Table S1. Gene family of selected GST genes in rice.

Gene Name	Locus ID	Synonym	Class	Pseudomolecule position	Mol. Wt. (Da)	Direction of transcription
OsGSTU5	Os09g20220	*OsGSTU5*	TAU	12120224 - 12119538	25842.58	Upward
OsGSTU6	Os01g37750		TAU	21442537 - 21441785	26022.7	Upward
OsGSTF10	Os01g27390	*OsGSTF10*	PHI	15618603 - 15621075	23930.56	Downward
OsGSTU30	Os10g38600	*OsGSTU30*	TAU	20265421 - 20266251	25780.31	Downward
OsGSTU37	Os01g72150		TAU	42173295 - 42174100	25733.44	Downward
OsGSTU41	Os01g72160		TAU	42174579 - 42175739	25523.19	Downward

Table S3. List of primers used for RT-PCR analysis of Cr (VI) stress responsive genes in rice roots.

Gene name (Locus ID)	Primers
OsGSTU5 (Os09g20220)	F: 5'-CTCGTCATCCTCGAGTACATCG-3' R: 5'-GCTTCTTGTCGACGTAGTCCG-3'
OsGSTU6 (Os01g37750)	F: 5'-CAGGATCGTGGACGCGGACAG-3' R: 5'-CCGCCGCGATGAGGCGTTCGAG-3'
OsGSTU10 (Os01g27390)	F: 5'-ATTAAGCAGACGGCATCTTCAG-3' R: 5'-GCATCATGTCACGCAACGCTGA-3'
OsGSTU30 (Os10g38600)	F: 5'-GATCTCCGCAACAAGAGCGACC-3' R: 5'-GTCGATGTACTGCACGATGATC-3'
OsGSTU37 (Os01g72150)	F: 5'-AGCTATCTGCGAATCACTTGTC-3' R: 5'-ACGGCAACGTGCACTTGTGATC-3'
OsGSTU41 (Os01g72160)	F: 5'-GCCGAGTCCCTCGTCGTCGTCCA-3' R: 5'-ATGGAGGGAGTACGTCTTAATC-3'
Actin	F: 5'-GAGTATGATGAGTCGGGTCCAG-3' R: 5'-ACACCAACAATCCCAAACAGAG-3'

Table S4. List of primers of both genes (OsGSTU30, OsGSTU41) used for cloning and transformation. Underline sequences showing sequence of restriction site.

Gene name(Locus ID)	Primers
OsGSTU30 (Os10g38600)	F1: 5'-GAAAACTCCCCGGGCGTAG-3' R1: 5'-CGACGCCTGCTTAAGCTGAG-3'
OsGSTU41 (Os01g72160)	F1: 5'-GCCACTAACCCGGTGTAAGC-3' R1: 5'-CAGCATCGAAATTCACGAG-3'
OsGSTU30 (Os10g38600)	F2: 5'-GTGCAGGAAATGGCAGGAGGAGGAG-3' R2: 5'-CTGAGTAAATTCAGTTGTTG-3'
OsGSTU41 (Os01g72160)	F2: 5'-GCAAGCAAAAAATGGTTAAGCT -3' R2: 5'-CGAGTAATAAAATTACTGC-3'
OsGSTU30 (Os10g38600)	F(BamHI): 5'-CGGGATCCCGATGGCACCAGGAGGAGGAGC-3' R(HindIII): 5'-CCCAAGCTTGGGCTGAGTAAATTCAGTTGTTTG-3'
OsGSTU41 (Os01g72160)	F(BamHI): 5'-GGGATCCCAATGGTTAAGCTAATCAGCGCCTTC-3' R(HindIII): 5'CCCAAGCTTGGGATTATTTCTGCAACTTTGCCTTGGC-3'