

Product datasheet for **MR203178L4V**

Fcgr4 (NM_144559) Mouse Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Fcgr4 (NM_144559) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Fcgr4
Synonyms:	4833442P21Rik; CD16-2; FcgammaRIV; Fcgr3a; FcgrIV; Fcrl3
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_144559
ORF Size:	747 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR203178).
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.
RefSeq:	NM_144559.1 , NP_653142.1
RefSeq Size:	1304 bp
RefSeq ORF:	750 bp
Locus ID:	246256
UniProt ID:	A0A0B4J1G0
Cytogenetics:	1 78.53 cM



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Gene Summary:

Receptor for the Fc region of immunoglobulin gamma (PubMed:16039578). Also acts as a receptor for the Fc region of immunoglobulin epsilon (PubMed:17558411, PubMed:18949059). Binds with intermediate affinity to both IgG2a and IgG2b (PubMed:16039578, PubMed:17558411, PubMed:19795417). Can bind to IgG2a and IgG2b monomers (PubMed:18949059). Does not display binding to IgG1 or IgG3 (PubMed:16039578). Mediates neutrophil activation by IgG complexes redundantly with Fcgr3 (PubMed:18097064). Plays a role in promoting bone resorption by enhancing osteoclast differentiation following binding to IgG2a (PubMed:25824719). Binds with low affinity to both the a and b allotypes of IgE (PubMed:18949059). Has also been shown to bind to IgE allotype a only but not to allotype b (PubMed:17558411). Binds aggregated IgE but not the monomeric form and bound monomeric IgG is readily displaced by IgE complexes (PubMed:18949059). Binding to IgE promotes macrophage-mediated phagocytosis, antigen presentation to T cells, production of proinflammatory cytokines and the late phase of cutaneous allergic reactions (PubMed:17558411, PubMed:18949059).[UniProtKB/Swiss-Prot Function]