

## Product datasheet for **MC221690**

### **Fgfr3 (NM\_008010) Mouse Untagged Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Fgfr3 (NM_008010) Mouse Untagged Clone                        |
| Tag:                      | Tag Free  |
| Symbol:                   | Fgfr3   |
| Synonyms:                 | CD333; Fgfr-; Fgfr-3; Flg-2; FR3; HBGF; HBGFR; Mfr3; sa; sam3 |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |



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**Fully Sequenced ORF:** >MC221690 representing NM\_008010  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTAGTCCCGCCTGCGTGCTAGTGTCTGCGTGGCGTCTGGCTGGAGCTACTCCGAGCCTCCTG  
 GTCAGAGCAGCGAGTTGTGCGGAGAGCGCAGAGGTTCCAGGGCCTGAACCTAGCCAGCAGGAGCAGGT  
 GGCTTCGGCAGTGGGGACACCGTGGAGCTGAGCTGCCATCCTCCTGGAGGTGCCCCACAGGGCCACG  
 GTCTGGGCTAAGGATGGTACAGGTCTGGTGGCCTCCACCGCATCCTGGTGGGCGCTCAGAGGCTGCAAG  
 TGCTAAATGCCTCCACGAAGATGCAGGGTCTACAGCTGCCAGCACCGGCTCACTCGGCGTGTGCTGTG  
 CCCTTCAGTGTGCGTGTAAACAGATGCTCCATCCTCAGGAGATGACGAAGATGGGAGGACGTGGCTGAA  
 GACACAGGGGCTCCTTATTGGACTCGCCCGAGCGAATGGATAAGAACTGCTGGCTGTGCCAGCCGCAA  
 AACTGTCCGCTCCGCTGCCAGCTGTGGCAACCTACCCCTCCATCTCCTGGCTGAAGAATGGCAA  
 AGAATTCGAGGGGAGCATCGCATTGGGGGCATCAAGCTCCGGCACAGCAGTGGAGCTTGGTCATGGAA  
 AGTGTGGTACCCTCCGATCGTGGCAACTATACCTGTGTAGTTGAGAACAAGTTTGGCAGCATCCGGCAGA  
 CATAACACTGGATGTGCTGGAGCGCTCCACACACCGGCCATCCTGCAGGCTGGGCTGCCGGCCAACCA  
 GACAGCCATTCTAGGCAGTGACGTGGAGTTCCTGCAAGGTGTACAGCGATGCACAGCCACACATCCAG  
 TGGCTGAAGCACGTGGAAGTGAACGGCAGCAAGGTGGGCCTGACGGCACGCCCTACGCTACTGTACTCA  
 AGACTGCAGGGCGTAACACCACCGACAAGGAGCTAGAGGTTCTGTCTTGCAAAATGTCACCTTTGAGGA  
 CGCGGGGAGTACACCTGCCTGGCGGCAATTCTATTGGGTTTTCCATCACTCTGCGTGGCTGGTGGTG  
 CTGCCAGCTGAGGAGGAGCTGATGAAACTGATGAGGCTGGCAGCGTGTACGACAGGCGTCCCTCAGTACC  
 GGTGGTCTTCTCCTTTCATCCTGGTGGTGGCAGCTGTGATACTCTGCCGCTGCGCAGTCCCCAAA  
 GAAGGGCTTGGGCTCGCCACCGTGACAAGGTTCTCTCGCTTCCCGCTTAAGCGACAGGTGTCTTGGAA  
 TCTAACTCCTCTATGAACTCCAACACACCCCTGTCCGGATTGCCCGGCTGTCTCAGGAGAAGGTCTG  
 TTCTGGCCAAATGTTTCTGAACTTGAGCTGCCTGTGACCCCAAGTGGGAGCTATCCAGGACCCGGCTGAC  
 ACTTGGTAAGCCTCTTGAGAAGGCTGCTTGGACAGGTGGTTCATGGCAGAAGCTATTGGCATCGACAAG  
 GACCGTACTGCCAAGCCTGTACCGTGGCCGTGAAGATGCTGAAAGATGATGCGACTGACAAGGACCTGT  
 CGGACCTGGTATCTGAGATGGAGATGATGAAAATGATTGGCAAGCACAAGAATCATTAACTGCTGGG  
 GCGTGCACACAGGTGGGCCCTGTATGTGCTGGTGGAGTACGACGCCAAGGGCAATCTCCGGGAGTTC  
 CTTCCGGGCGGGGCCCTCCAGGCATGGACTACTCTTTGATGCCTGCAGGCTGCCAGAGGAACAGCTCA  
 CCTGCAAGGATCTAGTGTCTGTGCTACCAGGTGGCACGGGCATGGAATACTTGGCTTCTCAGAAGTG  
 TATTACAGAGACTTGGCTGCCAGAAACGTCCTGGTGACCGAGGACAATGTGATGAAGATTGCGGACTTT  
 GGCTGGCTCGAGATGTGCACAACCTGGACTACTACAAGAAGACCACAAATGGCCGGCTACCTGTGAAGT  
 GGATGGCACAGAGGCCCTTTTTGACCGAGTCTACACCCACAGAGTGTGTTGGTCTTTTGGTGTCTCT  
 CCTCTGGGAGATCTTTACGCTGGGGGCTACCGTATCCTGGCATCCCAGTGGAAAGGCTTTTCAAGCTG  
 TTGAAAGAGGGCCACCGCATGGACAAGCCAGCCAGCTGCACACATGACCTGTACATGATCATGCGGGAAT  
 GTTGGCATGCGGTGCCTTACAGAGGCCACCTTCAAGCAGTTGGTAGAGGATTTAGACCGCATCCTCAC  
 TGTGACATCAACCGACGAGTACTTGGACCTCTCCGTGCCGTTTGGCAGTACTCGCCAGGTGGCCAGGAC  
 ACGCCTAGCTCCAGCTCGTCCGGAGATGACTCGGTGTTACCCATGACCTGCTACCCCGAGTCCACCCA  
 GTAACGGGGACCTCGGACGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja3656\\_c03.zip](https://cdn.origene.com/chromatograms/ja3656_c03.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_008010

**Insert Size:** 2403 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>                | <a href="#">NM_008010.5</a> , <a href="#">NP_032036.2</a>   |
| <b>RefSeq Size:</b>           | 4219 bp   |
| <b>RefSeq ORF:</b>            | 2403 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 (1) encodes isoform 1, also known as IIIc, which includes the IIIc-type C-terminal half of the IgIII domain. Variants 1 and 2 encode the same protein.</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> |