

Gene name: Fcgrt(FcRn);

Protein name: **IgG receptor FcRn large subunit p51(FcRn);**

Alternative: **IgG Fc fragment receptor transporter alpha chain;Neonatal Fc receptor;**

Organism: **Mouse (*Mus musculus*).**

General annotation

Sub unit: FcRn complex consist of two subunits: p51, and p14 which is equivalent to beta-2-microglobulin. It forms an MHC class I-like heterodimer.

Function: Binds to the Fc region of monomeric immunoglobulins gamma. 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.

Subcellular Location: Cell membrane Single-pass type I membrane protein

Protein attributes

Sequence Length: 365

Sequence:

| | | | | | | | | | | |
|------|-------------|--|-------------|--|------------|--|------------|--|------------|--|
| 50: | MGMLPWALS | | LLLVLQPQTW | | GSETRPPLMY | | HLTAVSNPST | | GLPSFWATGW | |
| 100: | LGPQQYLTYN | | SLRQEADPCG | | AWMWENQVSW | | YWEKETDLK | | SKEQLFLEAL | |
| 150: | KTLEKI LNGT | | YTLQGLLQCE | | LASDNSSVPT | | AVFALNGEEF | | MKFNPRIGNW | |
| 200: | TGEWPETEIV | | ANLWMKQPDA | | ARKESEFLLN | | SCPERLLGHL | | ERGRRNLEWK | |
| 250: | EPPSMRLKAR | | PGNSGSSVLT | | CAAFSFPYPE | | LKFRFLRNL | | ASGSGNCSTG | |
| 300: | PNGDGSFHAW | | SLLEVKRGDE | | HHYQCQVEHE | | GLAQPLTVDL | | DSSARSSVPV | |
| 350: | VGI VLGLLLV | | VVAI AGGVLL | | WGRMRSLPA | | PWLSLSGDDS | | GDLLPGGNLP | |
| 365: | PEAEPQANA | | FPATS | | | | | | | |

Database Reference

UniGene: [Mm.3303](#)

KEGG: [mmu:14132](#)

String: [Q61559](#)

Pfam: [PF07654](#)

SMR: [Q61559](#)

Uniprot: [Q61559](#)

Gentaur Molecular Products
Voortstraat 49
1910 Kampenhout, Belgium