

MADS domain

I domain

AtSEP1	MGRGRVELKRIENKINRQVTFAKRRNGLLKKAYELSVLCDAEVALIIIFSNRGKLYEFCSSSN.MLKTLDROYKCSYGS...IEVNNKPAKELEN	90
AtSEP2	MGRGRVELKRIENKINRQVTFAKRRNGLLKKAYELSVLCDAEVALIIVFNSNRGKLYEFCSTSN.MLKTLDROYKCSYGS...IEVNNKPAKELEN	90
AtSEP3	MGRGRVELKRIENKINRQVTFAKRRNGLLKKAYELSVLCDAEVALIIIFSNRGKLYEFCSSSS.MLRTLDROYKCSYGAPEPNVPSREALAVELS.	93
AtSEP4	MGRGKVELKRIENKINRQVTFAKRRNGLLKKAYELSVLCDAEVALIIIFSNRGKLYEFCSSPSGMARTVDKVRKHSYAT...MDPN.QSAKDLQD	90
DcSEP1	MGRGRVELKRIENKINRQVTFAKRRNGLLKKAYELSVLCDAEVALIIIFSNRGKLYEFCSSGPS.MLKTLDROYKCSYGA...VEIN.KPSKELES	89
DcSEP3-1	MGRGRVELKRIENKINRQVTFAKRRNGLLKKAYELSVLCDAEVALIIIFSNRGKLYEFCSSPS.MLKTLDROYKCSNYGAPDNNVST.REALELS.	92
DcSEP3-2	MGRGRVELKRIENKINRQVTFAKRRNGLLKKAYELSVLCDAEVALIIIFSNRGKLYEFCSSPS.MLKTLDROYKCSNYAAPDSDVSTR.EQALELS.	92
DcSEP4-3	MGRGRVELKRIENKINRQVTFAKRRNGLLKKAYELSVLCDAEVALIIIFSNRGKLYEFCSSNSS.MLKTIEKYQRCSYGA...LETT.DILNNSQA	89
DcSEP4-1	MGRGRVELKRIENKINRQVTFAKRRNGLLKKAYELSVLCDAEVALIIIFSNRGKLYEFCSSSSS.IILTIEKYQRCSYGA...LEAS.GALNDSQA	89
DcSEP4-2	MGRGRVELKRIENKINRQVTFAKRRNGLLKKAYELSVLCDAEVALIIVFNSNRGKLYEFCSTSC.MNKTLDROYKCSYGS...LETS.QPSKETEQ	89
BvCMB1	MGRGRVELKRIENKINRQVTFAKRRNGLLKKAYELSVLCDAEVALIIIFSNRGKLYEFCSSSS.MAKTLDROYKCSYGA...LEAS.QPSKETEN	89
BvAGL9	MGRGRVELKRIENKINRQVTFAKRRNGLLKKAYELSVLCDAEVALIIIFSNRGKLYEFCSSPS.MLKTLDROYKCSNYGAPDNTVSTR.EALKELS.	92
BvSEP1	MGRGRVELKRIENKINRQVTFAKRRNGLLKKAYELSVLCDAEVALIIIFSNRGKLYEFCSSGPS.MLKTLDROYKCSYGG...VEVN.KPSKELES	89

