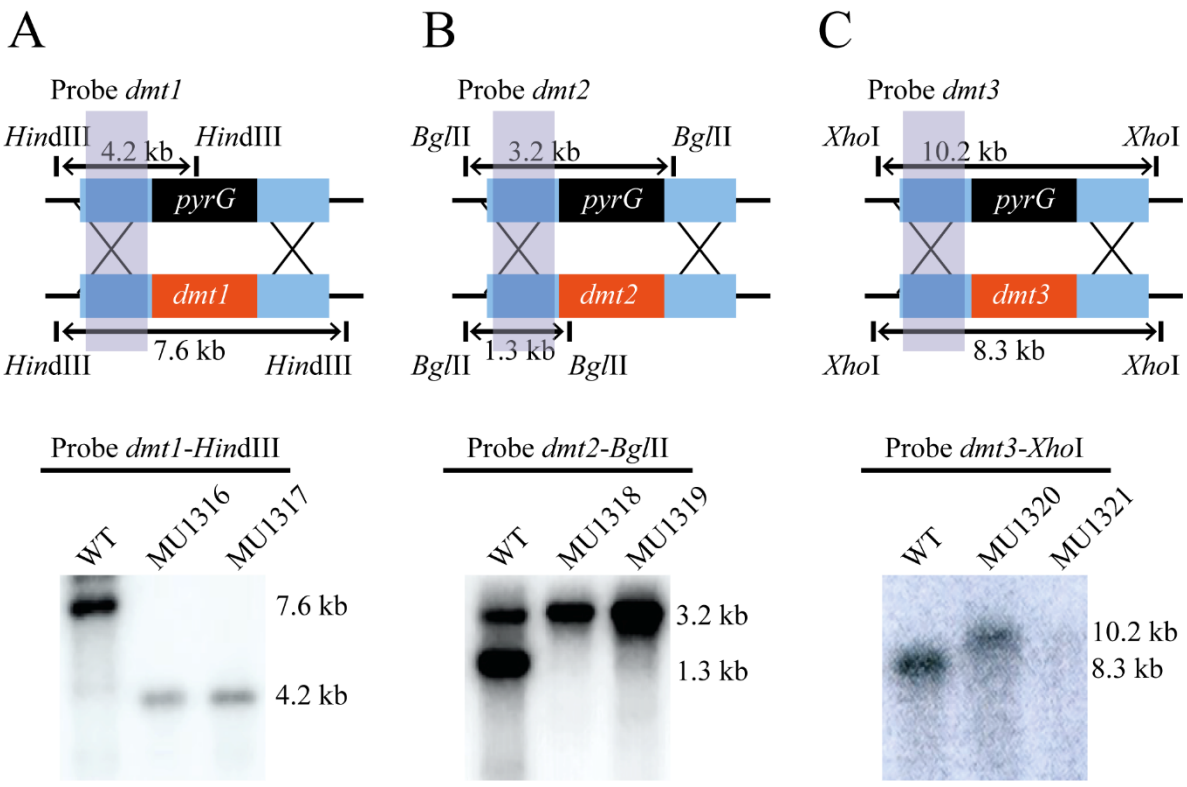

Figure S1. Gene replacement by homologous recombination of the *dmt* genes in *M. lusitanicus*; A) *dmt1*, B) *dmt2*, C) *dmt3*. The recombinant fragments for deletion of each *dmt* gene include the *pyr*G selective marker flanked by 5′and 3′ends of the corresponding gene. The constructs designed were used to replace wild-type locus for each gene by homologous recombination resulting in the mutant locus shown in the upper part of schemes A, B, and C. The cutting sites of restriction enzymes used in Southern-blot hybridization and the sizes of restriction fragment that hybridized with the specific probes are indicated in diagrams A, B, and C. Gel images below each diagram show the results of the hybridization of the genomic DNA from wild type (WT) and mutant strains digested with corresponding restriction enzymes and hybridized with the specific probes for each locus.