

Table S2: *Arabidopsis thaliana* (Ath), *Amborella trichopoda* (Am), *Selaginella moellendorffii* (Se), *Chlamydomonas reinhardtii* (Cre), *Chlorella variabilis* (Cva), *Coccomyxa subellipsoidea* (Csu), *Dunaliella salina* (Dsa) and *Volvox carteri* (Vca) sequences used for the design of the figure 1 and/or 2 sequence tree including their sequence identifier (Seq ID) followed by the sequence names (Name).

Seq ID	Name	Seq ID	Name
AT3g01090	AthSnRK1.1/AKIN10	Cre08.g384250.t1.2	CreCKIN2.15
AT3g29160	AthSnRK1.2/AKIN11	Cre17.g707650.t1.1	CreCKIN2.12
AT5g39440	AthSnRK1.3	Cre07.g329850.t1.1	CreCKIN2.16
AT5g08590	AthSnRK2.1	jgi ChlNC64A_1 57611 estExt_fgenes3_pg.C_80094	CvaCKIN2.1
AT3g50500	AthSnRK2.2	jgi ChlNC64A_1 33664 estExt_Genewise1Plus.C_10631	CvaCKIN2.3
AT5g66880	AthSnRK2.3	jgi ChlNC64A_1 34706 estExt_Genewise1Plus.C_50310	CvaCKIN2.4
AT1G10940	AthSnRK2.4	jgi ChlNC64A_1 57249 estExt_fgenes3_pg.C_50159	CvaCKIN2.5
AT5G63650	AthSnRK2.5	jgi ChlNC64A_1 135543 IGS.gm_14_00076	CvaCKIN2.6
AT4g33950	AthSnRK2.6	jgi ChlNC64A_1 138144 IGS.gm_2_00611	CvaCKIN2.8
AT4g40010	AthSnRK2.7	jgi ChlNC64A_1 138887 IGS.gm_22_00128	CvaCKIN2.9
AT1G78290	AthSnRK2.8	jgi ChlNC64A_1 140361 IGS.gm_3_00100	CvaCKIN2.10
AT2g23030	AthSnRK2.9	jgi ChlNC64A_1 142950 IGS.gm_5_00279	CvaCKIN2.11
AT1g60940	AthSnRK2.10	jgi ChlNC64A_1 143933 IGS.gm_6_00507	CvaCKIN2.12
AT5g01810	AthSnRK3.1	jgi ChlNC64A_1 145069 IGS.gm_8_00397	CvaCKIN2.13
AT5g07070	AthSnRK3.2	jgi ChlNC64A_1 140646 IGS.gm_3_00385	CvaCKIN2.14
AT4g14580	AthSnRK3.3	e_gw1.10.111.1 16775	CsuCKIN1
AT5g57630	AthSnRK3.4	e_gw1.3.241.1 12786	CsuCKIN2.2
AT5g45810	AthSnRK3.5	estExt_fgenes1_pg.C_100215 47867	CsuCKIN2.3
AT5g45820	AthSnRK3.6	estExt_fgenes1_pg.C_240007 49286	CsuCKIN2.4
AT2g34180	AthSnRK3.7	estExt_fgenes1_pm.C_150088 54361	CsuCKIN2.5
AT5g58380	AthSnRK3.8	estExt_Genemark1.C_30088 64800	CsuCKIN2.6
AT4g18700	AthSnRK3.9	estExt_Genemark1.C_30287 64904	CsuCKIN2.7
AT3g23000	AthSnRK3.10	estExt_Genemark1.C_90162 66347	CsuCKIN2.8
AT5g35410	AthSnRK3.11	estExt_Genemark1.C_240049 68309	CsuCKIN2.9
AT1g01140	AthSnRK3.12	estExt_Genewise1.C_100280 24306	CsuCKIN2.10
AT4g24400	AthSnRK3.13	estExt_Genewise1.C_190274 25912	CsuCKIN2.11
AT4g30960	AthSnRK3.14	estExt_Genewise1Plus.C_30441 27599	CsuCKIN2.12
AT5g01820	AthSnRK3.15	estExt_Genewise1Plus.C_30509 27636	CsuCKIN2.13
AT3g17510	AthSnRK3.16	estExt_Genewise1Plus.C_30548 27662	CsuCKIN2.14
AT2g26980	AthSnRK3.17	estExt_Genewise1Plus.C_100351 29722	CsuCKIN2.15
AT2g25090	AthSnRK3.18	estExt_Genewise1Plus.C_100354 29725	CsuCKIN2.16
AT2g38490	AthSnRK3.19	fgenes1_pg.20_#_52 44853	CsuCKIN2.17
AT1g29230	AthSnRK3.20	e_gw1.5.212.1 14400	CsuCKIN2.18
AT1g48260	AthSnRK3.21	Dusal.0281s00020 Dusal.0281s00020.1	DsaCKIN1
AT2g30360	AthSnRK3.22	Dusal.0029s00005 Dusal.0029s00005.1	DsaCKIN2.2
AT1g30270	AthSnRK3.23	Dusal.0056s00014 Dusal.0056s00014.1	DsaCKIN2.3
AT5g10930	AthSnRK3.24	Dusal.0106s00018 Dusal.0106s00018.1	DsaCKIN2.5
AT5g25110	AthSnRK3.25	Dusal.0181s00032 Dusal.0181s00032.1	DsaCKIN2.6
ERN08591	AmSnRK2(I)	Dusal.0186s00019 Dusal.0186s00019.1	DsaCKIN2.7
ERN01074	AmSnRK2(II)	Dusal.0617s00007 Dusal.0617s00007.1	DsaCKIN2.8
ERN14422	AmSnRK2(III)	Dusal.0826s00006 Dusal.0826s00006.1	DsaCKIN2.9
OST2-1	SeOST2.1	fgenes1_pm.C_Chrr_6000070 12650	OluCKIN1
OST1-1	SeOST1.1	eugene.0100010317 28923	OluCKIN2.2
OST3-1	SeOST3.1	ost_03_006_039 86646	OluCKIN2.3

