

Product datasheet for **RC221751**

FTSJD1 (CMTR2) (NM_001099642) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FTSJD1 (CMTR2) (NM_001099642) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FTSJD1
Synonyms:	AFT; FTSJD1; HMTr2; MTr2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RC221751 representing NM_001099642
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGAGTAAGTGCAGAAAGACACCAGTTCAGCAGCTAGCAAGTCCCAGCTCATTACAGCCAGATATCTTGG
CTGACATTTTTGAACTCTTTGCCAAGAAGCTTTCTTATGGCAAGCCACTTAATAATGAGTGGCAGTTACC
AGATCCCAGTGAGATTTTACCTGTGACCACACTGAACTTAATGCATTTCTTGATTTGAAGAAGTCCCTA
AATGAAGTAAAAACCTACTGAGTGATAAGAACTGGATGAGTGGCATGAGCACACTGCTTTCACATAA
AAGCGGGGAAAAATCATTCTCATGTTAGAAAACTGTGAATGCTGAACTTGTACTCAAGCATGGTGAA
GTTCCATGAGATTTGTGCAGCTTTCCACTTATCCACAGGAAGCTTTTCAGAATGGAAAACTGAATTCT
CTACACCTTTGTGAAGCTCCAGGAGCTTTATAGCTAGTCTCAACCCTACTTAAAAATCCCATCGGTTTC
CTTGTCATTGGAGTTGGGTAGCGAATACTCTGAATCCATACCATGAAGCAATGACGACCTCATGATGAT
TATGGATGACCGCTTATTGCAAAATACCTTGCCTGGTGGTACTTTGGTCCAGATAACACTGGTGATATC
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CAGATGGGAGTTTTGATTGCCAAGGAAACCCAGGTGAACAAGAAGCTTTAGTTTCTTCTTTGCATTA
TGAAGTTGCTACTGCTCTGACCCTCTTGGAAACGGTGGCTCTTTTGTCTAAAGATGTTTACTATGTTT
GAACATTGTTCCATAAAGTGTACCTGCTAACTGTTGTTTTGACCAAGTCCATGTTTTCAAACCTG
CTACTAGCAAGGCAGGAAACTCCGAAGTCTATGTGTTTGGCTCCACTATAAGGGGAGAGAGGCCATCCA
TCCTCTGTTATCTAAGATGACCTTGAATTTTGGGACTGAAATGAAAAGGAAAGCCCTTTTCCCCATCAT
GTGATTTCTGAAAACATTCGTCTATTTGAGTGCATGGGAAAGCGGAACAAGAAAAGCTGAATAATTTAAG
GGATTGTGCTATACAATATTTTATGCAAAAATTTCAACTGAAACATCTTTCCAGAAAATAATTGGCTAGTA
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AGCCTTACTGAGTGCCTCAGGATGAGCAGGTTGTAGTACCCAGCAATCAATAAAGTGCCTGCTGGTGG
GCTTTTCGACTCTCCGTAATATCAAAATGCATATACCGTTGGAAGTTCGACTCCTAGAATCAGCTGAACT
CACAACCTTTAGCTGTTCACTGTTTATGATGGAGATCCAACCTACCAGCGTTTATTTTGGACTGCCTT
CTACATTCATTGCGGGAGCTTACACAGGAGATGTTATGATTTTGCCTGTACTTTCTTGCTTCAAGAT
TTATGGCTGGTTGATCTTTGACTCCACAGTTGTTTTAGATTCACTTTTGTGTTGCCACATCCTC
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TAAAAGGCATTTGCATTTCAATTATCAAGAGAGAGAGAAGAAATATCAACAGCCTTCAGTTACAAAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC221751 representing NM_001099642
Red=Cloning site Green=Tags(s)

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MSKCRKTPVQQLASPASFSPDILADIFELFAKNFSYGKPLNNEWQLPDPSEIFTCDHTELNAFLDLKNSL
NEVKNLLSDKKLDEWHEHTAFTNKAGKIISHVRKSVNAELCTQAWCKFHEILCSFPLIPQEAQNGKLS
LHLCEAPGAFIASLNHYLKSHRFPCHWSWVANTLNPHYEANDLMMIMDDRLIANTLHWWYFGPDNTGDI
MTLKFLTGLQNFISSMATVHLVTADGSFDCQGNPGEQEALVSSLHYCEVVTALTTLGNNGSFVLKMFMTF
EHCSINLMYLLNCCFDQVHVFKPATSKAGNSEVYVVLHYKGREAIHPLL SKMTLNF GTEMKRKALFPHH
VIPDSFLKRHEECCVFFHKYQLETISENIRLFCMGKAEQKLNLRDCAIQYFMQKFLKHL SRNNWL V
KKSSIGCSTNTKWFQQRNKYFKTYNERKMLEALSWKDKVAKGYFNWAEHGVYHPGQSSILEGTASNLE
CHLWHILEGKLPKVKCSPFCNGEILKTLNEAIEKSLGGAFNLDSKFRPKQYSCSCHVFSEELIFSELC
SLTECLQDEQVVPSNQIKCLLVGFSTLRNIKMHIPLEVRLLESAELTTFSCSLLDHGDPTYQRLFDC
LHSLRELHTGDVMILPVLSCFTRFMAGLIFVLHSCFRFITFVCPTSSDPLRCAVLLCVGYQDLNPNVFR
YLQSVNELLSTLLNSDSPQQLQFVPMVLLK GALLDFLWDLNAAIAKRHLHFIIQREREIINSLQLQN
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8101_g11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001099642

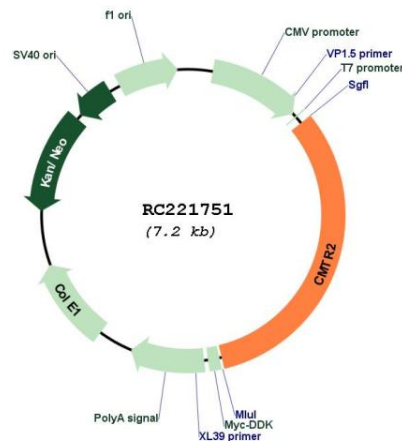
ORF Size: 2310 bp

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:	<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:	<u>NM_001099642.2</u>
RefSeq Size:	4040 bp
RefSeq ORF:	2313 bp
Locus ID:	55783
UniProt ID:	<u>Q8IYT2</u>
Cytogenetics:	16q22.2
MW:	88.1 kDa
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]

Product images:



Circular map for RC221751