

Product datasheet for **RC237253**

FAM83A (NM_001288587) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FAM83A (NM_001288587) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: FAM83A
Synonyms: BJ-TSA-9
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC237253 representing NM_001288587
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCCGGTCAAGGCACCTGGGCAAAATCCGGAAGCGTCTGGAAGATGTCAAGAGCCAGTGGGTCCGGC
 CAGCCAGGGCTGACTTTAGTGACAACGAGAGTGCCCGGCTGGCCACGGACGCCCTCTGGATGGGGTTC
 TGAAGCCTACTGGCGGTGCTCAGCCAGGAAGGCGAGGTGGACTTCTTGTCTCGGTGGAGGCCAGTAC
 ATCCAGGCCAGGCCAGGAGCCCCGTGTCCCCAGACACCCTGGGAGGGCGGAAGCAGGCCCTAAGG
 GACTGGACTCCAGCTCCCTACAGTCCGGCACCTACTTCCCTGTGGCCTCAGAGGGCAGCGAGCCGGCCCT
 ACTGCACAGCTGGGCCTCAGTGAGAAGCCCTACCTGAAGGAAAAATCCAGCGCCACTGTGTACTTCCAG
 ACCGTCAAGCACAACAACATCAGAGACCTCGTCCGCCGCTGCATCACCCGGACTAGCCAGAACATTTCCA
 TCCGGAGTGTGGAAGGAGAGATACTGTGCCAAGTCAGGCAGGAAATTCGCTGGCCAAATCCGGGAGAA
 GTTCATCATCTCGGACTGGAGATTTGTCTGTCTGGATCTTACAGCTTACCTGGCTCTGCGGACACGTG
 CACCGGAACATCCTCTCAAGTTCACAGGCCAGGCGGTGGAGCTGTTTGACGAGGAGTCCGCCACCTCT
 ACGCCTCCTCAAGCCTGTGATGGGCCTGAAGTCCCCGCGGCTGGTCGCCCCCGTCCC GCCCGGAGCAGC
 CCCGGCCAATGGCCGCTTAGCAGCAGCAGTGGCTCCGCCAGTGACCCGCAGTCTCCAACCCCTTCAGC
 GGCCGCTCGGCAGGCAGCCACCCCGGTACCCGAAGTACGCGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237253 representing NM_001288587
Red=Cloning site Green=Tags(s)

MSRSRHLGKIRKRLLEDVKSQWVRPARADFSDNESARLATDALLDGGSEAYWRVLSQEGEVDFLSSVEAQY
 IQAQAREPPCPPDTLGGAEAGPKGLDSSSLQSGTYFPVASEGSEPALLHSWASAEKPYLKEKSSATVYFQ
 TVKHNNIRDLVRCITRTSQNISIRSVGEIYCAKSGRKFAGQIREKFIISDWRFLVSGSYSTWLCGHV
 HRNILSKFTGQAVELFDEEFRLHYASSKPVMLKSPRLVAPVPPGAAPANGRLSSSSGASDRTSSNPF5
 GRSAGSHPGTRTDG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

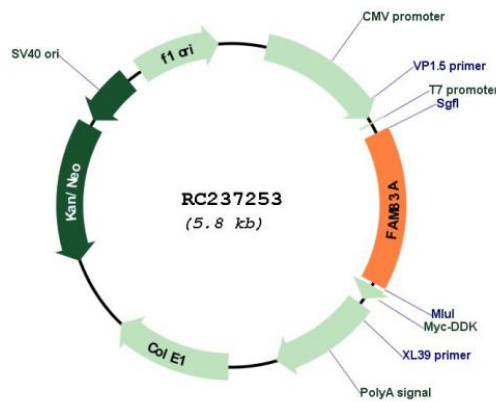
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001288587

ORF Size: 882 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:	<ol style="list-style-type: none">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_001288587.3
RefSeq Size:	2260 bp
RefSeq ORF:	885 bp
Locus ID:	84985
UniProt ID:	Q86UY5
Cytogenetics:	8q24.13
MW:	32.6 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]