

**Table S8**

<b>1103P +Mg vs SO4 +Mg; 4 days</b>				
<b>Probe ID</b>	<b>V1 transcript ID</b>	<b>Description</b>	<b>Microarray FC</b>	<b>Real-time RT-PCR FC</b>
CHR3_JGVV38_152_T01	VIT_03s0038g03180	Flavin-containing monooxygenase	-2.01	-4.15 ± 0.59
<b>1103P -Mg vs SO4 -Mg; 4 days</b>				
<b>Probe ID</b>	<b>V1 transcript ID</b>	<b>Description</b>	<b>Microarray FC</b>	<b>Real-time RT-PCR FC</b>
CHR11_JGVV103_64_T01	VIT_11s0103g00010	Sodium transporter family protein	2.35	1.38 ± 0.40
CHR14_JGVV66_153_T01	VIT_14s0066g01670	Putative alpha-dioxygenase family protein	-2.06	-1.76 ± 0.01
CHR18_JGVV1_805_T01	VIT_18s0001g11430	Cytochrome P450 CYP82D47	-3.90	-5.41 ± 1.01
<b>1103P +Mg vs SO4 +Mg; 14 days</b>				
<b>Probe ID</b>	<b>V1 transcript ID</b>	<b>Description</b>	<b>Microarray FC</b>	<b>Real-time RT-PCR FC</b>
CHR7_JGVV31_256_T01	VIT_07s0031g02820	Magnesium transporter CorA	2.04	18.22 ± 1.42
<b>1103P -Mg vs SO4 -Mg; 14 days</b>				
<b>Probe ID</b>	<b>V1 transcript ID</b>	<b>Description</b>	<b>Microarray FC</b>	<b>Real-time RT-PCR FC</b>
CHR13_JGVV106_43_T01	VIT_13s0106g00580	Potassium channel AKT1	-2.91	-2.59 ± 0.11
CHR13_JGVV67_99_T01	VIT_13s0067g02360	Peroxidase	-2.55	-5.48 ± 1.71
CHR19_JGVV93_24_T01	VIT_19s0093g00350	Glutathione S-transferase	2.13	2.52 ± 0.26

**Table S9**

<b>Probe ID</b>	<b>V1 transcript ID</b>	<b>Description</b>	<b>Forward primer</b>	<b>Reverse primer</b>
CHR11_JGVV103_64_T01	VIT_11s0103g00010	Potassium-sodium symporter HKT2	5'-AGACCCCTAAACTCAGTG-3'	5'-CTCCATCTCCAACAAATCCA-3'
CHR13_JGVV106_43_T01	VIT_13s0106g00580	Potassium channel AKT1	5'-TGGAAGGAGTTTGGTGGAG-3'	5'-TTGCTGTCGGATTCATTGG-3'
CHR13_JGVV67_99_T01	VIT_13s0067g02360	Peroxidase	5'-TGGAGAGATTAGGAAGAACTG-3'	5'-CAAGGATGGTGATACAAAGGG-3'
CHR14_JGVV66_153_T01	VIT_14s0066g01670	Putative alpha-dioxygenase family protein	5'-TTCATTGACTGAGGAGTTTAC-3'	5'-AAGGGTGGAGATTGTTGAG-3'
CHR18_JGVV1_805_T01	VIT_18s0001g11430	Cytochrome P450 CYP82D47	5'-TTGATATGAGCGAGAGTTTGG-3'	5'-CAAGCGTGGGAGATAAGAA-3'
CHR19_JGVV93_24_T01	VIT_19s0093g00350	Glutathione S-transferase	5'-CCCTACTTTGTCTCTCTGTA-3'	5'-CTTGTCTGTTTGTCTCCCTT-3'
CHR3_JGVV38_152_T01	VIT_03s0038g03180	Flavin-containing monooxygenase	5'-CTACTGCCATCCCTAAAATCA-3'	5'-ACCTCTTCCATTCTCCTTTC-3'
CHR7_JGVV31_256_T01	VIT_07s0031g02820	Magnesium transporter MRS2-F	5'-AAGAAGAAAAAACTGTTGGGTT-3'	5'-TATAAAGCATAAAAGACAAGGCG-3'
	VIT_08s0040g00980	Tubulin beta chain	5'-CCCCTCTCCTTACTATGA-3'	5'-ICTGGCACTATTACAACCTGG-3'
	VIT_06s0004g03220	Elongation factor 1-alpha	5'-GTGCGTCATAGTTTTCTGCC-3'	5'-AAAGAGGACACGACACAACAT-3'

