

Product datasheet for **RG227190**

TOM1 (NM_001135730) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: TOM1 (NM_001135730) Human Tagged ORF Clone
 Tag: TurboGFP
 Symbol: TOM1
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 ORF Nucleotide Sequence: >RG227190 representing NM_001135730
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACTTTCTCCTGGGGAACCCGTTTCAGCTCTCCAGTGGGACAGCGCATCGAGAAAGCCACAGATGGCT
 CCCTGCAGAGCGAGGACTGGGCCCTCAACATGGAGATCTGCGACATCATCAACGAGACGGAGGAAGGTCC
 CAAAGATGCCCTCCGAGCAGTAAAGAAGAGAATCGTGGGAATAAGAACTTCCACGAGGTGATGCTGGCT
 CTCACAGTCTTAGAAACCTGTGTCAAGAACTGCGGGCACCGCTTCCACGTGCTGGTGCCAGCCAGGACT
 TCGTGGAGAGTGTGCTGGTGGAGACCCTCTGCCAAGAACAACCCACCACCATCGTGCATGACAAAGT
 GCTCAACCTCATCCAGACCGTGTCAACTCAGAGACACAATCAGGACAGGATTCTGTGGCACTGACTCC
 AGCCAGCAAGAGGACTCTGGCCAGCATGCTGCCCTCTGCCCGCCCGCCATACTCTCCGGTGACACGC
 CCATAGCACCAACCCCGAACAGATTGGGAAGCTGCGCAGTGGAGATGGTGGAGTGGGAACGTGAG
 GGTGATGTCGGAGATGCTGACGGAGCTGGTGCCACCCAGGCCGAGCCCGCAGACCTGGAGCTGCTGCAG
 GAGCTCAACCGCACGTGCCGAGCCATGCAGCAGCGGGTCTGGAGCTCATCCCTCAGATCGCCAATGAGC
 AGCTGACAGAGGAGCTGCTCATCGTCAATGACAATCTCAACAATGTGTTCTCGCCATGAACGGTTTGA
 ACGTTCCGAACAGGCCAGACCACCAAGCCCCAAGTGGGCCGAGCCGGCAGCTGACCTGATCGACATG
 GGCCCTGACCCAGCAGCCACCGCAACCTCTCATCCAGCTGGCAGGAATGAACCTGGGCTCCAGCAGTG
 TGAGAGCTGGCCTGCAGTCTCTGGAGGCCCTCTGGTGGACTGGAAGATGAGTTGACATGTTTGGCGTGC
 ACGGGGAGCTCACTGGCTGACCAACGGAAGAGGTAATAACGAAGCCCCCAAGCAACAGACGGCCTG
 GCTGGAGCCCTGGACGCCCGGCAGCAGAGCACTGGCGGATCCCAGTACCCAGGCCCTGCCTCATGGAGG
 ACATCGAGCAGTGGCTGTCCACTGACGTGGGTAATGATGCGGAAGAGCCTAAGGGGGTACCAGCGAAGA
 ATTTGACAAATCCTGGAAGAACGGGCCAAAGCCGCGGACCGATTGCCAACCTCTCCAGCCCCTCAGCT
 GAGGGGCCCGGGTCCCCATCTGGCCAGCGCCCGGAAGAAGACCCAGGAGAAAGATGATGACATGC
 TGTTTGCCTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG227190 representing NM_001135730
 Red=Cloning site Green=Tags(s)

MDFLLGNPFSSPVGQRIEKATDGSLSQEDWALNMEICDIINETEEGPKDALRAVKKRIVGNKNFHEVMLA
 LTVLETCVKNCGHRFHVLVASQDFVESVLVRTILPKNNPPTIVHDKVLNLIQTVFNSETQSGQDSVGTDS
 SQQEDSGQHAAPLPAPPILSGDTPAIAPTPEQIGKLRSELEMVSGNVRVMSEMLTELVPTQAEPADLELLQ
 ELNRTCRAMQQRVLELIPQIANEQLTEELLIVNDLNNVFLRHERFERFRGTQTTKAPSEAEPAADLIDM
 GPDPAATGNLSSQLAGMNLGSSSVRAGLQSLSEASGRLEDEFDMFALTRGSSLADQRKEVKYEAPQATDGL
 AGALDARQQSTGAIPVTQAACLMEDIEQLSTDVGNDAEEPVGVTSEEFDKFLEERAKAADRLPNLSSPSA
 EGPPGPPSGPAPRKKKTQEKDDDMFLAL

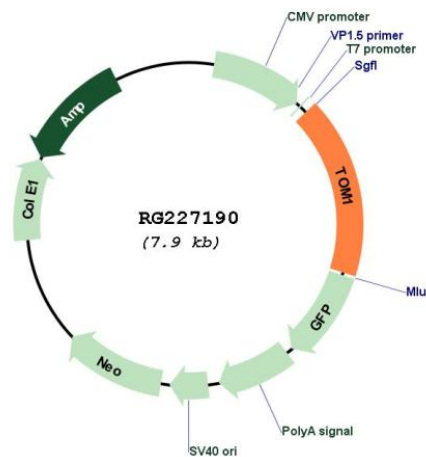
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001135730
ORF Size:	1341 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_001135730.1 , NP_001129202.1
RefSeq Size:	2261 bp
RefSeq ORF:	1344 bp
Locus ID:	10043
UniProt ID:	O60784
Cytogenetics:	22q12.3
Protein Families:	Druggable Genome
Gene Summary:	This gene was identified as a target of the v-myb oncogene. The encoded protein shares its N-terminal domain in common with proteins associated with vesicular trafficking at the endosome. It is recruited to the endosomes by its interaction with endofin. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2008]