**S3 Table. Primer sequences for cDNA Constructs to Analyze Amino Terminal Features**

**A. Delete Cysteine Cluster (CPCCC)**

| Gene | Forward | Reverse |
|---|---|---|
| Tgm1A | CCCAAGCATGATGATGTCAC | GACCTTACGCAGCCACTC |
| Tgm1B | AAGCACCCAAACGCCACC | CATCTTTCTGAGCCACCATAGAC |

**B. Mutagenize Cysteine Cluster (AIAAA) and Introduce MscI Site**

| Gene | Forward | Reverse |
|---|---|---|
| Tgm1A | CTGCCGCCCCCAAGCATGATGATGTCAC | CAATGGCCACCTTACGCAGCCACTCC |
| Tgm1B | TGCCGCCAAGCACCCAAACGCCACC | GCAATGGCCATCTTTCTGAGCCACCATAGAC |

**C. Remove N-Terminal Residues 3-94**

| Gene | Forward | Reverse |
|---|---|---|
| Tgm1A | GAAGTCCTTCTCAAAGTGAAGTCAATAG | AGGCATGCTAGCCAGCTT |
| Tgm1B | GAAACAGATGAAGGGAAGCTG | TGGCATGCTAGCCAGCTT |