

## Product datasheet for MR202798

### Frat2 (NM\_177603) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Frat2 (NM_177603) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Frat2
Synonyms:	MGC37615
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202798 representing NM_177603 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCTTGCCGGAGAGAGGAGGAGGAGGAAGCCGGCGACGAGGCAGAGGGGGAGGAGGACGACGACAGCT  
TCCTCCTGCTGCAGCAGTCGGTACTCTGGCGGCTCGACCGACGTGGATCGGCTCATCGTCCAGATCGG  
CGAGACGCTGCAGCTGGACACGGCGCACGATCGCCGGCCTCGCCGTGTGCCGCCCGGGTCCCCACCC  
GCGCTCCGCGGGTCTTGGCGGCTGTGCGCGACAAGACCGGGACCCAGCGAGGCGGCTGCTGCGGC  
CGACGGGGTCAAGAGACCGGGGACCTGCGCCTCCGGGGCCGTGCGCTGCGTCTGGGGAGCGCGG  
GCGTGTGCGGGCCGATCGGCGCCCTACTGCGTTGCGGAGATCGCCCGGGTGCCAGCGCGCTTCCCGGG  
CCGGGGCGCGAGGGTGGCTCCCGGCTCCGTGGCTTCTACCGAATCCAGCAGCGCGGTGGACAGCAG  
GCGGAGCGCGCGCGCCGACGACACCCGACCGGCTCCTGCAGCAGCTCGTGTCTCCGAAACCTCAT  
CAAGGAGCGGTGCGCAGACTCCAGCGAGCGGTGCGCGGTTGCGGCCACGAGCCCCGCGAGCGCTCCG  
GGTCCGGGGTGGCCGAAGCGGACCGGACTCAGTCACTCTGCAGCCCTCGGGCGCTGGCTC

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR202798 representing NM\_177603  
 Red=Cloning site Green=Tags(s)

MPCRREEEEEAGDEAEGEEDDDSFLLLQQSVTLGGSTDVDRLIVQIGETLQLDTAHRPASPCAAPGPPP  
 APPRVLAALSADKTGTPARRLLRPTGSAETGDPAPPGAVRCVLGERGRVGRSAPYCVAEIAPGASALPG  
 PGRRGWLPGSVASHRIQRRWTAGGARAADDPHRLQLQLVLSGNLIKEAVRRLQRAVAVAATSPASAP  
 GSGGGRSGPDSVTLQPSGAWL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9091\\_h05.zip](https://cdn.origene.com/chromatograms/mm9091_h05.zip)

**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

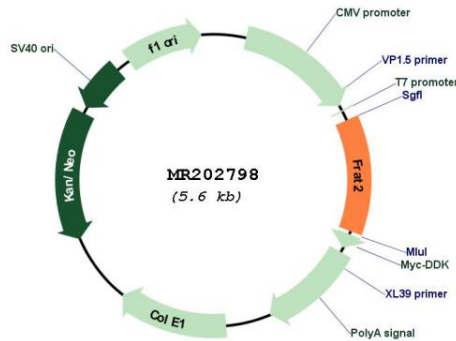
**UniProt ID:** [Q8K025](#)

**Cytogenetics:** 19 35.33 cM

**MW:** 23.9 kDa

**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 MR202798