

Product datasheet for **MG202798**

Frat2 (NM_177603) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Frat2 (NM_177603) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Frat2
Synonyms:	MGC37615
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202798 representing NM_177603 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTTGCCGGAGAGAGGAGGAGGAGGAAGCCGGCGACGAGGCAGAGGGGGAGGAGGACGACGACAGCT
TCCTCCTGCTGCAGCAGTCGGTACTCTGGCGGCTCGACCGACGTGGATCGGCTCATCGTCCAGATCGG
CGAGACGCTGCAGCTGGACACGGCGCACGATCGCCGGCCTCGCCGTGTGCCGCCCGGGTCCCCACCC
GCGCTCCGCGGGTCTTGGCGGCTGTGCGCGACAAGACCGGGACCCAGCGAGGCGGCTGCTGCGGC
CGACGGGGTCAAGAGACCGGGGACCTGCGCCTCCGGGGCCGTGCGCTGCGTCTGGGGAGCGCGG
GCGTGTGCGGGCCGATCGGCGCCCTACTGCGTTGCGGAGATCGCCCGGGTGCCAGCGCGCTTCCCGGG
CCGGGGCGGCGAGGGTGGCTCCCGGCTCCGTGGCTTCTACCGAATCCAGCAGCGGCGGTGGACAGCAG
GCGGAGCGCGCGCGCCGACGACGACCCGACCGGCTCCTGCAGCAGCTCGTGTCTCCGAAACCTCAT
CAAGGAGCGGTGCGCAGACTCCAGCGAGCGGTGCGCGGTTGCGGCCACGAGCCCCGCGAGCGCTCCG
GGTCCGGGGTGGCCGAAGCGGACCGGACTCAGTCACTCTGCAGCCCTCGGGCGCTGGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202798 representing NM_177603
 Red=Cloning site Green=Tags(s)

MPCRREEEEEAGDEAEGEEDDDSFLLLQQSVTLGGSTDVDRLIVQIGETLQLDTAHRPASPCAAPGPPP
 APPRVLAALSADKTGTPARRLLRPTGSAETGDPAPPGAVRCVLGERGRVGRSAPYCVAEIAPGASALPG
 PGRRGWLPGSVASHRIQRRWTAGGARAADDPHRLQLQLVLSGNLIKEAVRRLQRAVAVAATSPASAP
 GSGGGRSGPDSVTLQPSGAWL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_177603

ORF Size: 693 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.

RefSeq: [NM_177603.3](#), [NP_808271.1](#)

RefSeq Size: 2176 bp

RefSeq ORF: 696 bp

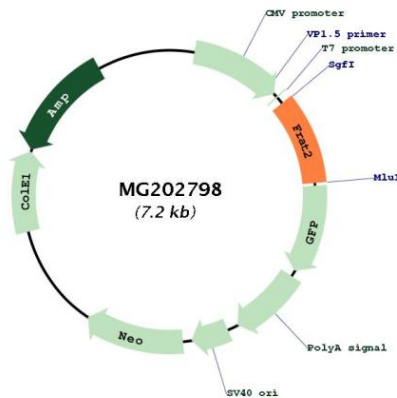
Locus ID: 212398

UniProt ID: [Q8K025](#)

Cytogenetics: 19 35.33 cM

Gene Summary: Positively regulates the Wnt signaling pathway by stabilizing beta-catenin through the association with GSK-3.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG202798