

## Product datasheet for **MG219163**

### Frat1 (NM\_008043) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Frat1 (NM_008043) Mouse Tagged ORF Clone                                    |
| Tag:                      | TurboGFP  |
| Symbol:                   | Frat1   |
| Synonyms:                 | AW060382  |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >MG219163 representing NM_008043<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCTTGCCGGAGAGAGGAGGAGGAGGAAGCCGGCGACGAGGCAGAGGGGAGGAGGACGACGACAGCT  
TCCTCCTGCTGCAGCAGTCGGTACTCTGGGTGGCTCGACCGACGTGGACCAGCTCATCGTCCAGATCGG  
CGAGACGCTGCAGCTGGACGCAGCGCACGATCGCCGGCCTCGCCGTGTGCCGCCCGGGTCCCCCGCC  
CCGCAGGTCCTGGCGGCCTGCCGGGACAAGACCGGGACCCAGCTAGGAGGCTGCTGCGGCCGACGG  
GGTCAGCGGAGACCGGAACCTGCGCCCCGGGGCCGTGCGCTGCGTGTAGGGGAGCGGGGCGCT  
GCGGGGACGGTCGGCGCCCTACTGCGTGGCGGAGATCTCCCCGGCGCCAGCGCGCTGCCCCAGCAGCCG  
GGCCTTGACGGACCCCGGGGACCGGAACTAAGCACCCCGCAGCCACTGTCGGGCCCGTGCCTCCGGG  
GTTGGTCCGGAACGCAGCCGCGTCCCCTGCAACAGCGACGCGGATCTCAGCCGGAGACCCGCAC  
TGGCGACGACGACCCCGCACC GGCTCCTGCAGCAGCTCGTGTCTCGGGAAACCTCATCAAGGAGGCG  
GTGCGCAGACTTCATTGCGCAGCTACAGTTACACGCAAAGCTTCCCGCACACCCGTTCTCGGCCTC  
TGTCAGCCCCAGTGCATGAGCCGCTTCGCCGGGAGCCCTCGCGCGCCTGCAGCGACCCCTGGCGCTT  
CATGGGAGGGCGCAGCTCAGAAGTGGGACGACCTTCTGTCCCTGGCAGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG219163 representing NM\_008043  
 Red=Cloning site Green=Tags(s)

MPCRREEEEEAGDEAEGEEDDDSFLLLQQSVTLGGSTDVDQLIVQIGETLQLDAAHDRPASPCAAPGPPP  
 PQVLAALPADKTGTPARRLLRPTGSAETGNPAPPGAVRCVLGERGRVGRSAPYCVAEISPGASALPQQP  
 GLDGPPGTGKLS TPQPLSGPCRRLGWLNRNAAASRRLLQRRGSQPE TRTGD DDDPHRL LQQLVLSGNL I KEA  
 VRRLHSRQLQLHAKLPAHPFLGPLSAPVHEPPSPGSPRAACSDPGAFMGRAQLRTGDDLLVPGS

TRTRPLE - GFP Tag - V

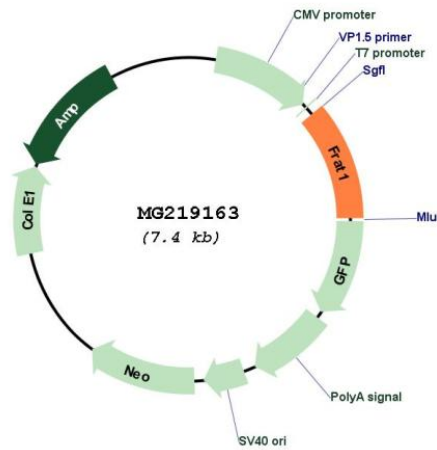
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_008043

**ORF Size:** 822 bp

|                               |   |
|-------------------------------|---|
| <b>OTI Disclaimer:</b>        | 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>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <b>Components:</b>            | 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).  |
| <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>                | <a href="#">NM_008043.3</a> , <a href="#">NP_032069.2</a>   |
| <b>RefSeq Size:</b>           | 2614 bp   |
| <b>RefSeq ORF:</b>            | 825 bp  |
| <b>Locus ID:</b>              | 14296   |
| <b>UniProt ID:</b>            | <a href="#">P70339</a>  |
| <b>Cytogenetics:</b>          | 19 35.3 cM  |
| <b>Gene Summary:</b>          | Positively regulates the Wnt signaling pathway by stabilizing beta-catenin through the association with GSK-3. May play a role in tumor progression and collaborate with PIM1 and MYC in lymphomagenesis.[UniProtKB/Swiss-Prot Function]  |