Genome-wide analysis of the MYB gene family in Two Vernicia Species

Supplementary Materials

Figure S1: Multiple sequence alignments for the sequence with complete MYB domain. Multiple sequence alignment was accomplished by BioEdit and DNAMAN software. The blue shadow, pink shadow and black shadow respectively represent the proportion of conserved amino acid residues > 50%, >75 and 100%.
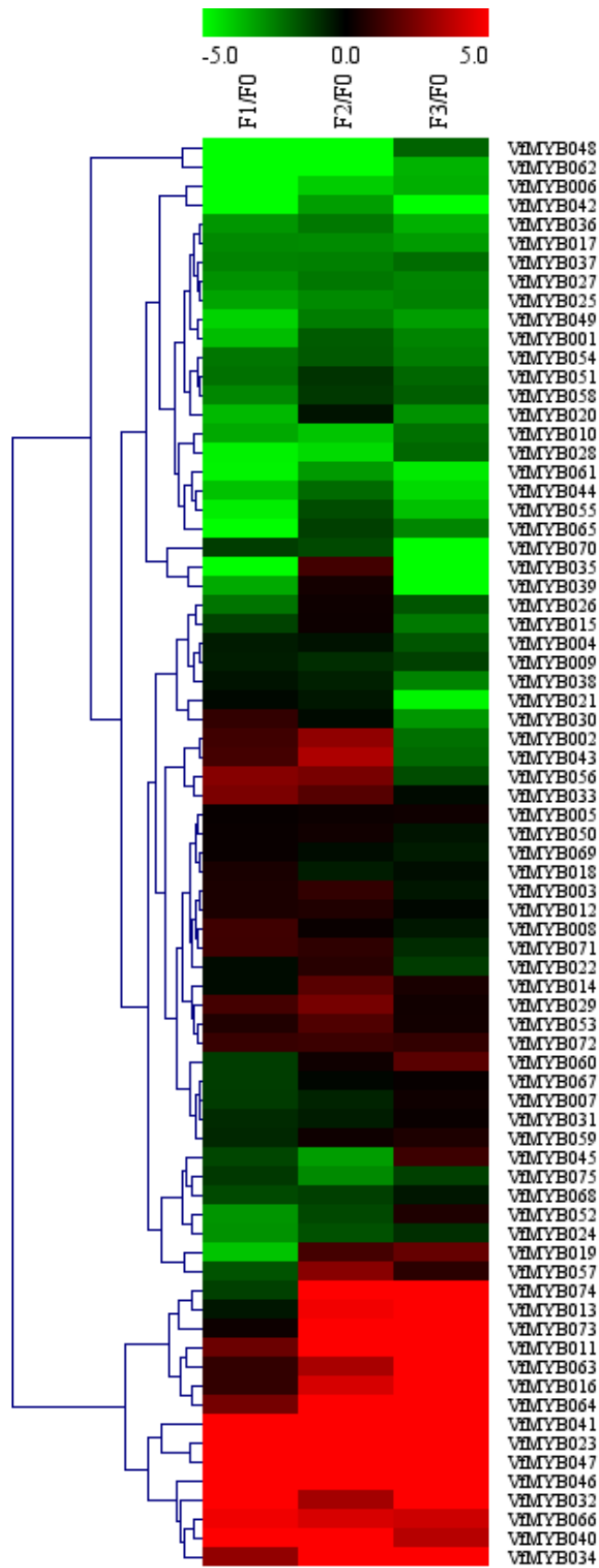
Figure S2: Expression profiles under infection by *F. oxysporum* in *V. fordii*.
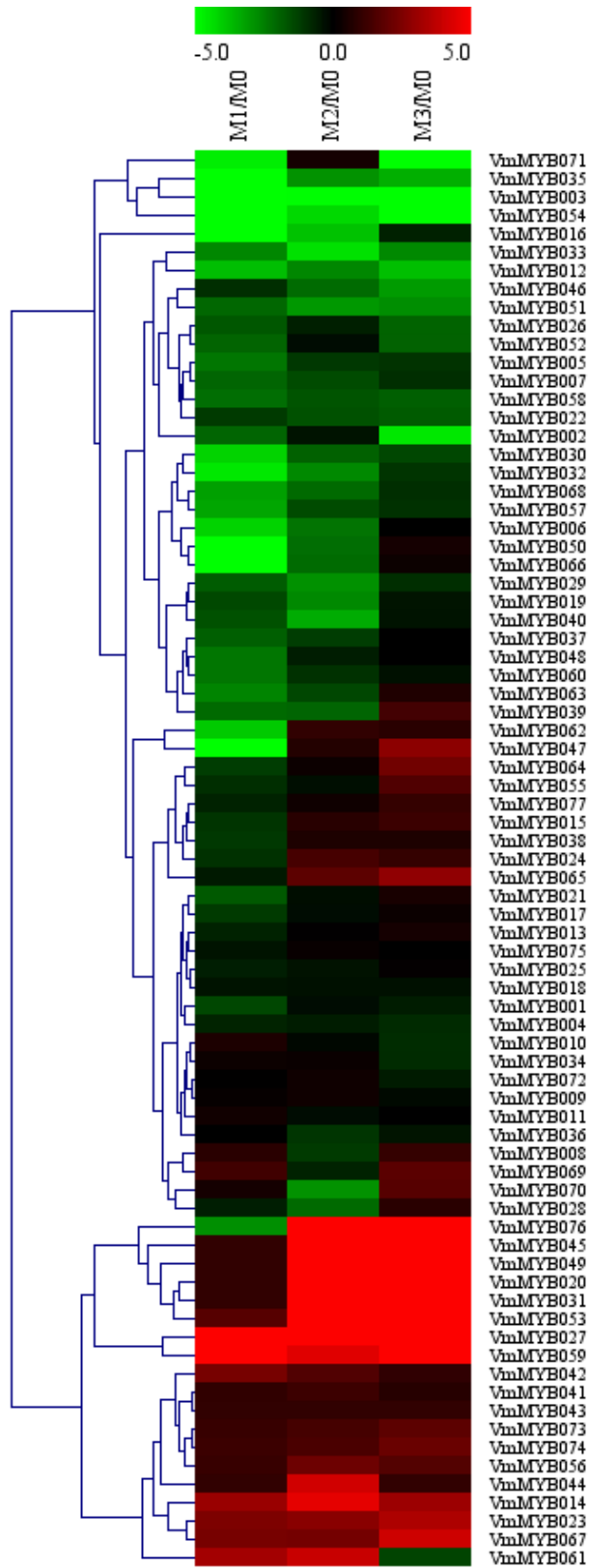
Figure S3: Expression profiles under infection by *F. oxysporum* in *V. Montana*.

