlaLKrkHsMrnR
Os09g39850.1	PVLaLKrkRHSiRkR
AT3G23240.1	PVVaLKrkHsMrRrR
Consensus sequences	PV-[MLI]-x-LK-x-[RK]-HS-x-R-x-R Postively charged Motif
IXc C2	
AT4G18450.1	FEFEDLGsdYLETLL
Os07g22730.1	LELEDLGadYLEELL
AT2G31230.1	VVFEDLGaeYLEQLL
Os09g39810.1	IEFEYLDghVLQEML
AT3G23230.1	FEFEYLDdkVLEELL
Os10g30840.1	IEFEYLDdkVLDDLL
Os07g22770.1	VELEDLGaeYLEELL
AT1G06160.1	VVLEDLGaeYLEELM
Os09g39850.1	VELEDLGadYLEELL
AT3G23240.1	VVFEDLGeqYLEELL
Consensus sequences	[FVLI]-[EV]-[FL]-E-[DY]-L-[GD]-x(2)-[YV]-L-[EDQ]-[EDQ]-[LM]-[LM] Extended EDLL Motif
IXc C3*	
Pp1s19_272V6.1	SEPafRHMYYETVERLASAISDPFRP
Pp1s345_35V6.1	SEPayRHMYYETVERLASAISDPFRP
Pp1s20_184V6.1	SEP.YKHMYESVERLASAISDPFRP
Pp1s121_50V6.1	SELaYRHMYESVERLASAISDPFRP
Consensus sequences	SE-[PL]-x(0,1)-[FY]-[KR]-HMYE-[ST]-VERLASAISDPFRP
Subgroup IXd	
IXd C1	
Os03g05590.1	VELecLDDkVLeDLL
Os04g18650.1	VELvyLDDkVLdELL
AT1G04370.1	FEFeyLDDsVLdELL
AT5G43410.1	FEFeyLDDsVLeELL
Os08g44960.1	IELeclDDqVLqEML
Consensus sequences	[VIF]-E-[LF]-x(2)-L-D-D-x-V-L-x-[ED]-[LM]-L EDLL Motif
Subgroup IXe	
IXe N1*	
Os03g07940.1	MkhmTrqEFiahLRRnSSG
Os07g03250.1	MknmTrqEYVahLRRkSSG
Os08g34360.1	MegqSReEYIgsLRRkSSG
Os01g59780.1	MqrmTrEYLatLRRkSSG
Os06g44750.1	MksmTrqEFiasLRRkSSG
Consensus sequences	M-x(3)-[ST]-R-x-E-[YF]-[LIV]-x(2)-L-R-R-x-S-S-G
IXe C1	
Os03g07940.1	LPvFalWn....D
Os07g03250.1	MP1FaaWt....D
Os08g34360.1	AVaYd.Iaaieh.R
Os01g59780.1	AVsYa.IsslasgR
Os06g44750.1	APhFynYlfgm..E
Consensus sequences	[ALM]-[VP]-x-[YF]-x(1,2)-[IFYW]-x(1,6)-[RDE]
Subgroup Xa	
Xa N1*	
Os02g34270.1	MaalFeAaEtaaIVaAltrVI
Os01g64790.1	MsgyYqAqEmstMVsALarVV
Os05g36100.1	LsgeYqAqEmstMVsALtwVV
Os02g34260.1	MaalFeAaEtaaIVaAltrVI
Consensus sequences	[ML]-x(3)-[FY]-x-A-x-E-x(3)-[MI]-V-x-AL-x(2)-V-[IV]
Subgroup Xb	
Xb C1	
Pp1s195_38V6.1	KAttrLIr1R
AT5G19790.1	K1rnLLhgK
Pp1s64_47V6.1	KAarLIr1R
Os07q10410.1	R1rtILthK
Os07g38750.1	R1rgILhhK
Os12g39330.1	KVtnLL11R
Consensus sequences	[RK]-x(3)-[LI]-[IL]-x(2)-[RK]
Xb C2*	
Os09g28440.1	LWDgLqDLmkLdea...Dt...Wfp.P
Os02g52670.1	IWDgLrEImmLd.....Dgsf.Wsm.P
Os04g57340.1	VVDdAdAstVrsrvaafDln..Lpp.P
Os08g36920.1	LWEgLqDLmqLd.....Egg..LswfP
Consensus sequences	[VIL]-[VW]-[DE]-x-[AL]-x-[ED]-[AIL]-x(2)-[VL]-x(0,7)-[DE]-x(0,4)-[LW]-x(2,3)-P
Subgroup Xc	
Xc C1*	
AT2G35700.1	DGFWDSFPYEBPFLeqsY
AT4G16750.1	DGFWDSFPYEDPFFlenY
Consensus sequences	D-G-F-W-D-S-F-P-Y-E-[ED]-P-F-[LF]-x(3)-Y
Xc C2*	
Os04g32620.1	DLmrYaqLLqG
Os02g32140.1	DLiqYArLLrS
Os11g06770.1	EYseYArFLqG
Consensus sequences	[ED]-[YL]-x(2)-Y-A-x-[FL]-L-x-[GS]

Note that the numbers in front represent groups/subgroups, followed by N(prior to the AP2 domain) or C(after the AP2 domain). The asterisks indicate the N