Supplemental Figure S1. Effect on growth of six contrasting genotypes after 7 d exposure of 50 μM As(V) under standard physiological conditions of 16 h light (115 μmol m$^{-2}$ s$^{-1}$) and 8 h dark photoperiod at 25±2°C. (A) Relative root length of six rice genotypes, (B) Relative root weight of six rice genotypes, (C) Relative shoot length inhibition of six rice genotypes, (D) Relative shoot weight of six rice genotypes. The relative values of different parameters have been calculated on the basis of growth of seedlings without As(V) exposure. All values are the mean of triplicates (±SD). Values marked with similar letters are not significantly (Duncan’s test: p<0.05) different.
Supplemental Figure S2. In-gel assay of proteins from roots of six contrasting genotypes after 24 h exposure of As(V) 0 µM and As(V) 50 µM. (A) SOD (B) APX (C) POD (D) GR. Samples were electrophoresed on a 10% native polyacrylamide gel. 25 µg total proteins were loaded per each well. The different isoforms are numbered from cathode to anode.
Supplemental Figure S3. Venn diagram of the number of probe sets up-regulated and down-regulated in response to As(V) stress with an adjusted p value of <0.05 and a 2 fold change in gene expression in six rice genotypes.
BRG-12
Up-regulated: 13988
Down-regulated: 15267

Common motif present with in HARG up-regulated genes (601)

Common motif present in HARG and LARG up-regulated genes (84)

Removal of common motifs of CN1646-5, NAYANMONI and CN1646-2 up-regulated

Unique HARG up-regulated: 372
Unique HARG down-regulated: 446

BRG-15
Up-regulated: 15153
Down-regulated: 14259

BRG-20
Up-regulated: 9270
Down-regulated: 14625

Common motif present with in HARG down-regulated genes (103)

Common motif present with in LARG up-regulated genes (777)

Common motif present with in LARG down-regulated genes (1244)

Removal of common motifs of CN1646-5, NAYANMONI and CN1646-2 down-regulated

Removal of common motifs of BRG-12, BRG-15 and BRG-20 up-regulated

Removal of common motifs of BRG-12, BRG-15 and BRG-20 down-regulated

CN1646-5
Up-regulated: 16028
Down-regulated: 9380

NAYANMONI
Up-regulated: 15085
Down-regulated: 13444

CN1646-2
Up-regulated: 5973
Down-regulated: 8692

Common motif present in HARG and LARG up-regulated genes (84)

Common motif present in HARG and LARG down-regulated genes (103)

Supplemental Figure S5. Flow chart for the prediction of common and unique motif for HARG and LARG.