

## Product datasheet for **RG206109**

### **FTSJD1 (CMTR2) (NM\_018348) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	FTSJD1 (CMTR2) (NM_018348) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CMTR2
Synonyms:	AFT; FTSJD1; HMTr2; MTr2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RG206109 representing NM\_018348  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGAGTAAGTGCAGAAAGACACCAGTTCAGCAGCTAGCAAGTCCCAGCTCATTACAGCCAGATATCTTG  
CTGACATTTTTGAACTCTTTGCCAAGAAGCTTTCTTATGGCAAGCCACTTAATAATGAGTGGCAGTTACC  
AGATCCCAGTGAGATTTTACCTGTGACCACACTGAACTTAATGCATTTCTTGATTTGAAGAAGTCCCTA  
AATGAAGTAAAAACCTACTGAGTGATAAGAACTGGATGAGTGGCATGAGCACACTGCTTTCACATAA  
AAGCGGGGAAAAATCATTCTCATGTTAGAAAACTGTGAATGCTGAACTTGTACTCAAGCATGGTGAA  
GTTCCATGAGATTTGTGCAGCTTCCACTTATCCACAGGAAGCTTTTCAGAATGGAAAACTGAATTCT  
CTACACCTTTGTGAAGCTCCAGGAGCTTTATAGCTAGTCTCAACCCTACTTAAATCCCATCGGTTTC  
CTTGTCATTGGAGTTGGGTAGCGAATACTCTGAATCCATACCATGAAGCAAATGACGACCTCATGATGAT  
TATGGATGACCGCTTATTGCAAATACCTTGCCTGGTGGTACTTTGGTCCAGATAACACTGGTGATATC  
ATGACCTGAAATTTCTGACTGGACTTCAGAATTCATAAGCAGCATGGCTACTGTTCACTTGGTCACTG  
CAGATGGGAGTTTTGATTGCCAAGGAAACCCAGGTGAACAAGAAGCTTTAGTTTCTTCTTTGCATTA  
TGAAGTTGCTACTGCTCTGACCACTCTTGGAAACGGTGGCTCTTTTGTCTAAAGATGTTTACTATGTT  
GAACATTGTTCCATAAAGTGTACCTGCTAACTGTTGTTTTGACCAAGTCCATGTTTTCAAACCTG  
CTACTAGCAAGGCAGGAACTCCGAAGTCTATGTGTTGGCTCCACTATAAGGGGAGAGAGGCCATCCA  
TCCTCTGTTATCTAAGATGACCTGAATTTGGGACTGAAATGAAAAGGAAAGCCCTTTTCCCCATCAT  
GTGATTTCTGAAAACTTCGTCTATTTGAGTGCATGGGAAAGCGGAACAAGAAAAGCTGAATAATTTAAG  
GGATTGTGCTATACAATATTTTATGCAAAAATTTCAACTGAAACATCTTTCCAGAAATAATTGGCTAGTA  
AAAAAATCTAGTATTGGTTGTAGTACAAAATACAAAATGGTTTGGGAGAGGAACAATAATTTAAAACTT  
ATAATGAAAGGAAGATGCTAGAAGCCCTTTCATGGAAAGATAAAGTAGCCAAAGGATACTTTAATAGTTG  
GGCTGAAGAACATGGTGTATATCATCCTGGCAGAGTTCTATTTTAGAAGGAACAGCTTCCAATCTTGAG  
TGTCACTTATGGCATATTTGGAGGAAAGAACTGCCAAAGGTAAAATGTTCTCCTTTTGAATGGT  
AAATTTAAAACTCTTAATGAAGCAATTGAAAAGTCATTAGGAGGAGCTTTTAAATTTGGATTCCAAGT  
TAGGCCAAAACAGCAGTATTCTGTTCTTGTCTGTTTTTCTGAAGAACTGATATTTCCGAGTTGTGT  
AGCCTTACTGAGTGCCTCAGGATGAGCAGGTTGTAGTACCCAGCAATCAAATAAAGTGCCTGCTGGTGG  
GCTTTTCGACTCTCCGTAATATCAAATGCATATACCGTTGGAAGTTCGACTCCTAGAATCAGCTGAACT  
CACAACCTTTAGCTGTTCACTGTTTATGATGGAGATCCAACCTACCAGCGTTTATTTTGGACTGCCTT  
CTACATTCATTGCGGGAGCTTCATACAGGAGATGTTATGATTTTGCCTGTACTTTCTTGCTTCAAGAT  
TTATGGCTGGTTGATCTTTGACTCCACAGTTGTTTTAGATTCACTTTTGTGTTGCCACATCCTC  
TGATCCCTGAGGACCTGCGCAGTCTGCTATGTGTTGGTTATCAGGACCTTCCAATCCAGTTTCCGA  
TATTTGCAGAGTGTGAATGAATTGTTGAGCACTTGGCTCAACTCTGACTCACCCAGCAGGTTTACAGT  
TTGTGCCAATGGAGTACTCCTAAGGGGGCCCTGCTTGATTTTTGTGGGATTTGAATGCTGCCATTGC  
TAAAAGGCATTTGCATTTCAATTCAAAGAGAGAGAGAAGAAATATCAACAGCCTTCAGTTACAAAAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG206109 representing NM\_018348  
 Red=Cloning site Green=Tags(s)

```

MSKCRKTPVQQLASPASFSPDILADIFELFAKNFSYGKPLNNEWQLPDPSEIFTCDHTELNAFLDLKNSL
NEVKNLLSDKKLDEWHEHTAFTNKAGKII SHVRKSVNAELCTQAWCKFHEILCSFPLIPQEAFQNGKLS
LHLCEAPGAFIASLNHYLKSHRFPCHWSWVANTLNPHYEANDDLMMIMDDRLIANTLHWWYFGPDNTGDI
MTLKFLTGLQNFISSMATVHLVTADGSFDCQGNPGEQEALVSSLHYCEVVTAL TTLGNNGSFVLKMFMTF
EHCSINLMYLLNCCFDQVHVFKPATSKAGNSEVYVCLHYKGREAIHPLL SKMTLNF GTEMKRKALFPHH
VIPDSFLKRHEECCVFFHKYQLETISENIRL FECMGKAEQEKLNNLRDCAIQYFMQKFLKHL SRNNWL V
KKSSIGCSTNTKWFQQRNKYFKTYNERKMLEALSWKDKVAKGYFNWAEHGVYHPGQSSILEGTASNLE
CHLWHILEGKKLPKVKCSPFCNGEILKTLNEAIEKSLGGAFNLDSKFRPKQQYSCSCHVFSEELIFSELC
SLTECLQDEQVVVPSNQIKCLLVGFSTLRNIKMHIPLEVRLL ESAEL TTFSCSLLDHGDPTYQRLF DCL
LHSLRELHTGDVMILPVLSCFTRFMAGLIFVLHSCFRFITFVCPTSSDPLR TCAVLL CVGYQDLNPNVFR
YLQSVNELLSTLLNSDSPQQVLQFVPMEVLLKGALLDFLWDLNAAIAKRHLHFIIQREREIINSLQLQN
  
