

## Product datasheet for MC210994

### Trip13 (NM\_027182) Mouse Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Trip13 (NM\_027182) Mouse Untagged Clone  
 Tag: Tag Free  
 Symbol: Trip13  
 Synonyms: 2410002G23Rik; D13Ertd328e  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 Fully Sequenced ORF: >MC210994 representing NM\_027182  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACGAGGCGGTGGGCGACCTGAAGCAAGCGTTCCCTGTGTTGCCGAATCGCCCGGGTCCATGTGG  
 AGTTCTCGACGCGCAGCGGAAGCACTGCAAAAAAGAAGATATAAAGTCGAGTGTTCACAGGCTGCTCAA  
 CCGGCATAATATTGTGTTGGAGATTACGTCTGGACTGAGTTTGATGATCCTTTCTAAGCAGAAATGTT  
 CAGTCAGTGTCTATTGTTGACACAGAATAAAGGCTAAAGACCCTCAGCCATTGATCTGAGTGCAATGCA  
 CCATTGCACCTTCCAGCTGAATGAAGAAGGCCCCAGCAGTGAGAATTTGGATGAAGAAACAGA  
 AAATATAATTGCAGCAAGTCACTGGGTTCTGCCTGCAGCTGAATTTTCATGGACTTTGGGATAGCCTCGTG  
 TATGATGTGGAGGTCAAATCACATCTCCTTGATTATGTGATGACCACCGTACTCTTCTCAGACAAGAACG  
 TGGACAGCAACCTCATCACCTGGAACCGGGTGGTGTCTGTCACGGTCTCCGGGTACTGGAAAAACATC  
 CCTTTGTAAGGCATTAGCCAAAAACTGACCATCAGACTGTCGAGCAGGTACCGGTATGGCCAGTTGATT  
 GAAATAAACAGCCACAGCCTATTTCTAAGTGGTTTTTCAGAAAGTGGCAAATTGGTAACATGAAGTGTCC  
 AGAAGATTCAGGACTTGATTGATGATAAGGAAGCTTTGGTGTGTTGTTCTGATTGATGAGGTGGAGTCT  
 CACAGCTGCTCGAAATGCTTGCAGGGCAGGCGCAGAGCCATCAGATGCTATCCGAGTAGCAATGCTGTG  
 TTGACTCAGATTGACCAGATTAAGGCAATCCAATGTGGTGATTCTGACCACTTCCAACATCACTGAGA  
 AGATTGATGTGGCTTTCTGGATAGAGCTGACATCAAGCAATACATTGGCCCCCTCTGCAGCAGCCAT  
 CTTCAAAATCTACCTGTCTGTTTGAAGAAGTGAAGTGCAGATCATATATCCTCGTCAGCAGCTG  
 TTGACCTTCGGGAGCTGGAAATGATTGGCTTCATTGAAAATAATGTGTCAAAGTTGAGCCTCCTTTTGA  
 GTGAAATTTCAAGGAAGAGTGAGGGCTCAGTGGCCGGTCTTGAGGAACTTCTTTCTGGCTCATGC  
 TCTCTACATCCAGGCCCCAGCGTACCATCGAGGGTTTCTCCAGGCCATCTCTGGCAGTGGACAAA  
 CAGTTTGAGGAGAAAAAGAACTTTCAGCTTATGTT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_027182
<b>Insert Size:</b>	1299 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_027182.2</a> , <a href="#">NP_081458.1</a>
<b>RefSeq Size:</b>	2267 bp
<b>RefSeq ORF:</b>	1299 bp
<b>Locus ID:</b>	69716
<b>UniProt ID:</b>	<a href="#">Q3UA06</a>
<b>Cytogenetics:</b>	13 40.15 cM
<b>Gene Summary:</b>	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 (PubMed:17696610, PubMed:19851446, PubMed:20711356). Plays a role in mitotic spindle assembly checkpoint (SAC) activation (By similarity).[UniProtKB/Swiss-Prot Function]