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Product datasheet for RG221751

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:	TurboGFP
Symbol:	FTSJD1
Synonyms:	AFT; FTSJD1; HMTr2; MTr2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG221751 representing NM_001099642
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTAAGTGCAGAAAGACACCAGTTCAGCAGCTAGCAAGTCCCGCGTCATTCAGCCCAGATATTCTTG
CTGACATTTTTGAACTCTTTGCCAAGAACTTTTCTTATGGCAAGCCACTTAATAATGAGTGGCAGTTACC
AGATCCCAGTGAGATTTTCACCTGTGACCACACTGAACTTAATGCATTTCTTGATTTGAAGAACTCCCTA
AATGAAGTAAAAAACCTACTGAGTGATAAGAAACTGGATGAGTGGCATGAGCACACTGCTTTCACTAATA
AAGCGGGGAAAATCATTTCTCATGTTAGAAAATCTGTGAATGCTGAACTTTGTACTCAAGCATGGTGTAA
GTTCCATGAGATTTTGTGCAGCTTTCCACTTATTCCACAGGAAGCTTTTCAGAATGGAAAACTGAATTCT
CTACACCTTTGTGAAGCTCCAGGAGCTTTTATAGCTAGTCTCAACCACTACTTAAAATCCCATCGGTTTC
CTTGTCATTGGAGTTGGGTAGCGAATACTCTGAATCCATACCATGAAGCAAATGACGACCTCATGATGAT
TATGGATGACCGGCTTATTGCAAATACCTTGCACTGGTGGTACTTTGGTCCAGATAACACTGGTGATATC
ATGACCCTGAAATTCTTGACTGGACTTCAGAATTTCATAAGCAGCATGGCTACTGTTCACTTGGTCACTG
CAGATGGGAGTTTTGATTGCCAAGGAAACCCAGGTGAACAAGAAGCTTTAGTTTCTTCTTTGCATTACTG
TGAAGTTGTCACTGCTCTGACCACTCTTGGAAACGGTGGCTCTTTTGTTCTAAAGATGTTTACTATGTTT
GAACATTGTTCCATAAACTTGATGTACCTGCTAAACTGTTGTTTTGACCAAGTCCATGTTTTCAAACCTG
CTACTAGCAAGGCAGGAAACTCCGAAGTCTATGTGGTTTGCCTCCACTATAAGGGGAGAGAGGCCATCCA
TCCTCTGTTATCTAAGATGACCTTGAATTTTGGGACTGAAATGAAAAGGAAAGCCCTTTTTCCCCATCAT
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CTATTTCTGAAAACATTCGTCTATTTGAGTGCATGGGAAAGGCGGAACAAGAAAAGCTGAATAATTTAAG
GGATTGTGCTATACAATATTTTATGCAAAAATTTCAACTGAAACATCTTTCCAGAAATAATTGGCTAGTA
AAAAAATCTAGTATTGGTTGTAGTACAAATACAAAATGGTTTGGGCAGAGGAACAAATATTTTAAAACTT
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GGCTGAAGAACATGGTGTATATCATCCTGGGCAGAGTTCTATTTTAGAAGGAACAGCTTCCAATCTTGAG
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AAATTTTAAAAACTCTTAATGAAGCAATTGAAAAGTCATTAGGAGGAGCTTTTAATTTGGATTCCAAGTT
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CTACATTCATTGCGGGAGCTTCATACAGGAGATGTTATGATTTTGCCTGTACTTTCTTGCTTCACAAGAT
TTATGGCTGGTTTGATCTTTGTACTCCACAGTTGTTTTAGATTCATCACTTTTGTTTGTCCCACATCCTC
TGATCCCCTGAGGACCTGCGCAGTCCTGCTATGTGTTGGTTATCAGGACCTTCCAAATCCAGTTTTCCGA
TATTTGCAGAGTGTGAATGAATTGTTGAGCACTTTGCTCAACTCTGACTCACCCCAGCAGGTTTTACAGT
TTGTGCCAATGGAGGTACTCCTTAAGGGGGCCCTGCTTGATTTTTTGTGGGATTTGAATGCTGCCATTGC
TAAAAGGCATTTGCATTTCATTATTCAAAGAGAGAGAGAAGAAATTATCAACAGCCTTCAGTTACAAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

