

Product datasheet for **MR203344**

Fam83a (NM_173862) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fam83a (NM_173862) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fam83a
Synonyms:	MGC40696
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203344 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTCGGTCAAGGCATGTGGGCAAGATCCGGAAACGTCTGGAAGATGTCAAGAACCAGTGACCCGGC
CAGCCAGAGCTGACTTCAGTGATAATGAGAGCGCCCGGCTGGCCACAGATGCCCTCTGGATGGCGGTCC
AGAGGCTTACTGGCGGCCCTCAGTCAGGAAGGAGAGGTAGACTTCCTGTCTCAGCGGAGGCCAGTAC
ATCCAGGCCAGGCCAAGGAGCCCCCTGATGCCCCGATTCTGCCGAGGGGCTGAGTCAGGACCCAGAG
GACTGGACTCCTGCTCTTACAATCAGGTACCTACTTCCCTGTGGCTTCGGAAGGCAGTGAGCCAGCTCT
GCTGCACACCTGGACTTTGGCTGAGAAGCCCTACCTGAAGGAAAAGTCCAGTGCCACCATCTACTTCCAA
ATGGACAAACACAACAACATCAGAGATTTGGTCCGCCGCTGCATCTCCCGGGCCAGCCAGGTCTGGCCA
TTCTGATGGATGTGTTACGGATGTGGAGATCCTTTGTGACATTCTAGAGGCAGCCAACAAGCGCGGGGT
ATTCGTCTGTGTGCTTCTGGACCAGGCCGGGTGAAGCTTCCAGGAGATGTGTGACAAAGTCCAGATC
TCTGATATTCATCTCAAGAACATCTCCATCAGGAGTGTGGAAGGGGAGGTGATTGTGCCAAGTCAGGCA
GGAAATTTGCCGGCCAAATCCAAGAGAAGTTCATCATCTCAGACTGGAGGTTTGTCTTATCCGGATCATA
CAGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203344 protein sequence
Red=Cloning site Green=Tags(s)

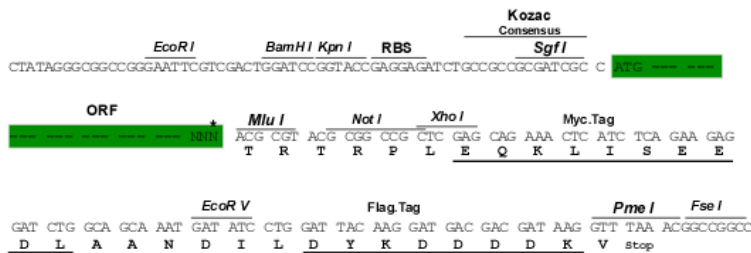
MSRSRHVGKIRKRLLEDVKNQWTRPARADFSDNESARLATDALLDGGPEAYWRALSQEGEVDFLSSAEAQY
 IQAQAKEPPDAPDSAGGAESGPRGLDSCSLQSGTYFPVASEGSEPALLHTWTLAEKPYLKEKSSATIYFQ
 MDKHNNIRDLVRRCSIRASQVLAALMDVFTDVEILCDILEAANKRGVFCVLLDQAGVKLFQEMCDKVQI
 SDIHLKNI SIRSVGEVYCAKSGRKFAGQIQEKFII SDWRFVLSGSYR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_173862

ORF Size: 777 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_173862.1](#), [NP_776287.1](#)

RefSeq Size: 2089 bp

RefSeq ORF: 1311 bp

Locus ID: 239463

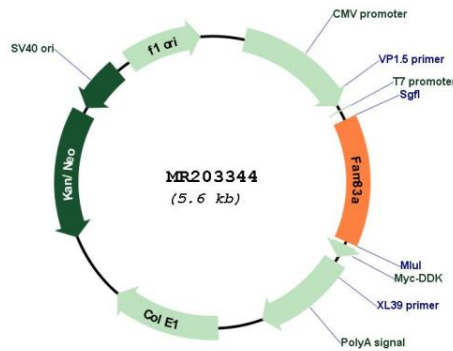
UniProt ID: [Q8K2P2](#)

Cytogenetics: 15 D1

MW: 28.8 kDa

Gene Summary: Probable proto-oncogene that functions in the epidermal growth factor receptor/EGFR signaling pathway. Activates both RAS/MAPK and PI3K/AKT/TOR signaling cascades downstream of EGFR. Required for the RAS/MAPK signaling cascade activation upon EGFR stimulation, it also activates both signaling cascades independently of EGFR activation. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203344