

Product datasheet for **MR204696**

Fam49a (NM_029758) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fam49a (NM_029758) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fam49a
Synonyms:	2410157M17Rik; 9630047E15; D12Ert553e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204696 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGGAACTTGCTCAAAGTCTGACCCGGGAAATTGAGAATTATCCACACTTCTTCTGGATTTTGAAA
ATGCACAGCCTACAGAAGGAGAGCGAGAGATATGGAACCAGATCAGTGTCTCTCCAGGATTCTGAGAG
CATCTCACAGACTTACAGGCTTACAAAGGGGAGGACCAGAGATCCGAGATGCAATTCAAATCCCAAT
GACATTCACTTCAGGAGAAGGCTTGAATGCAGTGTCTCTGGTGGTGAAGGCTGAAGAGGTTTTACG
AATTCTCCATCCGTCTTAAAAAGCACTTCAGAGTTTATTGGAATCTCTGACGTGTCCACCCTATACACC
AAGCCAGCACCTGGAACGGGAGCAAGCCCTCGCAAAGGAATTTGCAGAAATCTTACATTTTACCCTTCGA
TTTCGATGAGCTGAAGATGAGGAACCCGCTATTGAGAATGACTTCAGTTACTATCGAAGAACAATAAGTC
GTAACCGTATCAACAACATGCATCTAGACATTGAGAATGAAGTTAATAATGAGATGGCCAATCGAATGTC
CCTCTTCTATGCAGAAGCCACACCGATGTTGAAGACTCTTAGCAATGCCAATGCACATTGTCTCCGAA
AATAAACCCCTGCCAATAGAGAAATACCACGACTGCCTCAGTACGATGACAAGCGTCTGTAAAGTCATGC
TGGAGACACCGGAGTACAGGAGCAGGTTTACAAGCGAGGAGACTGATGTTTTGCATGAGGGTGATGGT
GGGCGTCATCATCCTCTATGACCACGTGCACCCGTTGGGAGCTTCTGCAAAACATCCAAGATTGATATG
AAAGGCTGCATAAAGGTGTTGAAGGAACAGGCCCCAGACAGTGTGGAAGGGCTCCTGAATGCTCTCAGGT
TCACCAAAAGCACTTGAATGATGAATCGACTTCCAACAGATTTCGAGCGATGCTTCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204696 protein sequence
 Red=Cloning site Green=Tags(s)

MGNLLKVLTREIENYPHFFLDFENAQPTEGEREIWNQISAVLQDSESILTDLQAYKGAGPEIRDAIQNPNDIQLQEKAWNAVCPLVVRLKRFYEFSSIRLEKALQSLLESLTCPPTYPTQHLEREQALAKEFAEILHFTLRFDELKMRNPAIQNDFSYRRTISRNRINNMHLDIENEVNNEMANRMSLFYAEATPMLKTLNATMHFVSEKNTLPIENTTDCSLTMTSVCKVMLETPEYRSRFTSEETLMFCMRVMVGVIILYDHVHPVGAFCKTSKIDMKGCIKVLKEQAPDSVEGLLNALRFTTKHLNDESTSKQIRAMLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_029758

ORF Size: 969 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_029758.5](#)

RefSeq Size: 4872 bp

RefSeq ORF: 972 bp

Locus ID: 76820

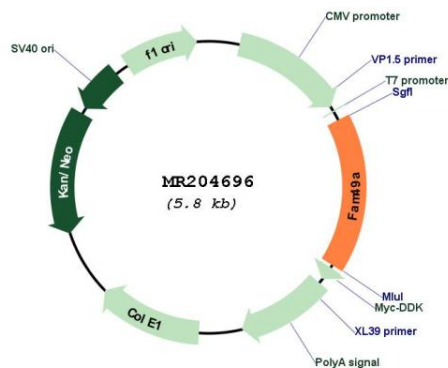
UniProt ID: [Q8BHZ0](#)

Cytogenetics: 12 5.63 cM

MW: 37.3 kDa

Gene Summary: May negatively regulate RAC1 signaling and RAC1-driven cytoskeletal remodeling. May regulate chemotaxis, cell migration and epithelial polarization by controlling the polarity, plasticity, duration and extent of protrusions.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204696