

Product datasheet for MC205356

Fcgr4 (NM_144559) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fcgr4 (NM_144559) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fcgr4
Synonyms:	4833442P21Rik; CD16-2; FcgammaRIV; Fcgr3a; FcgRIV; Fcrl3
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>BC027310

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TCCGGATATCTGTGGTGACATTTTCTATCTGCTTCAGCAGCATGTGGCAGCTACTACTACCAACAGCTCT
GGTACTTACAGCTTTCTCTGGCATTCAAGCTGGTCTCCAAAAGGCTGTGGTGAACCTAGACCCCAAGTGG
GTCAGGGTCTTGAAGGAAGACAGCGTGACCCTCAGATGCCAAGGCACTTTCTCCCGGAGGACAATTCTA
TCAAGTGGTTCATAACGAAAGCCTCATCCACACCAGGATGCCAACTATGTCATCCAAAGTGCCAGAGT
TAAGGACAGTGGAAATGTACAGGTGCCAGACAGCCCTCTCCACGATCAGTGACCCAGTGCAACTAGAGGTC
CATATGGGCTGGCTATTGCTTCAGACCACTAAGTGGCTTTCAGGAGGGGGACCCCATTCATCTGAGAT
GCCACAGTTGGCAAACAGACCTGTACGGAAGGTCACCTATTCACAGAACGGCAAAGGCAAGAAGTATTT
CCATGAAAATTCTGAATTACTCATTCCAAAAGCTACACACAATGACAGTGGCTCCTACTTCTGCAGAGGG
CTCATTGGACACAACAACAATCTTCAGCATCCTTTTCGTATAAGCCTAGGCGATCCAGGGTCTCCATCCA
TGTTCACCGTGGCATCAAATCACATTCTGCCTGCTGATAGGACTCTTGTGGCAATAGACACAGTGCT
GTATTTCTCTGTGCGGAGGGTCTTCAAAGTCCTGTGGCTGACTATGAGGAACCCAAGATTCAATGGAGC
AAGGAACCTCAGGACAAGTGAGCTTATCGCATGCGATGATAAGAGCAATGGTGTAGAACCATGAGCC
TCCCTGGGAGCTTGAACCTCACCAGCTGCATTGGTCCACCATGCTTTGAGCAGCAGAAAATAATAAAAGG
CCCCTTCCCCTAAGTGTGGTGTGTTGTTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
TTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
CAACAGTGATACAGCAATGCGCACGCAGCTACCCTCCCAAGGCGATTCTCAGAAATTTACACATTTCT
CTGCCCCAACATTCATTAGAGCAAAGCAGCAGCCTGGACTCTGGGTGGCGATGGCGATCCTTTCCGTG
CTTAGCCATTGCTCCTAAATAAACTTCTGTCGAAAAGGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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Restriction Sites:	RsrII-NotI
ACCN:	NM_144559
Insert Size:	750 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	BC027310 , AAH27310
RefSeq Size:	1304 bp
RefSeq ORF:	750 bp
Locus ID:	246256
UniProt ID:	A0A0B4J1G0
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]