

Product datasheet for **RC207704**

FAM101B (RFLNB) (NM_182705) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM101B (RFLNB) (NM_182705) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FAM101B
Synonyms:	CFM1; FAM101B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207704 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGGCGCGGCTGAGCCTACAGGATGTGCCGAGCTCGTGGACGCGAAGAAGAAGGGCGACGGCGTCC
TGGACAGCCCGGACTCGGGGCTGCCCCAGCCCCAGCCCCAGCCACTGGGGGCTCGGGCGGGCGGAGG
CGGCGGAGAGCGCGGGCGGCACCGGGGACGCTGGAGCCCGACGCGGGCGGCGGACCCCCGCGGCTCCG
AGTCCAGCGTCTCTCCCCTGGCTCCCGCTGTGCGCTGAGGCTTTGTCCCTGTCTTTGGCGAAGGAG
TGGAGTTTGACCCCTTACCACCAAGGAAGTAAGGTACACCTCCTTGGTCAAGTACGACTCCGAGAGGCA
CTTCATCGACGAGCTGCAGCTGCCCTGGGCTGGCGGTGGCCTCCTGCAGCCAGACGGTACCTGTGTC
CCCAATGGCAGCTGGCGCAACTACAAGGCCGAGGTGCGCTTCGAGCCACGCCACAGGCCACCCGCTTCC
TCAGTACCACCATCGTGTACCCCAAGTACCCCAAGGCCGTCTACACCACCACCCTGGATTACAACCTGCCG
CAAGACGCTGAGGAGTTTCTGTCCAGCGTGGAGCTCGAAGCCGCGGAGCTCCCGGGCAGCGACGACCTC
TCTGATGAATGC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC207704 protein sequence
 Red=Cloning site Green=Tags(s)

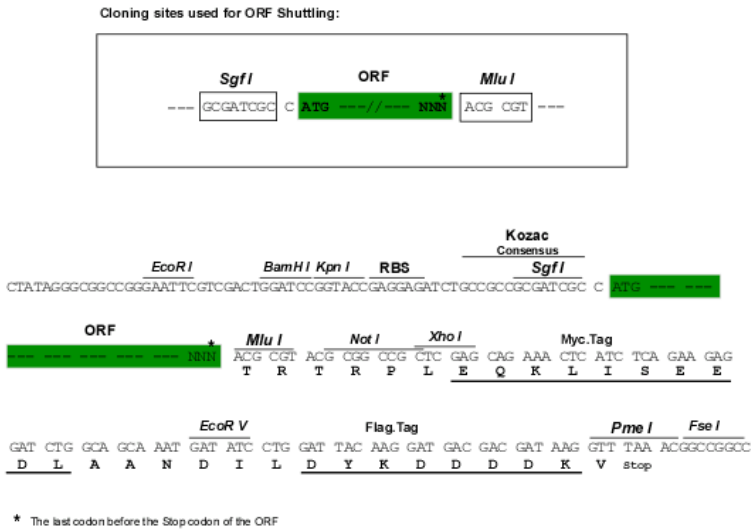
MVGRSLSLQDVPELVDAKKKGGVLDSPDSGLPPSPSPSHWGLAAGGGGGERAAAPGTLEPDAAAATPAAP
 SPASLPLAPGCALRLCPLSFGEGVEFDLPPEVRYTSLVKYDSEHFIDDVQLPLGLAVASCSQTVTVCV
 PNGTWRNYKAEVRFEPHRPTRFLSTTIVYPKYPKAVYTTLDYNCRKTLRRFLSSVELEAAELPGSDDL
 SDEC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6778_a12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_182705

ORF Size: 642 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_182705.2](#)

RefSeq Size: 3895 bp

RefSeq ORF: 645 bp

Locus ID: 359845

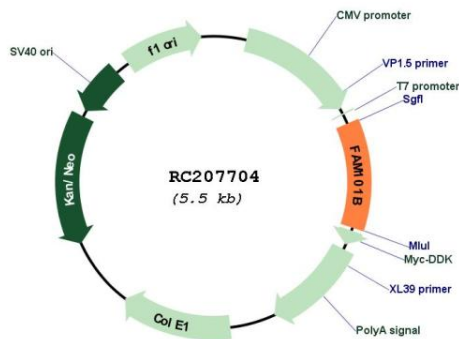
UniProt ID: [Q8N5W9](#)

Cytogenetics: 17p13.3

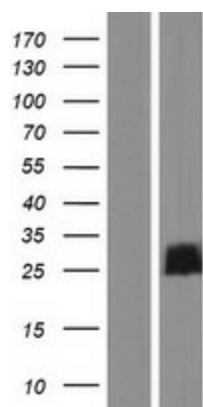
MW: 22.9 kDa

Gene Summary: Involved in the regulation of the perinuclear actin network and nuclear shape through interaction with filamins. Plays an essential role in the formation of cartilaginous skeletal elements.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC207704



Western blot validation of overexpression lysate (Cat# [LY405419]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207704 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).