

Product datasheet for MR205688

Fcgrt (BC003786) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Fcgrt (BC003786) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Fcgrt |
| Synonyms: | FcRn |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR205688 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGATGCCACTGCCCTGGGCCCTCAGCCTCTTGTGGTCCTCCTGCCTCAGACCTGGGGCTCAGAGA
CCCCCCCCACTGATGTATCATCTCACGGCTGTGTCAAACCCATCTACGGGGCTTCCCTCTTTCTGGGC
CACAGGCTGGTTGGTCTCAGCAGTATCTGACCTACAACAGCCTGCGGCAGGAAGCTGACCCCTGTGGG
GCCTGGATGTGGAAAAATCAGGTGTCTTGGTATTGGGAGAAGGAGACCACAGACCTCAAAGCAAAGAAC
AGCTCTTCTTGGAGGCCCTCAAGACCCTGGAGAAGATATTAATGGTCAGAAGAGGGGGACCTACACACT
GCAGGGCCTGCTGGGCTGTGAACCTGGCCTCGGATAATTCCTCAGTGCCACGGCTGTGTTGCCCTCAAT
GGTGAGGAGTTTATGAAATCAACCCAAGAATCGGCAATTGGACTGGGGAGTGGCCTGAGACGGAATCG
TTGCTAATCTGTGGATGAAGCAGCCTGATGCGGCCAGGAAGGAGAGCGAGTTCCTGCTAAACTCTTGTC
GGAGCGACTGCTAGGCCACCTGGAGAGGGGCCGACGGAACCTGGAGTGGAAAGGAGCCGCCGCTATGCGC
CTGAAGGCCCGTCTGGCAACTTGCTCCTCCGTGCTGACCTGTGCTGCTTTCTCTTCTACCCACCGG
AGCTCAAGTCCGATTCCTGCGCAATGGGCTAGCCTCAGGCTCCGGGAATTGCAGCACTGGTCCCAATGG
AGATGGCTCTTCCACGCATGGTCATTGCTGGAGGTCAAACGTGGAGATGAGCACCATTATCAATGTCAA
GTGGAGCATGAGGGCTGGCACAGCCTCACTGTGGACCTAGATTCATCAGCCAGATCTTCTGTGCCTG
TGGTTGGAATCGTCTTGGTTTATTGCTGGTGGTGTAGTGGCCATCGCAGGCGGTGTGCTGCTGTGGGGCAG
GATGCGCAGCGGTCTGCCAGCCCATGGCTTTCTCAGCGGCGATGACTCTGGTACCTGTTGCCTGGT
GGGAACCTGCCCCAGAAGCTGAACCTCAAGGTGCAAATGCCTTTCCAGCCACTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205688 protein sequence
Red=Cloning site Green=Tags(s)

MGMPLPWALSLLLVLQPQTWGSERPLMYHLTAVSNPSTGLPSFWATGWLGPQQYLYTNSLRQEADPCG
 AWMWENQVSWYWEKETDLDKSKEQLFLEALKTLEKILNGQKRGTYTLQGLLGCELASDNSSVPTAVFALN
 GEEFMKFNPRIGNWTGEWPETEIVANLWMKQPDAAKSEFLLNSCPERLLGHLERGRRLNLEWKEPPSMR
 LKARPGNSGSSVLTCAAFSFYPPELKFRFLRNGLASGSGNCSTGPNGDGSFHAWSLLEVKRGDEHHYQCQ
 VEHEGLAQLTVDLSSARSSVPVVGIVLGLLLVVVAIAGGVLLWGRMRSGLPAPWLSLGGDSDGDLPLG
 GNLPEAEPQGANAFPATS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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

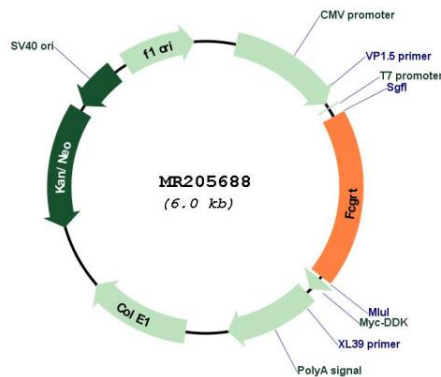
Locus ID: 14132

Cytogenetics: 7 29.12 cM

MW: 40.6 kDa

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 MR205688