

Product datasheet for **MG203178**

Fcgr4 (NM_144559) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fcgr4 (NM_144559) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Fcgr4
Synonyms: 4833442P21Rik; CD16-2; FcgammaRIV; Fcgr3a; FcgRIV; Fcrl3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG203178 representing NM_144559
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGCAGCTACTACTACCAACAGCTCTGGTACTTACAGCTTTCTCTGGCATTCAAGCTGGTCTCCAAA
AGGCTGTGGTGAACCTAGACCCCAAGTGGGTGAGGTGCTTGAGGAAGACAGCGTGACCCTCAGATGCCA
AGGCACTTTCTCCCCGAGGACAATTCTATCAAGTGGTCCATAACGAAAGCCTCATCCACACCAGGAT
GCCAACTATGTCATCAAAGTCCAGAGTTAAGGACAGTGAATGTACAGGTGCCAGACAGCCCTCTCCA
CGATCAGTGACCCAGTGAAGTCCATATGGGCTGGCTATTGCTTCAGACCACTAAGTGGCTGTT
CCAGGAGGGGGACCCATTCTGAGATGCCACAGTTGGCAAAACAGACCTGTACGGAAGTCCACCTAT
TCACAGAACGGCAAAGGCAAGAAGTATTTCCATGAAAATTCTGAATTACTCATTCCAAAAGCTACACACA
ATGACAGTGGCTCCTACTTCTGCAGAGGGCTCATTGGACACAACAACAAATCTTCAGCATCCTTTGAT
AAGCCTAGGCGATCCAGGTCTCCATCCATGTTCCACCGTGGCATCAAATCACATTCTGCCTGCTGATA
GGACTCTGTTTGCAATAGACACAGTGTGATTTCTGTGCGGAGGGGTCTTCAAAGTCTGTGGCTG
ACTATGAGGAACCAAGATTCATGGAGCAAGGAACCTCAGGACAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203178 representing NM_144559
 Red=Cloning site Green=Tags(s)

MWQLLLPTALVLTAFSGIQAGLQKAVVNLDPKWVRVLEEDSVTLRCQGTFFSPEDNSIKWFHNESLIPHQD
 ANYVIQSARVKDSGMYRCQTALSTISDPVQLEVHMGWLLQTTKWLFEQGDPIHLRCHSWQNRPVKVTY
 SQNGKGGKYFHENSELLIPKATHNDSGSYFCRGLIGHNNKSSASFRLSLGDPGSPSMFPPWHQITFCLLI
 GLLFAIDTVLYFSVRRGLQSPVADYECPKIQWSKEPQDK

TRTRPLE - GFP Tag - V

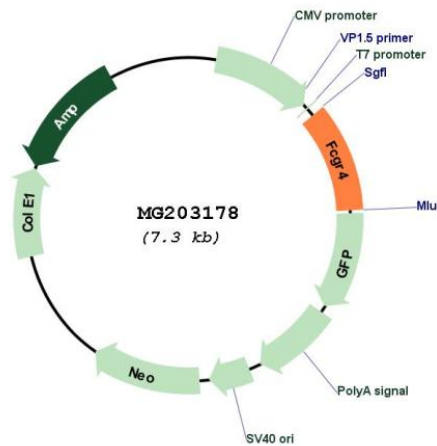
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_144559

ORF Size: 747 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:	<ol style="list-style-type: none">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:	NM_144559.1 , NP_653142.1
RefSeq Size:	1304 bp
RefSeq ORF:	750 bp
Locus ID:	246256
UniProt ID:	A0A0B4I1G0
Cytogenetics:	1 78.53 cM
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]