

## Product datasheet for **RN217265**

### Trim71 (NM\_001191801) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trim71 (NM_001191801) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Trim71
Synonyms:	RGD1566388
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN217265 representing NM\_001191801  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTTCGTTCCCTGAGACCGACTTCCAGATCTGCCTGTGTGCAAGGAGATGTGCGGCTCGCCCGCGC  
 CTCTCTCCTCCAGCTCGTCCGCCTTTCATCGTCTCGCAGACGTCCACGTGTCGCGGGCGGCGCGCGG  
 CCCCAGGGCGGGCGGCGCGCCCTGCACGTCTGCCCTGCCTGCACGCCTTCTGCGGCGCTGCCTCGAG  
 GCGCACCGGCTCCCGGCTCCCGGTGGCGCCGGCCCGCGAGGCGCTGAAGCTGCGCTGTCTGTGTGTG  
 ACCAGAAGGTGGTCTGGCCGAGGCGGAGGATGGACGCGCTGCCGTGTCGCGCTTCTGCTCAGCAA  
 CCTGCTGGACGCCGTGGTGGCCACCGCCGACGAGCCGCCCAAGAACGGGCGCGGGTGGCGGCCCC  
 GGGGGCGGGGCGCCACAGCAATACCCGGCACCGCGCACCCCGGCCAGCGCGCCGCGCTCCAG  
 CGCGCAGCCGCCCGCCCGCCGCGCTTCTCCAGGTGCTGTTGTTGCGCCGGCCGACGGCTGCAG  
 CTCTGCGACGAGGCAATGCTGCCTCGTCCGCTGCCTCGACTGCCAGGAACACCTGTGGACAACCTGT  
 GTCGCGCGCACAGCGGTACGCCTACCAAGGACACTACATCGAGCGCGGCCCGCGGGGCTGCGG  
 CCGCTCCGCGGCGCAGCAGCTGGGGCTCGGGCCGCCCTTCGAGGCGCGCCCTTCTCCATCCTCTCGGT  
 GTTCCCGAGCGCCTCGGCTTCTGCCAACACGACGACGAGGTAACATCTGTACTGCGACACCTGC  
 TCCGTGCCATCTGCAGAGAGTGACACTGGGCCGCCATGGCGGCCACAGCTTCGCTACCTCCAGGACG  
 CCCTACAGGACTCACGGGCACTACCATCCAGTGTGGCCGACGCCAGCAGGGCCGCCAGGCCATTCA  
 GCTGAGCATTGAGCAGGCGCAGACTGTGGCAGAACAAGTGGAGATGAAGGCCAAGGTGGTCCAGTCGGAG  
 GTCAAGGCCGTCACGGCGAGACACAAGAAAGCTCTGGAGGAGCGTGAGTGGAGCTGTGGAAAGTGG  
 AGAAGATCCGGCAGGTGAAGGCTAAGTCTCTACCTGCAGGTGGAGAAGCTGCGCGAGAATCTCAACAA  
 GCTGGAGAGCACCATCAGCGCCGTCAGCAGGTCCTAGAAGAGGGCCGAGCCCTGGACATCCTGCTGGCC  
 CGAGACCGGATGCTGGCTCAGGTGCAGGAGCTCAAGACCATCCGGGGCCTCCTGCAGCCCAAGGATG  
 ACCGAGTTATGTTACACCCCCGACCAGGCCCTGTACCTTGCCTCAAGTCTTTTGGCTTTGTCAGCAG  
 TGGGGCTTTGCCCACTCACGAAGGCCGCGGAGATGGCATCAAGCGAGCCCTCAGGAAAGGTGGCC  
 TCCTTCACTGTATGGGCTATGACCACAATGGTGGAGCCCGCCTCAGGAGGTGACCTGATGTCGGTGG  
 TGGTCTTGGCCCTGATGAAACCTGTTGGTGCAGAAGTGGCGACAGCAGAAATGGGACCTACGTCGT  
 GAGCTACAGGCCAGCTTGGGGTGAACACTTGGTATCAGTGACGCTGTATAACCAGCACATCGAGAAC  
 AGCCCCCTCAAGGTAGTGGTCAAGTCGGGCCGAGCTATGTGGCATCGGGCTCCAGTGTGAGCTTTG  
 GCAGCGAGGGTGTGGCGAGGGTAAGCTCTGCAGGCCCTGGGGCTGAGTGTGGATAAAGGAGGGCTACAT  
 CATCGTGGCTGACCGCAGCAATAACAGAATTCAGGTGTTAAGCCCTGTGGGTCTTTCCACCACAAGTTT  
 GGTACCCTAGGATCTCGGCCCGGCAGTTTACCAGCCGCGGGGGTGGCTGCGACGCCTCCCGCAGGA  
 TCGTGGTGGCCGACAAAGACAATCATCGCATCCAGATCTTACCTTCGAGGGCCAGTTCTTCTGAAGTT  
 TGGCGAGAAAGGAACCAAGAATGGGCAGTTAACTACCGTGGGATGTAGCGGTCAACTCTGAGGGCAAG  
 ATCCTGGTTTCAGACACCCGAAACCACCGCATCCAGCTGTTGGACCCGACGGCGTCTTCTGAATAAGT  
 ATGGCTTCGAGGGATCTCTGGAAGCACTTCGACTCCCACGGGGCGTGGCTTCAACCATGAAGGTCA  
 CCTGGTAGTCACTGATTTCAACAACCATCGGCTCCTGGTTATCCACCCGATTGCCAGTCTGCCCGCTTC  
 CTGGGCTCTGAGGGCACTGGCAATGGGCAGTTCCGCGACCACAGGGTGTGGCTGTAGACCAGAAAGGGC  
 GAATCATTGTCGCGGATTCCAGAAATACCGTGTGCAGATGTTTGGGCCAACGGCAGCTTCTGTGCAA  
 GTTCGGTGTCAAGGCAGCGCTTCGGGCAGATGGACCGCCCTCAGGTATCGGGTACCCCGGAAGGA  
 TTGATCGTGTGGTGGACTTTGGCAACAATCGAATCCTCATCTT**C**TAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001191801  
**Insert Size:** 2568 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>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_001191801.1, NP_001178730.1</u>
<b>RefSeq Size:</b>	2568 bp
<b>RefSeq ORF:</b>	2568 bp
<b>Locus ID:</b>	301042
<b>UniProt ID:</b>	<u>D3ZVM4</u>
<b>Cytogenetics:</b>	8q32
<b>Gene Summary:</b>	E3 ubiquitin-protein ligase that cooperates with the microRNAs (miRNAs) machinery and promotes embryonic stem cells proliferation and maintenance (By similarity). Binds to miRNAs and associates with AGO2, participating in post-transcriptional repression of transcripts such as CDKN1A (By similarity). In addition, participates in post-transcriptional mRNA repression in a miRNA independent mechanism (By similarity). Facilitates the G1-S transition to promote rapid embryonic stem cell self-renewal by repressing CDKN1A expression. Required to maintain proliferation and prevent premature differentiation of neural progenitor cells during early neural development: positively regulates FGF signaling by controlling the stability of SHCBP1 (By similarity). Specific regulator of miRNA biogenesis. Binds to miRNA MIR29A hairpin and postranscriptionally modulates MIR29A levels, which indirectly regulates TET proteins expression (By similarity).[UniProtKB/Swiss-Prot Function]