Cre04.g211600.t1.1	CreCKIN1	Vocar.0025s0127.1	VcaCKIN1
Cre13.g570250.t1.1	CreCKIN1L	Vocar.0048s0006 Vocar.0048s0006.1	VcaCKIN2.2
Cre02.g075850.t1.1	CreCKIN2.1	Vocar.0027s0049 Vocar.0027s0049.1	VcaCKIN2.3
Cre12.g499500.t1.1	CreCKIN2.2	Vocar.0031s0053 Vocar.0031s0053.1	VcaCKIN2.5
Cre02.g075900.t1.1	CreCKIN2.3	Vocar.0004s0065 Vocar.0004s0065.1	VcaCKIN2.6
Cre11.g477000.t1.2	CreCKIN2.4	Vocar.0021s0079 Vocar.0021s0079.1	VcaCKIN2.7
Cre03.g209505.t1.1	CreCKIN2.5	Vocar.0029s0126 Vocar.0029s0126.1	VcaCKIN2.8
Cre11.g481000.t1.2	CreCKIN2.6	Vocar.0013s0156 Vocar.0013s0156.1	VcaCKIN2.9
Cre06.g292700.t1.2	CreCKIN2.7	Vocar.0024s0254 Vocar.0024s0254.1	VcaCKIN2.10
Cre10.g466350.t1.1	CreCKIN2.8	Vocar.0006s0284 Vocar.0006s0284.1	VcaCKIN2.11
Cre13.g568050.t1.3	CreCKIN2.14	Vocar.0001s0337.1	VcaCKIN2.12
Cre16.g657350.t1.2	CreCKIN2.9	Vocar.0001s1516 Vocar.0001s1516.1	VcaCKIN2.13
Cre17.g707800.t1.2	CreCKIN2.10	Vocar.0001s1602 Vocar.0001s1602.1	VcaCKIN2.14
Cre12.g485600.t1.2	CreCKIN2.13	Vocar.0001s1603 Vocar.0001s1603.1	VcaCKIN2.15
Cre02.g076000.t1.2	CreCKIN2.11	Vocar.0001s1604 Vocar.0001s1604.1	VcaCKIN2.16
