

Product datasheet for **MC201015**

Fam49b (NM_144846) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fam49b (NM_144846) Mouse Untagged Clone
Tag: Tag Free
Symbol: Fam49b
Synonyms: 0910001A06Rik; AW122079
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC011343 sequence for NM_144846
GGCTCCCCCTAGCGCCGTGACGAGCCGCGCGCCGAGAGAAGCGCGCCGAGTGCCCCGAGCTCGCGGC
GGATAGAAGGACAAGGACAGAATCACCAGCACTGGCTGAAGGTACCTAACATGGGGAATCTTCTTAAAG
TTTTGACATGCACAGACCTTGAGCAGGGGCCAAAATTTTTCTTGATTTTGAAAATGCCAGCCTACAGA
GTCTGAGAAGGAAATATATAATCAGGTGAATGTAGTGTTAAAAGATGCAGAAGGCATCTTGAGGATTTG
CAGTCATACAGAGGAGCTGGCCACGAAATACGAGAGGCAATCCAGCATCCAGCCGATGAGAAGTTGCAAG
AGAAGGCGTGGGGTGCAGTCTGCCACTAGTAGGCAAATTAAGAAGTTTTACGAATTTTCTCAGAGACT
AGAAGCAGCACTAAGAGGCCTTCTGGGAGCCTTGACTAGTACGCCATACTGCCACCCAACATCTAGAG
CGAGAGCAGGCTCTCGCTAAACAGTTTGCAGAGATTCTTCACTTCACACTCCGGTTTGATGAGCTCAAGA
TGACAAAATCCTGCCATACAAAATGACTTCACTACTACAGAAGAACATTGAGTCGTATGAGAATTAATA
TGTCCCGCAGAAGGAGAAAATGAAGTAATAATGAATTGGCAAATCGAATGTCATTGTTTTACGCTGAG
GCCACCCAATGCTGAAAACCTTAAGTGATGCAACAACAAAATTTGTATCGGAGAATAAAAATTTGCCAA
TAGAAAATACCACAGATTGTTTAAAGCCATGGCAAGTGTATGCAGAGTCATGCTGGAGACCCGGAATA
CAGAAGCAGATTTACCAATGAAGAGACAGTATCATTCTGCTTGAGGGTAATGGTGGGTGCATAATACTC
TATGACCACGTCATCCAGTGGGAGCATTTGCCAAAACCTTCTAAGATTGATATGAAAGGTTGATCAAAG
TTCTTAAGGACCAACCTCCTAATAGTGTAGAAGTCTTCTCAATGCTCTCAGGTACACAACAAAACATTT
GAATGATGAGACTACCTCCAAGCAAATTAGGTCCATGCTGCAGTAAGAGCTGTGGAGCAAGCCCCTACTG
CAGATGGAGCACACAGTGTCTTCACTGACCGAGAATGCACAGTCTTAGTGAATGCCATCAAAATCCTCT
ATTCTTGCTTTGGTTTCTTCTCTGCTCTTCCCACTTTTTAAATCATGTTCTTGTCTTAAAGACTT
CTTTTCTGTGCCAAAATCAGTAAAGTTATACTTTGAAAGGGATTTTGCTCTTCAAACAGGCCATCTAA
GGCAGCTAATTACGCATTGCATTGAGGTCTCTACTGAGAAAAGTTCTGTGACTTGAACATAATTTTTTA
AATGTGGATTTTTTTGAAAACATAATTTAATATTGCTTCTCCTGCATGGCGAACTGCCTATTCTGCT
ATTTAAAACCTCATAAATTTATTTTCTACTGCCGCTTTTTCATGTGCAGCCAAAATGGAATGTTTAA
TTAACTGTGTTGTACAAATGGTACCCAACAAAAACCTTTTTTAAATTAGTAAGACTTTGTTTAAAGTTT
TAAGTTTGCAGTTGACTTTTTTTAAGGTTGTATGTTGTGTGTTAACATTTATTAACAACTGTTAAAA
ACTGTGATGTGTGCGTAGAATATTACGTATGCATGTTTCATGTTTAAAGATGGCTGTTGATAAAAATAAAA
TCAGCTTCTTTTTCTAAAAA



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Restriction Sites:	RsrII-NotI
ACCN:	NM_144846
Insert Size:	975 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	BC011343 , AAH11343
RefSeq Size:	1786 bp
RefSeq ORF:	975 bp
Locus ID:	223601
UniProt ID:	Q921M7
Cytogenetics:	15 D1
Gene Summary:	<p>Negatively regulates RAC1 signaling and RAC1-driven cytoskeletal remodeling (PubMed:31285585). Regulates chemotaxis, cell migration and epithelial polarization by controlling the polarity, plasticity, duration and extent of protrusions. Limits Rac1 mediated activation of the Scar/WAVE complex, focuses protrusion signals and regulates pseudopod complexity by inhibiting Scar/WAVE-induced actin polymerization (By similarity). Protects against Salmonella bacterial infection. Attenuates processes such as macropinocytosis, phagocytosis and cell migration and restrict sopE-mediated bacterial entry (PubMed:31285585). Restricts also infection mediated by Mycobacterium tuberculosis and Listeria monocytogenes (PubMed:31285585). Involved in the regulation of mitochondrial dynamics and oxidative stress (PubMed:29059164).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2, 3, and 4 encode the same protein.</p>