

## Product datasheet for **MC218695**

### Trim46 (NM\_001039466) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trim46 (NM_001039466) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Trim46
Synonyms:	TRIFIC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001039466, the custom clone sequence may differ by one or more nucleotides

```
ATGGCTGCGAAGAGAGGGACCAAGACAAGCATGAAGAACATGGAGAAGGAACTGCTGTGCCAGTGTGCC
AAGAGATGTACAAGCAGCCACTAGTGCTGCCTTGTACCCACAACGTGTGCCAGGCCTGTGCCCGGGAGGT
TTTGGCCAGCAGGGGTACATAGGCCATGGTGGGATCCGAGTTCGGAGCCCACTTCTCCTGCTCCACC
CCTTCTACCCGCAGCCCCGCCTCTCTCGAGAAGCTCTCCCAAGCCAGATCGCTTGGACCGGCTCCTTA
AGTCAGGCTTTGGGACATACCCTGGGCGGAAGCGTGGTGCCTTGACCCCCAGACGATCCTATTCCCGTG
CCCAGCCTGCCAAGGCGATGTGGAGCTGGGGGAGAGGGGCCTTTCCGGGCTTTTCCGAAACCTGACCCTA
GAGCGAGTGGTGGAGAGGTACCGCCAGAGTGTGAGTGTGGGAGGAGCCATCCTGTGCCAGTTGTGCAAGC
CCCCACCACTAGAGGCCACCAAGGGCTGCACAGAGTGTGAGCTACCTTCTGTAACGAATGCTTCAAGCT
CTTCCACCCTGGGGCACTCAGAAGGCGCAGCATGAGCCACGCTACCCACTCTTTCATTCCGCCCAAG
GGTCTGATGTGTCCAGACCACAAGGAAGAGGTGACCCACTACTGTAAGACATGTCAACGACTGGTGTGCC
AACTCTGCAGAGTACGGCGTACCCACAGTGGGCACAAGATCACACCAGTGTCTAGTGCCTACCAGGCCCT
CAAGGATAAGCTAACAAAGAGCCTGGCATAACATCTTGGGAAACCAGGACACTGTGCAGACCAGATTGT
GAGCTGGAAGAGACCATCAGGCACACTGAGGTGAGTGGTCAAGCAAGAAAAGAGGAGGTGTCCCAGCTGG
TTCGGGGACTAGGGGCTGTGCTGGAAGAGAAGCGGGCCTCACTGCTTCAGGCCATTGAAGAATGCCAGCA
AGAGCGCTTATCCCGGCTCAGCGCCAGATCCATGAACACCAGAGCCTGTGGATGGCTCGGGTCTGGTG
GGTTATGCGCAGGAAGTCTTAAGGAAACAGACCAGCCTTGTTTTGTACAAGCAGCCAAACAGCTGCATA
ACAGGATTGCCGAGCCACTGAGGCCCTCCAGACATTCGGCCAGCTGCCAGTCTCTCTCCGCCACTG
CCAGCTGGATGTGGGGCGTGAGATGAAGCTGTTGACCGAGCTTAGCTTCTGAGAGTCCCCGAGGGCGCCC
GTCATAGACACCCAACGCACCTTTGCCTATGATCAAATCTTCTGTGCTGGCGGCTGCCCCCTCACTCAC
CACCTGCCTGGCATTACACCGTTGAGTTCCGGCGCACAGATGTCCCGCCAGCCAGGCCCTACAGCTG
GCAGCGCCGGAAGAGGTGAGGGGCACACGCGCCTTCTTGAGAACCCGACACGGGCTCTGTGTACGTG
CTGCGTGTCCGTGGCTGCAACAAGGCTGGCTACGGAGAGTACAGTGAAGATGTGCACCTGCACACACCCC
CAGCCCCTGATACGACCCGGACAGTGGGCACGACGCGGTGCCGAGGACGCTGCCGTGGAGGCGTTACCA
CCCTTTGCTTCTCTGA
```

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1826\\_a05.zip](https://cdn.origene.com/chromatograms/ja1826_a05.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001039466

**Insert Size:** 1626 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001039466.1](#), [NP\\_001034555.1](#)

**RefSeq Size:** 2731 bp

**RefSeq ORF:** 1626 bp

**Locus ID:** 360213

**Cytogenetics:** 3 F1

**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 formation, the establishment of neuronal polarity and proper neuronal migration.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) differs in the 5' and 3' UTRs and has multiple differences in the coding region compared to variant 2. These differences result in translation initiation at an alternate start codon, and a frameshift in the 3' coding region, compared to variant 2. The encoded isoform (3) has distinct N- and C-termini and is shorter compared to isoform 2.