

## Product datasheet for **MG200807**

### Fam19a4 (NM\_177233) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Fam19a4 (NM\_177233) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Fam19a4  
**Synonyms:** C130034I18Rik; Fam19a4 Tafa-4; Tafa-4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG200807 representing NM\_177233  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGAGCCTGTGCTAAGTGGGTGCTGCTCACGCTGGCTGGTTCTGACCTATGTGTTAATGGTCTGCT  
GTAAGCTGATGTCCGCTCGAGCCAGCACCTCCGGGACATGCAGGTACCACCTGATCAAGCCAGGTAC  
CTGCGAGGTGGTCCCGTGCACCGCTGCTGCAATAAGAACCGCATAGAGGAGCGCTCTCAGACGGTCAA  
TGTTCTGCTTCCAGGCCAGGTGGCTGGCACAACCTCGGGCACAGCCTTCTGTGTTGAAGCTGCCATTG  
TGATTGAGAAGTGGTGGTCCACATGAATCCTTGCTTGAAGGAGAGGACTGTAAAGTCTCCAGACTC  
TTCGGGTTGGTCTGTAGCAGTGCAATAAAGTCAAACCACCAAGGTGACCCGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG200807 representing NM\_177233  
Red=Cloning site Green=Tags(s)  
MRACAKWLLSRWLVLTYVLMVCKLMSASSQHLRGHAGHHLIKPGTCEVVAVHRCCNKNRIEERSQTVK  
CSCFPQVAGTTRAQPSVEAAIVIEKWWCHMNPCLEGEDCKVLPDSSGWSCSSGNKVTKTKVTR

**TRTRPLE** - GFP Tag - V

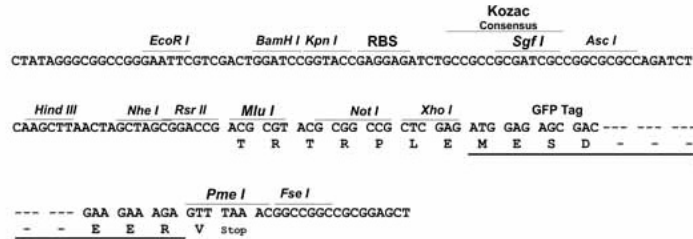
**Restriction Sites:** Sgfl-MluI



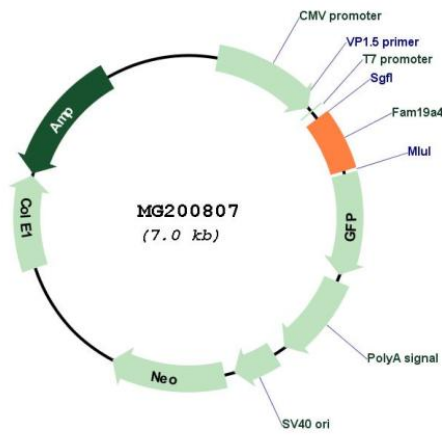
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Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_177233  
 ORF Size: 405 bp

|                               |  |
|-------------------------------|--|
| <b>OTI Disclaimer:</b>        | <p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p> |
| <b>OTI Annotation:</b>        | <p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>  |
| <b>Components:</b>            | <p>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).</p>  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>  |
| <b>RefSeq:</b>                | <p><a href="#">NM_177233.5</a>, <a href="#">NP_796207.2</a></p>  |
| <b>RefSeq Size:</b>           | <p>2182 bp</p>   |
| <b>RefSeq ORF:</b>            | <p>408 bp</p>  |
| <b>Locus ID:</b>              | <p>320701</p>  |
| <b>UniProt ID:</b>            | <p><a href="#">Q7TPG5</a></p>  |
| <b>Cytogenetics:</b>          | <p>6 D3</p>  |
| <b>Gene Summary:</b>          | <p>Modulates injury-induced and chemical pain hypersensitivity (PubMed:24139797). Ligand of FPR1, can chemoattract macrophages, promote phagocytosis and increase ROS release (PubMed:25109685).[UniProtKB/Swiss-Prot Function]</p>  |