

Product datasheet for **RC223922**

FTSJ2 (MRM2) (NM_013393) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	FTSJ2
Synonyms:	FJH1; FTSJ2; HEL97; MTDPS17; RRMJ2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC223922 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCGGGGTACTTGAAGCTGGTGTGTGTTTCCTTTCAGCGTCAAGGGTCCACACTGTTGGGAGTCGCT
GCAAGAATCGGACAGGCCTGAGCACCTGTGGCTGACCCGACATCTCAGGGACCCATTTGTGAAGGCTGC
GAAGGTGGAGATTACCGGTGTCGAAGCGCCTCAAGCTCCTGGAGGTGAACGAGAGGCCAGATTCTG
CGGCCAGCCTTCGGGTGTAGACTGTGGGCAGCTCCTGGGCCCTGGAGTCAGGTGGCGGTGCAGAAG
TCAACGCCGAGGCACAGATCCCAGCTCTCCTGTTGGCTTCGTGCTTGGGTAGATCTTCTTCACATATT
CCCCCTGGAAGGAGCAACTTTCTGTGCCCTGCTGACGTGACTGACCCGAGAACCTCACAGAGAATCCTC
GAGGTGCTTCTGGCAGGAGAGCAGATGTATTCTGAGCGACATGGCGCCCAATGCCACAGGGTTCGGG
ACCTGATCATGACAGGCTCATCAGCCTGTGCTGACCCTTCTCAGCGTGACCCAGACATCCTGCAACC
TGGGGGACATTCTTTGTAACCTGGGCTGGAAGTCAAAGCCGTCGGTTACAGAGGAGACTGACAGAG
GAATTCAGAAATGAAGGATCATCAAACCTGAAGCCAGCAGGAAAGAGTCATCAGAAGTGTACTTCTTGG
CCACACAGTACCAGGAAGGAAGGCACTGTGAAGCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>RC223922 protein sequence
Red=Cloning site Green=Tags(s)

MAGYLKLVCSFQRQGFHTVGSRCNKRTGAEHLWLRHLRDPFVKAAKVESYRCRSFAKLLEVNERHQIL
RPSLRVLDCGAAPGAWSQVAVQKVNAAGTDPSPPGVFLGVDLLHTFLPEGATFLCPADVDPRTSQRIL
EVLPGRRADVILSDMAPNATGFRDLHDRLISLCLTLLSVTPDILQPGGTFLLCKTWAGSQSRRLQRRLTE
EFQNVRIIKPEASRKESSEVYFLATQYHGKRGTVKO

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms:

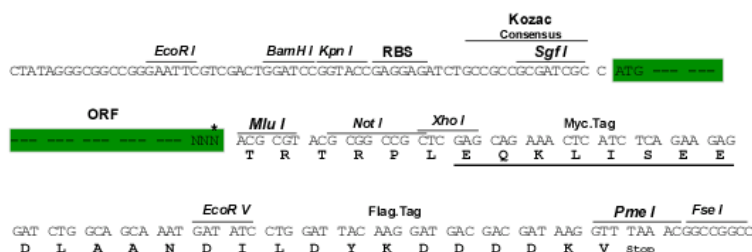
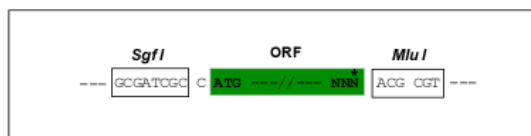
https://cdn.origene.com/chromatograms/mk6444_c09.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:

NM_013393

ORF Size:

738 bp

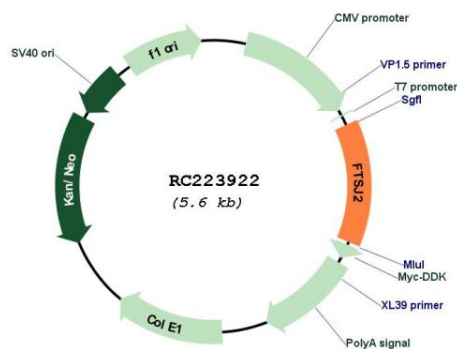
OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

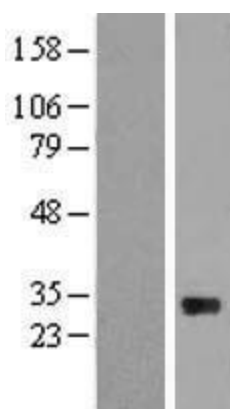
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_013393.1 , NP_037525.1
RefSeq Size:	1605 bp
RefSeq ORF:	741 bp
Locus ID:	29960
UniProt ID:	Q9UI43
Cytogenetics:	7p22.3
Domains:	FtsJ
MW:	27.5 kDa
Gene Summary:	The protein encoded by this gene is a member of the S-adenosylmethionine-binding protein family. It is a nucleolar protein and it may be involved in the processing and modification of rRNA. This gene has been suggested to be involved in cell cycle control and DNA repair. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC223922



Western blot validation of overexpression lysate (Cat# [LY415615]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223922 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).