

Product datasheet for **MC203263**

Fgf1 (NM_010197) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fgf1 (NM_010197) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fgf1
Synonyms:	Dffrx; Fam; Fgf-1; Fgfa
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC037601
 CCACGCGTCCGCCACGCGTCCGGGCGTGGGAGAAGCAAGGCCTGGGCTTCCAGCGCGCTGTAGCAAGGT
 GTTGGTGTCCACAGCAGTAGGAATGCATTGGAGGGGTGTGACAAATGGAACCTCAGGTGACACTGCTGA
 TGAAGGAGCCAAAGAACCAATATCTGACCTGTGCTGAGCCTACCACCGCTGCTTGTGCCGAGCCATGG
 CTGAAGGGGAGATCACAACCTTCGCAGCCCTGACCGAGAGGTTCAACCTGCCTTAGGAACTACAAAA
 GCCCAAATGCTCTACTGCAGCAACGGGGCCACTTCTTGAGGATCCTTCTGATGGCACCGTGGATGGG
 ACAAGGGACAGGAGCCAGCACATTCAGCTGCAGCTCAGTGGGAAAGTGGGGCGAAGTGTATATAA
 AGGGTACGGAGACCGCCAGTACTTGGCCATGGACACCGAAGGGCTTTTATACGGCTCGCAGACACCAAA
 TGAGGAATGTCTGTTCTGGAAAGGCTGGAAAGAAACCATTATAACACTTACACCTCCAAGAAGCATGCG
 GAGAAGAAGTGGTTGTGGGCTCAAGAAGAACGGGAGCTGTAAGCGCGTCTCGGACTCACTATGGCC
 AGAAAGCCATCTGTTTCTGCCCTCCCGGTGTCTTCTGACTAGAGGAGTCTGTTCTGAGTGTCTCTAT
 TTTGGTTGACCCTACCATGTTCCCTTGACCATTGGCTGCGCTAACCTCAGGCCACAGAGCTGAATTTG
 TAAGCAGTGCTTCTAAAATAGCCAGTTCACCTTTCTGCTGAGCCCTTCCCACCACCCAGCACAAATTTG
 GAACACAGGGACCAATGCTTCAAGAGGACAACCTGGCTGGCCAGTCTAGGTCTGGGTTTGGATATCCGG
 ATGCCTCAGGGCACCTGTACAAGCTGGACCTGGTGTGCAAAGTTGGGGCCATACGAAGCATTCAAAG
 GGGTCTAAGAAGTGGGTTCTTAGAAAGATACCCACTGCATGCTCTTCCCTTCTGAGCAATCCCTGGTT
 TTAAGCACCCAGGCAATTAGCATGACTACCTTCCCCTACCAGAACCACAAATATCAGTAAAGCAA
 CCGGTAGTGAGGCTGAAGGAATTCATGGTAGAGAGAAACCCCCCCCCCAGCCCCACATATGGACAA
 GACTTAAACCAAAAGGGAGTGTGGCGTTTCCGGGACAGCCTAGAAGCATGGGATCTCGGAACAGAGTAA
 GAAGGCAAGAGTCAGCCACAGGGAGTCAAGATGAGCCACAGCCAGCAGTTATCACCAAGTTACCAAGG
 AAACGTCCACAGTCAGGGAAGAGCCCCGAAATGGTTTCTTAGTAATGGCAAGCACAGAGATCTGGGGT
 CTGAAGAGTGGGCGTAGGAGCAAGGAGACAGGATGTCTTACCCGTGGATGTTAGCCTCTAAAAGGAAG
 ATGTTAGACGGGAGGAGGAGAGAGAAAAAGTAAATACACGTCACTGTGCTTGGCCACCACGAAACTG
 GGGTTGTGGGGTCCCAGTACGATGGCCCCAAATAGCCCATACATTCAGATCATCTGTATTCAAGTTTCA
 TTGTATGACTGTGAAACCTGATTTGGTGGGCTGGTGTGGGGAGGTCTGTGCTTGAAAGGCCCAAG
 TCCCATAGATGCTGCTGGCTTCCCACCATGCTTCAAGAGCAGCCCCAGAGAATGCTGTTCAAATGAAG
 GTTGCTCAGACTTACCCTCTTTTACCTCCAGTGGCCGGTTTTCTGAGTATCCATCCAGGCAGTGTCC
 ATAGTTAGTGAAGCATGGTTTCAAGGCACCTTGCCCAAGTGCCTATAAAATGCCACTCAGAAATCACTG
 AAACCGTACTTCAAAAAAATGTTGAACCTCACAAAAGCTTTCTCCAAGAGACCATTCTGTTACCA
 TTAATTTTCAAAGTGGCTTCTCTTAAAGTAAACCTGGCCCAAGTGGCCAGCAATTAGAAACACTAT
 TCATCTCTGACATAGGACACAAACGCCATGAGAAGGCCTTTCATACGCCAATTTAATATACTGTGAGACT
 TATCTTCTCGTTGCTTCTATATAGCTTGAAGGCATTAATAGATTACAAATCAGCCACAGAGGATAATA
 ACAGCCTAGAATGTAAGCTACTTAGTTATCTAACATGTACATTTCATTATGAGGCCTTCTCTTTG
 TCTTCCACTGTGCTTAAAGAATGGGTATCTAGGGGCTGGTGTGAGATGGGACAGGAGTTCAGTTCCTAGCAT
 TCACAGTGTGATGCTCAGACCAATTCTAACTCCAACCTCAGGGGTACTGCATACACATGTACAAACCCA
 CACTTTTTCAGAAATATAAACCAATAATATGGTTGTGGATTAACCAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_010197

Insert Size: 468 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:

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: [BC037601](#), [AAH37601](#)

RefSeq Size: 2440 bp

RefSeq ORF: 468 bp

Locus ID: 14164

UniProt ID: [P61148](#)

Cytogenetics: 18 20.74 cM

Gene Summary: Plays an important role in the regulation of cell survival, cell division, angiogenesis, cell differentiation and cell migration. Functions as potent mitogen in vitro. Acts as a ligand for FGFR1 and integrins. Binds to FGFR1 in the presence of heparin leading to FGFR1 dimerization and activation via sequential autophosphorylation on tyrosine residues which act as docking sites for interacting proteins, leading to the activation of several signaling cascades. Binds to integrin ITGAV:ITGB3. Its binding to integrin, subsequent ternary complex formation with integrin and FGFR1, and the recruitment of PTPN11 to the complex are essential for FGF1 signaling. Induces the phosphorylation and activation of FGFR1, FRS2, MAPK3/ERK1, MAPK1/ERK2 and AKT1. Can induce angiogenesis.[UniProtKB/Swiss-Prot Function]