

## Product datasheet for **MG207713**

### **Fgb (NM\_181849) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Fgb (NM_181849) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fgb
Synonyms:	2510049G14Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG207713 representing NM\_181849  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGGCATCTATGGCTGCTGCTATTGTGTGTTTTCTCAGTTCAACTCAAGCTGCCGATGATGACT  
 ACGATGAACCGACGGATAGCTTGGATGCCCGTGGTCATCGACCTGTTGACAGGAGAAAGGAAGCCTCC  
 TAGCCTAAGACCTGCCCTCCTCTATCAGTGGAGGGGCTATCGAGCCCGTCCAGCCAAGGCTACTGCC  
 AACCGAAGAAAGTAGAACGGAGACCCCGATGCAGGAGGCTGTCTTATGCTGACACAGACATGGGAG  
 TGTTGTGCTACGGGATGTACATTGCAACAAACGTTGTTAAACAGGAAAGGCCAATCAAGAGTAGTAT  
 TGCTGAGTTAAATAACAACATACAGTCTGTTCCGATACCTCCTCAGTCACCTTTCAGTACCTGACTCTG  
 CTAAGGACATGTGAAAAAGAAGCAAGCTCAAGTTAAAGAGAATGAAAATGTCATAAATGAGTACTCCT  
 CCATCCTGGAAGATCAGAGATTATATTGATGAGACTGTGAATGATAATATCCCTTAATCTTCGTGT  
 GCTCCGCTCAATCCTGGAGGACCTGAGAAGCAAAATACAAAATTAGAGTCTGACATCTCAGCTCAAATG  
 GAATACTGCCGACTCCATGCACTGTCACTGCAACATCCAGTGGTGTCTGGGAAAGAGTGTGAGGAGA  
 TCATTAGGAAGGGAGGTGAGACATCCGAAATGTATCTCATCCAGCCTGACACCTCCATCAAGCCGTACAG  
 AGTATACTGTGACATGAAAACAGAAAACGGAGGATGGACAGTCATACAGAACCCTCAGGATGGCAGCGTC  
 GACTTTGGCAGGAAATGGGACCCATACAAAAAGGATTCGGAAATATTGCCACCAATGAAGACGCGAAGA  
 AGTACTGTGGCTTCCAGGTGAATATTGGCTTGGCAATGATAAGATTAGCCAGCTCACCAGGATGGGACC  
 CACAGAACTTCTCATTGAAATGGAGGACTGAAAGGAGACAAGGTGAAGGCACATTATGGAGGCTTACAG  
 GTACAGAACGAGGCCAGCAAATACCAAGTCTCAGTGAACAAATACAAAGGGACGGCTGGCAACGCCCTCA  
 TGGACGGGCTCTCAACTGGTGGGGGAGAACAGAACCATGACCATCCACAACGGCATGTTCTTCCAGC  
 GTACGACAGGGACAACGACGGCTGGGTAACACTACGGATCCAAGAAAACAGTGTCTCAAGAAGAAGATGGTGGT  
 GGCTGGTGGTATAACAGATGCCATGCAGCCAATCCAAATGGCAGATACTACTGGGGTGGCCTTTACAGCT  
 GGGACATGTCCAAGCACGGCACAGATGATGGTGTGGTGGATGAACTGGAAGGGATCGTGGTACTCAAT  
 GAGGAGGATGTCTATGAAGATCAGGCCCTTCTCCACAGCAA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG207713 representing NM\_181849  
 Red=Cloning site Green=Tags(s)

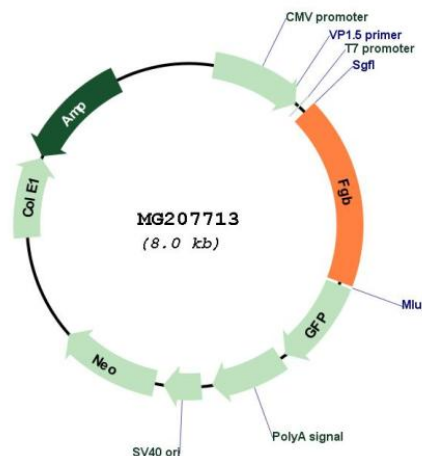
MRHLWLLLLLCVFSVQTQAADDDYDEPTDSL DARGHRPVDRRKEPPSLRPAPPPISSGGYRARPAKATA  
 NQKKVERRPPDAGGLHADTDMGVL CPTGCTLQQTLLNQERPIKSSIAELNNNIQSVSDTSSVTFQYLTL  
 LKDMWKKKQAQVKENENVINEYSSILEDQRLYIDETVNDNIPLNLRVLRILEDLRSKIQLKLESDSAQM  
 EYCRTPCTVSCNIPVVSKECEEEIIRKGGETSEMYLIQPDTSIKPYRVYCDMKTENGGWTVIQNRQDGSV  
 DFGRKWDPYKKGFGNIATNEDAKKYCGLPGEYWLGNDKISQLTRMGPTELLIEMEDWKGDVKAHYGGFT  
 VQNEASKYQVSVNKYKGTAGNALMDGASQLVGENRTMTIHNGMFFSTYDRDNDGWVTTDPRKQCSKEDGG  
 GWYNRCHAANPNGRYYWGLYSWDMSKHGTDG VVWMNWKGSWYSMRRMSMKIRPFPPQQ

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_181849

**ORF Size:** 1443 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\\_181849.3](#)

**RefSeq Size:** 1575 bp

**RefSeq ORF:** 1446 bp

**Locus ID:** 110135

**UniProt ID:** [Q8K0E8](#)

**Cytogenetics:** 3 36.98 cM

**Gene Summary:** This gene encodes the beta subunit of the coagulation factor fibrinogen, which is a component of the blood clot. The encoded preproprotein is proteolytically processed by thrombin to release an N-terminal fibrinopeptide during the conversion of fibrinogen to insoluble fibrin polymer. The encoded protein interacts with the amyloid beta peptide to form fibrin clots of abnormal structure, and may play an important role in Alzheimer's disease. This gene is located adjacent to the genes encoding fibrinogen alpha and gamma subunits on chromosome 3. [provided by RefSeq, Nov 2015]