

## Product datasheet for **RN200855**

### Tomm22 (NM\_212514) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tomm22 (NM\_212514) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Tomm22  
**Synonyms:** rTOM22; TOM22  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >RN200855 representing NM\_212514  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCGCCCGCTCGCTGCAGCCGGCGCTGGGGAGCCTCTGTCCCCGAAGAATTGGTCCCGAAAGCCG  
 AGGCAGAGAAAGCTGAGGAGGACCTGGAAGAAGACGACGACGAGCTAGATGAGACCCATCGGAGAG  
 ACTCTGGGGTCTGACGGAGATGTTCCCGAGAGGGTCCGGTCAGCCGCTGGAGCCACCTTTGATCTCTCG  
 CTCTTCGTGGCTCAGAAGATGTACAGATTTCCAGGGCAGCTTTGTGGATTGGGACCACTCCTTCATGA  
 TCCTGGTTCTTCTGTTGCTTTGAGACAGAAAAGTTGCAAATGGAGCAACAACAGCAACTGCAGCAAAG  
 GCAGATACTTTTAGGGCCTAACACAGGACTGTCCAGGAGGAATGCCAGGGGCTCTACCTCCACTTCTGGA  
 AAGAT**CTAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI  
**ACCN:** NM\_212514  
**Insert Size:** 429 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_212514.2</a></u> , <u><a href="#">NP_997679.1</a></u>
<b>RefSeq Size:</b>	1056 bp
<b>RefSeq ORF:</b>	429 bp
<b>Locus ID:</b>	300075
<b>UniProt ID:</b>	<u><a href="#">Q75Q41</a></u>
<b>Cytogenetics:</b>	7q34
<b>Gene Summary:</b>	Central receptor component of the translocase of the outer membrane of mitochondria (TOM complex) responsible for the recognition and translocation of cytosolically synthesized mitochondrial preproteins. Together with the peripheral receptor TOM20 functions as the transit peptide receptor and facilitates the movement of preproteins into the translocation pore (By similarity). Required for the translocation across the mitochondrial outer membrane of cytochrome P450 monooxygenases (PubMed:19401463).[UniProtKB/Swiss-Prot Function]