

Product datasheet for **MC221681**

Fgfr4 (NM_008011) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fgfr4 (NM_008011) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fgfr4
Synonyms:	Fgfr-4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221681 representing NM_008011
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGGCTGCTCTTGGCCCTGTTGAGCATCTTTACAGGGACACCAGCTTTGTCCCTTGAGGCCTCTGAGG
 AAATGGAGCAGGAGCCCTGCCTAGCCCCAATCCTGGAGCAGCAAGAGCAGGTGTTGACGGTGGCCCTGGG
 GCAGCCTGTGAGGCTGTGCTGTGGGCGCACCGAGCGTGGTCGTCCTGGTACAAAGAGGGCAGCCGCTA
 GCATCTGCTGGGCGAGTACGGGTTGGAGAGGCCGCTGGAGATCGCCAGCTTCTTCTGAGGATGCTG
 GCCGATACCTCTGCCTGGCCCGTGGCTCCATGACCGTCGTACACAATCTTACGTTGCTTATGGATGACTC
 CTTAACCTCCATCAGTAATGATGAAGACCCCAAGACTCAGCAGCTCCTCGAGTGGTATGTCTACCCA
 CAGCAAGCACCCTACTGGACACACCCCCAACGCATGGAGAAGAACTGCATGCAGTGCCTGCCGGGAATA
 CTGTCAAATTCGCTGTCCAGCTGCAGGGAACCCCATGCCTACCATCCACTGGCTCAAGGATGGACAGGC
 CTTCCACGGGGAGAATCGTATTGGAGGCATTTCGGCTGCGCCACCAACACTGGAGCCTGGTATGAAAGT
 GTGGTACCCTCGGACCGTGGCACATACATGCCTTGTGGAGAATCTCTGGGTAGCATTGCTACAGCT
 ATCTCCTGGATGTGCTGGAGCGGTCCCCGACCCGCCCATCCTGCAGGCGGGGCTCCCAGCCAACACCAC
 AGCTGTGGTTGGCAGCGATGTGGAGTACTCTGCAAGGTGTACAGCGACGCCAGCCCCACATACAGTGG
 CTGAAACACGTCGTCATCAACGGCAGCAGCTTCGGCGCCGACGGTTTCCCTACGTACAAGTCTGAAGA
 CAACAGACATCAATAGCTCGGAGGTAGAGGTCTTGTATCTGAGGAACGTGTCGCTGAGGATGCAGGAGA
 GTATACCTGTCTGGCGGGCAACTCCATCGGCCTTCCCTACCAGTCAGCGTGGCTCACGGTGTGCCAGAG
 GAAGACCTCACGTGGACAACAGCAACCCCTGAGGCCAGATACACAGATATCATCTGTATGTATCAGGCT
 CACTGGTTCTGCTTGTGCTCCTGCTGCTGGCCGGGGTGTATCATCGCAAGTCATCCGTGGCCACTCTC
 TCGCCAGCCTGTCACTATACAAAAGCTGTCCCGTTTCCCTTTGGCCCGACAGTTCTCTTTGGAGTCGAGG
 TCCTCTGGCAAGTCAAGTTTGTCCCTGGTGCAGGTGTCCGTCTCTCCTCCAGCGCCCGCCCTTGTCTCA
 CGGGCCTTGTGAATCTAGACCTGCCTCTCGATCCGCTTTGGGAATCCCCCGGGACAGGTTGGTGTCTCG
 AAAGCCCCTGGGTGAGGGCTGCTTTGGCAAGTGGTTCGTGCAGAGGCCTTTGGTATGGATCCCTCCCGG
 CCCGACCAAAACCAGCACCGTGGCTGTGAAGATGCTGAAAGACAATGCCTCCGACAAGGATTTGGCAGACC
 TGGTCTCCGAGATGGAGGTGATGAAGCTAATCGGAAGACACAAGAATCATCAACCTGCTGGGTGTCTG
 CACTCAGGAAGGGCCCTGTACGTGATTGTGGAATGTGCCGCAAGGGAAACCTTCGGGAATTCCTCCGT
 GCCCGGCGCCCCAGGCCCTGATCTCAGCCCTGATGGACCTCGGAGCAGCGAAGGACCCTCTCCTTCC
 CGGCCCTAGTCTCCTGTGCCTACCAGGTGGCCCGAGGCATGCAGTATCTGGAGTCTCGGAAGTGCATCCA
 CCGGGACCTGGCTGCCCGAAATGTGCTGGTGACCAGGATGATGTGATGAAGATCGCTGACTTTGGGCTG
 GCACGTGGTGTCCACCACATTGACTACTATAAGAAAACCAGCAACGGCCGCTGCCAGTCAAATGGATGG
 CTCCAGAGGCAATTGTTCCAGCCGCTGTACACACACCAGAGTGACGTGTGGTCTTTCCGGGATCCTGCTGTG
 GGAAATCTTACCCTCGGGGGCTCCCCATACCCTGGCATTCCGGTGGAGGAGCTCTTCTCACTGTGCGA
 GAGGGGCACAGGATGGAGCGGCCCCAAACTGCCCTCAGAGCTGTATGGGCTAATGAGGGAGTGTGGC
 ACGCAGCCCCATCTCAGAGGCCACTTTTAAGCAGCTGGTGAAGCTCTGGACAAGTCTGTGCTGGCTGT
 CTCTGAAGAGTACCTTGACCTCCGCCTGACCTTTGGACCCTTTTCTCCCTCCAATGGGGATGCCAGCAGC
 ACCTGCTCCTCCAGTGACTCGGTTTTAGCCACGACCCCTTGGCCCTCGAGCCAAGCCCTTCCCTTTCT
 CTGACTCGCAGACGACATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_008011
Insert Size: 2400 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_008011.2 , NP_032037.2
RefSeq Size:	3146 bp
RefSeq ORF:	2400 bp
Locus ID:	14186
UniProt ID:	Q03142
Cytogenetics:	13 29.8 cM
Gene Summary:	<p>Tyrosine-protein kinase that acts as cell-surface receptor for fibroblast growth factors and plays a role in the regulation of cell proliferation, differentiation and migration, and in regulation of lipid metabolism, bile acid biosynthesis, glucose uptake, vitamin D metabolism and phosphate homeostasis. Required for normal down-regulation of the expression of CYP7A1, the rate-limiting enzyme in bile acid synthesis, in response to FGF19. Phosphorylates PLCG1 and FRS2. 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 SRC-dependent phosphorylation of the matrix protease MMP14 and its lysosomal degradation. FGFR4 signaling is down-regulated by receptor internalization and degradation; MMP14 promotes internalization and degradation of FGFR4. Plays a role in postnatal lung development. May be involved in the development of skeletal muscle cell lineages.</p> <p>[UniProtKB/Swiss-Prot Function]</p>