

## Product datasheet for **MC221692**

### **Fgfr3 (NM\_001163217) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Fgfr3 (NM_001163217) 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:** >MC221692 representing NM\_001163217  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGTAGTCCCGCCTGCGTGCTAGTGTCTGCGTGGCGTCTGGCTGGAGCTACTCCGAGCCTCTGT  
 GTCAGAGCAGCGAGTTGTGCGGAGAGCGCAGAGGTTCCAGGGCCTGAACCTAGCCAGCAGGAGCAGGT  
 GGCTTCGGCAGTGGGGACACCGTGGAGCTGAGCTGCCATCCTCCTGGAGGTGCCCCACAGGGCCACG  
 GTCTGGGCTAAGGATGGTACAGGTCTGGTGGCCTCCACCGCATCCTGGTGGGCTCAGAGGCTGCAAG  
 TGCTAAATGCCTCCACGAAGATGCAGGGTCTACAGCTGCCAGCACCAGGCTCACTCGGCGTGTCTGTG  
 CCCTTCAGTGTGCGTGTAAACAGATGCTCCATCCTCAGGAGATGACGAAGATGGGAGGACGTGGCTGAA  
 GACACAGGGGCTCCTTATTGGACTCGCCCGAGCGAATGGATAAGAACTGCTGGCTGTGCCAGCCGCAA  
 AACTGTCCGCTCCGCTGCCAGCTGTGGCAACCTACCCCTCCATCTCCTGGCTGAAGAATGGCAA  
 AGAATTCGAGGGGAGCATCGCATTGGGGCATCAAGCTCCGGCACCAGCAGTGGAGCTTGGTCATGGAA  
 AGTGTGGTACCCTCCGATCGTGGCAACTATACCTGTGTAGTTGAGAACAAGTTTGGCAGCATCCGGCAGA  
 CATAACACTGGATGTGCTGGAGCGCTCCACACCCGGCCATCCTGCAGGCTGGGCTGCCGGCCAAACA  
 GACAGCCATTCTAGGCAGTGACGTGGAGTTCCTGCAAGGTGTACAGCGATGCACAGCCACACATCCAG  
 TGGCTGAAGCAGTGAAGTGAACGGCAGCAAGGTGGGCCCTGACGGCAGCCCTACGCTACTGTACTCA  
 AGTCTGGATCAGTGAGAATGTGGAGGCAGACGACGCTCCGCTGGCCAATGTGTGGAGCGGGACGG  
 GGGCGAGTACCTCTGTCGAGCCACCAATTCATAGGCGTGGCTGAGAAGGCCCTTTGGCTGCGTGTTCAC  
 GGGCCCAAGCAGCTGAGGAGGAGCTGATGAACTGATGAGGCTGGCAGCGTGTACGACAGGCGTCTCA  
 GCTACGGGTGGTCTTCTCCTCTCATCCTGGTGGTGGCAGCTGTGACTCTGCCGCTGCCGAGTGTCC  
 CCCAAAGAAGGGCTTGGGCTCGCCACCGTGCACAAGGTCTCTCGCTTCCCGCTTAAGCGACAGGTGTCC  
 TTGGAATCTAACTCCTCTATGAACTCCAACACACCCCTTGTCCGATTGCCCGGCTGTCTCAGGAGAAG  
 GTCCTGTCTGGCCAATGTTTCTGAACTTGAGTGCCTGCTGACCCCAAGTGGGAGCTATCCAGGACCCG  
 GCTGACACTTGGTAAGCCTCTTGGAGAAGGCTGCTTGGACAGGTGGTCAATGGCAGAAGCTATTGGCATC  
 GACAAGGACCGTACTGCCAAGCCTGTACCCTGGCCGTGAAGATGCTGAAAGATGATGCGACTGACAAGG  
 ACCTGTCGGACCTGGTATCTGAGATGGAGATGATGAAAATGATTGGCAAGCACAAGAATCATTAACCT  
 GCTGGGGCGTGCACACAGGGTGGGCCCTGTATGTGCTGGTGGAGTACGCAGCCAAGGGCAATCTCCGG  
 GAGTTCCTTCGGCGCGCGGCCCTCCAGGCATGGACTACTCCTTTGATGCCTGCAGGCTGCCAGAGGAAC  
 AGCTCACCTGCAAGGATCTAGTGTCTGTGCCTACCAGGTGGCAGGGGCATGGAATACTTGGCTTCTCA  
 GAAGTGTATTACAGAGACTTGGCTGCCAGAAACGTCCTGGTGAAGGAGGACAATGTGATGAAGATTGCG  
 GACTTTGGCCTGGCTCGAGATGTGCACAACCTGGACTACTACAAGAAGACCACAAATGGCCGGCTACCTG  
 TGAAGTGGATGGCACCAGAGGCCCTTTTACCAGTCTACACCCACAGAGTGTGTTTGGTCTTTTGG  
 TGTCTCCTCTGGGAGATCTTACGCTGGGGGGCTCACCGTATCCTGGCATCCAGTGGAAAGAGCTTTTC  
 AAGCTGTTGAAAGAGGGCCACCGCATGGACAAGCCAGCCAGCTGCACACATGACCTGTACATGATCATGC  
 GGAATGTTGGCATGCGGTGCCTTACAGAGGCCACCTTCAAGCAGTTGGTAGAGGATTTAGACCGCAT  
 CCTCACTGTGACATCAACCGACGAGTACTTGGACCTCTCCGTGCCGTTTGGAGTACTCGCCAGGTGGC  
 CAGGACACGCCTAGCTCCAGCTCGTCCGAGATGACTCGGTGTTACCCATGACCTGCTACCCCAAGGTC  
 CACCCAGTAACGGGGACCTCGGAC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_001163217  
**Insert Size:** 2409 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001163217.2</a></u> , <u><a href="#">NP_001156689.1</a></u>
<b>RefSeq Size:</b>	4020 bp
<b>RefSeq ORF:</b>	2409 bp
<b>Locus ID:</b>	14184
<b>Cytogenetics:</b>	5 17.83 cM
<b>Gene Summary:</b>	<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 (4) lacks a coding exon and includes an alternate exon in the coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (3, also known as IIIb) is longer than isoform 1 and includes the IIIb-type C-terminal half of the IgIII domain. The combination of alternative exons and splice sites in the coding region is inferred based on human NM_001163213.1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>