

Figure S1. Population structure analysis of the *Snf2*-associated SNPs among different barley accessions. (A) Cluster dendrogram of SNPs across barley accessions. (B) Population structure with K = 7.

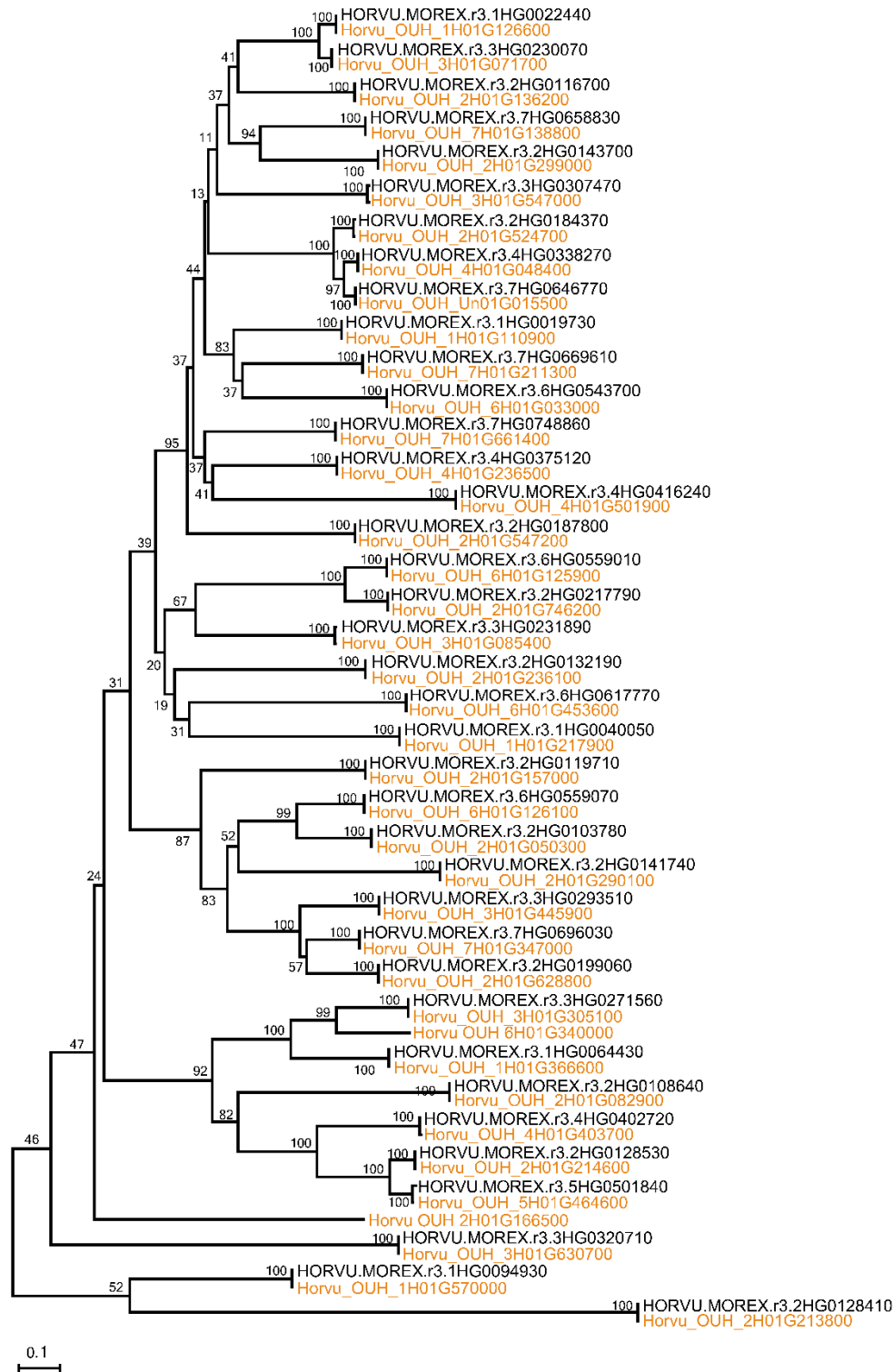


Figure S2. Phylogeny of Snf2 family proteins from wild (OUH602, orange text) and cultivated (Morex, black text) barley. The neighbor-joining tree was constructed with CLUSTALW in MEGA7 software on the basis of an alignment of full-length amino acid sequences. Bootstrap probabilities are shown at each branch node.