

## Product datasheet for **RG210746**

### TOMM20 (NM\_014765) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TOMM20 (NM\_014765) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** TOMM20  
**Synonyms:** MAS20; MOM19; TOM20  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG210746 representing NM\_014765  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGTGGGTGGAAACAGCGCCATCGCCGCGGTGTATGCGGGGCCCTTTTCATTGGGTACTGCATCTACT  
 TCGACCGCAAAGACGAAGTGACCCCACTTCAAGAACAGGCTTCGAGAACGAAGAAGAAACAGAAGCT  
 TGCCAAGGAGAGAGCTGGGCTTCCAAGTTACCTGACCTAAAGATGCTGAAGCTGTTCAGAAGTTCTTC  
 CTTGAAGAAATACAGCTTGGTGAAGAGTTACTAGCTCAAGGTGAATATGAGAAGGGCGTAGACCATCTGA  
 CAAATGCAATTGCTGTGTGTGGACAGCCACAGCAGTTACTGCAGGCTTACAGCAAACCTTCCACCACC  
 AGTGTTCCAGATGCTTCTGACTAAGCTCCAACAATTAGTCAGAGAATTGTAAGTGCTCAGAGCTTGCT  
 GAAGATGATGTGGAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG210746 representing NM\_014765  
 Red=Cloning site Green=Tags(s)

MVGRNSAIAAGVCGALFIGYCIYFDRKRRSDPNFNRLRERRKKQKLAKERAGLSKLPDLKDAEAVQKFF  
 LEEIQLGEELLAQGEYEKGV DHLTNAIAVCGQPQQLLQVLQQTLPVPVQMLLTKLPTISQRIVSAQSLA  
 EDDVE

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



**Cloning Scheme:**


**ACCN:** NM\_014765

**ORF Size:** 435 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** 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).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**RefSeq:** [NM\\_014765.3](#)

**RefSeq Size:** 3259 bp

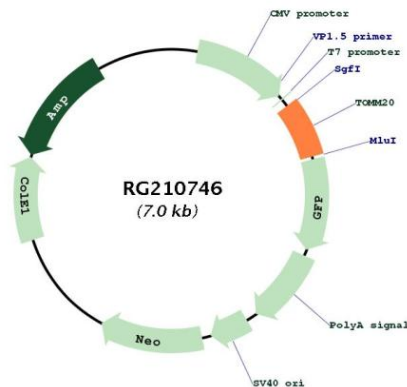
**RefSeq ORF:** 438 bp

**Locus ID:** 9804

**UniProt ID:** [Q15388](#)

Cytogenetics:	1q42.3
Domains:	MAS20
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	Central component of the receptor complex responsible for the recognition and translocation of cytosolically synthesized mitochondrial preproteins. Together with TOM22 functions as the transit peptide receptor at the surface of the mitochondrion outer membrane and facilitates the movement of preproteins into the TOM40 translocation pore (By similarity). Required for the translocation across the mitochondrial outer membrane of cytochrome P450 monooxygenases.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RG210746