

Product datasheet for **MR209062**

Fam149b (NM_001024512) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Fam149b
Synonyms:	AA536717; AI428773; Fam149b1; mKIAA0974
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >MR209062 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGATCTCCAGATACACTCGGAAGGCCGTGCCGAGAGCGTGGAGCTGAAAGGACTAACAAAGCAGCTC
 TTAACCAACCCCTTCCAGAGCGACTGGATGACATTTCTCTACCAACAACAGCCATGGAAAAGATAC
 AAGTTCTCAGAGTGAATCTGACATACCCAGAATCACCCATTACATCAACTGACACTGGGAATTCGAAT
 TCGCGTTTCTGCTTTTCAAGCTACGCAGGCACAGGGGTCTCAACAGAAGGCAGCTCCGACTTCTCTTGGG
 GATATGGTGAATTGACCAGAATGCCACTGAGAAAGTGCAGGCCATGTTTACAGCCATCGACGAGCTCCT
 GTATGAGCAGCAGCTGAGCGCACACACAGGGCTGCAGAAAGAGTGCCAGCAGTGGGCGGCCAGCTTC
 CCTCACCTCAGGATTCTGGGTAGGCAGATAATTACTCCGAGTGAAGGCTATGGATTGTACCTTCGATCCC
 CTTCTGCTGTGCAGTTCACATGAAGCAACCTTGTCTCAAGAAAGAGAGTCTACCATATTTGGTATAAG
 GGGAAAGAAGTTACATTTTTCATCTTCTTATAAACCATCCCCACCATCAAAGCCTCCGGCTTGTGTGCA
 GTTGGAGGAGAGGAGGCAGACTGTATAATCTTTCTGAAGGGTAATCGAGGAGTACCTAGCTTTTGACC
 ACACGGATATGGAAGAGGGATTTTCATGAAACAAATCAGAAGCAGCTACAGAGAAACAGAAGTTAGGGTA
 CCCTCCCATTCGCGCATTTCACTGCATGAAAGAGGATGTTCTTGCTCATGTGTTGACAACGTGTGGAGC
 AAGGCTGTGGGCTGTATGGAGCAGTTGACGCGTAGTCACTGGGAGGGATGTGCTTCTGATGATGAGAGTA
 ACGTTGAAATTACCAGACTGGATTACGGAAGTCCCTATGTGCTGAACGAACAGCATCTTTGGTCTTACC
 TCGAGTGCCGAGTCTAAAGTGCCGTCTATCACCTCAAGTCCGATGAGTTTCTGTCAAGCAAGCGGTCTAT
 CAGCCAAACGTGAGTGGCTCTTGATTATGGGATGCCTCTACAGCCAAGGAATCTCTCCCTGATGGACA
 AGCTCTAGATCTTGATGACAAGCTACTTACGAGGCTGGGTCCAGTTCCTCTTTCAAACCGAAATTG
 GCCAAACCGTGCCATGGAGCTTAGTACATCATCTTTGTCATATACAACGAGTCTGCCAGGAGGCCAAT
 CCCCCACCGTACCTTCATCCGATCAGCACAAAGCCACTCACGCGCTGGAACACCATGGCCTGTAGAAG
 AAATCCTCAGAGGACCCCGGTTCCAGTGACAGCAGACACTGTCTTCTCCCTCTCCAATGACCTTGGG
 TCGGAACAATCTGCTGCCACCTATTGGAACAGTTGAAGTAGAACCTGAGCGCCATGGGGCCACAGCGG
 CCAACAAAAATCCCATGGTGACTCCAGCCGAGCCGAAAGTGCAAGTGGTAGACGAGCCTAACAGCAGCCCC
 AAGAGAGGCTCCTTTTGCTGTCTTCTAGACCAACACAACCTCAGTCGTTTCTGCCAGACACAGTA
 CCGAAGTTCATGTGCATCTGAGTATCTCATCAGGCCGACCTGGCAGGGGCTCTGCAGGTCTCAGTCA
 CATGGTCTACAAACCTCAGAGCAGAGGTGGACCATCTCTAGAACCAGGCAA

AGCGGACCGACGCGTACGCGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTAA

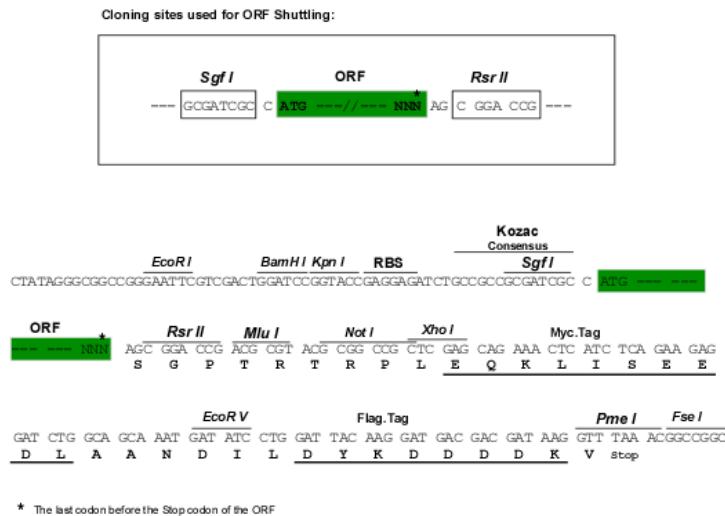
Protein Sequence: >MR209062 protein sequence
 Red=Cloning site Green=Tags(s)

MISRYTRKAVPQSVELKGLTKHALNHPLPERLDDISSTNNSHGKDTSSHSESDITQESPITSTDTGNSN
 SRSAFPSYAGTGVSTEGSSDFSWGYGELDQNAATEKVQAMFTAIDELLYEQQLSAHTQGLQKECQQAASF
 PHLRLILGRQIITPSEGYGLYPRSPSAVSASHEATLSQERESTIFGIRGKKLHFSSSYKPSPTIKASGLCA
 VGGEEADCIIFSEGVIEEYLAFDHTDMEEGFHGNKSEAATEKQKLGYPPPIAPFHCMKEDVLAHVFDNVWS
 KAVGCMEQLTRSHWEGCASDDSNVEITRLDSGSPYVLNEQHPLVLPVPQSKVPSITSSPMSFCQASGH
 QPNVSGLLIHGMPLQPRNLSLMDKLLDLDDKLLTRPGSSSVLSNRNWPNRAMELSTSSLSYTTQSARRRN
 PPPRTLHPISTSHSRAGTPWPVEEILRGPRVPVTADTLSSPSPMTLGRNNLLPPIGTVEVEHL SAMGPQR
 PTKSHGDSSRARS AVVDEPNQQPQERLLLPVFSRPNTTQSFLPDTQYRSSCASEYPHQARPGRSAGPQS
 HGSTKPQSRGGPISRTRQ

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_001024512

ORF Size: 1734 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.

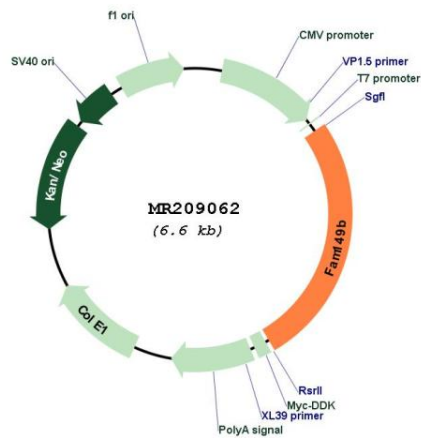
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001024512.2](#)

RefSeq Size: 2451 bp
 RefSeq ORF: 1737 bp
 Locus ID: 105428
 UniProt ID: [Q6NSV7](#)
 Cytogenetics: 14 A3
 MW: 63.2 kDa

Gene Summary: Involved in the localization of proteins to the cilium and cilium assembly. Indirectly regulates the signaling functions of the cilium, being required for normal SHH/smoothed signaling and proper development.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209062