1 Supplementary Material

The details of experimental data is summarized as below

Table 1: seedling

GEO Number	Tissue cluster	sample Size	Description	Age	Col Name	Platform
GSE37159	seedling	8		5 days	GSM912634-GSM912641	Illumina HiSeq 2000
GSE38879	seedling	12		7 days	GSM951349-GSM951360	Illumina HiSeq 2000
GSE43865	seedling	6		9 days	GSM1072464-GSM1072469	Illumina Genome Analyzer IIx
GSE48767	seedling	6			GSM1184353-GSM1184358, GSM1401633-GSM1401638	Illumina HiSeq 2000
GSE51119	seedling	10		10 days	GSM1239079-GSM1239088	Illumina HiSeq 2000
GSE51772	seedling	8		5 days	GSM1252262-GSM1252269	Illumina HiSeq 2000
GSE53078	seedling	4		5 days	GSM1281703-GSM1281706	Illumina Genome Analyzer
GSE57086	seedling	6		5 days	GSM1390693-GSM1390698	GPL13222
GSE58082	seedling	6		4 days	GSM1400495-GSM1400500	GPL13222

Table 2: multi-tissue

GEO Number	Tissue cluster	sample Size	Description	Age	Col Name	Platform
GSE35288	flower	6		stage 15	SRR401413-SRR401430	Illumina HiSeq 2000
GSE35408	Hypocotyl	10		4.5 days	GSM867674-GSM867678, GSM951964-GSM951968	Illumina HiSeq 2000
GSE48235	rosette leaves	6		GSM1072464-GSM1072469	Illumina Genome Analyzer II	
GSE53952	seed	9		7-12 days	GSM1303953-GSM1303979	Illumina Genome Analyzer IIx etc..
GSE56326	carpels (15 developing inflorescences)	8		stage 8-13		Illumina HiSeq 2000

Table 3: Set 3

GEO Number	Tissue cluster	sample Size	Source	Age	Column Name	Platform
GSE36626	leaves	4		4 weeks	GSM897684-GSM897687	Illumina Genome Analyzer IIx
GSE39463	leaves	12				Illumina HiSeq 2000
GSE48235	leaves	6		9 days	GSM1072464-GSM1072469	Illumina Genome Analyzer II
GSE51304	leaves	18		3 weeks	GSM1242374-GSM1242391	GPL13222
GSE54677	leaves	20		adult	GSM1321694-GSM1321713	GPL13222