

## Product datasheet for **RR213812**

### **Cmtr2 (NM\_001106186) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cmtr2 (NM_001106186) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cmtr2
Synonyms:	Ftsjd1; RGD1309394
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR213812 representing NM\_001106186  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCAAGCGCAGGAAGCGTCCAGCTCAGCAGCCAGCGAGCCCCGAGACCTTCAGCCCAGACGCTCTCA  
 ATGCCGTGTCTGAGCTCTTCGCCAAGAACCTTTCTACTGTAAGCCACTCGATCACGAGTGGCAGTTACC  
 AGCTCCCGCCGAGAGCTTACCTGCGAGCACGTGAGTTCGAAGCTTTCTTGTACTTGAAGAAGCTCCCTG  
 AACGCAGTGAAAAACCTCCTGTGCGATAAGGAGCTGGACGGCTGGCACAGGCACACCGCCTTACCAACA  
 GGGCGGGGAGATCATCGCCACGTGAGAAAGGCCGTGAACGCAGAACTCTGTACTCAGGCCTGGTGCAA  
 GTTCCAGGAGATCTTGTGAGTTTCCCACTTATCCCGCAGGAAGCTTTTCAGAGTGAAGACTGAATTCT  
 CTGCACCTGTGTGAAGCCCCAGGCGCTTTCATAGCCAGCCTCAACCATTACTTAAATCCACCGGTTCC  
 CCTGTGAATGGAGCTGGGTAGCAAATAGCCTGAACCCATACCACGAGGCCAACGACAATCTTAGGATGAT  
 TACGGACGACCGGCTGATTGCAAACACCTTGCACCGCTGGTACTTCGGCCAGATAACACTGGTGATATC  
 ATGACCCTGAAGTACCTGACCGGCTTCAAGACTTCTCAGCGGCACATCTCCCATTCACCTGGTCACTG  
 CTGATGGGAGTTTTGACTGCCAGGGAAACCCAGGCGAACAGGAAGCTTTAGTCTCCCTTTGCATTACTG  
 TGAAGCTGTCACTGCTCTGACCACCTTGGAGATGGTGGCTCTTTTGTCTAAAGATGTTACGTTGTTT  
 GAACACTGTTCTGTGAACCTCATGTACCTGCTAAATTGTTCTTTGACCAAGTTCACGTTTTCAAACCTG  
 CTACTAGCAAGGCGGAAACTCAGAAGTCTACGTGGTGTGTCTCTGCTATAAGGGGAGAGAGGCTATTTCG  
 TCCTTTGCTATCTAGGATGGTGTGAACCTTGGCACTGAGATGACCAAGAAGGCGCTCTTTCCCATCAT  
 GTGATCCCCAAATCCTTTCTTGAGCGACACAGAGAGTGTGTACTCTCCATAGATACCAGTTAGAGA  
 CTATCTCTGAGAACATTCGCTTTTGTGATGCATGGGGACGGGGGAGCAAGAGAACTGAATAACTTAAG  
 GAACTGTGCTGTACAGCATTTTATGCAAAAAGTTCCAAGTGAAGCCCTTTCTAGAAATCACTGGCTCGTC  
 AAAAAATCCACTCTTGGCTGCAGTACAAACACAAAATGTTTCGGACAGAGAAACAAGTATTTTAGAACCT  
 ATAACGAACGGAAGATGCTGAAACCTTTCTGGAAGGATAAAGTAGCCAGGGGATTCTTCGATAGTTG  
 GGCGGAGGAACATGTCGCTATCACCCCGGCAGAGCCCCCTCTAGAAGGGAGTGCTTCCAGCCTCGAG  
 TGCCACTTGTGGTGCATTCTAGAAGGCAAGAACTGCCGAAGGTGAAGTGTCTCCTTTCTGTGATAGTG  
 AAATTTTAAAGACTCTTAATGAAGCCATTGAGAAGTCTCAGGAGAAGCTTTGAGTGTGGAGTCCAAGGT  
 CAGTCCAAGCAGCAATACCGCTGTTGCCAAATCTTCTCGGAAGAATCGGTGTTATCCGAGTTGCTGAGC  
 CTTACCAAGTGCCTTCAGGAAGAGCAGGGTGTAGAACCAGCAACCCCATCAGGTGCCTGCTTGTGGGT  
 CACCCACTGTCCGCGATCTCAAATGTACACGGCCCTGGAAGTCCAGCTTCTGGAGTCCGTCGAACTTAC  
 TGCCCTCAGCTGTCACTGCTCCATGACGGTGACCCCGCCTACCAACATTTGTTTTGAATTGCCTGCTA  
 CACTCCCTGAAGCAGCTTCACTCGGGAGATGTGATGATTTTGCCCATCCTTCTGCTTCAAGGTTTA  
 TGGCTGGCTTGACCTTTGCTCCACAGCTGTTTTAGATTTATCACATTCTTGTCCCACATCGTCTGA  
 GCCCTCAGGACCTGTGCTGTCTGCTATGCATTGGTTATCAGAACCTTCCAGATCCAGTTTTTCAGTTT  
 CTGCAGAACGTTAACGAACCTTTGGCACTTTGCTCCACCCCGGTGCCCCCAGCAGGTTTTACAGTTTG  
 TACCAATGGAGGTGCTCCTTCAGGGGACACTGCTTGATTTTTGTGGGATCTGAATGCTGCCATTGCTAA  
 AAGGCATTTGCATTTGATTATCCAAGGAGAGAGACAAAAGTCACTCAGCAGCCTCGAGTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR213812 representing NM\_001106186  
 Red=Cloning site Green=Tags(s)

