

## Product datasheet for **RG234769**

### **TRIM46 (NM\_001256600) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TRIM46 (NM_001256600) 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)



[View online »](#)

**ORF Nucleotide Sequence:**

>RG234769 representing NM\_001256600  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTGCGAAGAGAGGGACCAAGACCAGCATGAAGAACATGGAGAAGGAACTGCTGTGCCAGTGTGTC  
 AAGAGATGTACAAGCAGCCACTGGTGCTGCCCTGTACCCACAACGTGTGCCAGGCCCTGTGCCGAGAGGT  
 CTTGGGCCAGCAGGGCTACATAGGACATGGTGGGACCCAGCTCCGAGCCACCTCTCCTGCCTCCACC  
 CTTCCACCCGCAGCCCCGCCTCTCCCGCAGAACTCTCCCAAGCCAGACCGCCTGGACCGGTGCTTA  
 AGTCAGGCTTTGGGACATACCCTGGGAGGAAGCGAGGTGCTTTGCACCCCAAGTATCATGTTCCCGTG  
 CCCAGCCTGCCAAGGTGATGTGGAGCTTGGGGAGCGGGTCTGGCAGGGCTTTTCCGGAACCTGACCCTG  
 GAGCGTGTGGTGGAGCGGTACCGCCAGAGTGTGAGTGTGGGAGGTGCCATCCTGTGCCAGTTGTGAAGC  
 CCCCACCTAGAGGCCACCAAGGGCTGCACAGAGTGCCGCGCCACCTTCTGCAATGAGTGTTCAGCT  
 CTTCCACCCCTGGGGCACCCAGAAGGCCAGCATGAGCCACCTGCCTACCCTCTCCTCCGACCCAAG  
 GGCTTATGTGCCAGACCACAAGGAAGAGGTGACCCACTACTGCAAGACATGCCAACGCCTGGTATGTC  
 AACTCTGCCGGGTGCGGGCACCCACAGCGGGCACAAGATCACACCAGTGTCTAGTGCCTACCAGGCCCT  
 CAAGGACAAGCTGACAAAGAGCCTGACATACATCCTGGGAAACCAGGACACGGTACAGACCCAGATCTGT  
 GAGCTGGAGGAGAAGCGGCATCACTGCTTCAGGCCATTGAAGAATGCCAGCAGGAGCGGTGGCCCGTC  
 TCAGCGCCAGATCCAGGAGCACCGGAGCTGCTGGATGGCTCAGGTCTGGTGGGCTATGCCAGGAAGT  
 ACTTAAGGAAACAGACCAGCCTTGCTTTGTGCAAGCCCAAGCAGCTGCACAACAGGATTGCCCGAGCC  
 ACTGAAGCCCTCCAGACATTCGGCCAGCTGCCAGCTCCTCCTCCGCCATTGCCAGCTCGACGTGGGAC  
 GTGAGATGAAGCTGTGACAGAGCTTAACTTCTGCGAGTGCCTGAGGCCCCCGTATTGACACCCAGCG  
 CACCTTTGCCTATGATCAGATCTTCTGTGCTGGCGGTGCCCCCCATTACCACCTGCCTGGCACTAT  
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 TGAGGGGCACCAAGTGCCTGCTTGAAGAACCACACGGGCTCTGTGTATGTGCTGCGTGTCCGCGGCTG  
 CAACAAGGCCGGCTACGGCGAATACAGTGAAGATGTGCACCTGCACACGCCCCCGGCACCTGCTCCTGCAC  
 TTCTTCTCGATAGCCGCTGGGGCGCAAGCCGAGAGCGGCTGGCTATCAGCAAGGACCAGCGAGCAGTAC  
