

Product datasheet for **RG234817**

TRIM46 (NM_001256601) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TRIM46 (NM_001256601) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TRIM46
Synonyms:	GENEY; TRIFIC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG234817 representing NM_001256601
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGGGGCGAAGGGGAATGGGTTGACCAGCATGAAGAACATGGAGAAGGAACTGCTGTGCCAGTGTGTC
 AAGAGATGTACAAGCAGCCACTGGTGCTGCCCTGTACCCACAACGTGTGCCAGGCCTGTGCCCGAGAGGT
 CTTGGGCCAGCAGGGCTACATAGGACATGGTGGGACCCAGCTCCGAGCCACCTCTCCTGCCTCCACC
 CCTTCCACCCGCAGCCCCGCTCTCCCGCAGAACTCTCCCAAGCCAGACCGCTGGACCGGTGCTTA
 AGTCAGGCTTTGGGACATACCCTGGGAGGAAGCGAGGTGCTTTGCACCCCAAGTGATCATGTTCCCGTG
 CCCAGCCTGCCAAGGTGATGTGGAGCTTGGGAGCGGGTCTGGCAGGGCTTTTCCGGAACCTGACCCTG
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 GAGCTGGAGGAGGCCGTGAGGCACACCGAGGTGAGTGGTCAGCAGGCCAAGGAGGAGGTGTCGCAGCTGG
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 GGCTATGCCAGGAAGTACTTAAGGAAACAGACCAGCCTTGCTTTGTGCAAGCCGCAAGCAGCTGCACA
 ACAGATTGCCGAGCCACTGAAGCCCTCCAGACATTCCGGCCAGCTGCCAGCTCCTCCTTCCGCCATTG
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 CCTGGGCATCTGCCTGGACTATGAGCGGGGCGGGTTTCTTCTGGATGCTGTTTCTTCCGTGGGCTC
 TTGGAGTGCCCCCTGGACTGCTCAGGGCCTGTGTGCCCTGCCTTTTGCTTCATCGGGGTGGCGCAGTAC
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

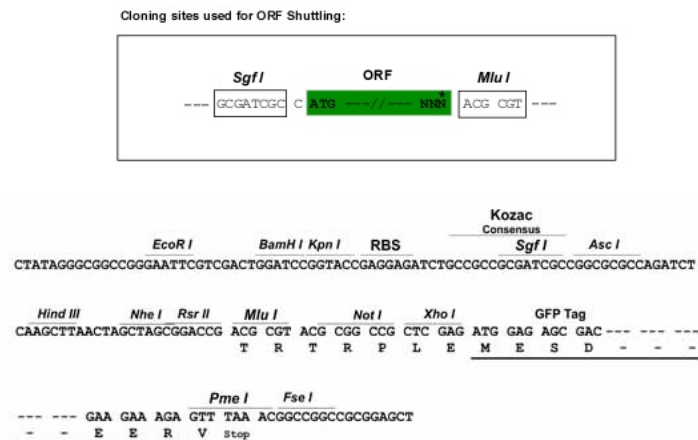
Protein Sequence: >RG234817 representing NM_001256601
 Red=Cloning site Green=Tags(s)

MGAKGNGLTSMKNMEKELLCPVCQEMYKQPLVLPCTHNVCQACAREVLGQQGYIGHGGDPSSSEPTSPAST
 PSTRSPRLSRRTLKPKDRLDRLKSGFGTYPGRKRGALHPQVIMFPCPACQGDVELGERLAGLFRNLTL
 ERVVERYRQSVSVGGAILCQLCKPPPLEATKGCTECRATFCNECFKLHPWGTQKAQHEPTLPTLSFRPK
 GLMCPDHKEEVTHYCKTCQRLVCQLCRVRRTHSGHKITPVL SAYQALKDKLTKSLTYILGNQDTVQTQIC
 ELEEAVRHTEVSGQQAEEVSQLVRLGAVLEEKRASLLQAIEECQQLERLARSQIIEHRSLLDGSGLV
 GYAQEVLEKTDQPCFVQAAQLHNRIARATEALQTFRPAASSSFRHCQLDVGREMKLLTELNLRVPEAP
 VIDTQRTFAYDQIFLCWRLPPHSPPAWHYTVFRRTDVPAQPGPTRWQRREEVRGTSALLENPDTSVYV
 LRVGCKNAGYGEYSEDVHLHTPPAPVLHFFLDSRWGASRERLAISKDQRAVRSVPGLPLLLAADRLLTG
 CHLSVDVVLGDVAVTQGRSYWACAVDPASYLKVGVGLESKLQESFQGPAPVISPRYDPDPSGHDGAEDA
 TVEASPPFAFLTIGMKILLGSGASSNAGLTGRDGPTAGCTVPLPRLGICLDYERGRVSFLDAVSFRGL
 LECPLDCSGPVCFAFCFIGGAVQLQEPVGTKPERKVTIGGFAKLD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001256601

ORF Size: 2238 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_001256601.1](#), [NP_001243530.1](#)

RefSeq Size: 3082 bp

RefSeq ORF: 2241 bp

Locus ID: 80128

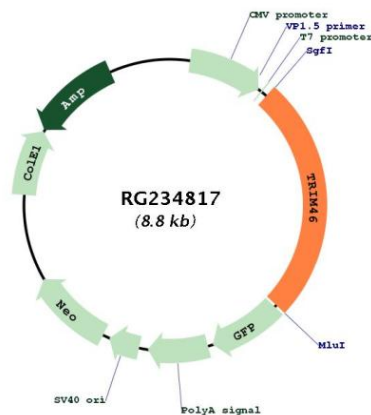
UniProt ID: [Q7Z4K8](#)

Cytogenetics: 1q22

Protein Families: Druggable Genome

Gene Summary: Microtubule-associated protein that is involved in the formation of parallel microtubule bundles linked by cross-bridges in the proximal axon. Required for the uniform orientation and maintenance of the parallel microtubule fascicles, which are important for efficient cargo delivery and trafficking in axons. Thereby also required for proper axon specification, the establishment of neuronal polarity and proper neuronal migration.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG234817