

Supplementary Table S3. The *Phaseolous vulgaris* orthologus gene and their expression pattern.

Gene ID	<i>Phaseolous</i> gene orthologue ID	<i>Phaseolous vulgaris</i> Gene Name/Function	Significant expression (type of tissue)
VRADI07G06240	<i>Phvul.010G085500</i>	DIHYDRODIPICOLINATE SYNTHASE	Leaf, Pod and Root Nodule
VRADI08G11310	<i>Phvul.010G073300</i>	LEUCINE-RICH REPEAT RECEPTOR-LIKE PROTEIN KINASE	Leaf and root
VRADI05G06040	<i>Phvul.009G160500</i>	CpeT/CpcT family (DUF1001	Leaf, Pod and Root Nodule
VRADI08G10870	<i>Phvul.007G213000</i>	Ethylbenzene dehydrogenase	-
VRADI08G20910	<i>Phvul.007G033200</i>	CCCH ZINC FINGER/TIS11-RELATED	Stem
VRADI06G12490	<i>Phvul.001G056400</i>	Glycosyl hydrolases family 17	Nodule
VRADI09G09030	<i>Phvul.004G083900</i>	HISTIDINOL-PHOSPHATE AMINOTRANSFERASE	Leaf, Pod and Root Nodule
VRADI07G24790	<i>Phvul.003G111900</i>	CALMODULIN-BINDING TRANSCRIPTION ACTIVATOR	Leaf, Root and Nodule
VRADI06G14930	<i>Phvul.001G024400</i>	LEUCINE-RICH REPEAT RECEPTOR-LIKE PROTEIN KINASE	Leaf, Root and Nodule
VRADI03G02620	<i>Phvul.001G165500</i>	SERINE PROTEASE/ABC TRANSPORTER B FAMILY PROTEIN TAGC-RELATED	Pod and Seed
VRADI06G03940	<i>Phvul.008G217700</i>	-	Leaf and Root Nodule
VRADI06G13450	<i>Phvul.001G049100</i>	LEUCINE-RICH REPEAT RECEPTOR-LIKE PROTEIN KINASE	Leaf
VRADI05G21880	<i>Phvul.005G007700</i>	PHOSPHOENOLPYRUVATE DIKINASE-RELATED	Root and Nodule
VRADI08G00070	<i>Phvul.007G280600</i>	-	Leaf and Root
VRADI05G20860	<i>Phvul.005G161200</i>	DOF zinc finger protein 1	Leaf and Root
VRADI01G04370	<i>Phvul.004G160100</i>	HOMEBOX PROTEIN CUT	Leaf, Pod, Seed and Root