

## Product datasheet for **MG205688**

### Fcgrt (BC003786) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Fcgrt (BC003786) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Fcgrt  
**Synonyms:** FcRn  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG205688 representing BC003786  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGGATGCCACTGCCCTGGGCCCTCAGCCTCTTGTGGTCCTCCTGCCTCAGACCTGGGGCTCAGAGA  
 CCCGCCCCCACTGATGTATCATCTCACGGCTGTGTCAAACCCATCTACGGGCTTCCCTCTTTCTGGGC  
 CACAGGCTGGTTGGTCTCAGCAGTATCTGACCTACAACAGCCTGCGGCAGGAAGCTGACCCCTGTGGG  
 GCCTGGATGTGGAAAAATCAGGTGTCTTGGTATTGGGAGAAGGAGACCACAGACCTCAAAGCAAAGAAC  
 AGCTCTTCTTGGAGGCCCTCAAGACCCTGGAGAAGATATTAATGGTCAGAAGAGGGGGACCTACACACT  
 GCAGGGCCTGCTGGGCTGTGAACCTGGCCTCGGATAATTCCTCAGTGCCACGGCTGTGTTGCCCTCAAT  
 GGTGAGGAGTTTATGAAATTC AACCCAAGAATCGGCAATTGGACTGGGGAGTGGCCTGAGACGGAATCG  
 TTGCTAATCTGTGGATGAAGCAGCCTGATGCGGCCAGGAAGGAGAGCGAGTTCCTGCTAAACTCTTGTC  
 GGAGCGACTGCTAGGCCACCTGGAGAGGGGCCGACGGAACCTGGAGTGGAAAGGAGCCGCCGCTATGCGC  
 CTGAAGGCCCGTCTGGCAACTCTGGCTCCTCCGTGCTGACCTGTGCTGCTTTCTCTTCTACCCACCGG  
 AGCTCAAGTCCGATTCCTGCGCAATGGGCTAGCCTCAGGCTCCGGGAATTGCAGCACTGGTCCCAATGG  
 AGATGGCTCTTTCCACGCATGGTCATTGCTGGAGGTCAAACGTGGAGATGAGCACCATTATCAATGTCAA  
 GTGGAGCATGAGGGGCTGGCACAGCCTCACTGTGGACCTAGATTTCATCAGCCAGATCTTCTGTGCCTG  
 TGGTTGGAATCGTCTTGGTTTATTGCTGGTGGTAGTGGCCATCGCAGGCGGTGTGCTGTGGGGCAG  
 GATGCGCAGCGGTCTGCCAGCCCATGGCTTTCTCAGCGGCGATGACTCTGGTGACCTGTTGCCTGGT  
 GGAACTTGCCCCAGAAGCTGAACCTCAAGGTGCAAATGCCTTTCCAGCCACTTCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205688 representing BC003786  
 Red=Cloning site Green=Tags(s)

MGMPLPWALSLLLVLQPWTWGSERPLMYHLTAVSNPSTGLPSFWATGWLGPQQYLYNSLRQEADPCG  
 AWMWENQVSWYWEKETTDLKSKEQLFLEALKTLEKILNGQKRGTYTLQGLLGCELASDNSSVPTAVFALN  
 GEEFMKFNPRIGNWTGEWPETEIVANLWMKQPDAAARKESEFLLNSCPERLLGHLERGRNLEWKEPPSMR  
 LKARPGNSGSSVLTCAAFSFYPPELKFRFLRNGLASGSGNCSTGPNGDGSFHAWSLLEVKRGDEHHYQCQ  
 VEHEGLAQPLTVDLSSARSSVPVVGIVLGLLLVVVAIAGGVLLWGRMRSGLPAPWLSLSDGDSGDLLPG  
 GNLPEAEPPQGANAFPATS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC003786

**ORF Size:** 1107 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:** [BC003786](#), [AAH03786](#)

**RefSeq Size:** 1617 bp

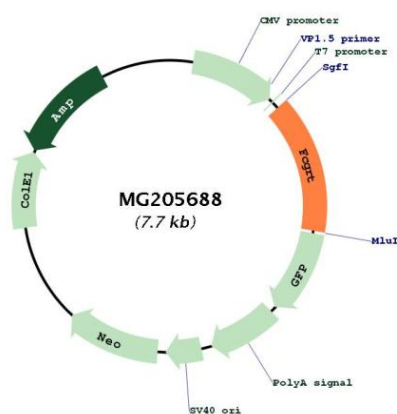
**RefSeq ORF:** 1109 bp

**Locus ID:** 14132

**Cytogenetics:** 7 29.12 cM

**Gene Summary:** Binds to the Fc region of monomeric immunoglobulins gamma (PubMed:7504013). Mediates the selective uptake of IgG from milk and helps newborn animals to acquire passive immunity. IgG in the milk is bound at the apical surface of the intestinal epithelium. The resultant FcRn-IgG complexes are transcytosed across the intestinal epithelium and IgG is released from FcRn into blood or tissue fluids (By similarity). Possible role in transfer of immunoglobulin G from mother to fetus (By similarity).[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MG205688