

Table S1: Genes and proteins included in the phylogenetic tree (Fig. 1)

Plant species	Gene or Protein	Accession Number
<i>Arabidopsis thaliana</i>	AtDOG1	NP_001330541
<i>Arabidopsis thaliana</i>	AtDOGL1	NM_117982
<i>Arabidopsis thaliana</i>	AtDOGL2	NM_117984
<i>Arabidopsis thaliana</i>	AtDOGL3	NM_117985
<i>Arabidopsis thaliana</i>	AtDOGL4	NM_117981
<i>Arabidopsis thaliana</i>	AtDOGL5	NP_188106
<i>Brassica rapa</i>	BrDOG1	RID45165
<i>Lepidum sativum</i>	LesaDOG1	ACV41800
<i>Lactuca sativa</i>	LsDOG1	ALS87234
<i>Sisymbrium officinale</i>	SoDOG1	AIN76390
<i>Brachypodium distachyon</i>	BdDOG1L1	XP_003565204
<i>Brachypodium distachyon</i>	BdDOG1L2	XP_003565926
<i>Brachypodium distachyon</i>	BdDOG1L3	XP_003567594
<i>Brachypodium distachyon</i>	BdDOG1L4	XP_003560850
<i>Brachypodium distachyon</i>	BdDOG1L5-1	XP_003566099
<i>Brachypodium distachyon</i>	BdDOG1L5-3	XP_003564437
<i>Brachypodium distachyon</i>	BdDOG1L5-4	XP_003564436
<i>Hordeum vulgare</i>	HvDOG1L1	BAJ05340
<i>Hordeum vulgare</i>	HvDOG1L2	AK248238
<i>Hordeum vulgare</i>	HvDOG1L3	BE601551
<i>Hordeum vulgare</i>	HvDOG1L5-2	BAJ94197
<i>Hordeum vulgare</i>	HvDOG1L5-3	BAJ90602
<i>Oryza sativa</i>	OsDOG1L1	AK106273
<i>Oryza sativa</i>	OsDOG1L3	BAB64034
<i>Oryza sativa</i>	OsDOG1L4	CM000126
<i>Oryza sativa</i>	OsDOG1L5-1	NP_001049945
<i>Oryza sativa</i>	OsDOG1L5-3	EAZ36566
<i>Oryza sativa</i>	OsDOG1L5-4	EAY98526
<i>Sorghum bicolor</i>	SbDOG1L1	XP_002455164
<i>Sorghum bicolor</i>	SbDOG1L2	XP_002441508
<i>Sorghum bicolor</i>	SbDOG1L4	XP_002456383
<i>Sorghum bicolor</i>	SbDOG1L5-1	XP_002457410
<i>Triticum aestivum</i>	TaDOG1L1	BAJ05339
<i>Triticum aestivum</i>	TaDOG1L2	AK332921
<i>Triticum aestivum</i>	TaDOG1L4	AK330689

<i>Triticum aestivum</i>	TaDOG1L5-1	AK330559
<i>Zea mays</i>	ZmDOG1L2	NP_001152723
<i>Zea mays</i>	ZmDOG1L3	NP_001145406
<i>Zea mays</i>	ZmDOG1L4	ACG36725
<i>Zea mays</i>	ZmDOG1L5-1	NP_001132337
<i>Zea mays</i>	ZmDOG1L5-3	ACN26043
<i>Zea mays</i>	ZmDOG1L5-4	NP_001169220