

**Table S1. Primer sequences used for qRT-PCR analysis**

Gene id	Gene function	Gene name	Primer sequence-FW	Primer sequence-RV
POPTR_005G079200v3	aspartate aminotransferase	<i>AspAT1</i>	GCAGAGGTTGAAGGGTTTGG	TGTAGGGTGGTCAGAGAAGC
POPTR_006G241600v3	aspartate aminotransferase 3	<i>AspAT4</i>	GTTGCAGGCAGGGTTGAAAG	GGCTTCAAAGAGTTTCTGGCG
POPTR_006G260200v3	aspartate aminotransferase 5	<i>AspAT5</i>	TGCACGTGGTATGGAGCTTT	TCGGGCAATCCTTTTCAGCT
POPTR_014G143300v3	aspartate aminotransferase 1	<i>AspAT7</i>	AGCAATCCTCCTGTTCAT	CAGCCATTACCTTCACTTC
POPTR_018G022200v3	aspartate aminotransferase 5	<i>AspAT9</i>	TCCTCCTGTTCATGGGGCTA	CCTCCCAGCCATCATTTCCA
POPTR_018G082500v3	aspartate aminotransferase 2	<i>AspAT10</i>	CACTGGCTTGAACACTGAACA	AAAAGATCCCCAGAAGCGGA
POPTR_005G172400v3	nitrate reductase 2 NADH-dependent	<i>NIA2.2</i>	AATGCCGAAGCCTGGTGG	CATGACTCGGCGTCGTTATC
POPTR_012G011700v3	glutamate synthase 1	<i>GOGAT2</i>	GGGAACCACTGGTAACCGAAG	AATCGTGAGTGCACCAACTC
POPTR_006G038400v3	glutamate synthase 1	<i>GOGAT1</i>	GTCCAGTCAACGCCACTCTC	CAAGTTTGCTACCTGCGGTT