

**Supplementary Table S4 Listed of known genes involved in seed dormancy and germination in turquoise and blue module.**

gene id	name	module	germination	Cer d18:0/16:0	Cer d18:0/22:0	PhytoCer d18:0/24:0
Glyma.11G054600	GmSPT	turquoise	0.928	0.979	0.937	0.951
Glyma.13G361700	GmGA3OX1	turquoise	0.907	0.944	0.951	0.93
Glyma.19G033900	GmCYP85A2	turquoise	0.899	0.93	0.902	0.916
Glyma.15G012100	GmGA3OX1	turquoise	0.899	0.916	0.93	0.909
Glyma.15G093900	GmGA2OX2	blue	-0.914	-0.972	-0.874	-0.979
Glyma.11G018000	GmABI1	blue	-0.907	-0.951	-0.839	-0.986
Glyma.19G194500	GmABI5	blue	-0.907	-0.951	-0.944	-0.944
Glyma.11G055700	GmABA1	blue	-0.907	-0.951	-0.839	-0.986
Glyma.10G071700	GmABI5	blue	-0.907	-0.797	-0.839	-0.832
Glyma.11G180800	GmABA2	blue	-0.894	-0.879	-0.767	-0.936