

Product datasheet for **RR210124**

Trim46 (NM_001107691) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trim46 (NM_001107691) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trim46
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR210124 representing NM_001107691
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGAGGGTGAGGATATGCAGACCTTCACTTCCATCATGGATGCACTAGTCCGCATCAGTACAAGCA
 TGAAGAACATGGAGAAGGAAGTCTGTGCCAGTGTGCCAAGAGATGTACAAGCAGCCACTAGTGTGCC
 TTGTACCCACAACGTGTGCCAGGCCTGTGCCCGGAGGTTTTGGGCCAGCAGGGGTACATAGGCCATGGT
 GGGGATCCGAGTTCGGAGCCCACTTCTCCTGCTTCCACCCCTTCTACCCGAGCCCCCGCCTCTCTCGGA
 GAACTCTCCCCAAGCCAGATCGCTTGGACCGGCTCCTTAAGTCAGGCTTTGGGACATACCCTGGCGGAA
 GCGTGGTGCTTGCACCCCGAGACGATCTTATCCCGTGCCAGCCTGCCAGGGCGATGTGGAATGGGG
 GAGAGGGGCTTTCCGGGCTTTCCGAACTGACCTAGAGCGAGTGGTGGAGCGGTACCGACAGAGTG
 TGAGTGTGGGCGGCCATCCTGTGCCAGTTGTGCAAGCCCCACCACTAGAGGCCACCAAGGGCTGCTC
 AGAGTGTGAGCTACCTTCTGTAATGAATGCTTCAAGCTTCCACCCCTGGGGCACTCAGAAGGCCAA
 CACGAACCCACGCTACCCACCCTCTATTCCGCCCAAGGGTCTGATGTGTCCAGACCACAAGGAAGAGG
 TGACCCACTACTGTAAGACATGTCAACGACTGGTGTGCCAACTCTGCAGGGTACGGCGTACCCACAGTGG
 GCACAAGATCACACCACTGCTCAGTGCCTACCAGGCTCTCAAGGATAAGCTAACTAAGAGCCTGGCATA
 ATCTTGGGAAACAGGACACAGTGCAGACCCAGATTTGTGAGCTGGAGGAGACCATCAGGCACACTGAGG
 TGAGTGGTCAGCAGGCGAAAGAGGAGGTGTCCAGCTGGTTCGGGGACTAGGGGCTGTGTTGGAAGAGAA
 GCGATCCTCACTTCTCAGGCCATCGAAGAGTGCCAGCAAGAGCGTTTATCCCGGCTCAGTGCCAGATC
 CATGAGCACCAGAGCCTGCTGGATGGCTCGGGTTTGGTGGGCTACGCCAGGAAGTTCTTAAGGAAACAG
 ACCAGCCTTGCTTTGTACAAGCAGCCAAACAGCTGCATAACAGGATTGCCGAGCCACCGAGGCCCTCCA
 GACATTCGGGCCAGCTGCCAGCTCCTCCTCCGTATTGCCAGCTGGATGTGGGACGGGAGATGAAGTTG
 CTGACAGAGCTTAACCTCCTGAGAGTGCCCGAGGCGCCTGTATCGACACCCAACGCACCTTTGCCTATG
 ACCAAATCTTCTGTGCTGGCGGCTGCCCTCACTCACCACTGCCTGGCATTACACTGTGGAGTTCCG
 GCGCACAGATGTCCCGCCAGCCAGGCCCTACACGCTGGCAGCGACGGGAGGAGGTGAGGGGACCACT
 GCCCTCCTGGAGAACCCTGACACGGGCTCTGTGTATGTGCTGCGTGTCCGTGGCTGCAACAAAGTGGCT
 ACGGAGAGTACAGTGAAGATGTGCACCTGCACACCCCCAGCACCTGGTGAATACAGAAAGGTGGCT
 TCATGTGGTGAACGAGATGAACAGCCTGTACCTCAGACGTATCTTCTCTGGATTCCCACTCACGCAG
 ATA

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR210124 representing NM_001107691
 Red=Cloning site Green=Tags(s)

MAEGEDMQTFTSIMDALVRISTSMKNMEKELLCPVCQEMYKQPLVLPCTHNVCQACAREVLGQQGYIGHG
 GDPSSEPTSPASTPSTRPRLSRRTLKPDRDLRLKSGFGTYPGRKRGALHPQTILFPCPACQGDVELG
 ERGLSGLFRNLTLERVVERYRQSVSVGGAILCQLCKPPPLEATKGCSECRATFCNECFKL FHPWGTQKAQ
 HEPTLPTLSFRPKGLMCPDHKEEVTHYCKTCQRLVCQLCRVRRTHSGHKITPVL SAYQALKDKLTKSLAY
 ILGNQDTVQTQICELEETIRHTEVSGQQAKEEVSQLVRGLGAVLEEKRSSLLQAIEECQQERLSRLSAQI
 HEHQSLLDGSLVGVAQEVLKETDQPCFVQAAQLHNRIARATEALQTFRPAASSFRHCQLDVGREMKL
 LTELNLRVPEAPVIDTQRTFAYDQIFLCWRLPPHSPPAWHYTVEFRRTDVPAPQGPTRWQRREEVRGTS
 ALLENPDGTGSVYVLRVRCGNKAGYGEYSEDVHLHTPPAPGEYTERWLHVNGDEQVPVQTYLSSGFPLTQ
 I

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001107691

ORF Size: 1683 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_001107691.1](#), [NP_001101161.1](#)

RefSeq Size: 2780 bp

RefSeq ORF: 1686 bp

Locus ID: 310641

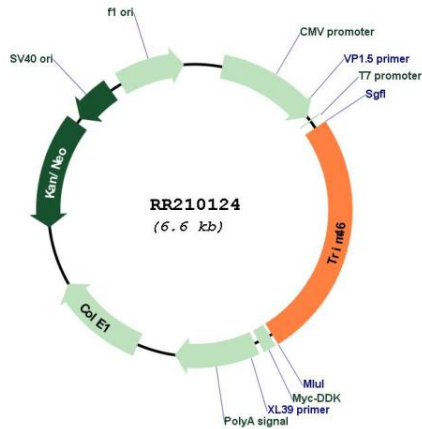
UniProt ID: [A0A0G2JXN2](#)

Cytogenetics: 2q34

MW: 63 kDa

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 RR210124