

Product datasheet for **MC221852**

Fgfr1 (NM_001079908) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fgfr1 (NM_001079908) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fgfr1
Synonyms:	AW208770; bFGF-R-1; c-fgr; Eask; Fgfr-1; FGFR-I; FLG; Flt-2; Hspy; MFR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221852 representing NM_001079908
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTGGGGCTGGAAGTGCCTCCTTCTGGGCTGTGCTGGTACAGCCACTCTCTGCACTGCCAGGCCAG
 CCCAACCTTGCCTGAACAAGCTCAGCCCTGGGGAGTCCCTGTGGAAGTGGAGTCTCTCCTGGTCCACCC
 TGGCGACCTGCTACAGCTTCGCTGTGCGCTTCGCGATGATGTGCAGAGCATCAACTGGCTGCGGGATGGG
 GTGCAGCTGGTGGAGAGCAACCGTACCCGCATCACAGGGGAGGAGGTGGAGGTGCGGGACTCCATCCCCG
 CTGACTCTGGCCTCTACGTTGCGTGACCAGCAGCCCCTCTGGCAGCGATACCACCTACTTCTCCGTCAA
 TGTCTCAGATGCACTCCCATCCTCGAAGATGATGACGACGACGATGACTCCTCCTCGGAGGAGAAAAGAG
 ACGGACAACACCAAAACCAACCTGTAGCTCCCTACTGGACATCCCAGAGAAAATGGAGAAGAACTGC
 ATCGGGTCCCGCTGCCAAGACGGTGAAGTTCAAGTGCCCGTGCAGTGGGACACCAACCCCACTCTGCC
 CTGGTTGAAAAATGGCAAAGAGTTAAGCCTGACCACCGAATTGGAGGCTACAAGTTTCGATGCCACC
 TGGAGCATCATAATGGATTCTGTGGTGCCTTCTGACAAGGGCAACTACACTGCATCGTGGAGAATGAGT
 ATGGGAGCATCAACCACCTACCAGCTTGACGTCGTGGAACGATCTCCGCACCGACCCATCCTTACGGC
 AGGGTGCCTGCCAACAGACAGTGGCCCTGGGCAGCAATGTGGAGTTCATGTGAAGGTGTACAGCGAT
 CCGCAGCCTCACATTCAGTGGCTGAAGCACATCGAGGTGAACGGGAGTAAGATCGGGCCAGACAACCTGC
 CGTATGTCCAGATCCTGAAGACTGCTGGAGTTAATACCACCGACAAGGAAATGGAGGTGCTTCATCTACG
 GAATGTCTCCTTTGAGGATGCGGGGAGTATACGTGCTTGGCGGGTAACCTATCGGACTCTCCATCAC
 TCTGCATGGTTGACCGTCTGGAAGCCCTGGAAGAGAGACCAGCTGTGATGACCTCACCGCTCTACCTGG
 AGATCATTACTACTGCACCGGGCCCTCCTGATCTCCTGCATGTTGGGCTCTGCATCATCTATAAAGT
 GAAGAGCGGCACCAAGAAGAGCGACTTCCATAGCCAGATGGCTGTGCACAAGCTGGCCAAGAGCATCCCT
 CTGCGCAGACAGGTAACAGTGTGACGCTGACTCCAGTGCATCCATGAACTCTGGGGTTCTCCTGGTTCGGC
 CCTCACGGCTCTCCTCCAGCGGGACCCCATGCTGGCTGGAGTCTCCGAATATGAGCTCCCTGAGGATCC
 CCGCTGGGAGCTGCCACGAGACAGACTGGTCTTAGGCAAACCACTTGGCGAGGGCTGCTTCGGGCAGGTG
 GTGTTGGCTGAGGCCATCGGGCTGGATAAGGACAAACCAACCGTGTGACCAAAGTGGCCGTGAAGATGT
 TGAAGTCCGACGCAACGGAGAAGGACCTGTCGGATCTGATCTCGGAGATGGAGATGATGAAAATGATTGG
 GAAGCACAGAATATCATCAACCTTCTGGGAGCGTGCACACAGGATGGTCTCTTTATGTCATTGTGGAG
 TACGCCTCAAAGGCAATCTCCGGGAGTATCTACAGGCCCGGAGGCTCCTGGGCTGGAGTACTGCTATA
 ACCCCAGCCACAACCCCGAGGAACAGCTGTCTTCAAAGATCTGGTATCCTGTGCCTATCAGGTGGCTCG
 GGGCATGGAGTATCTTGCCTCTAAGAAGTGTATACACCGAGACCTGGCTGCTAGGAACGTCTGGTGACC
 GAGGATAACGTAATGAAGATCGCAGACTTTGGCTTAGCTCGAGACATTCATCATATCGACTACTACAAGA
 AAACCAACACGGCCGGCTGCCTGTGAAGTGGATGGCCCTGAGGCGTTGTTGACCGGATCTACACACA
 CCAGAGCGATGTGTGGTCTTTGGAGTGTCTTGTGGGAGATCTCACTCTGGGTGGTCCCCATACCC
 GGTGTGCCTGTGGAGGAACCTTTCAAGCTGCTGAAGGAGGGTTCATCGAATGGACAAGCCAGTAACGTGA
 CCAATGAGCTGTACATGATGATGCGGGACTGCTGGCATGCAGTGCCTCTCAGAGACCTACGTTCAAGCA
 GTTGGTGAAGACCTGGACCGCATTTGTGGCCTTGACCTCAACAGGAGTATCTGGACCTGTCCATACCG
 CTGGACAGTACTACCCAGCTTTCCCGACACACGGAGCTCCACCTGCTCCTCAGGGGAGGACTGTCTCT
 TCTCTCATGAGCCGTTACCTGAGGAGCCCTGTCTGCCTCGACACCCACCCAGCTTGCCAACAGTGGACT
 CAAACGGCG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001079908
Insert Size: 2463 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:	NM_001079908.2 , NP_001073377.1
RefSeq Size:	5035 bp
RefSeq ORF:	2463 bp
Locus ID:	14182
UniProt ID:	P16092
Cytogenetics:	8 14.12 cM
Gene Summary:	<p>Tyrosine-protein kinase that acts as cell-surface receptor for fibroblast growth factors and plays an essential role in the regulation of embryonic development, cell proliferation, differentiation and migration. Required for normal mesoderm patterning and correct axial organization during embryonic development, normal skeletogenesis and normal development of the gonadotropin-releasing hormone (GnRH) neuronal system. Phosphorylates PLCG1, FRS2, GAB1 and SHB. Ligand binding leads to the activation of several signaling cascades. Activation of PLCG1 leads to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5-trisphosphate. Phosphorylation of FRS2 triggers recruitment of GRB2, GAB1, PIK3R1 and SOS1, and mediates activation of RAS, MAPK1/ERK2, MAPK3/ERK1 and the MAP kinase signaling pathway, as well as of the AKT1 signaling pathway. Promotes phosphorylation of SHC1, STAT1 and PTPN11/SHP2. In the nucleus, enhances RPS6KA1 and CREB1 activity and contributes to the regulation of transcription. FGFR1 signaling is down-regulated by IL17RD/SEF, and by FGFR1 ubiquitination, internalization and degradation (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.</p>