

Product datasheet for **RG225543**

TOMM40 (NM_001128917) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TOMM40 (NM_001128917) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TOMM40
Synonyms:	C19orf1; D19S1177E; PER-EC1; PEREC1; TOM40
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG225543 representing NM_001128917 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGAACGTGTTGGCTGCCAGCTCGCCGCCCGCAGGGCCGCCACCGCCGCTGCGCCGGCCCTCGTGG
GGCTGCCGCCACCTCCGCCCTCGCCGCCGGCTTACGCTGCCGCCGCTGGGAGGCAGCCTGGGCGCCGG
CACCAGTACGAGTCGAAGTTCGGAACGGACCCCGGGGCTGCAACCGCCAGCGCCTCAGGGGCCCGGAG
GATGGGGCCTGCGGCTGCTGCCAACCAGGGCACATTCGAGGAGTGCCACCGGAAGTCAAGGAGCTGT
TTCCCATTCAGATGGAGGTGTCAAGCTCACAGTCAACAAGGGTTGAGTAACCATTTTCAGGTCAACCA
CACAGTAGCCCTCAGCACAATCGGGGAGTCCAACCTACCACTTCGGGGTCACATATGTGGGACAAAGCAG
CTGAGTCCCACAGAGGCTTCCCTGTAAGTGGTGGTGACATGGACAACAGTGGCAGTCTCAACGCTCAGG
TCATTCACCAGCTGGGCCCGGTCTCAGGTCCAAGATGGCCATCCAGACCCAGCAGTCAAGTTTGTGAA
CTGGCAGGTGGACGGGGAGTATCGGGGCTGACTTCACAGCAGCCGTCACCCCTGGGGAACCCAGACGTC
CTCGTGGGTTCAAGAACCTCGTAGCCACTACCTCCAGAGCATCACGCCTTGCCGGCCCTGGGTGGAG
AGCTGGTCTACCACCGCGGCCCTGGAGAGGAGGGCACTGTCATGTCTCTAGCTGGGAAATACACATTGAA
CAACTGGTTGGCAACGGTAACGTTGGGCCAGCCGGCATGCACGCAACATACTACCACAAGCCAGTGAC
CAGCTGCAGGTGGGTGTGGAGTTTGAGGCCAGCACAAGGATGCAGGACACCAGCGTCTCCTCGGGTACC
AGCTGGACCTGCCAAGGCCAACCTCTCTCAAGGCTCTGTGGATAGCAACTGGATCGTGGGTGCCAC
GCTGGAGAAGAAGCTCCACCCCTGCCCTGACTGGCCCTTGGGGCCTTCTGAATCACCGCAAGAAC
AAGTTTCAGTGTGGCTTTGGCCTCACCATCGGC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225543 representing NM_001128917
 Red=Cloning site Green=Tags(s)

MGNVLAASSPPAGPPPPAPALVGLPPPPSPPGFTLPPLGGSLGAGTSTRSSERTPGAATASASGAAE
 DGACGCLPNPGTFEECHRKCKELFPIQMEGVKLTVNKGLSNHFQVNHTVALSTIGESNYHFGVTVYGTKQ
 LSPTEAFPVLVGDMDNSGSLNAQVIHQLGPLRSKMAIQTQSKFVNWQVDGEYRGSDFTAAVTLGNPDV
 LVGSGILVAHYLQSIPTCLALGGELVYHRRPGEETVMSLAGKYTLNNWLATVTLGQAGMHATYYHKASD
 QLQVGVFEASTRMQDTSVSYFGYQLDLPKANLLFKGSVDSNWIIVGATLEKKLPLPLTLALGAFLNHRKN
 KFQCGFGLTIG

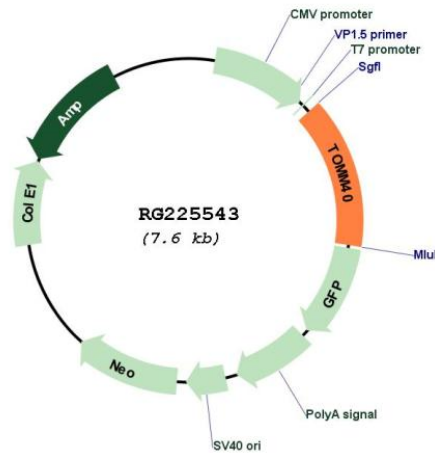
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001128917

ORF Size:	1083 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:	<ol style="list-style-type: none">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_001128917.2
RefSeq Size:	1819 bp
RefSeq ORF:	1086 bp
Locus ID:	10452
UniProt ID:	O96008
Cytogenetics:	19q13.32
Protein Families:	Druggable Genome, Ion Channels: Other
Protein Pathways:	Amyotrophic lateral sclerosis (ALS)
Gene Summary:	The protein encoded by this gene is localized in the outer membrane of the mitochondria. It is the channel-forming subunit of the translocase of the mitochondrial outer membrane (TOM) complex that is essential for import of protein precursors into mitochondria. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Aug 2015]