

**Table S11. Expression Comparison of different RBHs in 5 families containing both togetherTD-DEGs RBHs and singleTD-DEG RBHs.**

gene-1	gene-2	type-1	type-2	family	peason	treatmentNum-1	treatmentDetail-1	log2FoldChange-1	treatmentNum-2	treatmentDetail-2	log2FoldChange-2
VIT_08s0007g01400	VIT_08s0007g01410	togetherTD-DEG	togetherTD-DEG		0.8599995	1	TS-36h	2.5772	1	TS-36h	2.7517
VIT_17s0000g06110	VIT_17s0000g06130	togetherTD-DEG	togetherTD-DEG	G26	0.9752334	1	TS-36h	6.0744	1	TS-36h	4.0971
VIT_01s0026g02390	VIT_01s0026g02370	togetherTD-DEG	togetherTD-DEG		0.901626	1	TS-36h	5.1281	1	TS-36h	7.1085
VIT_17s0000g02950	VIT_17s0000g02930	singleTD-DEG	TD-notDEG		-0.030317	2	TS-18h;TS-36h	1.1297;2.2327	0	-	-
VIT_02s0025g04230	VIT_02s0025g04270	togetherTD-DEG	togetherTD-DEG		0.9974436	4	S-24h;S-36h;TS-18h;TS-36h	1.6102;2.1159;2.0559;5.6672	3	S-24h;TS-18h;TS-36h	1.7849;1.8298;4.6004
VIT_02s0025g04300	VIT_02s0025g04310	togetherTD-DEG	togetherTD-DEG	G80	0.9834967	2	TS-18h;TS-36h	2.9257;8.4588	3	S-36h;TS-18h;TS-36h	3.3912;3.0802;8.4333
VIT_04s0023g03540	VIT_18s0001g14480	singleTD-DEG	TD-notDEG		0.5999679	1	TS-36h	1.2886	0	-	-
VIT_09s0002g05400	VIT_09s0002g05370	togetherTD-DEG	togetherTD-DEG		0.993983	1	TS-18h	2.5356	2	TS-18h;TS-36h	5.1474;4.8079
VIT_06s0061g01480	VIT_06s0061g01490	togetherTD-DEG	togetherTD-DEG	G62	0.7753094	1	TS-36h	2.0438	1	TS-36h	1.596
VIT_09s0002g03630	VIT_09s0002g03640	TD-notDEG	singleTD-DEG		0.2875128	0	-	-	1	TS-24h	0.60855
VIT_04s0008g02520	VIT_04s0008g02510	togetherTD-DEG	togetherTD-DEG	G9	0.4125963	1	TS-36h	1.3846	1	TS-36h	2.1424
VIT_16s0148g00110	VIT_16s0148g00060	TD-notDEG	singleTD-DEG		0.8009673	0	-	-	1	TS-36h	0.98476
VIT_15s0048g01350	VIT_15s0048g01390	togetherTD-DEG	togetherTD-DEG	G32	0.502014	2	S-36h;TS-36h	0.89701;1.4697	1	TS-36h	0.95809
VIT_04s0008g05390	VIT_04s0008g05350	singleTD-DEG	TD-notDEG		0.8394256	2	S-36h;TS-36h	4.714;6.6501	0	-	-