

**ESM 3 List of 18 R2R3 MYB proteins/genes from other plants and their reported functions.**

<b>Gene/Protein name</b>	<b>ID</b>	<b>Species</b>	<b>Functions</b>
AmMYB308	P81393	<i>Antirrhinum majus</i>	Activator for phenylpropanoid and lignin biosynthesis
GmMYB58	XP_003525887	<i>Glycine max</i>	Activator for isoflavonoid biosynthesis
GmMYB205	XP_003550620	<i>Glycine max</i>	Activator for isoflavonoid biosynthesis
GmMYB12B2	AEC13303	<i>Glycine max</i>	Activator for flavonoid biosynthesis
GmMYB100	ABH02893	<i>Glycine max</i>	Inhibitor for isoflavonoid (soybean) and flavonol ( <i>Arabidopsis</i> ) biosynthesis
GmMYB29	NP_001241360.1	<i>Glycine max</i>	Activator for isoflavonoid biosynthesis
GmMYB39	XP_006572975.1	<i>Glycine max</i>	Activator for isoflavonoid biosynthesis
GmMYB133	NP_001237536.2	<i>Glycine max</i>	Activator for isoflavonoid biosynthesis
GmMYB176	NP_001236048	<i>Glycine max</i>	Activator for isoflavonoid biosynthesis
LjMYB14	ARK19306.1	<i>Lotus corniculatus</i>	Activator for phenylpropanoid and isoflavonoid biosynthesis
MdMYB10	ACQ45201	<i>Malus domestica</i>	Activator for anthocyanin biosynthesis
PeMYB2	AIS35919	<i>Phalaenopsis equestris</i>	Activator for anthocyanin biosynthesis
PeMYB11	AIS35928	<i>Phalaenopsis equestris</i>	Activator for anthocyanin biosynthesis
PeMYB12	AIS35929	<i>Phalaenopsis equestris</i>	Activator for anthocyanin biosynthesis
SIMYB12	NP_001234401	<i>Solanum lycopersicum</i>	Activator for naringenin chalcone and flavonol biosynthesis
StMYB113	AND01219	<i>Solanum tuberosum</i>	Activator for anthocyanin biosynthesis
StMYBA1	ALA13582	<i>Solanum tuberosum</i>	Activator for anthocyanin biosynthesis
ZmC1	1613412E	<i>Zea mays</i>	Activator for anthocyanin biosynthesis

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