

**Table S3 Screening of candidate genes related to plant hormone metabolism ( P VS IS )****GA**

Gene	Gene log2FoldChange	Gene description	Regulated Type
RchiOBHm_Chr3g0486971	-3.10	PREDICTED: gibberellin 2-beta-dioxygenase 2 [Fragaria vesca subsp. vesca]	Down
RchiOBHm_Chr4g0446271	-1.81	PREDICTED: gibberellin 2-beta-dioxygenase 8-like [Fragaria vesca subsp. vesca]	Down
RchiOBHm_Chr5g0014211	-2.27	PREDICTED: gibberellin 2-beta-dioxygenase-like [Fragaria vesca subsp. vesca]	Down
RchiOBHm_Chr5g0037711	-2.93	hypothetical protein PRUPE_ppa022054mg [Prunus persica]	Down
RchiOBHm_Chr1g0334761	1.30	PREDICTED: DELLA protein RGL1-like [Fragaria vesca subsp. vesca]	UP
RchiOBHm_Chr3g0493011	1.35	DELLA protein [Rosa lucieae]	UP
RchiOBHm_Chr2g0099441	8.10	PREDICTED: snakin-2-like [Fragaria vesca subsp. vesca]	UP
RchiOBHm_Chr2g0168411	1.78	ACM47320.1 Gasa4-like protein [Rosa x damascena]	UP
RchiOBHm_Chr2g0170521	2.05	PREDICTED: gibberellin-regulated protein 14-like [Fragaria vesca subsp. vesca]	UP
RchiOBHm_Chr6g0302811	3.53	XP_016726664.1	UP
RchiOBHm_Chr6g0302821	1.85	hypothetical protein TSUD_425650, partial [Trifolium subterraneum]	UP
RchiOBHm_Chr7g0181391	3.40	PREDICTED: gibberellin-regulated protein 6 [Fragaria vesca subsp. vesca]	UP

**JA**

Gene	Gene log2FoldChange	Gene description	Regulated Type
RchiOBHm_Chr4g0429271	1.08	PREDICTED: protein TIFY 9 [Fragaria vesca subsp. vesca]	Up
RchiOBHm_Chr1g0360811	1.30	PREDICTED: transcription factor MYC2 [Fragaria vesca subsp. vesca]	Up
RchiOBHm_Chr6g0301521	1.63	PREDICTED: jasmonate O-methyltransferase-like [Fragaria vesca subsp. vesca]	Up
RchiOBHm_Chr6g0281801	1.27	PREDICTED: transcription factor MYC2 [Fragaria vesca subsp. vesca]	UP
RchiOBHm_Chr1g0347941	2.08	PREDICTED: phospholipase A(1) DAD1, chloroplastic [Fragaria vesca subsp. vesca]	Up
RchiOBHm_Chr6g0260921	1.68	PREDICTED: allene oxide synthase-like [Fragaria vesca subsp. vesca]	Up
RchiOBHm_Chr6g0260931	1.48	PREDICTED: allene oxide synthase-like [Fragaria vesca subsp. vesca]	Up
RchiOBHm_Chr6g0261011	3.89	PREDICTED: allene oxide synthase-like [Pyrus x bretschneideri]	Up
RchiOBHm_Chr6g0261031	2.65	PREDICTED: allene oxide synthase 3-like, partial [Pyrus x bretschneideri]	Up
RchiOBHm_Chr6g0300221	1.14	PREDICTED: allene oxide synthase [Fragaria vesca subsp. vesca]	Up
RchiOBHm_Chr2g0163151	1.20	PREDICTED: allene oxide cyclase 4, chloroplastic-like [Fragaria vesca subsp. vesca]	Up
RchiOBHm_Chr7g0226911	1.15	PREDICTED: allene oxide cyclase 3, chloroplastic-like [Fragaria vesca subsp. vesca]	Up
RchiOBHm_Chr4g0441411	-1.83	PREDICTED: jasmonate O-methyltransferase-like [Fragaria vesca subsp. vesca]	Down

**CKs**

Gene	Gene log2FoldChange	Gene description	Regulated Type
RchiOBHm_Chr7g0179851	1.56	PREDICTED: two-component response regulator ARR5-like [Fragaria vesca subsp. vesca]	Up
RchiOBHm_Chr3g0483301	5.51	PREDICTED: zeatin O-glucosyltransferase-like [Fragaria vesca subsp. vesca]	Up
RchiOBHm_Chr3g0483281	2.44	PREDICTED: zeatin O-glucosyltransferase-like [Fragaria vesca subsp. vesca]	UP

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RchiOBHm_Chr3g0469741	1.25	-monophosphate phosphoribohydrolase LOG3 [Fragaria vesca subsp. vesca];PREDICTED: cytokinin riboside 5'	UP
RchiOBHm_Chr6g0291431	-3.46	IPT3 [Rosa hybrid cultivar]	Down
RchiOBHm_Chr6g0279791	-1.42	PREDICTED: cytokinin riboside[Prunus mume]	Down
RchiOBHm_Chr2g0123221	-1.50	PREDICTED: PHD finger protein At1g33420-like [Fragaria vesca subsp. vesca]	Down
RchiOBHm_Chr3g0453481	-1.59	PREDICTED: histidine-containing phosphotransfer protein 1-like [Fragaria vesca subsp. vesca]	Down

## SA

Gene	Gene log2FoldChange	Gene description	Regulated Type
RchiOBHm_Chr2g0124891	-1.25	PREDICTED: LOW QUALITY PROTEIN: regulatory protein NPR5-like [Fragaria vesca subsp. vesca]	Down
RchiOBHm_Chr2g0093681	-1.05	PREDICTED: regulatory protein NPR1-like [Fragaria vesca subsp. vesca]	Down

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