Table S1.

The nonsynonymous and synonymous substitution ratio (ka and ks) of the duplicated genes.

		Method	Ka	Ks	Ka/Ks	P-Value(Fisher)
VfMYB010	VmMYB032	NG	0	0.00973968	0	0
VfMYB019	VmMYB022	NG	0	0.0163624	0	0
VfMYB058	VmMYB008	NG	0	0.0167041	0	0
VfMYB003	VmMYB027	NG	0.00175822	0.039334	0.0446996	0.000516185
VfMYB072	VmMYB074	NG	0.00176724	0.019051	0.0927637	0.0327365
VfMYB012	VmMYB034	NG	0.00406656	0.0432242	0.0940807	0.002188
VfMYB052	VmMYB031	NG	0.00215487	0.0164029	0.131371	0.10389
VfMYB031	VmMYB007	NG	0.01221	0.0795659	0.153458	0.00302661
VfMYB030	VmMYB040	NG	0.00364069	0.0231698	0.157131	0.0324978
VfMYB051	VmMYB005	NG	0.0037521	0.0226209	0.165869	0.0578724
VfMYB029	VmMYB041	NG	0.005734	0.0283449	0.202293	0.0417717
VfMYB053	VmMYB042	NG	0.0117464	0.0565472	0.207728	0.0232356
VfMYB013	VmMYB045	NG	0.0203269	0.0937741	0.216764	0.000305005
VfMYB060	VmMYB038	NG	0.00707194	0.0258012	0.274094	0.0723635
VfMYB066	VmMYB073	NG	0.00949058	0.0220953	0.42953	0.44069
VfMYB075	VmMYB077	NG	0.0479113	0.0919707	0.520941	0.119258
VfMYB035	VmMYB035	NG	0.00466866	0.00888032	0.525731	0.496194
VfMYB006	VmMYB052	NG	2.30671	3.73095	0.618264	0.530365
VfMYB008	VmMYB036	NG	1.692	2.43366	0.695249	0.260495
VfMYB015	VmMYB023	NG	0.0247142	0.0350926	0.704257	0.481764
VfMYB022	VmMYB046	NG	2.10217	2.38699	0.880678	0.884878
VfMYB056	VmMYB026	NG	0.176845	0.190784	0.926937	0.708047
VfMYB005	VmMYB051	NG	0.242176	0.227676	1.06368	0.886933
VfMYB001	VmMYB018	NG	0.0847576	0.0367226	2.30805	0.0823034
VfMYB009	VmMYB013	NG	0	0	NA	0
VfMYB017	VmMYB016	NG	0	0	NA	0
VfMYB023	VmMYB059	NG	0	0	NA	0
VfMYB025	VmMYB001	NG	0	0	NA	0
VfMYB026	VmMYB037	NG	0	0	NA	0
VfMYB027	VmMYB030	NG	0	0	NA	0
VfMYB028	VmMYB004	NG	0	0	NA	0
VfMYB036	VmMYB053	NG	0	0	NA	0
VfMYB037	VmMYB068	NG	0	0	NA	0
VfMYB038	VmMYB063	NG	0	0	NA	0
VfMYB039	VmMYB066	NG	0	0	NA	0
VfMYB044	VmMYB043	NG	0	0	NA	0
VfMYB047	VmMYB039	NG	0	0	NA	0
VfMYB048	VmMYB057	NG	0	0	NA	0
VfMYB049	VmMYB048	NG	0	0	NA	0
VfMYB054	VmMYB029	NG	0	0	NA	0

VfMYB059	VmMYB025	NG	0	0	NA	0
VfMYB062	VmMYB054	NG	0	0	NA	0
VfMYB065	VmMYB071	NG	0	0	NA	0
VfMYB068	VmMYB072	NG	0	0	NA	0
VfMYB070	VmMYB070	NG	0	0	NA	0
VfMYB071	VmMYB075	NG	0	0	NA	0
VfMYB020	VmMYB006	NG	0.00847181	0	NA	0
VfMYB050	VmMYB058	NG	2.31306	NA	NA	0.0368432
VfMYB055	VmMYB033	NG	0.00198389	0	NA	0