

Product datasheet for **RC231363**

FAM59B (GAREM2) (NM_001191033) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM59B (GAREM2) (NM_001191033) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FAM59B
Synonyms:	FAM59B; GAREML
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC231363 representing NM_001191033
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCACAGGATGCCAGATCCAGGGAAGTTCAAGCTCCTGGAACAGGCCCGGGATGTGCGGGAGCCAGTGA
 GGTACTTCAGCAGCGTGGAGGAGGTGGCCAGTGTCTTCCCTGACCGCATCTTCGTGATGGAAGCCATCAC
 CTTTCAGCGTCAAGGTGGTGTGCGGCGAGTTTCAGCGAGGACAGCGAGGTGTACAATTCACGCTGCATGCG
 GGCGACGAGCTCACTCTTATGGGCCAGGCGGAGATCCTGTGCGCCAAGACCACCAAGGAGCGCTCGCGCT
 TCACCACCCTCCTGCGAAAGCTGGGCGGGCCGGGGCGCTGGCCGGGTGGGCGGCGGGCCAGCGAG
 CGCGGGGGCCGCGGGAGGCACTGGCGGGGGGGCCAGGCCGGTCAAAGGCAAGATGCCCTGCCTCATC
 TGCATGAACCACCGCACCAACGAAAGCTGAGCCTGCCCTTTCAGTGCCAGGGCCGCTTCAGCACTCGCA
 GCCCGCTGGAGCTGCAGATGCAAGAGGGCGAGCACACGGTGCAGCCATCATCGAGCGCGTGAAGGCTGCC
 GGTGAACGTGCTGGTGCAGCCGGCCGCGCGCAACCCCTACGACTGCACCCGGTGGCGGAGGGTTCAT
 TGCTACAAGCTGGTTAGCATCATCTCCAAGACGGTGGTGTGGGGCTGGCGCTGCCCGCGAGGGCCCGG
 CGCCGCTGCATTCCTGTGCTCACGGACACGCCGCGCTTCGCGCTGCCGAGGGCTGTGGCCGGGGA
 CCCGCGCTCGAGCGCCTGGTGCAGCACAGCGCCTCCTACTGCCGCGAGCGCTTCGACCCCGACGAGTAC
 TCCACGGCCGTGCGCGAGGCGCCAGCGGAGCTCGCCGAAGACTGCAGCCAGCCGCGCCGCGCGCCTCT
 GCCTGCCCGCGCCGCGCGCCCCGGGCTCGCCCGCCCCCGGCCGCTAGCGCCGGTCCCGCCGGCGA
 GGGCGACAGGAGTACGTGAGCCCCGACTGGGAGCCGCGCCGAGCCCGCGCCGCGCCCGCCGAGATC
 CCCTACGAGGAGTTGTGGGCGCACAGGGGCCCCGAGGGCCTCGTCCGGCCGCCCCAGGGCTCGATCTCA
 TCTCCTTCGGGGCCGCGGACCCGCGCTCGGGAGCCGGAAGCGCCGCGCTCCAGTCCCTCCAAATC
 CGAGGCGGTGAAGGAGGAGTGCCGCTGTCAATGCCCTCCAGTGCTCCCGGGGTGGCAATGGCAGC
 GGCCGGCTCTCCAGCAGCCCCCGGTTCCCCCTCGCTTCCCAAGCTGCAGCCGGTACATTCCCCAGCT
 CCAGCCTCTCCTACTACTCCTCTGGCCTCCAGGATGGGCGGGTCCCGCAGTGGCAGTGGCTCCCCATC
 GCCGGACACCTACTCCCTCTATTGCTACCCATGCACCTGGGGAGACTGCAAGGAACAGTCTGGAGCCC
 TTCGATCCCTTTGAGCTGGGGCAGGGCAGTTCTCCAGAGCCTGAGCTGCTGCGTTCTCAGGAGCCCAGAG
 CAGTGGGGACACCTGGGCTGGACCCCGCCTTTCACCACTGGCCCTCCAAGGCCTTTGAGCCTGAAGG
 TTTGGTGTGCACCAGTCCCCACCCACTGTCACCAGTGTCTGCAGGGACCCGAGGCGGGAGGAGCA
 CTTTTTCTAACCAAGGGCGCTGGAAGGGCCTCTGCCAGTCCCGGGATGGAGCCACAGGCTTTGGAG
 TCCGAGATGCCTCCTCTGGCAGCCCCCTGCTGACCTGTCTGCACTCTCCCTGGAGGAGTCTCTCGCAG
 TCTGCGTTTCATCGGGCTCTCAGAGGATGTGGTGAAGTCTTTGCCCGAGAACGCATCGATGGTAGCATC
 TTTGTGACGCTCAGTGAAGACATCTGGCAGATGACTTCCACCTACCAAGCTGCAGGTCAAAGAATCA
 TGCAGTTCATCAAAGGCTGGAGGCCAAGATC

ACGGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231363 representing NM_001191033
Red=Cloning site Green=Tags(s)

MHRMPDPGKFKLLEQARDVREPVRVYFSSVEEVASVFPDRIFVMEAITFSVKVVSGEFSEDSEVYNFTLHA
 GDELTLMGQAEILCAKTKERSRFTLLRKLGRAGALAGVGGGPASAGAAGGTGGGARPVKGMPCLI
 CMNHRTNESLSLFFQCQGRFSTRSPLELQMGEHTVRAIIERVRLPVNVLVPSRPPRNPYDLHPVREGH
 CYKLVSIISKTVVLGLALRREGPAPLHFLLLTDTPRFALPQGLLAGDPRVERLVRDSASYCRERFDPDEY
 STAVREAPAEIAEDCASPRRRLCLPAPRAPGLARAPGPLAPAPAGEGDQEYVSPDWAAPAEPAAPPAEI
 PYEELWAHQGPEGLVRPPPGLDLISFGAAGPPRREPEAPPPVPPKSEAVKEECLLNAPPVPPRGNGS
 GRLSSPPVPPRFKLPVHSPSSLSYSSGLQDGAGSRSGSGSPDYSLYCYPCTWGDCKEVPLEP
 FDPFELGQSSPEPELLRSQEPRAVGTGPGPRLSPLGPSKAFEPEGLVLHQVPTPLSPAALQGPEAGGA
 LFLTQGRLEGPPASPRDGTGFGVRDASSWQPPADLSALSLEEVSRSLRFI GLSEDVVSFFARERIDGSI
 FVQLSEDILADDFHLTKLQVKKIMQFIKGWRPKI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001191033

ORF Size: 1992 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_001191033.1](#), [NP_001177962.1](#)

RefSeq ORF: 1995 bp

Locus ID: 150946

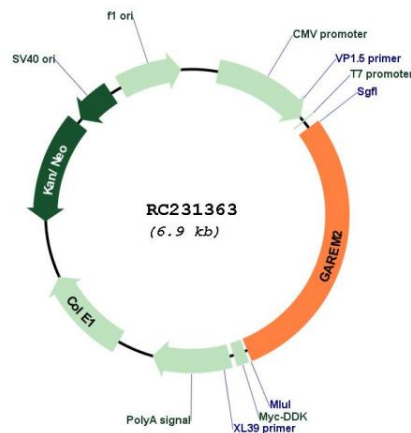
UniProt ID: [Q75VX8](#)

Cytogenetics: 2p23.3

MW: 71.8 kDa

Gene Summary: Probable adapter protein that may provide a link between cell surface epidermal growth factor receptor and the MAPK/ERK signaling pathway.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC231363