

Product datasheet for **MG201546**

Fam89b (NM_023166) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fam89b (NM_023166) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Fam89b
Synonyms: 1110021A21Rik; MMTV; Mtvr2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201546 representing NM_023166
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAACGGGCTGCCCGCGACTGAGGCGCCGGCGCGGGCTGCGCTCTGGCCGGGCTCCCGCGCTAC
 CGCGCGGCCTCAGCGCCTTCTTAACGCTAGTGGGGCTCGTGGAGGGAGCTGGAGCGTGTCTACAGCCA
 ACGGAGCCGCATCCACGACGAAGTGTGTCGCCCGCCCGCCCGGATGGTCTCGCCATGCCGCTGGA
 TCTGCTAACTCAGTTCTGCAGCGGGCCCGCCCGCCCGGTTAACCTCGACTCTGCACTAGCCGCGCTGC
 GCAAGGAGATGCTGTGGGCCTGTACGAGTCGATCCAGGACTACAAGCATCTGTGCCAAGACCTGAGCTT
 GTGCCAGGACCTGTCATCTCTGCACTCGGACAGCTCCTACCCACCTGATGCCGGCCTGTCTGATGAC
 GAGGAGCCTCCTGATGCCAGCCTGCCCCAGACCTCCACCCCTCACCGTACCCAGACTACAATGCC
 GTGACCAAGTGGTGCAGGATGCTTTCAAATCAGCCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201546 representing NM_023166
 Red=Cloning site Green=Tags(s)

MNGLPATEAPGGAGCALAGLPPLPRGLSGLLNASGGSWRELERYVYSQRSRIHDELSRAARAPDGPRHAAG
 SANSLSAAGPRRPVNLDSALAALRKEMLWGLYESIQDYKHLQCQLSLCQDLSSSLHSDSSYPDAGLSDD
 EEPDASLPPDPPLTVPQTHNARDQWLQDAFQISL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

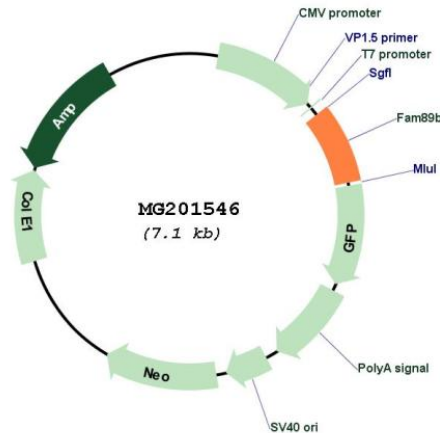


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Cloning Scheme:



Plasmid Map:



ACCN: NM_023166

ORF Size: 528 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:	<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:	<u>NM_023166.2</u>
RefSeq Size:	1142 bp
RefSeq ORF:	531 bp
Locus ID:	17826
Cytogenetics:	19 4.34 cM
Gene Summary:	Negatively regulates TGF-beta-induced signaling; in cooperation with SKI prevents the translocation of SMAD2 from the nucleus to the cytoplasm in response to TGF-beta (PubMed:12646588). Acts as an adapter that mediates the specific recognition of LIMK1 by CDC42BPA and CDC42BPB in the lamellipodia. LRAP25-mediated CDC42BPA/CDC42BPB targeting to LIMK1 and the lamellipodium results in LIMK1 activation and the subsequent phosphorylation of CFL1 which is important for lamellipodial F-actin regulation (PubMed:25107909).[UniProtKB/Swiss-Prot Function]