

Product datasheet for **RC221142**

FAM98B (NM_173611) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | FAM98B (NM_173611) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | FAM98B |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RC221142 ORF sequence, **codon optimized**.
Due to the complexity of NM_173611, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGGGGGCCGAGCCTGGACCACAACCTACAATGGAAGGCGACGTGCTGGACACTCTGGAAGCGTTGG
 GTTACAAAGGCCATTGCTGGAGGAACAGGCGTTGACTAAGGCTGCCGAGGTGGACTTTCAAGTCCAGA
 ATTTAGTGAATTGTCATCTGGCTGGGCTCACAGATTAAGAGCCTGTGCAATTTGGAGGAGAGCATCACA
 TCCGCCGGCGGGATGACTTGGAAAGTTTCCAGCTCGAGATATCAGGCTTCTCAAGGAGATGGCATGTC
 CTATTACAGTGTGATTAGCGGTGACATCAAGGATCGGCTGAAAAAGAAGGAGGATTGCCTTAAGCTCCT
 CCTTTCTGTCCACCGAAGTCCAGGCATCCCAGATTCTGCAGAATAAGAAACATAAGAAGTCCCAGCTT
 GACAAGAACAGTGAGGTGTACCAGGAGGTCCAGGCCATGTTTGACTTTGGGGATTCCAAAATCCACGA
 CTAGCGATATACCACATATGCTTAATCAGGTCGAGAGTAAAGTGAAGGATATCCTGTCCAAAGTGCAGAA
 GAACACGTCCGGAAACCCCTCTGAAGATGGATCTTAATTCTGAGCAGGCTGAGCAGCTGGAGCGCATC
 AACGATGCCCTTCTGTGAATATGAATGTCCCGCGGATGCTGATGAAGCGCTGGACGTTACCGTGC
 AGAGTTTTGGCTGGTCTGACAGAGCAAAGTGAAGACTGACGACATCGCTCGAATTTACCAGCCAAAGCG
 GTACGCTCTTTCACCAAAGACCACTATTACCATGGCACACCTGCTGGCCGCCAGAGAGGACTGTCTAAG
 ATCATTCCGACCTCAAGTGGGACTAGTCGCGAGAAAACCGCTTGTGAATCAACAAGGTGCTGATGGGTA
 GGGTCCCAGACCGCGGTGGCCGACCTAACGAGATTGAACCACTCCTCCCAGAAATGCCTCCTGGCAGAA
 GCGACAAGAAGGAGGCGGAGGGAGAGGAGGCTGGGGAGGTGGTGGAGGCGGAGGAGGTAGAGGCGGTGGA
 GGTGGAGGTGGTGGACGCGGGGATGGGGTGGTGGAGGCGCGGTTGGGGTGGCGGTGGAGGAGGAGGTG
 GAGGCTGGGGAGGCGGTGGTGGGGAGGAAGGGGAGGCTTTCAGGGAAGAGGTGACTACGGAGGACGGGG
 TGGATATGGTGGACGCGGTGGATACGGGGTAGGGTTATGGAGATCCATACGGTGGAGGTGGTGGAGGT
 GGAGGAGGTGGAGGAGGTGGCGGTGGATACCGCAGATAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC221142 representing NM_173611
 Red=Cloning site Green=Tags(s)

MRGPEPGPQPTMEGDVLDLLEALGYKGPLLEEALTKAAEGGLSSPEFSELCIWLGSQIKSLCNLEESIT
 SAGRDDLESFQLEISGFLKEMACPYSVLISGDIKDRLLKKEDCLKLLFLSTELQASQILQNKHKHNSQL
 DKNSEVYQEVQAMFDLGIKSTSDIPHMLNQVESKVKDILSKVQKNHVGKPLMKMDLNSEQAQLERI
 NDALSCEYECRRRMLMKRLDVTVQSFVWSDRAKVKTDIARIYQPKRYALSPKTTITMAHLLAAREDL SK
 IIRTSSGT SREKTACAINKVLMGRVPDRGGRPNIEPPPPPEMPWPQKRQEGGGGRGWGGGGGGGGGGGG
 GGGGGRGWGG
 GGGGGGGGGYRRY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_173611

ORF Size: 1299 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_173611.2](#), [NM_173611.3](#), [NP_775882.2](#)

RefSeq Size: 4388 bp

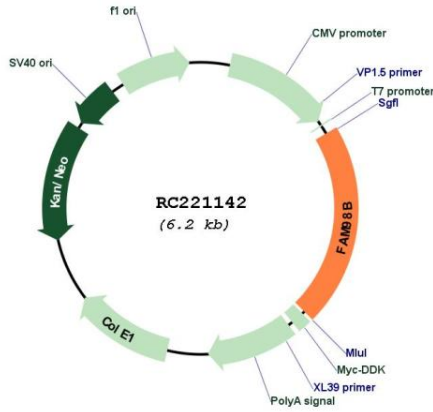
RefSeq ORF: 1302 bp

Locus ID: 283742

UniProt ID: [Q52LJ0](#)

Cytogenetics: 15q14
MW: 45.5 kDa
Gene Summary: Positively stimulates PRMT1-induced protein arginine dimethylated arginine methylation (PubMed:28040436). Promotes colorectal cancer cell malignancy (PubMed:28040436). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC221142