

Supplementary table 1

Accession number, genome annotations (<http://www.maizgedb.org/>) and primers used for quantification of transcript steady levels by qRT-PCR of maize genes addressed in this study.

Gene name	Accession number	Maize genome annotation	Name of primer	Sequence
Actin	J01238	GRMZM2G126010	Actin_for Actin_rev	CTCAACCCCAAGGCCAACAGAGAG GGCTCACACCATCACCTGAATCCA
APS reductase	AJ295032	-	APR_for APR_rev	GTCCAGGTTGATCCTTCCTT GTCAATGTTGCCCTTGTGGA
ATP sulfurylase 1	-	GRMZM2G051270	ATPS1_for ATPS1_rev	CAGATGATGTGCCTCTTAGTTGGAG GCATTGGAGAGGGAAAGATCGCAAC
ATP sulfurylase 2	-	GRMZM2G158147	ATPS2_for ATPS2_rev	TGATACAGTAGCAAAGGAGATGGCC GAAACCGTCTGGAGGATTCTCTCC
ATP sulfurylase 3	-	GRMZM2G149952	ATPS3_for ATPS3_rev	CCTGTTCTTCTGCTCCATCCACTG CAGTTGATTCTGGGTTGAGGACACC
Glutathione reductase	AJ006055	GRMZM2G172322	GR_for GR_rev	CATTTGGGCTGTTGGAGATG TGACGTAGCGCACACAAGAA
γ -EC synthetase	AJ302783	GRMZM2G020096	GSH1_for GSH1_rev	AGCTTAAGGAGCCATATCTGGACAG GCATAGTCCACATATTGCTCAAACCC
SULTR1;1	AF355602	GRMZM2G159632	SULTR1;1_for SULTR1;1_rev	TCCTGGCATTCTTCTGGTT GAGGGCTGCAAATGTTCTTC
SULTR1;2	EU974789	GRMZM2G080178	SULTR1;2_for SULTR1;2_rev	GGCGTGGTTTTCAAGTCTGT ATCTTCTTCGTCCGTCACC
SULTR4;1	ACG29567	GRMZM2G068212	SULTR4;1_for SULTR4;1_rev	CTACATCAAGACAGTTGCGTGAG GTA ACAGGGGACATCTCGAGGATCAC
β -tubulin	L10634	GRMZM2G043822	Tub_for Tub_rev	GATTTGCTCCACTGACCTCGCGG CGGAACATAGCAGATGCCGTGAG