MSKRRKRPAQQPASPETFSPDALNAVSELFAKNFSYCKPLDHEWQLPAPAESFTCEHVEFQAFDLKNSL  
 NAVKNLLCDKELDGWHRHTAFTNRAGQIIAHVRKAVNAELCTQAWCKFQEILCSFPLIPQEAFQSGRLNS  
 LHLCEAPGAFIASLNHYLKSHRFPCEWSWVANSLNPHYEANDNLRMITDDRLIANTLHRWYFGPDNTGDI  
 MTLKYL TGLQDFLSGTSP IHLVTADGSFDCQGNPGEQEALVSPLHYCEAVTAL TTLGDGGSFVLKMFTLF  
 EHCSVNLMYLLNCSFDQVHVFKPATSKAGNSEVYVCLCYKGREAIRPLL SRMVLNFGTEMKKALFPHH  
 VIPKSFLERHRECCTLFHRYQLETISENIRL FECMGTGEQEKLNNLRNCAVQHF MQFKQLKPLSRNHWLV  
 KKSTLGCSTNTKWFQQRNKYFRTYNERKMLET LSWKDKVARGFFDSWAEHVVYHPGQSP LLEGSASSLE  
 CHLWCILEGKLPKVKCSFPDSEILKTLNEAIEKSSGEALSVESKVS PKQYRCCQIFSEESVLS ELLS  
 LTKCLQEEQGVESNP I RCLLVGSPTVRDLQMYTAL EVQLLESVELTAFSCSLLHDGDPAYQHLFLNCLL  
 HSLKQLHSGDVMILPILSCFTRFMAGLTFVLHSCFRFITFSCPTSSEPLR TCAVLLCIGYQNL PDPVFQF  
 LQNVNELLGTL LHPGAPQQV LQFVPMEVLLQGTLLDFLWDLNAAIAKRHLHLIIQGERDKV ISSLEL

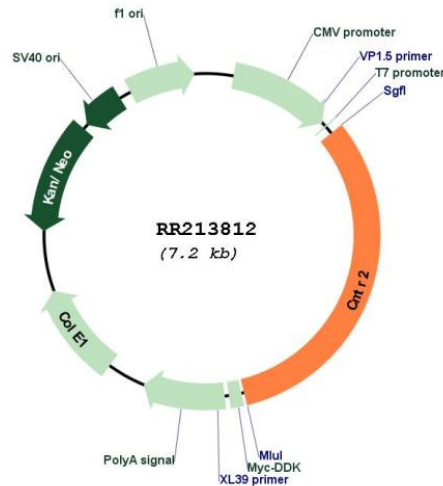
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001106186

**ORF Size:** 2301 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**

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\\_001106186.1](#), [NP\\_001099656.1](#)

**RefSeq Size:** 3553 bp

**RefSeq ORF:** 2304 bp

**Locus ID:** 292016

Cytogenetics: 19q12  
MW: 87.1 kDa