

## Product datasheet for **MR200193L4V**

### Fcer1g (NM\_010185) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Fcer1g (NM_010185) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Fcer1g
Synonyms:	AI573376; CD23; Fce1g; FcepsilonRI; FcR-gamma; FcRgamma; FcR[g]; Ly-50
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_010185
ORF Size:	261 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR200193).
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. <a href="#">More info</a>
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:	<a href="#">NM_010185.4</a> , <a href="#">NP_034315.1</a>
RefSeq Size:	683 bp
RefSeq ORF:	261 bp
Locus ID:	14127
UniProt ID:	<a href="#">P20491</a>
Cytogenetics:	1 79.23 cM


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**Gene Summary:**

Adapter protein containing an immunoreceptor tyrosine-based activation motif (ITAM) that transduces activation signals from various immunoreceptors. As a component of the high-affinity immunoglobulin E (IgE) receptor, mediates allergic inflammatory signaling in mast cells (PubMed:14764707). As a constitutive component of interleukin-3 receptor complex, selectively mediates interleukin 4/IL4 production by basophils, priming T-cells toward effector T-helper 2 subset (PubMed:19098920). Associates with pattern recognition receptors CLEC4D and CLEC4E to form a functional signaling complex in myeloid cells. Binding of mycobacterial trehalose 6,6'-dimycolate (TDM) to this receptor complex leads to phosphorylation of ITAM, triggering activation of SYK, CARD9 and NF-kappa-B, consequently driving maturation of antigen-presenting cells and shaping antigen-specific priming of T-cells toward effector T-helper 1 and T-helper 17 cell subtypes (PubMed:23602766) (Probable). May function cooperatively with other activating receptors. Functionally linked to integrin beta-2/ITGB2-mediated neutrophil activation (PubMed:17086186). Also involved in integrin alpha-2/ITGA2-mediated platelet activation (PubMed:9171347).[UniProtKB/Swiss-Prot Function]