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Product datasheet for RN204503

Trip13 (NM_001011930) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trip13 (NM_001011930) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Trip13
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>RN204503 representing NM_001011930
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACGACGCGGTGGGCGACCTGAAGCAAGCGCTTCCGTGTGTTGCCGAGTCGCCCGCGGTCCATGTGG
AGGTTTTGCAGCGCAGCGGAAGCACTGCAAAAAAAGAAGATATAAAGCAGAGCGTTTACAGGCTGCTCAA
GAGGCATAACATTGTGTTTGGAGATTACGTGTGGACTGAGTTTGATGAGCCTTTTCTAACTAGAAATGTT
CAGTCGGTATCTATTGTTGACACAGAATTAAAGGCTAAAGACCCTCAGCCCATTGATCTGAGTGCATGCA
CCATTGCACTTCACATCTTCCAGCTGAATGAAGAAGGCCCCAGCAGTGAAAATTTGGATGAAGAAACAGA
AAATATAATTGCAGCAAGTCACTGGGTTTTGCCTGCAGCTGAATTTCATGGGCTTTGGGATAGCCTCGTG
TATGATGTGGAGGTCAAATCACATCTCCTTGACTATGTGATGACCACCTTACTATTCTCAGACAAGAATG
TGGACAGCAACCTTATCACCTGGAACCGGGTGGTACTGCTGCACGGTCCTCCGGGTACTGGAAAGACATC
CCTTTGTAAGGCATTAGCCCAGAAACTGACCATCAGACTGTCAAGCAGGTACCGGTATGGCCAGTTAATT
GAAATAAACAGCCACAGCCTATTTTCTAAGTGGTTTTCAGAAAGTGGCAAGTTGGTAACTAAGATGTTCC
AGAAGATTCAGGACTTGATTGATGATAAAGAAGCTTTGGTGTTTGTTCTGATTGATGAGGTGGAGAGTCT
TACAGCTGCTCGAAATGCTTGCAGGGCAGGCGCAGAGCCATCAGATGCTATCCGTGTAGTCAATGCTGTG
TTGACTCAGATTGATCAGATTAAAAGGCATTCCAATGTGGTGATTCTGACCACTTCCAACATCACTGAGA
AGATTGATGTGGCCTTTGTGGATAGAGCTGACATCAAACAATATATTGGCCCCCCCTCTGCAGCAGCCAT
CTTCAAAATCTACCTGTCTTGTTTAGAAGAACTGATGAAGTGCCAGATCATATATCCCCGTCAGCAGCTG
TTGACCCTTCGAGAGCTGGAAATGATTGGCTTCATTGAAAATAATGTGTCGAAGTTGAGCCTCCTTTTGA
GTGAAATTTCAAGGAAGAGTGAGGGCCTCAGCGGCCGGGTCTTGAGGAAACTTCCTTTCCTGGCTCATGC
GCTGTATATCCAGGCTCCCAGCGTCACCATCGAGGGTTTCCTCCAGGCCCTGTCACTGGCAGTGGACAAA
CAGTTTGAGGAGAAAAAGAAACTCTCAGCTCATGTTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Chromatograms:	https://cdn.origene.com/chromatograms/ja2092_a03.zip
Restriction Sites:	SgfI-MluI
ACCN:	NM_001011930
Insert Size:	1299 bp
OTI Disclaimer:	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. 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
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_001011930.1, NP_001011930.1
RefSeq Size:	1821 bp
RefSeq ORF:	1299 bp
Locus ID:	292206
UniProt ID:	Q5XHZ9
Cytogenetics:	1p11

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]