

WT	GCTGTTCCAATAGTTATGATGAATGCGACGCTGCTGATCGTACAGTTCCTCATTTCGTTGTTGCCAATATC AlaValProIleValMetMetAsnAlaThrLeuLeuIleValGlnPheLeuIleSerPheValAlaAsnIle
A2T01	GCTGTTCCAATAGTTATGATGAATGCGACG-----TAAGCTTTGCCAATATC AlaValProIleValMetMetAsnAlaThrStp
A2T03	GCTGTTCCAATAGTTATGATGAATGCGA-----TCGTACAGTTCCTCATTTCGTTGTTGCCAATATC AlaValProIleValMetMetAsnAlaIleValGlnPheLeuIleSerPheValAlaAsnIle
A2T06	GCTGTTCCAATAGTTATGATGAATGC-----TGCTGATCGTACAGTTCCTCATTTCGTTGTTGCCAATATC AlaValProIleValMetMetAsnAlaAspAspArgThrValProHisPheValArgAlaGlnTyr
A2T08	GCTGTTCCAATAGTTATGATGAATGCG---CTGCTGATCGTACAGTTCCTCATTTCGTTGTTGCCAATATC AlaValProIleValMetMetAsnAlaLeuLeuIleValGlnPheLeuIleSerPheValAlaAsnIle
A2T11	GCTGTTCCAATAGTTATGATGAATGCG-----CTGATCGTACAGTTCCTCATTTCGTTGTTGCCAATATC AlaValProIleValMetMetAsnAlaLeuIleValGlnPheLeuIleSerPheValAlaAsnIle
A2T14	GCTGTTCCAATAGTTATGATGAA---ACGCTGCTGATCGTACAGTTCCTCATTTCGTTGTTGCCAATATC AlaValProIleValMetMetLysArgCysStp

**Figure. S1** Mutations in BmABCA2 in mutant strains produced by genome-editing method using TALENs. The predicted cDNA sequences and their deduced protein sequences from the wild-type (WT) and TALEN mutant strains, showing premature termination of the ABCA2 protein in the mutant strains.