

Product datasheet for **MC221463**

Cmtr2 (NM_146215) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cmtr2 (NM_146215) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cmtr2
Synonyms:	AU022703; C730036L12Rik; Ftsjd1; MTr2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC221463 representing NM_146215
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGCAAGCGCAGAAAGCTTCCGGCTCGGCAGCCAGCTTGCTTGGAGACCTTCAGCCCAGACGTCCTCA
ATGACGTGTCTGAGCTCTTTGCCAAGAGCTTTTCTACCGTAAGCCACTCGATAATGAGTGGCAGTTACC
AGCTCCACGGAGAGCTTCTCCTGTGGGCACCTCGAGTTCAGGGCTCTTCTAGACTTGAAGAAGCTCCCTG
AACGAAGTGAAGAAGCTCCTGAGCGATAAAGAGCTGGACGAGTGGCACAGGCACACGGCCTTCACCAACA
AGGCAGGCAAAATCATCTCTCATGTCAAAAAGGCCGTGAACGCGGAACTCTGCACTCAGGCCTGGTGCAA
ATTCCAGGAGATCCTGTGCAGTTTCCCCCTCATTCCGCAGGAAGCTTTTCAGAGTGAAGACTGAATTCT
CTGCACCTGTGTGAAGCTCCGGGCGCTTCATCGCTAGCCTCAACCATTACTTAAATCTCACCGGTTCC
CCTGTGAATGGAGCTGGGTGGCGAACAGCCTGAATCCATACCACGAGGCAACGACAATCTTAGGATGAT
TACGGATGACCGGCTGATGGCAAATACCTTGCACTGCTGGTACTTCGGCCAGATAATACCGGTGATATC
ATGACCCTGAAATATCTGACCGGCTTCAGGACTTCTCAGCGGCATGTCTCCATTCACTTGGTACCGG
CTGATGGCAGCTTCGATTGCCAAGGAAACCCAGGTGAACAGGAAGCCTTAGTGTCTGCTTTGCACTACTG
CGAAGCTGTCACTGCTCTGATCACTCTTGGAGACGGCGGCTCTTTTGTCTAAAGATGTTTACGTTGTT
GAACACTGTTCTGTGAACCTCATGTACCTGCTAAATTGTTCTTTTACCAAGTTCATGTTTTCAAACCTG
CGACTAGCAAGGCAGGAAACTCAGAAGTCTATGTGGTGTGCTTTCGCTATAAGGGAAGAGAGGCCGTTCA
GCCTCTGCTATCTAGGATGGTGTGAACCTCGGCACTGAGATGACCAGGAAGGCGCTCTTTCCTCATCAT
GTGATCCCCAAATCCTTCTTGGAGCAGACGAAGAGTGTGTACGTTCTTTCATAGATACCAGTTAGAGA
CTATATCTGAGAACATTCGCTCTTTTGGAGCATGGGAACGGGGGAGCAAGAGAGACTCAATAATCTAAG
GGATTGCGCTGTACAATATTTTATGCAAAAATTTCAACTGAAGCCTCTTTCAGAAATCACTGGCTCGTT
AAAAAGTCCAATATTGGTTGTAGTATGAACACGAATGGTTTGGACAGAGAAACAAGTATTTTAAACCT
ATAATGAACGGAAGATGATGAAACCTTTTATGGAAGGATAAAGTAGCCAAAGGATACTTCAATAGTTG
GGCAGAGGAACACACCGTCTATCATCCCGGCAGAAATCCCTCCTTGAAGGGACTGCTTCCAGTCTTGAG
TACCAGTCGTGGCAAGTCTTAGAAGGAAAGAACTGCCGAAGGTAAGTGTCCCTTTCTGTGATGGT
AAATTTTAAAGACTCTCAATGAAGCCATCGAGAAGTCTTAGGAGAAGCTTTGAGCGTGGATGCCAAGT
CAGTTCCAAGCAGCAATACCGCTGTTGTCCGCTTTTTCAGAAGAGTCAGTATTATCCGAGTTGTTGAG
CTTACCAAGTGCCTTCCGACGAAACAGGTTGCCGAACCCAGCGGCCAGTCAAGTGCCTGCTGGTGGCT
CACCGGCCGTCTGTGATCTCCAGATGCCCGGCCACTGGAAATCCAGCTTGTGGAGTCCGTGGAGCTCAC
AGCCTTACAGTGTTCCTGCTTACGATGGTGACCCAGCCTACCAGCATTGTTCTTGGACTGCCTGCTG
CACTCACTGAGGCGGCTTACAGGGGAGATGTGATGGTCTTGCCATCCTTTCTGCTTACAGAGTTTA
TGGCTGGCCTGACCTTCGCTCCACGGCTGTTTTAGATTTATCACGTTCTTGTCCCAGTCCCTGGA
GCCCTCAGGACCTGTCCGCTTGTGTGCATTGGTTATCAGAACCTTCCAGATGCAGTTTTCCAGTTT
CTACAGAATGTTATGACCTCTTGGCAAGCTGCTGCACCCAGTGCCTCAGGAGATTTTACAGTTCC
TACCAATGGAGGCGCTCCTCAGGGGACGCTGCTTACTTTTGTGGGATTTGAACGCTGCCATTGCTAA
AAGGCATCTGCATTTGATTATTCAAGGAGAGCGAGACCAAGCCATCGGCAGCCTTGAGTTA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_146215
Insert Size: 2304 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_146215.4 , NP_666327.2
RefSeq Size:	3577 bp
RefSeq ORF:	2304 bp
Locus ID:	234728
UniProt ID:	Q8BWQ4
Cytogenetics:	8 D3
Gene Summary:	S-adenosyl-L-methionine-dependent methyltransferase that mediates mRNA cap2 2'-O-ribose methylation to the 5'-cap structure of mRNAs. Methylates the ribose of the second nucleotide of a m(7)GpppG-capped mRNA and small nuclear RNA (snRNA) (cap0) to produce m(7)GpppRmpNm (cap2). Recognizes a guanosine cap on RNA independently of its N(7) methylation status. Display cap2 methylation on both cap0 and cap1. Displays a preference for cap1 RNAs.[UniProtKB/Swiss-Prot Function]