

## Product datasheet for **MR221504**

### Fam109a (NM\_175474) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fam109a (NM_175474) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fam109a
Synonyms:	A230106M15Rik; AU017694; IPIP27A; Ses1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR221504 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGCTCAACGAGCGCAGCTTGGCCTTCTACGCAACCTGCGATGCCCGGTGGACAACGCCGGCTTCC  
TGTACAAGCGTGGTGGCCGTGGGACCGGCTCGACCGGCGCTGGTTCGTGCTCCGGGCAATATCCTCTT  
TACTTCGAGGCAGAAGGCAGCCGCGAGCCGCTGGGCGTCATCCTGCTGGAGGGCTGCACGGTGGAGCTG  
GTGGATGCCGGGAGGAGTTCGCCTTCGCAGTGCCTTTGCCGGGGCCGATCCCGGCCGTACGTGCTGG  
CCGCTGACAGCCAGGCAGCCCTGGAGGGCTGGGTGAAGGCACTGTCCCGGCCAGCTTCCACTATCTGCG  
CTTGGTGGTGCGGGAGCTGGAACAGCAACTGGCTGCCATGCGCGAGGGAAGCCCCGCAACGCCTTACCC  
GCCAACCCGAGCCCGTTTTGACCCAGAGACCCAAGGAGAACGGCTGGGTAGTGTGGAGCAGCTGCCCG  
AGCAGCCCTCGGTAGCCCTCAGCGGCCCGCCACTGCCACCCCGCCGAGGGCCTCAGCGGCCAACGG  
GCCCTTGGCATCCTTCGCCAGCTGCATGCGCGATATGGACTAGAGGTGCAGGCCCTTAGGGACCAAGTGG  
CGCGGAGGCCAGGCTGGCTAGCCAGCTTAGAGGTCCCTGGCATCCTGGTTCGCTGAGACTCAGACCC  
AGGACCAGCCAGCCCTAAGGGGACATAGTGGGTGAAGGTATTACATGTATTCCGTTCCGTAGAATGGCC  
TGTTTGAATCCAGGCTCCAGGGGACA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR221504 protein sequence  
Red=Cloning site Green=Tags(s)

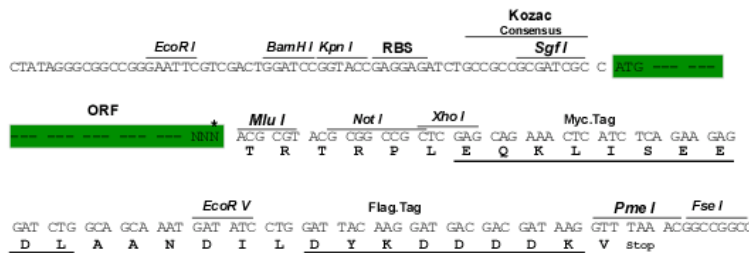
MKLNERSLAFYATCDAPVDNAGFLYKRGGRTGSHRRWFVLRGNILFYFEAEGSREPLGVILLEGCTVEL  
 VDAREEFAFVRFAGGRSRPYVLAADSQAALLEGWVKALSRASFHYLRLLVRELEQQLAAMREGSPANALP  
 ANPSPVLTRPKENGWVWSTLPEQPSVAPQRPPPLPPRRRASAANGPLASFAQLHARYGLEVQALRDQW  
 RGGQAGLASLEVPWHPGSAETQTQDQPALRGHSGCKVLHVFRSVEWPVCNPGSQGT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_175474

**ORF Size:** 801 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\\_175474.4](#)

**RefSeq Size:** 2335 bp

**RefSeq ORF:** 801 bp

**Locus ID:** 231717

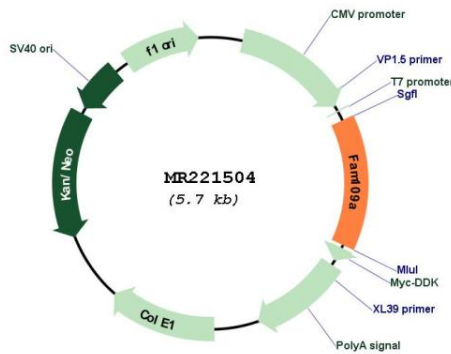
**UniProt ID:** [Q8BH49](#)

**Cytogenetics:** 5 F

**MW:** 29.2 kDa

**Gene Summary:** Plays a role in endocytic trafficking. Required for receptor recycling from endosomes, both to the trans-Golgi network and the plasma membrane.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR221504