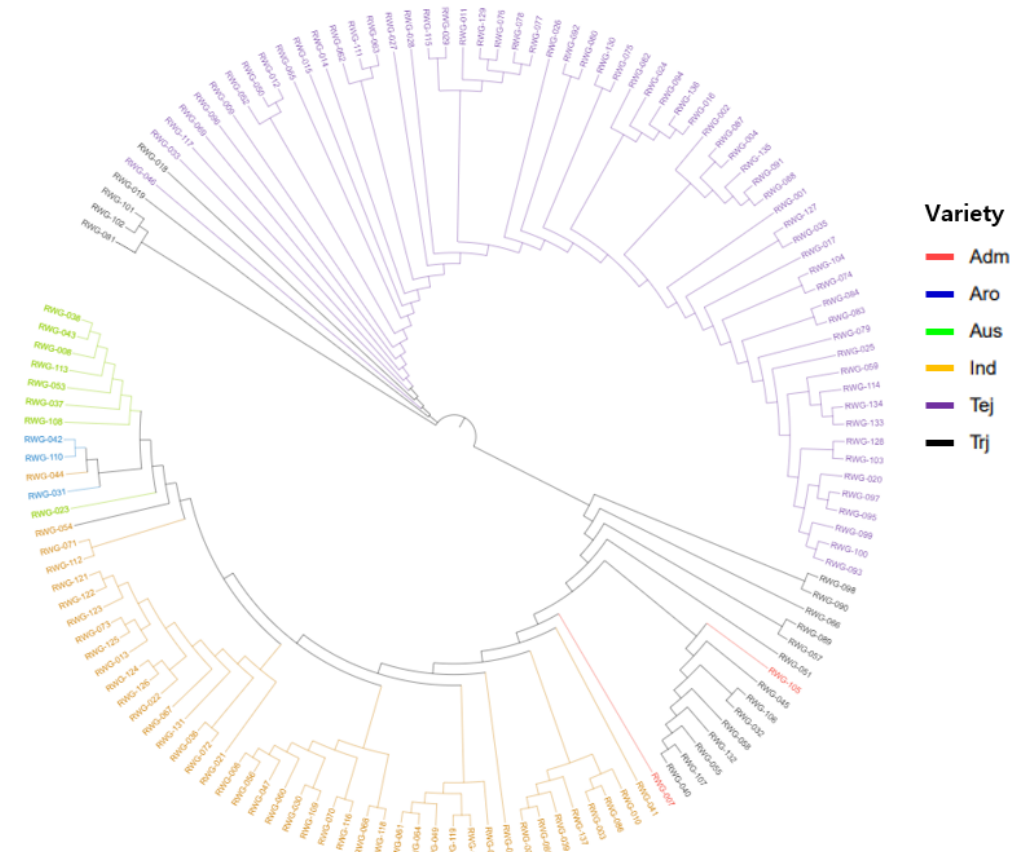Supplementary Materials

Figure S1. Principal Component Analysis (PCA) (PC1 and PC2). red, blue, green, orange, purple, and black represent the admixture, aromatic, indica, temperate japonica and tropical japonica rice subspecies, respectively. Adm: admixture, Aro: aromatic, Ind: indica, Tej: temperate japonica, Trj: tropical japonica.
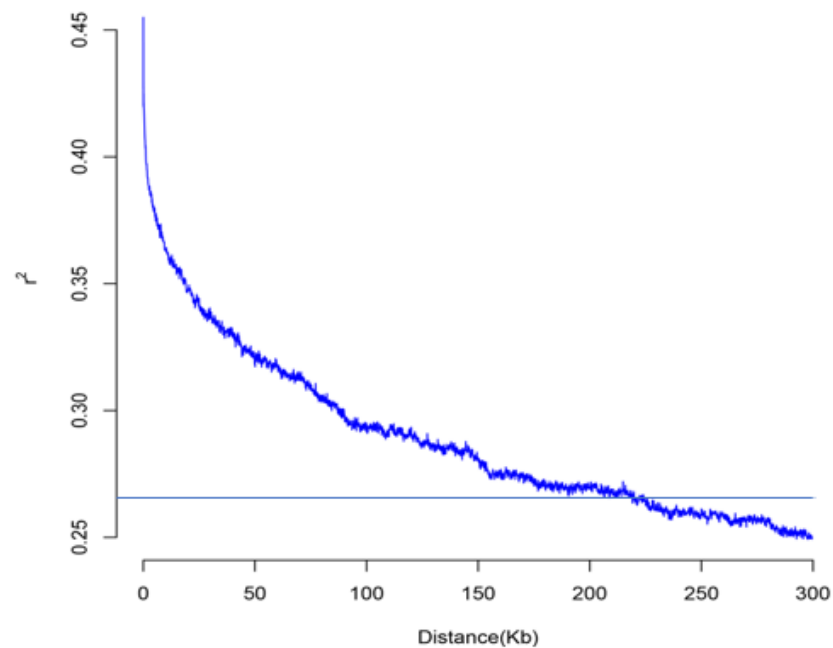

