

Product datasheet for **MC205903**

Fgr (NM_010208) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fgr (NM_010208) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fgr
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC057863

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GTCGCCCCAGATCGAGTCACCCGCAGCTGGCTCCCTTGAGACCAGGTTTCCGGCACCTCCCAGGGATCAT
GCATCAGTCCTATTGACCCAGGAGTAGGGGTCTGTGGGGGCATCTGGAATGGGCTGTGTGTCTGCAAGA
AGTTGGAGCCTGCATCCAAGGAGGATGTGGGCCTGGAAGGGGACTTCCGGAGCCAAACGGCTGAAGAACG
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GGCCTACTGACCCTCTGGGAGTTTGTACTTGGTCTTGCCAAATCCCCGGGGCACTCTGGTCCCAGTGCC
CAAGACTTGAACCCCTGTGGAATCCTAGCACAGGATCAGAGAAGGTCCGACGCTCTGAAGCCATTTTAT
AGAGGGTGCAAAATGGAGACGAGAACTCATCTTAAAAAAAAAAAAAAAAAAAA

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Restriction Sites:	RsrII-NotI
ACCN:	NM_010208
Insert Size:	1554 bp
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:	<u>BC057863</u> , <u>AAH57863</u>
RefSeq Size:	1873 bp
RefSeq ORF:	1554 bp
Locus ID:	14191
UniProt ID:	<u>P14234</u>
Cytogenetics:	4 66.11 cM

Gene Summary:

Non-receptor tyrosine-protein kinase that transmits signals from cell surface receptors devoid of kinase activity and contributes to the regulation of immune responses, including neutrophil, monocyte, macrophage and mast cell functions, cytoskeleton remodeling in response to extracellular stimuli, phagocytosis, cell adhesion and migration. Promotes mast cell degranulation, release of inflammatory cytokines and IgE-mediated anaphylaxis. Acts downstream of receptors that bind the Fc region of immunoglobulins, such as MS4A2/FCER1B, FCER1G and FCGR2. Acts downstream of ITGB1 and ITGB2, and regulates actin cytoskeleton reorganization, cell spreading and adhesion. Depending on the context, activates or inhibits cellular responses. Functions as negative regulator of ITGB2 signaling, phagocytosis and SYK activity in monocytes (PubMed:11672534). Required for normal ITGB1 and ITGB2 signaling, normal cell spreading and adhesion in neutrophils and macrophages (PubMed:8666673 and PubMed:9687507). Functions as positive regulator of cell migration and regulates cytoskeleton reorganization via RAC1 activation (PubMed:15561106). Phosphorylates SYK (in vitro) and promotes SYK-dependent activation of AKT1 and MAP kinase signaling (PubMed:21746961). Phosphorylates PLD2 in antigen-stimulated mast cells, leading to PLD2 activation and the production of the signaling molecules lysophosphatidic acid and diacylglycerol. Promotes activation of PIK3R1. Phosphorylates FASLG, and thereby regulates its ubiquitination and subsequent internalization. Phosphorylates ABL1. Promotes phosphorylation of CBL, CTTN, PIK3R1, PTK2/FAK1, PTK2B/PYK2 and VAV2. Phosphorylates HCLS1 that has already been phosphorylated by SYK, but not unphosphorylated HCLS1. [UniProtKB/Swiss-Prot Function]