

## Product datasheet for **MG200193**

### Fcer1g (BC034163) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Fcer1g (BC034163) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Fcer1g  
**Synonyms:** FcR[g], FcR-gamma, CD23  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG200193 representing BC034163  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATCTCAGCCGTGATCTTGTTCTTGCTCCTTTTGGTGAACAAGCAGCCGCCCTGGGAGAGCCGCAGC  
TCTGCTATATCCTGGATGCTGTCTGTTTTGTATGGTATTGTCCTTACCCTACTCTACTGTCGACTCAA  
GATCCAGGTCCGAAAGGCAGCTATAGCCAGCCGTGAGAAAGCAGATGCTGTCTACACGGGCTGAACACC  
CGGAGCCAGGAGACATATGAGACTCTGAAGCATGAGAAACCACCCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG200193 representing BC034163  
Red=Cloning site Green=Tags(s)  
MISAVILFLLLLVEQAAALGEPQLCYILDAVLFLYGIVLTLLYCRLLKIQRKAAIASREKADAVYTGLNT  
RSQETYETLKHEKPPQ

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC034163</a> , <a href="#">AAH34163</a>
<b>RefSeq Size:</b>	800 bp
<b>RefSeq ORF:</b>	260 bp
<b>Locus ID:</b>	14127
<b>Cytogenetics:</b>	1 79.23 cM
<b>Gene Summary:</b>	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]