

## Product datasheet for **MC226491**

### Trif1 (NM\_001286685) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Trif1 (NM\_001286685) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Trif1  
**Synonyms:** 2010012G17Rik; 4933421E11Rik; AI450568  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC226491 representing NM\_001286685  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCATCAATAGTAAAAAGGAAATTCAGAAAAAGGAAATAACAAGAAATATTCTCAAGGAAGCCATA  
 CTAATATTAAGGCATCATGTCTGAAGAATGATGCTGAATTTAAAAAGCTATTTGGTCTCACTAAAGATT  
 GAGAGTATGTCTTACTCGAATTCCTGACCATCTGAGCTCTGAAAAAGTTTTAATTCCTTAAACAGTTTG  
 ATGAAAAGTAGTTCTTACAAAGATGCAAACATTGTGGTGAAGAAAGAAAAAACAGAGTTTCTCTA  
 AGAAAAGAAAAGCGGAAACCATGAAGATGGGTAACACAAAAAAGATAAAAAATTGAGAATGCTGATGACAC  
 GGTGATGAGCATCATGAATGGAAGTGTGTTGCTAGTTCCCAACCTCTCAGTAGTATTTTACCAACATCA  
 GACATATCACAACATAACATTGTCACAAGCCATAGTACAACCAGGGAAGACAAGAGAAGTACTGAGGCAGAAC  
 ACTGTTCTCATGAGAAGCAGGAAAAAGGCACATTAAGTTCAAGCACATCTTTTGAACAAAGTACTTTTT  
 AAATAAAAACTTTATGGAAGATATTTTCCAGTGACACCAGAACTAGAAGAAACCATCAGAGATGAA  
 AAAATAAGAAGACTTAAGCAATTTTAAAGAAAAAGAAGCAGCTCTTGAAGAATTGCGTAAGAAGATGT  
 ACCAAAAACA**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001286685  
**Insert Size:** 714 bp



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<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>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<u>NM_001286685.1, NP_001273614.1</u>
<b>RefSeq Size:</b>	3644 bp
<b>RefSeq ORF:</b>	714 bp
<b>Locus ID:</b>	321000
<b>UniProt ID:</b>	<u>Q8CDD9</u>
<b>Cytogenetics:</b>	3 F2.3
<b>Gene Summary:</b>	<p>Together with SMCHD1, involved in chromosome X inactivation in females by promoting the compaction of heterochromatin. Also able to repress the ligand-induced transcriptional activity of retinoic acid receptor alpha (RARA), possibly through direct recruitment of histone deacetylases.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (4) contains an alternate exon in the 5' UTR, lacks an in-frame portion of the 5' coding region and initiates translation at a downstream start codon compared to variant 1. The encoded isoform (2) has a shorter N-terminus compared to isoform 1. Variants 2 and 4 encode the same protein.</p>