

>*TUG1* WT

Agactgctcacagttaacaaatcaaactctggatgacttctgcttgatatgcaactact
at ttgtaaagaaattgcaaattcacttttctattacctctacattgctagctctttctttgt
gtttgtattaaaaacaaaaataagct**tacactgcc**agctattccctcctgccatactcagt
taaaatgaagaatcggaatctaaccagtgaatggataagtagaaaaactaaaactt
aaggcaaaagccttaatctagggccttttctactatcttcatgtcttggatttcacta

>*TUG1* MUT

agactgctcacagttaacaaatcaaactctggatgacttctgcttgatatgcaactact
at ttgtaaagaaattgcaaattcacttttctattacctctacattgctagctctttctttgt

gtttgtattaaaaacaaaaataagc**atgtgacgg**agctattccctcctgccatactc
agttaaaatgaagaatcggaatctaaccagtgaatggataagtagaaaaactaaa
acttaaggcaaaagccttaatctagggccttttctactatcttcatgtcttggatttcacta

Sequence annotation: The underlined and bold segment in the *TUG1* WT sequence represents the original nucleotide sequence. The corresponding underlined and bold region in the *TUG1* MUT sequence contains site-directed nucleotide substitutions to construct the mutated fragment. MUT, mutant; TUG1, taurine upregulated gene 1; WT, wild-type.