

Product datasheet for MR214510

Fam83b (NM_001045518) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fam83b (NM_001045518) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Fam83b
Synonyms: C530008M07Rik; Gm516
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR214510 representing NM_001045518
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGCTTCATCAATGCTTTCACTAAATGATGAGTGCCGATCTGACAACATGTCGAGCCGCACT
 ACAAGGAGTGGTATCGCGTGGCAGTTGATACTCTAATTGAACATGGGTTAGAAGCCTACCAAGAGTTTCT
 CATCAAGGAGCGAGTTTCAGACTTTCTGGCAGAGGAAGAGATTAATTATATTTTGAAAAATGTCCAGAAG
 ATTGCACAAAATACAGAACATGGTTCTGATAGTTCCTGTGATGACGGCTCGTCTTCAGGGACTTACTGGC
 CCATGCAGTCTGATGTGGAGGCTCCAAATCTTGATCTAGGCTGGCCATACGTGATGCCCGGACTCTTAGG
 GAGTACCCACATAGACCTCCTTTTCAACCACCAAGGGCCACATCTGCTTACAATAAAGGAAACTATTCCGG
 AAGATGATCAAAGAAGCGAGAAAGGTGGTTGCTATAGTATGGATGTGTTTACTGATGTGGATATTTTCA
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 GGTTCCAGATAATCACAGGCCACCTCGTAGAGTTATTTGATGAAGAATTTGAAACTCTATGCTAGGTCC
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 CCAAATTCATAAACTAGATTCTAGTTACTTCAAAGGCAGAGGGATATATCCTCTAAATGATCAGGACAAA
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 ACTTCCAACCCAGTCACTCAATGAAAACCTGGAAGAGGCATAGCTATGCTGGGGAACAACCGGAAACAAC
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 TAACGGGACAGATAATCATATCCGCTTTATACAACAACGGATGCCAACTCTGGAGAATACCACGAAGTCT



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TTCTGCGGAGCTGGAGAATTGAATCGTACTTAAATGACAATTCAGAAGTCCCACCTGATTCAAATGGTT
 CCACCCTGGGTGACAGATTTGAAGGCTACGAAAACCTGAGGCCGTGAAAGCCAATGCACCTATACTCA
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 AATTATAAGACTGGTGTATCATTATACGCCCCCAATGAAAACAAGTCCGGGGATTTATGCAAAAGT
 TCGGAACTTCATACAAAAACAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR214510 representing NM_001045518
 Red=Cloning site Green=Tags(s)

MEASSMLSSLNDECRSDNYVEPHYKEWYRVAVDTLIEHGLEAYQEFLIKERVSDFLAEEIINYILKNVQK
 IAQNTEHGSDDSSCDDGSSSGTYWPMQSDVEAPNLDLWGPYVMPGLLGSTHIDLDFHPPRAHLLTIKETIR
 KMIKEARKVVAIVMDVFTDVIDIFKEIVEASTRGISVYILLDESNSHFLTMTEKQGCQIQLRNIRIRTV
 KGQDYLSKTGAKFHGKMEQKFLLVDCQKVMYGSYSYMWSFEKAHLSMVQIITGHLVELFDEEFRTLARS
 SVPSSFAQEEVRAKPGKALWENGIYQRSISLASVSSQRNLFGRQDQIHKLDSSYFKGRGIYPLNDQDK
 HSMRNHGYPKPHFVPNFNGPSTIRHFQPSQLNENWKRHSYAGEQPETTPYLLLRAMNRTNAPGRWRRPS
 DSLSVASSLRGGQGSQQNIPAQSFADRLAQRKTNLAERNNSVRRSFNGTDNHIRFIQORMPTLENTTKS
 FLRSWRIESYLNNDSEVPPDSNGSTLGDREFEGYENPEAVKANALYTHSRLRSSVFVKPTLPEQKEVNSCT
 TGSSNSTIIGSQSDTPNEVPDTSTNAPPLTEKPLPEPSSKLPQQEPEPKMHNLVPEKQPEALNQRNG
 RAELNNCIYTNLVYKQRENTENQNDNLLKRRSFPDFHSHKVNLEHGNSKNYVYSTLRNRIRQPEKPK
 EVVLKSSKSMHNVTHSAEEDDDEVIERDPPSASATKSISIAALLDVNKEEPNKEPNSKKEGKASPSFLKK
 GSQKLRSLLSLTPKRESLAKNKAPAFYRMCSSDTLVSEGEENQPKKSEPKVDSSPRRKRSSSSNSQG
 SIHKSIEDIAVSASPGISSQAEESSRIAPSPRPVERRLSERAGDASAPRFNTEQIQYRDSKEISSLMTPA
 RRPTPSPVLKPNELLRSHSTNQRVYSRFEPFCKIESSIQPASSVTNTHVNRPEVKSSMTGAYGRSSPML
 NYKTGAYHSYAPNENKFRGFMQKFGNFIHKNK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9046_e08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001045518

ORF Size: 3036 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_001045518.2](#)

RefSeq Size: 3136 bp

RefSeq ORF: 3039 bp

Locus ID: 208994

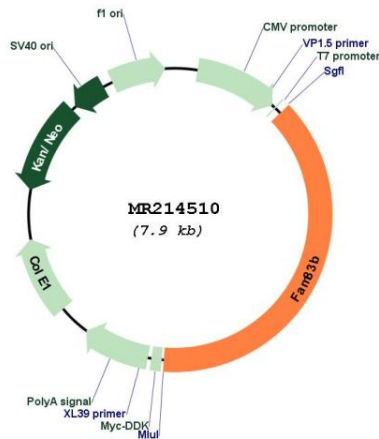
UniProt ID: [Q0VBM2](#)

Cytogenetics: 9 D

MW: 115.1 kDa

Gene Summary: Probable proto-oncogene that functions in the epidermal growth factor receptor/EGFR signaling pathway. May activate both the EGFR itself and downstream RAS/MAPK and PI3K/AKT/TOR signaling cascades.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR214510