

Product datasheet for **MG222659**

Fcgrt (NM_010189) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Fcgrt (NM_010189) 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: | >MG222659 representing NM_010189 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGATGCCACTGCCCTGGGCCCTCAGCCTCTTGTGGTCTCCTGCCTCAGACCTGGGGCTCAGAGA
CCCCCCCCACTGATGTATCATCTCACGGCTGTGTCAAACCCATCTACGGGCTTCCCTCTTTCTGGGC
TACAGGCTGGTTGGTCTCAGCAGTATCTGACCTACAACAGCCTGCGGCAGGAAGCTGACCCCTGTGGG
GCCTGGATGTGGAAAAATCAGGTGTCTTGGTATTGGGAGAAGGAGACCACAGACCTCAAAGCAAAGAAC
AGCTCTTCTTGGAGGCCCTCAAGACCCTGGAGAAGATATTAATGGGACCTACACACTGCAGGGCCTGCT
GGCTGTGAACCTGGCCTCGGATAATTCCTCAGTGCACCGCTGTGTTGCCCTCAATGGTGAGGATTT
ATGAAATCAACCAAGAATCGGCAATTGGACTGGGGAGTGGCCTGAGACGGAAATCGTTGCTAATCTGT
GGATGAAGCAGCCTGATGCGGCCAGGAAGGAGAGCGAGTTCCTGTAAACTCTTGTCCGGAGCGACTGCT
AGGCCACCTGGAGAGGGGCCGACGGAACCTGGAGTGGAAGGAGCCGCTCTATGCGCCTGAAGGCCGT
CCTGGCAACTCTGGTCTCCGTGCTGACCTGTGCTGCTTTCTCCTTCTACCCACCGGAGCTCAAGTTCC
GATTCCTGCGCAATGGGCTAGCCTCAGGCTCCGGGAATGCAGCACTGGTCCCAATGGAGATGGCTCTTT
CCACGCATGGTCATTGCTGGAGGTCAAACGTGGAGATGAGCACCATTATCAATGTCAAGTGGAGCATGAG
GGCTGGCACAGCCTCTCACTGTGGACCTAGATTCATCAGCCAGATCTTCTGTGCCTGTGGTTGGAATCG
TTCTTGGTTTATTGCTGGTGGTAGTGGCCATCGCAGGCGGTGTGCTGTTGTGGGGCAGGATGCGCAGCGG
TCTGCCAGCCCCATGGCTTTCTCTCAGCGGCGATGACTCTGGTGACCTGTTGCCTGGTGGAACTTGCC
CCAGAAGCTGAACCTCAAGGTGCAAATGCCTTTCCAGCCACTTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222659 representing NM_010189
Red=Cloning site Green=Tags(s)

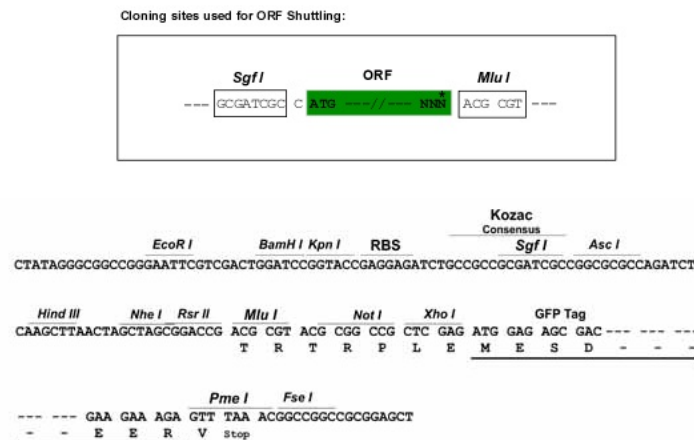
MGMPLPWALSLLLVLQPQTWGSETRPPLMYHLTAVSNPSTGLPSFWATGWLGPQQYLTYNSLRQEADPCG
 AWMWENQVSWYWEKETDLDKSKQLFLEALKTLEKILNGTYTLQGLLGCELASDNSSVPTAVFALNGEEF
 MKFNPRIGNWTGEWPETEIVANLWMKQPDAAARKESEFLLNSCERLLGHLERGRNLEWKEPPSMRLKAR
 PGNSGSSVLTCAAFSFYPPELKFRLRNLASGSGNCSTGPNGDGFSHAWSLLEVKRGDEHHYQCQVEHE
 GLAQLPTVDLSSARSSVPVVGIVLGLLLVVVAIAGGVLLWGRMRSGLPAPWLSLGGDSDGLLPGGNLP
 PEAEPQGANAFPATS

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1525_h01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010189

ORF Size: 1095 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_010189.3](#), [NP_034319.2](#)

RefSeq Size: 1738 bp

RefSeq ORF: 1098 bp

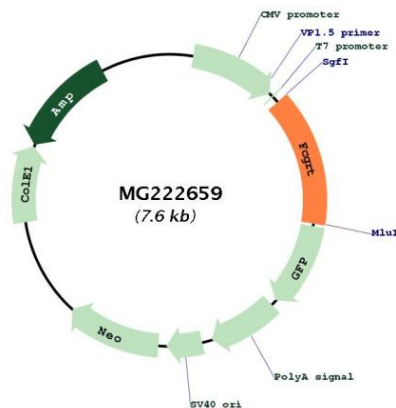
Locus ID: 14132

UniProt ID: [Q61559](#)

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 MG222659