

Product datasheet for **RR204503**

Trip13 (NM_001011930) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Trip13 (NM_001011930) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Trip13
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RR204503 representing NM_001011930
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACGACGCGGTGGGCGACCTGAAGCAAGCGCTTCCGTGTGTGCCGAGTCGCCCGGGTCCATGTGG
 AGGTTTTGCAGCGCAGCGAAGCACTGCAAAAAAGAAGATATAAAGCAGAGCGTTACAGGCTGCTCAA
 GAGGCATAACATTGTGTTGGAGATTACGTGTGGACTGAGTTTGATGAGCCTTTCTAACTAGAAATGTT
 CAGTCGGTATCTATTGTTGACACAGAATTAAGGCTAAAGACCCTCAGCCATTGATCTGAGTGCATGCA
 CCATTGCACCTTCCAGCTGAATGAAGAAGGCCCCAGCAGTGAATAATTTGGATGAAGAAACAGA
 AAATATAATTGCAGCAAGTCACTGGGTTTTGCCTGCAGCTGAATTCATGGGCTTTGGGATAGCCTCGTG
 TATGATGTGGAGGTCAAATCACATCTCCTTGACTATGTGATGACCACCTACTATTCTCAGACAAGAATG
 TGGACAGCAACCTTATCACCTGGAACCGGGTGGTACTGCTGCACGGTCTCCGGTACTGGAAGACATC
 CCTTTGTAAGGCATTAGCCAGAACTGACCATCAGACTGTCAAGCAGGTACCGGTATGGCCAGTTAATT
 GAAATAAACAGCCACAGCCTATTTCTAAGTGGTTTTTCAGAAAGTGCAAGTTGGTAAGTAAAGATGTTCC
 AGAAGATTCAGGACTTGATTGATGATAAAGAAGCTTTGGTGTGTTCTGATTGATGAGGTGGAGAGTCT
 TACAGCTGCTCGAAATGCTTGCAGGGCAGGCGCAGAGCCATCAGATGCTATCCGTGTAGCAATGCTGTG
 TTGACTCAGATTGATCAGATTAAGGCAATCCAATGTGGTGATTCTGACCACTCCAACATCACTGAGA
 AGATTGATGTGGCCTTTGTGGATAGAGCTGACATCAAACAATATATTGGCCCCCTCTGCAGCAGCCAT
 CTTCAAAATCTACCTGTCTTGTTTAGAAGAACTGATGAAGTGCCAGATCATATATCCCCGTGAGCAGCTG
 TTGACCTTCGAGAGCTGGAATGATTGGCTTCATTGAAAATAATGTGTGCAAGTTGAGCCTCCTTTTGA
 GTGAAATTTCAAGGAAGAGTGAGGGCCTCAGCGGCCGGTCTTGAGGAACTTCTTTCTGGCTCATGC
 GCTGTATATCCAGGCTCCAGCGTCACCATCGAGGGTTTCTCCAGGCCCTGTACTGGCAGTGGACAAA
 CAGTTTGAGGAGAAAAAGAACTCTCAGCTCATGTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RR204503 representing NM_001011930
 Red=Cloning site Green=Tags(s)

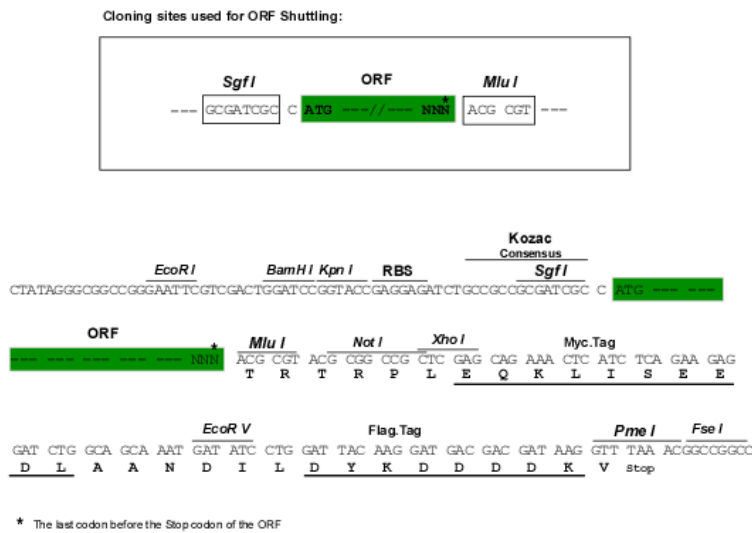
MDDAVGDLKQALPCVAESPAHVHVEVLQRSGSTAKKEDIKQSVYRLLKRHNIVFGDYVWTEFDEPFLTRNV
 QSVSIVDELKAKDPQPIDLSACTIALHIFQLNEEGPSSENLDEETENIIAASHWVLPAAEFHGLWDSL
 YDVEVKSHLLDYVMTLLFSDKNVDSNLIWNRVVLHGGPGTGKTSLCKALAQKLTIRLSSRYRYGQLI
 EINSLSLFKWFSESGKLVTKMFQKIQDLIDDKEALVFVLIDEVESLTAARNACRAGAEPDAIRVNVAV
 LTQIDQIKRHSNVVILTTSNITEKIDVAFVDRADIKQYIGPPSAAAIKFIYLSCLEELMKCQIIYPRQQL
 LTLRELEMIGFIENNVSKLSLLLSEISRKSEGLSGRVLRLPFLAHALYIQAPSVTIEGFLQALSLAVDK
 QFEEKKLSAHV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

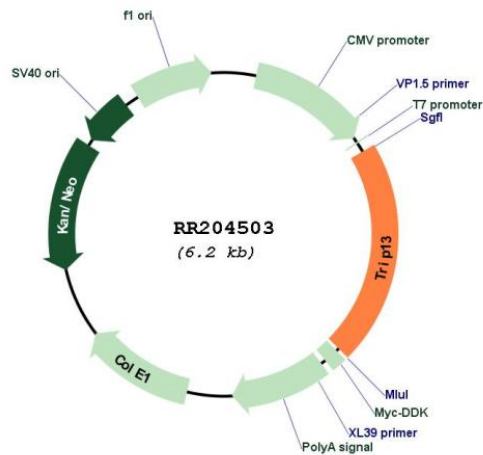
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001011930
ORF Size:	1296 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<u>NM_001011930.1</u> , <u>NP_001011930.1</u>
RefSeq Size:	1821 bp
RefSeq ORF:	1299 bp
Locus ID:	292206
UniProt ID:	<u>Q5XHZ9</u>
Cytogenetics:	1p11
MW:	48.4 kDa

Gene Summary:

Plays a key role in chromosome recombination and chromosome structure development during meiosis. Required at early steps in meiotic recombination that leads to non-crossovers pathways. Also needed for efficient completion of homologous synapsis by influencing crossover distribution along the chromosomes affecting both crossovers and non-crossovers pathways. Also required for development of higher-order chromosome structures and is needed for synaptonemal-complex formation. In males, required for efficient synapsis of the sex chromosomes and for sex body formation. Promotes early steps of the DNA double-strand breaks (DSBs) repair process upstream of the assembly of RAD51 complexes. Required for depletion of HORMAD1 and HORMAD2 from synapsed chromosomes. Plays a role in mitotic spindle assembly checkpoint (SAC) activation (By similarity).[UniProtKB/Swiss-Prot Function]