

Product datasheet for RC209309

FAM3B (NM_058186) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM3B (NM_058186) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FAM3B
Synonyms:	2-21; C21orf11; C21orf76; ORF9; PANDER; PRED44
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209309 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGCCATTGGCTGGTGGCCTGCTCAAGGTGGTGTTCGTGGTCTTCGCCTCCTGTGTGCCTGGTATT
CGGGGTACCTGCTCGCAGAGCTCATTCCAGATGCACCCCTGTCCAGTGTGCCTATAGCATCCGCAGCAT
CGGGGAGAGGCCGTCTCAAAGCTCCAGTCCCCAAAAGGCAAAAATGTGACCACTGGACTCCCTGCCCA
TCTGACACCTATGCCTACAGTTACTCAGCGGAGGTGGCAGAAGCAAGTACGCCAAAATCTGCTTTGAGG
ATAACCTACTTATGGGAGAACAGCTGGGAAATGTTGCCAGAGGAATAAACATTGCCATTGTCAACTATGT
AACTGGGAATGTGACAGCAACACGATGTTTTGATATGTATGAAGGCGATAACTCTGGACCGATGACAAAG
TTTATTACAGAGTGTCTCCAAAATCCCTGCTCTTCATGGTGACCTATGACGACGGAAGCACAAGACTGA
ATAACGATGCCAAGAATGCCATAGAAGCACTTGGAAAGTAAAGAAATCAGGAACATGAAATTCAGGTCTAG
CTGGGTATTTATTGCAGCAAAAGGCTTGGAACTCCCTCCGAAATTCAGAGAGAAAAGATCAACCACTCT
GATGCTAAGAACAACAGATATTCTGGCTGGCCTGCAGAGATCCAGATAGAAGGCTGCATACCCAAAGAAC
GAAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC209309 protein sequence
 Red=Cloning site Green=Tags(s)

MRPLAGLLKVVFFVVFASLCAWYSGYLLAELIPDAPLSSAAYSIRSIGERPVLKAPVPKRQKCDHWTPCP
 SDTYAYRLLSGGGRSKYAKICFEDNLLMGEQLGNVARGINIAIVNYVTGNVTATRCDFMYEGDNSGPMTK
 FIQSAAPKSLLFMVTYDDGSTRLLNDAKNAIEALGSKEIRNMKFRSSWVFAAKGLELPSEIQREKINHS
 DAKNNRYSGWPAEQIEGCIKERS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6126_c10.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_058186

ORF Size: 705 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_058186.1](#)

RefSeq Size: 1384 bp

RefSeq ORF: 708 bp

Locus ID: 54097

UniProt ID: [P58499](#)

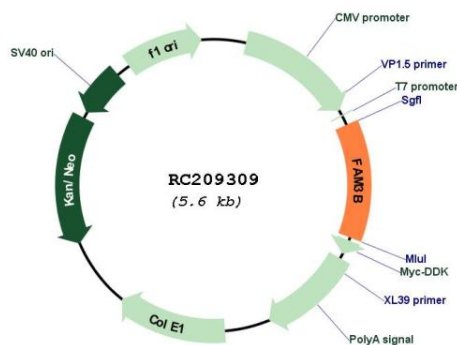
Cytogenetics: 21q22.3

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

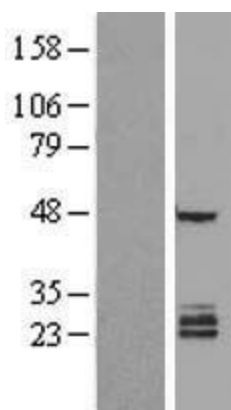
MW: 26 kDa

Gene Summary: Induces apoptosis of alpha and beta cells in a dose- and time-dependent manner. [UniProtKB/Swiss-Prot Function]

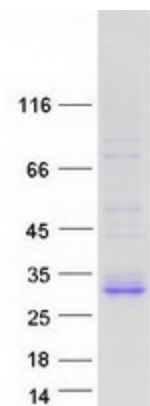
Product images:



Circular map for RC209309



Western blot validation of overexpression lysate (Cat# [LY403301]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209309 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FAM3B protein (Cat# [TP309309]). The protein was produced from HEK293T cells transfected with FAM3B cDNA clone (Cat# RC209309) using MegaTran 2.0 (Cat# [TT210002]).