```

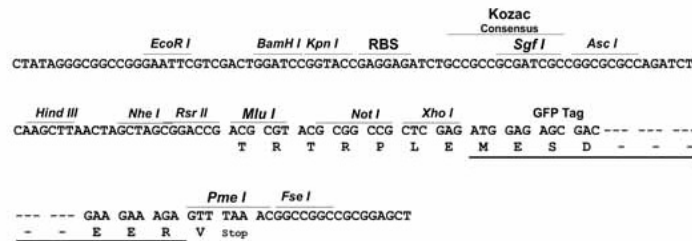
TRTRPLE - GFP Tag - V

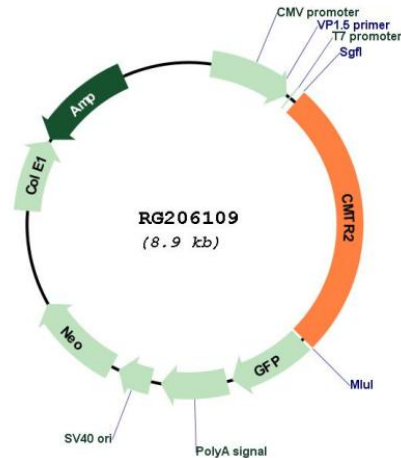
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**


**ACCN:** NM\_018348

**ORF Size:** 2310 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\\_018348.6](#)

**RefSeq Size:** 4184 bp

**RefSeq ORF:** 2313 bp

**Locus ID:** 55783

UniProt ID:	<a href="#">Q8IYT2</a>
Cytogenetics:	16q22.2
Domains:	Ftsj
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]