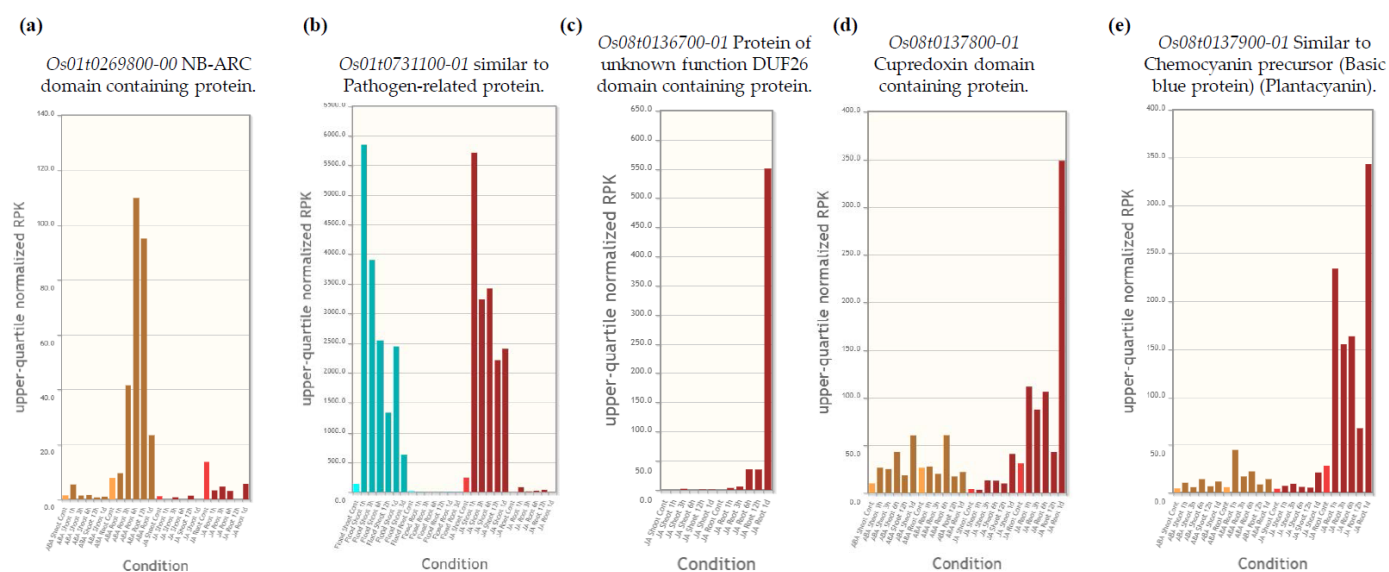**Figure S2.** Linkage disequilibrium decay analysis.

(a)

Os01t0269800-00 NB-ARC domain containing protein.

(b)

Os01t0731100-01 similar to Pathogen-related protein.

(c)

Os08t0136700-01 Protein of unknown function DUF26 domain containing protein.

(d)

Os08t0137800-01 Cupredoxin domain containing protein.

(e)

Os08t0137900-01 Similar to Chemocyanin precursor (Basic blue protein) (Plantacyanin).

Figure S3. Expression profiles in rice seedling under the various environmental conditions. (**a**) Expression profile of *Os01g0269800*; (**b**) Expression profile of *Os01g0731100*; (**c**) Expression profile of *Os08g0136700*; (**d**) Expression profile of *Os08g0137800*; (**e**) Expression profile of *Os08g0137800*. RPK: reads per kilobase.