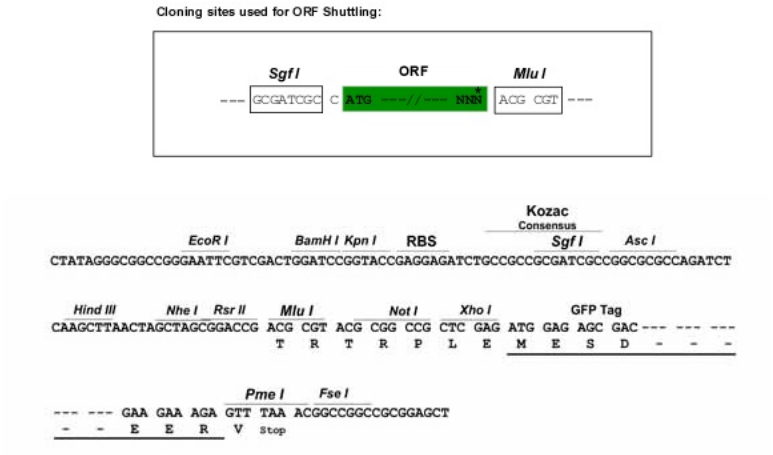
>RG221751 representing NM_001099642
Red=Cloning site Green=Tags(s)

MSKCRKTPVQQLASPASFSPDILADIFELFAKNFSYGKPLNNEWQLPDPSEIFTCDHTELNAFLDLKNSL
NEVKNLLSDKKLDEWHEHTAFTNKAGKIISHVRKSVNAELCTQAWCKFHEILCSFPLIPQEAFQNGKLNS
LHLCEAPGAFIASLNHYLKSHRFPCHWSWVANTLNPYHEANDDLMMIMDDRLIANTLHWWYFGPDNTGDI
MTLKFLTGLQNFISSMATVHLVTADGSFDCQGNPGEQEALVSSLHYCEVVTALTTLGNGGSFVLKMFTMF
EHCSINLMYLLNCCFDQVHVFKPATSKAGNSEVYVVCLHYKGREAIHPLLSKMTLNFGTEMKRKALFPHH
VIPDSFLKRHEECCVFFHKYQLETISENIRLFECMGKAEQEKLNNLRDCAIQYFMQKFQLKHLSRNNWLV
KKSSIGCSTNTKWFGQRNKYFKTYNERKMLEALSWKDKVAKGYFNSWAEEHGVYHPGQSSILEGTASNLE
CHLWHILEGKKLPKVKCSPFCNGEILKTLNEAIEKSLGGAFNLDSKFRPKQQYSCSCHVFSEELIFSELC
SLTECLQDEQVVVPSNQIKCLLVGFSTLRNIKMHIPLEVRLLESAELTTFSCSLLHDGDPTYQRLFLDCL
LHSLRELHTGDVMILPVLSCFTRFMAGLIFVLHSCFRFITFVCPTSSDPLRTCAVLLCVGYQDLPNPVFR
YLQSVNELLSTLLNSDSPQQVLQFVPMEVLLKGALLDFLWDLNAAIAKRHLHFIIQRETEEIINSLQLQN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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: 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_001099642.2

RefSeq Size: 4040 bp

RefSeq ORF: 2313 bp

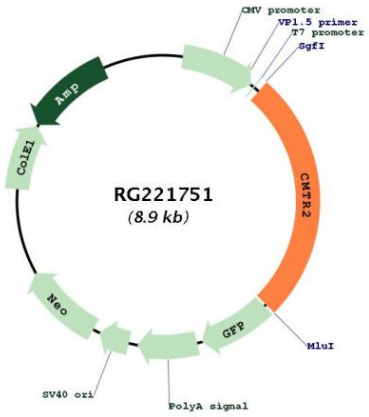
Locus ID: 55783

UniProt ID: Q8IYT2

Cytogenetics: 16q22.2

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 RG221751