

Product datasheet for **RG209535**

TOMM70A (TOMM70) (NM_014820) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TOMM70A (TOMM70) (NM_014820) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TOMM70A
Synonyms:	Tom70; TOMM70A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG209535 representing NM_014820
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCGCTCTAAACCTGTGGAGCGAGCGGTGGTGCAGCCGCTGTACCGAGCTCCGGGAGTGGGGTGG
 GCGGCGCGGGACTGCGGGCCCGGGCACGGGGGGCTGCCGCGATGGCAGCTGGCTCTGGCGGTCCGGGC
 ACCCTGCTGCTGGGCGCGGGTGCCATATACCTGTGGAGTCGGCAGCAACGGCGCCGGGAGGCCAGAGGC
 CGGGGCGACGCCAGCGCCTGAAGCGCAACAGCGAACGGAAGACCCCGAGGGCAGGGCCAGTCCGGCCC
 CGGGCAGCGGACCCCTGAAGGTCCCGGTCTCACTTGGACATGAACTCTTTGATAGAGCCCAAGCAGC
 CAAGAATAAAGGCAATAAATATTTAAAGCAGGAAAATATGAACAAGCTATTCAGTGCTATACTGAGGCT
 ATTAGCTGTGCCCTACAGAGAAGAATGTTGACCTTTCTACATTTTATCAAAACAGAGCTGCTGCCTTTG
 AACAGTTGCAAAAATGGAAGAAGTGGCACAAGACTGTACAAAAGCTGTTGAACTTAATCCCAAATATGT
 GAAAGCTCTCTTAGACGTGCAAAAGCCATGAGAAGCTAGACAATAAGAAGGAATGTTTGAAGATGTC
 ACTGCTGTGTATATTAGAAGGTTCCAAAATCAACAAAGCATGCTGTTAGCCGATAAAGTTCTTAAAC
 TCCTTGAAAAAGAGAAAGCCAAAGAAAAATATAAGAATCGTGAACCTCTGATGCCATCTCCACAGTTTAT
 CAAATCTTACTTCAGTCTTTTACCGGATGATATCATTCCAGCCATGCTTAAAGGAGAGAAATCTGAT
 GAAGATAAAGACAAGGAAGGGGAGGCTTGAAGTGAAGAAAATTTCTGGATACTTAAAGGCCAAACAGT
 ATATGGAAGAAGAAAACACGATAAAATCATAAGTGAATGCTCAAAGAAAATAGATGCTGAAGGCAATA
 CATGGCAGAAGCATTGCTACTACGAGCTACCTTACCTGCTTATTGGCAATGCCAATGCAGCCAAACCA
 GATTTAGATAAAGTCATCAGTTTGAAGAAGCTAATGTGAAGCTTCGAGCAAATGCTCTCATCAAAAGAG
 GCAGCATGTACATGCAACAGCAGCAGCCTTTGCTGCCACTCAAGATTTTAAACATGGCTGCTGACATCGA
 TCCTCAGAATGCAGATGTTTATACCACCGAGGACAGCTGAAAATACTCCTTGATCAAGTTGAAGAAGCA
 GTGGCAGATTTTATGAATGATTAGGTTAAGACCTGAGTCTGCTCTGGCACAAGCACAGAAATGTTTTG
 CATTGTACCGCCAGGCATATACGGGAAACAACCTTTCACAAAATCCAAGCAGCTATGAAAGTTTTGAAGA
 GGTCAAAAGAAATTTCAAGGTGTGCCGAAGGCTATGCACTATACGCCAGGCATTAACAGATCAACAA
 CAGTTTGGTAAAGCTGATGAAATGTATGATAAATGATTGATTTGGAACAGATAATGCTACAACATATG
 TTCATAAAGTTTTACTTCAACTCAGTGAAGCAAGATCTGGATAGAGTTTGAAGCTTATCAGCAAGGC
 TATTGAAATTGACAATAAATGTGATTTTGCCTATGAAACCATGGGAAGCTTGAAGTACAAGAGGAAAC
 ATGGAGAAAGCCATTGACATGTTCAACAAAGCTATTAACCTGGCCAAATCGGAAATGGAGATGGCCATC
 TGTATTCACTTTGCGATGCCGCCATGCCAGACAGAAGTTGCAAGAAATACGGATTAACCACCAAC
 ATTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG209535 representing NM_014820
 Red=Cloning site Green=Tags(s)

MAASKPVEAAVVAAAVPSSGSGVGGGTAGPGTGGLPRWQLALAVGAPLLLGAIAIYLWSRQRRREARG
 RGDASGLKRNSERKTPEGRASPAPGSGHPEGPAHLDMNSLDRAQAANKGNKYFKAGKYEQAIQCYTEA
 ISLCPTEKNVDLSTFYQNRAAAFEQLQWKEVAQDCTKAVELNPKYVKALFRRAKAHEKLDNKKECLEDV
 TAVCILEGFQNNQSMILLADKVLKLLGKEKAKEKYKNREPLMPSPQFIKSYFSSFDDIISQPMLKGEKSD
 EDKDKEGEALEVKENSGYLKAKQYMEENYDKIISECSKEIDAEGKYMAEALLLRATFYLLIGNANAAP
 DLDKVISLKEANVKLRANALIKRGSYMQQQPLLSTQDFNMAADIDPQNADVYHHRGQLKILLDQVEEA
 VADFDECIRLRPESALAQKCFALYRQAYTGNNSSQIQAAAMGFEEVIKKFPRCAEGYALYAQALTDQQ
 QFGKADEMYDKCIDLEPDNATTYVHKGLLQLQWKQDLDRGLELISKAIEIDNKCDFAYETMGTIEVQRGN
 MEKAIDMFNKAINLAKSEMMAHLYSLCDAHAHQTEVAKKYGLKPPTL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_014820

ORF Size: 1824 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_014820.5](#)

RefSeq Size: 4381 bp

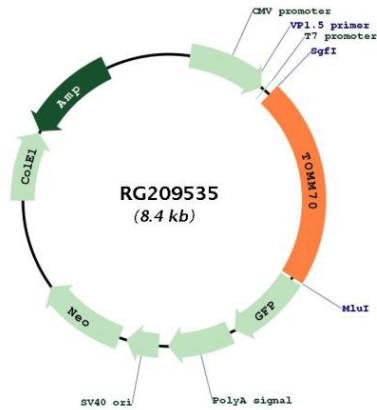
RefSeq ORF: 1827 bp

Locus ID: 9868

UniProt ID: [O94826](#)

Cytogenetics: 3q12.2
Domains: TPR
Protein Families: Transmembrane
Gene Summary: This gene encodes an import receptor of the outer mitochondrial membrane that is part of the translocase of the outer membrane complex. This protein is involved in the import of mitochondrial precursor proteins. [provided by RefSeq, Oct 2011]

Product images:



Circular map for RG209535