Table 1. Vectors description and primers sequences used to produce the studied proteins.

Protein name	Vector	Transcription	Forward primer	Reverse primer
Sec61β	pSPUTK	SP6	5'CCAGAAACTCAGAAGGTTCG	5'CGAACGAGTGTACTTGCCCC
Sec61β-TM	pCDNA5	T7	5'GTCAATGGGAGTTTGTTTTGG	5'CTGCAGGGCTGCATCTGCACTCTCAGCAAACTCCATCATAGGGCCAACTTTGAGCCC 5'TCTGCTGCTATCACCAGCATCTTGGAGGGCAGGGTCTCCCTGCAGGGCTGCATCTGC
Sec61βG	pSPUTK	SP6	5'CCAGAAACTCAGAAGGTTCG	5'GGCCTGGGTGATATTCTTATTGCCGCCACCCGAACGAGTGTACTTGCC
Sec61β OPG	pCDNA5	T7	5'GTCAATGGGAGTTTGTTTTGG	5'GCCCGTCTTGTTGGAGAAAGGCACG
Syb2	pSPUTK	SP6	5'CCAGAAACTCAGAAGGTTCG	5'AGTGCTGAAGTAAACGATGATGATG
Syb2G	pSPUTK	SP6	5'CCAGAAACTCAGAAGGTTCG	5'ATTGCCGCCACCCGAGTCGCTGCTGCTGAAGTAAACGATGATG 5'ATGAGGGGGGGCCTGGGTGATATTCTTGTTACCACCCCCATTGCCGCCACCCGAGTC

DNA templates for the in vitro transcription of mRNA were prepared by PCR (see Material and Methods) using the primers shown here. For both Sec61β-TM and Syb2G, it was necessary to perform a two-step PCR to obtain the desired templates. The resulting protein sequences are shown in Figure 1.