

Product datasheet for **MG221504**

Fam109a (NM_175474) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fam109a (NM_175474) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fam109a
Synonyms:	A230106M15Rik; AU017694; IPIP27A; Ses1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG221504 representing NM_175474 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGAAGCTCAACGAGCGCAGCTTGGCCTTCTACGCAACCTGCGATGCCCCGGTGGACAACGCCGGCTTCC
TGTACAAGCGTGGTGGCCGTGGGACCGGCTCGACCGGCGCTGGTTCGTGCTCCGGGGCAATATCCTCTT
TTACTTCGAGGCAGAAGGCAGCCGCGAGCCGCTGGGCGTCATCCTGCTGGAGGGCTGCACGGTGGAGCTG
GTGGATGCCCGGGAGGAGTTCGCCTTCGAGTGCCTTTGCCGGGGCCGATCCCGGCCGTACGTGCTGG
CCGCTGACAGCCAGGCAGCCCTGGAGGGCTGGGTGAAGGCACTGTCCCGGCCAGCTTCCACTATCTGCG
CTTGGTGGTGCAGGAGCTGGAACAGCAACTGGCTGCCATGCGCGAGGGAAGCCCCGCCAAGCCTTACCC
GCCAACCAGAGCCCGGTTTTGACCCAGAGACCCAAGGAGAACGGCTGGGTAGTGTGGAGCACGCTGCCCG
AGCAGCCCTCGGTAGCCCTCAGCGGCCGCCCACTGCCACCCCGCGCAGGGCCTCAGCGGCCAACGG
GCCCTTGGCATCCTTCGCCCAGCTGCATGCGGATATGGACTAGAGGTGCAGGCCCTTAGGGACCACTGG
CGCGGAGGCCAGGCTGGCTAGCCAGCTTAGAGGTCCCTGGCATCCTGGTTCGCTGAGACTCAGACCC
AGGACCAGCCAGCCCTAAGGGGACATAGTGGGTGAAGGTATTACATGTATCCGTTCCGTAGAATGGCC
TGTTTGAATCCAGGCTCCAGGGGACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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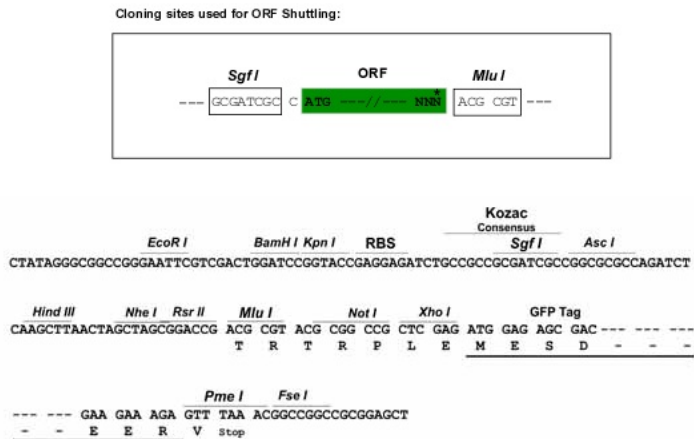
Protein Sequence: >MG221504 representing NM_175474
 Red=Cloning site Green=Tags(s)

MKLNERSLAFYATCDAPVDNAGFLYKRGGRGTGSHRRWFVLRGNILFYFEAEGSREPLGVILLEGCTVEL
 VDAREEFADFVRFAGGRSRPYVLAADSQAALGWVKALSRASFHYLRLLVRELEQQLAAMREGSPANALP
 ANPSPVLTQRPKENGWVWSTLPEQPSVAPQRPPLPPRRRASAANGPLASFAQLHARYGLEVQALRDQW
 RGGQAGLASLEVPWHPGSAETQTQDQPALRGHSGCKVLHVFRSVEWPVCNPGSQGT

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_175474

ORF Size: 798 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_175474.4](#)

RefSeq Size: 2335 bp

RefSeq ORF: 801 bp

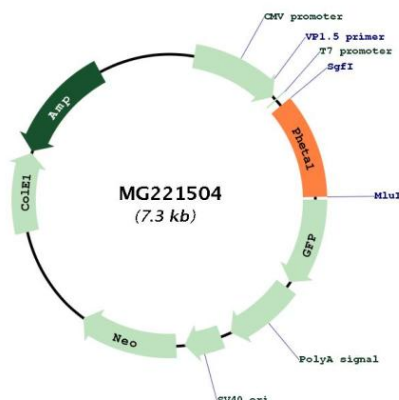
Locus ID: 231717

UniProt ID: [Q8BH49](#)

Cytogenetics: 5 F

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 MG221504