

## Product datasheet for MR201546

### Fam89b (NM\_023166) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Fam89b (NM\_023166) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Fam89b  
**Synonyms:** 1110021A21Rik; MMTV; Mtvr2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201546 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAACGGGCTGCCCGGACTGAGGCGCCGGGCGCGGGCTGCGCTCTGGCCGGGCTCCCGCGCTAC  
 CGCGCGGCTCAGCGCCTTCTTAACGCTAGTGGGGCTCGTGGAGGGAGCTGGAGCGTGTCTACAGCCA  
 ACGGAGCCGCATCCACGACGAAGTGTGCGCCCGCCCGCCCGGATGGTCTCGCCATGCCGCTGGA  
 TCTGCTAACTCAGTTCTGCAGCGGGCCCGCGCCCGCCGTTAACCTCGACTCTGCACTAGCCGCGCTGC  
 GCAAGGAGATGCTGTGGGCCTGTACGAGTCGATCCAGGACTACAAGCATCTGTGCCAAGACCTGAGCTT  
 GTGCCAGGACCTGCATCCTCTCTGCACTCGGACAGCTCCTACCCACCTGATGCCGGCCTGTCTGATGAC  
 GAGGAGCCTCCTGATGCCAGCCTGCCCCAGACCTCCACCCCTCACCGTACCCAGACTACAATGCC  
 GTGACCAAGTGGTGCAGGATGCTTTCCAATCAGCCTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201546 protein sequence  
 Red=Cloning site Green=Tags(s)

MNGLPATEAPGGAGCALAGLPPLPRGLSGLLNASGGSWRELERVYSQRSRIHDEL SRAARAPDGRPHAAG  
 SANSGSAAGPRRPVNLDSALAALRKEMLWGLYESIQDYKHL CQDLSL CQDLSSSLHSDSSYPDAGLSDD  
 EPPDASLPPDPPLTVPQTHNARDQWLQDAFQISL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

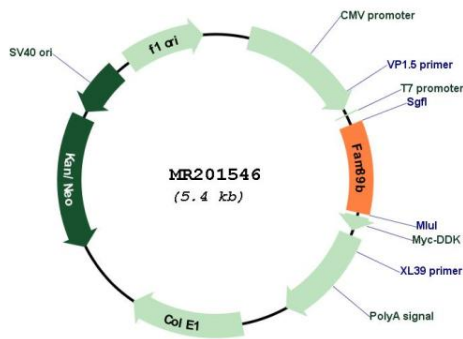




**Gene Summary:**

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]

**Product images:**



Circular map for MR201546