 GGAGTGTCCAGGGCTGCCCTGCTGCTGGCTGCTGACCGGCTGCTGACCGGCTGCCACCTGAGTGTGA  
 TGTGGTCTGGGCGACGTGGCTGTGACCCAGGGCCGACGCTACTGGCCCTGCGCCGTAGACCCAGCCTCC  
 TACTTGGTCAAGGTGGGCGTCGGCTGGAGAGCAAGCTTCAAGAAAGTTCCAGGGTGCCCCGATGTGA  
 TCAGCCCCAGGTACGACCCGGACAGCGGGCACGACAGCGGTGCCGAGGATGCCACAGTGGAGGCGTCGCC  
 ACCCTTCGCTTTCCTAACCATTTGGCATGGGCAAGATCCTGCTGGGGTCCGGGGCAAGCTCAAACGCAGGG  
 CTGACAGGGAGGGATGGCCCCACAGCCGGCTGCACAGTGCCTGCCACCCCGCCTGGGCATCTGCCTGG  
 ACTATGAGCGGGGCCGGTTTCTTCTGGATGCTGTTTCTTCCGTGGGCTCTTGGAGTCCCCCTGGA  
 CTGCTCAGGGCCTGTGTGCCCTGCCTTTTGCTTATCGGGGTGGCGCAGTACAGCTCCAGGAGCCAGTG  
 GCGACTAAGCTGAGAGGAAAGTACCATTGGGGGCTTCGCCAAGCTGGAC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG234769 representing NM\_001256600  
 Red=Cloning site Green=Tags(s)

```

MAAKRGTKTSMKNMEKELLCPVCQEMYKQPLVLPCTHNVCQACAREVLGQQGYIGHGGDPSSEPTSPAST
PSTRSPRLSRRTLKPKDRLDRLKSGFGTYPGRKRGALHPQVIMFPCPACQGDVELGERLAGLFRNLTL
ERVVERYRQSVSVGGAILCQLCKPPPLEATKGCTECRATFCNECFKLFHPWGTQKAQHEPTLPTLSFRPK
GLMCPDHKEEVTHYCKTCQRLVCQLCRVRRTHSGHKITPVL SAYQALKDKLTKSLTYILGNQDTVQTQIC
ELEEKRASLLQAIEECQERLARLSAQIQEHRSLLDGSGLVGYAQEVLKETDQPCFVQAAQLHNRIARA
TEALQTFRPAASSFRHCQLDVGREMKLLTELNFLRVPEAPVIDTQRTFAYDQIFLCWRLPPHSPPAWHY
TVEFRRTDVPAQPGPTRWQRREEVRGTSALLENPDTGSVYVLRVRCNKAGYGEYSEDVHLHTPPAPVLH
FFLDSRWGASRERLAISKDQRAVRSVPLPLLLAADRLLTGCHLSVDVVLGDVAVTQGRSYWACAVDPAS
YLVKVGVGLESKLQESFQGAPDVISPRYDPDSGHDSGAEDATVEASPPFAFLTIGMGKILLGSGASSNAG
LTGRDGPTAGCTVPLPPRLGICLDYERGRVSFLDAVSFRGLLECLDCSGPVCPAFCFIGGAVQLQEPV
GTKPERKVTIGGFAKLD
  
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001256600

**ORF Size:** 2151 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\\_001256600.1](#), [NP\\_001243529.1](#)

**RefSeq Size:** 3195 bp

**RefSeq ORF:** 2154 bp

**Locus ID:** 80128

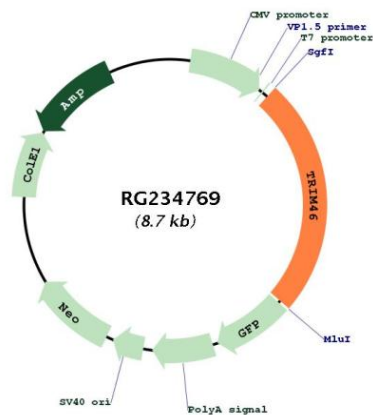
**UniProt ID:** [Q7Z4K8](#)

**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 RG234769