

Product datasheet for **MC221557**

Fgfr3 (NM_001163216) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fgfr3 (NM_001163216) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fgfr3
Synonyms:	CD333; Fgfr-; Fgfr-3; Flg-2; FR3; HBGF; HBGFR; Mfr3; sa; sam3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC221557 representing NM_001163216
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTAGTCCCGCCTGCGTGCTAGTGTCTGCGTGGCGGTGCTGGCTGGAGCTACTCCGAGCCTCCTG
 GTCAGAGCAGCGAGTTGTGCGGAGAGCGCAGAGGTTCCAGGGCCTGAACCTAGCCAGCAGGAGCAGGT
 GGCTTCCGGCAGTGGGGACACCGTGGAGCTGAGCTGCCATCCTCCTGGAGGTGCCCCACAGGGCCACG
 GTCTGGGCTAAGGATGGTACAGGTCTGGTGGCCTCCACCGCATCCTGGTGGGCGCTCAGAGGCTCAAG
 TGCTAAATGCCTCCACGAAGATGCAGGGTCTACAGCTGCCAGCACCGGCTCACTCGGCGTGTGCTGTG
 CCACCTCAGTGTGCGTGTAAACAGGGCTCCTTATTGGACTCGCCCGAGCGAATGGATAAGAAACTGCTG
 GCTGTGCCAGCCGAAACACTGTCGCTCCGCTGCCAGCTGCTGGCAACCTACCCCTCCATCTCCT
 GGCTGAAGAATGGCAAAGAATCCGAGGGGAGCATCGATTGGGGCATCAAGCTCCGGCACCAGCAGTG
 GAGCTTGGTCATGAAAGTGTGGTACCCTCCGATCGTGGCAACTATACCTGTGTAGTTGAGAAACAAGTTT
 GGACAGATCCGGCAGACATACACTGGATGTGCTGGAGCGCTCCACACACCGGCCATCCTGCAGGCTG
 GGCTGCCGGCCAACCAGACAGCCATTCTAGGCAGTGACGTGGAGTTCACCTGCAAGGTGTACAGCGATG
 ACAGCCACACATCCAGTGGCTGAAGCACGTGGAAGTGAACGGCAGCAAGGTGGGCCCTGACGGCAGCCCC
 TACGCTACTGTACTCAAGACTGCAGGCGCTAACACCACCGACAAGGAGCTAGAGGTTCTGTCTTGCACA
 ATGTACACCTTTGAGGACGCGGGGAGTACACCTGCCTGGCGGGCAATTCTATTGGGTTTTCCCATCACTC
 TGCGTGGCTGGTGGTGTGCCAGCTGAGGAGGAGCTGATGGAACTGATGAGGCTGGCAGCGTGTACGCA
 GCGCTCCTCAGCTACGGGGTGGTCTTCTCCTCTCATCCTGGTGGTGGCAGCTGTGATACTCTGCCGCC
 TGCCGAGTCCCCAAAGAAGGGCTTGGGCTCGCCACCGTGCACAAGTCTCTCGCTTCCCGCTTAAGCG
 ACAGGTGTCTTGAATCTAACTCCTCTATGAACCTCAACACACCCCTTGTCCGGATTGCCCGGCTGTCC
 TCAGGAGAAGGTCTGTTCTGGCCAATGTTTCTGAACTTGAGCTGCCTGTGACCCCAAGTGGGAGCTAT
 CCAGGACCCGGCTGACACTTGGTAAGCCTCTTGGAGAAGGCTGCTTGGACAGGTGGTATGGCAGAAGC
 TATTGGCATCGACAAGGACCGTACTGCCAAGCCTGTCACCGTGGCCGTGAAGATGCTGAAAGATGATGCG
 ACTGACAAGGACCTGTCGGACCTGGTATCTGAGATGGAGATGATGAAAATGATTGGCAAGCACAAGAACA
 TCATTAACCTGCTGGGGCGTGCACACAGGGTGGGCCCTGTATGTGCTGGTGGAGTACGCAGCCAAGGG
 CAATCTCCGGGAGTTCTTCCGGCGCGGGCCCTCCAGGCATGGACTACTCCTTTGATGCCTGCAGGCTG
 CCAGAGGAACAGCTCACCTGCAAGGATCTAGTGTCTGTGCTACCAGGTGGCACGGGGCATGGAATACT
 TGGCTTCTCAGAAGTGTATTACAGAGACTTGGCTGCCAGAAACGTCCTGGTGACCGAGGACAATGTGAT
 GAAGATTGCGGACTTTGGCTGGCTCGAGATGTGCACAACCTGGACTACTACAAGAAGACCACAAATGGC
 CGGCTACCTGTGAAGTGGATGGCACCAGAGGCCCTTTTGGACCGAGTCTACACCCACCAGAGTGTGTTT
 GGTCTTTTGGTGTCTCCTCTGAGGAGTCTTTACGCTGGGGGGCTCACCGTATCCTGGCATCCCAGTGGA
 AGAGCTTTTCAAGCTGTTGAAAGAGGGCCACCGCATGGACAAGCCAGCCAGCTGCACACATGACCTGTAC
 ATGATCATGCGGGAATGTTGGCATGCGGTGCCTTACAGAGGCCACCTCAAGCAGTTGGTAGAGGATT
 TAGACCGCATCCTCACTGTGACATCAACCGACGAGTACTTGGACCTCTCCGTGCCGTTTGGAGCAGTACTC
 GCCAGGTGGCCAGGACACGCCTAGCTCCAGCTCGTCCGGAGATGACTCGGTGTTACCCATGACCTGCTA
 CCCCAGGTCCACCCAGTAACGGGGGACCTCGGACG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001163216
Insert Size: 2349 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_001163216.2 , NP_001156688.1
RefSeq Size:	3960 bp
RefSeq ORF:	2349 bp
Locus ID:	14184
Cytogenetics:	5 17.83 cM
Gene Summary:	<p>This gene encodes a member of the fibroblast growth factor receptor family. Members of this family are highly conserved proteins that differ from one another in their ligand affinities and tissue distribution. A representative protein consists of an extracellular region composed of three immunoglobulin-like domains, a single hydrophobic membrane-spanning segment, and a cytoplasmic tyrosine kinase domain. The extracellular portion of the protein interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. This family member binds acidic and basic fibroblast growth hormone and plays a role in bone development and maintenance. Mutations in this gene may be associated with craniosynostosis and multiple types of skeletal dysplasia. A pseudogene of this gene is located on chromosome 1. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Apr 2011]</p> <p>Transcript Variant: This variant (3) lacks an exon in the 5' coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (2) is shorter than isoform 1.</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>