K domain

AtSEP1	.SYREYLKLGKRYENLQRQQRNLLGEDLGPINSKELEQLERQLDGLSKQVRSIKTQYMLDQLSDLQNKHEQMLETNRALAMKLDLDMIGV.RSHHM	183
AtSEP2	.SYREYLKLGKRYENLQRQQRNLLGEDLGPINSKELEQLERQLDGLSKQVRCIKTQYMLDQLSDLQKKEHILLDANRALSMKLEDLDMIGV.RHHHI	183
AtSEP3	.SQQEYLKLGKRYDALQRTQRNLLGEDLGPLSTKLESLERQLDSSLKQIRALRTQFMLDQLNDLQSKERMLTETNKTLLRLRDLADGYQM.PLQLN	186
AtSEP4	.KYQDYLKLGKSRVEILQHSQRHLGEBLSEMDVNELEHLERQVDASLRQIRSTKARSMLDQLSDLKTKEEMLEETNRDLRRKLESDAALTQSFV	184
DcSEP1	.SYREYLKLGKRYEALQRTQRNLLGEDLGPLNPKBLDHLERQLESLSKQIRCIKTQSMLDQLDLDLQSKERMLTETNKTLLRDLADGYQM.DSQMR	182
DcSEP3-1	.SQQEYLRLKARYEALQRTQRNLLGEDLGPLSSKLESLERQLDVLKHTRSTRQYMLDQLADLQRKEQVLEANEAMTLKQRLIEANQA.TSSQW	185
DcSEP3-2	.SQQEYLRLKARYEALQRTQRNLLGEDLGPLNPKBLDHLERQLESLSKQIRCIKTQSMLDQLDLDLQSKERMLTETNKTLLRDLADGYQM.DSQMR	185
DcSEP4-3	.NYQEYLKLGKARVEVLQSQQRNLLGEDLAPLTIKDLQQLLEQLTSLKQIRSTKTSHELLDQLDLDLQKREQALTEENNRNLKLEESN...NNHQY	180
DcSEP4-1	.NYQEYLKLGKARVEVLQSQQRNLLGEDLAPLTIKDLQQLLEQLTSLKQIRSTKTSHELLDQLDLDLQKREQALTEENNRNLKLEESN...NNHQY	180
DcSEP4-2	SSYQEYLKLGKAKVDVLRSHRNLGEBLSELSTKLEQLERQLDGLSKQVRSIKTQYMLDQLADLQKKEEMLEESNRALKTKLEESC.....A	177
BvCMB1	.SYREYLKLGKAKVDVLRQRNLLGEDLSELSTKLEQLERQLDGLSKQVRSIKTQYMLDQLADLQKKEEMLEESNRALKTKLEESC.....A	176
BvAGL9	.SQQEYLKLGKARHEALQRTQRNLLGEDLGPLSSKLESLERQLDMSLKQIRSTRQYMLDQLADLQRKEHMLEANEAMTLKQRLIEANQA.SSLQW	185
BvSEP1	.SYREYLKLGKARHESLQRTQRNLLGEDLGPLNVKBLDQLERQLESLSKQIRSTKTSHELLDQLDLDLQNKHEALMEANKTLKTELDRIMVK.DTQQF	182

C-terminal domain

SEPI motif

SEPII motif

AtSEP1	GGGGWEGGEQ.NVTYA.....HHQAQSQGLYQPLECNP.TLQMGYDNPVCSEQITATTQACAQQQNGY.IPGWML.....	251
AtSEP2	GGG..WEGGDQQNIAYG.....HPQAHSQGLYQSLECDP.TLQIGYSHPVCSEQMAVTVQGCQQQNGY.IPGWML.....	250
AtSEP3	PNQ..EEVDHYGRHHHQ.....QQQHSQAFFQPLECEP.TLQIGYQ.GQQDGMGAGP.....SVNNY.MLGWLPYDNTS	250
AtSEP4	GSSAAEQQQHQQQQQGMSYQSNPPIQEACFFKPLQGNV.ALQMSHYNHNPANATNSATTS.QNVNGF.FPGWML.....	258
DcSEP1	QQT..WEG.QQ.HEQQN.....VQYAHSQHFLQPLDCNP.SLHLGYN.AETSDHLTVPTS.HAQVPGF.LPGWML.....	245
DcSEP3-1	NGQ..HDVG.YGRDHN.....PQAQGDHVFHHPLECEP.TLQIGYQQDQMNVTAGP.....SVNNF.MTGWML.....	244
DcSEP3-2	NG...HEVG.YGRDNDNPTAAHHHHHPDHAFFHPLQSQPTTLHIGYQQDQINVTQDGP.....SMNNF.MTGWLP.....	251
DcSEP4-3	STRLGWESQEQQ.....IPIQSEAFFQPLSCNQPSQISYQHP.LSPSEVDIAATS.QQIARFNIHGWML.....	244
DcSEP4-1	PSRITWEGEDHQNIPF.....NRIPTQSEAFFHPLCSNQ.PLQISYNHQQMGSNNEANVATTSQQQVSGYNIHGWML.....	250
DcSEP4-2	SFRPNWDG.....RQPGDGFPEPLPCNNN.LQIGYNEA..TQDQMN.ATTSQNGHGF.AQGWML.....	232
BvCMB1	SLRQWAEAPQNAFFT.....YVRQPAEAGFFPEPLPCNNNSLHIGYNAV..TQDHLNATTSHTNENSEF.TPTWML.....	243
BvAGL9	NV...HDIG.YDRQPA.....QPHDDSFHHPLECEP.TLQMGYQNDAVNAAAGG.....SVNNF.MPNWLP.....	240
BvSEP1	RQT..WDGSEQ.NVHYG.....QQHAQSQGLYQPLECNP.TLQIGYN.PESSEQMTVATS..HTQVPGF.LPGWMOGCFS	250