

Product datasheet for **MC222236**

Trim71 (NM_001042503) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trim71 (NM_001042503) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Trim71
Synonyms:	636931; 2610206G21Rik; AL022943; Gm1127; lin-41; Lin41; mlin-41; mLin41
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC222236 representing NM_001042503
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTTCGTTCCCGAGACCGACTTCCAGATCTGCCTGTGTGCAAGGAGATGTGCGGCTCGCCCGCGC
 CGCTCTCCTCCAACCTCGTCCGCCTCGTCTGTCTCCTCGCAGACTTCCACGTCTGTCGGCGGGCGCGCGG
 CCCCAGGGCGGGCGCGCGCTTTCACGTCTTGCCTGCTGCACGCCTTCTGCGGCGCTGCCTCGAG
 GCGCACCGGCTGCCCGCTCCCGAGGCGCGGGCCCCCGCGAGGCGCTGAAGCTGCGCTGCCCGTATGTG
 ACCAGAAGGTGGTCTGGCCGAGGCGCGGGCATGGACGCGCTGCCATCTCCGCCTTCTGCTCAGCAA
 CCTGCTGGACGCCGTGGTGGCCACCGCCGAAGAGCCGCCCAAGAACGGGCGCGGGCGGGCGGGCCCC
 GGGGGCGGGCGGCCACAGCAACCACCGGCACCATGCGCACCCCGGCCAGCGCGCCGCGCTCCAG
 CGCCGACCGCCGCCCGCCCGCCCGCTCCCCGGTCTGCTGATGCGCCGGCCGACGGCTGCAG
 CTCTGCGACGAGGGCAACGCCCTCGTCCGCTGCCTCGACTGCCAGGAACACCTGTGGACAACCTGT
 GTCGCGCGCACAGCGGTCGCCCTACCAAGGACCATTACATCGAGCGCGGCCCTCCGGGCGCTGCGG
 CCGCTCCCGGCGACAGCAGCTGGGGCTCGGGCCGCCCTTCGCGGGCGCGCCCTTCTCCATTCTCTCGT
 GTTCCCGAGCGCTCGGCTTCTGCCAGCACGACGATGAGGTCTGCATCTCTACTGTGACACCTGC
 TCTGTCCCATCTGCAGAGAGTGACGCTGGGCCGCCACGGTGGCCACAGCTTCGCTACCTCCAGGATG
 CCCTGCAGGACTCTGGGCACTCACCATCCAGTGTCTGGTGTATGCCAGAGGGCGGCCAGGCTCTCCA
 GCTGAGCATCGAGAGGCCAGACTGTGGCAGAAGGTTGAGATGAAGGCGAAGGTGGTCCAGTCTGAG
 GTCAAGGCCGTCACAGCTCGCCACAAGAAGCCCTGGAGGATCGGGAGTGTGAGCTGTTGGGAAGTGG
 AGAAGTCCGGCAGGTGAAGGCGAAGTCTGTTCCTGCAAGTGGAGAAGCTGCGCAGAGTCTCAGCAA
 GCTGGAGAGCACCATCAGCGCCGTGCAGCAGTCTGGAAGAGGGCCCGCCCTGGACATCTGTGGCC
 CGAGACCGGATGCTGGCCAGGTGCAGGAGCTCAAGACATCCGAGGCCTCTGCAGCCCAAGAAGATG
 ACCGCATTATGTTACGCCCCCTGACCAGGCCCTGTACCTCGCCCTCAAGTCTATTGGCTTGTGACGAG
 CGGGGCCCTCGCCCCGCTACGAAGGCTACAGGAGATGGCATCAAGCGTGCCTTCAGGGGAAGGTGGCC
 TCTTCTACTGTATGGGCTACGACCAGATGGTGGAGCCCGCCATTTCGGGAGGTGACCTGATGTCAGTTG
 TGGTCTCGGCCCGACGAAACCTGTTGGTGCAGAAGTGGAGCAGCAGAGAATGGTACTTACATAGT
 GAGCTACAGGCCAGCTTGAGGTTGAGCACTTGGTGTGGTGCATTGTACAATCAGCATATAGAGAAC
 AGCCCCCTCAAGGTCTGGTCAAGTCCGGCCGAGCTACGTGGGCATCGGGCTCCCGGGCTGAGCTTCG
 GCAGTGAAGGTGACGGGAGGGCAAGCTCTGCAGGCCCTGGGGCTGAGTGTGATAAGGAGGGTTTCAT
 CATAGTGGCTGACCGAAGCAATAACAGAATCCAGGTGTTAAGCCCTGTGGTTCCTTCCACCACAAGTTT
 GGTACCCTTGGTCTCGTCTGGGAGTTTGACCGACCGGCTGGGGTGGCTTGTGACGCCTCCCGCAGGA
 TCATAGTGGCCGACAAAGACAATCATCGCATTAGATCTTACCTTCGAGGGCCAGTTCTTCTTAAGTT
 TGGTGAGAAAGGCACCAAGAACGGGAGTTAACTACCGTGGGATGTAGCAGTGAATTCGAGGGCAAG
 ATCCTCGTTTCAGACACCCGGAATCATCGCATCCAGTTGTTCCGACCGGACGGGGTCTTCTGAACAAGT
 ACGGCTTCGAGGGATCTCTGGAAGCACTTCGACTCTCCACGGGCGTGGCTTCAACAATGAAGGTCA
 CCTGGTAGTCACCGACTTCAACAACACCGGCTTCTGGTTATTCACCCTGATTGCCAATCTGCCCGCTTC
 TTGGGTTTCGGAGGGCTCGGGCAATGGGCAGTTCTGCGACCACAGGGTGTGGCTGTGGACAGGAAGGGA
 GAATCATCGTAGCCGATTCCAGAAATCACCGCGTGCAGATGTTTGGGCAATGGCAGCTTCTGTGCAA
 GTTTGGTGTCAAGGGAGTGGCTTCGGGCAGATGGACCGCCCTCAGGTATCGGGTACCCCGGATGGA
 TTGATCGTGTGGTGGACTTTGGCAACAATCGAATCCTCATCTT**C**TAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001042503
Insert Size: 2568 bp

OTI Disclaimer:	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).
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:	NM_001042503.2 , NP_001035968.1
RefSeq Size:	5197 bp
RefSeq ORF:	2568 bp
Locus ID:	636931
UniProt ID:	Q1PSW8
Cytogenetics:	9 F3
Gene Summary:	E3 ubiquitin-protein ligase that cooperates with the microRNAs (miRNAs) machinery and promotes embryonic stem cells proliferation and maintenance (PubMed:19898466). Binds to miRNAs and associates with AGO2, participating in post-transcriptional repression of transcripts such as CDKN1A. Facilitates the G1-S transition to promote rapid embryonic stem cell self-renewal by repressing CDKN1A expression (PubMed:22735451). In addition, participates in post-transcriptional mRNA repression in a miRNA independent mechanism (PubMed:23125361). 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 (PubMed:22735451). Specific regulator of miRNA biogenesis. miRNA Binds MIR29A hairpin and postranscriptionally modulates MIR29A levels, which indirectly regulates TET proteins expression (By similarity). [UniProtKB/Swiss-Prot Function]