

Product datasheet for **MC228968**

Fgfr3 (NM_001205270) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fgfr3 (NM_001205270) 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: >MC228968 representing NM_001205270
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTAGTCCCGCCTGCGTGCTAGTGTCTGCGTGGCGTCTGGCTGGAGCTACTCCGAGCCTCTGT
 GTCAGAGCAGCGAGTTGTGCGGAGAGCGCAGAGGTTCCAGGGCCTGAACCTAGCCAGCAGGAGCAGGT
 GGCTTCGGCAGTGGGGACACCGTGGAGCTGAGCTGCCATCCTCCTGGAGGTGCCCCACAGGGCCACG
 GTCTGGGCTAAGGATGGTACAGGTCTGGTGGCCTCCACCGCATCCTGGTGGGCCTCAGAGGCTCAAG
 TGCTAAATGCCTCCACGAAGATGCAGGGTCTACAGCTGCCAGCACCGGCTCACTCGGCGTGTCTGTG
 CCCTTCAGTGTGCGTGAACAGATGCTCCATCCTCAGGAGATGACGAAGATGGGAGGACGTGGCTGAA
 GACACAGGGGCTCCTTATTGGACTCGCCCGAGCGAATGGATAAGAACTGCTGGCTGTGCCAGCCGCAA
 AACTGTCCGCTCCGCTGCCAGCTGCTGGCAACCTACCCCTCCATCTCCTGGCTGAAGAATGGCAA
 AGAATTCGAGGGGAGCATCGCATTGGGGGCATCAAGCTCCGGCACCAGCAGTGGAGCTTGGTCATGGAA
 AGTGTGGTACCCTCCGATCGTGGCAACTATACCTGTGTAGTTGAGAAAGTTTGGCAGCATCCGGCAGA
 CATAACACTGGATGTGCTGGAGCGCTCCACACCCGGCCATCCTGCAGGCTGGCTGCCGGCCAAACCA
 GACAGCCATTCTAGGCAGTGACGTGGAGTTCCTGCAAGGTGTACAGCGATGCACAGCCACACATCCAG
 TGGCTGAAGCAGCTGGAAGTGAACGGCAGCAAGGTGGGCCTGACGGCAGCCCTACGCTACTGTACTCA
 AGACTGCAGGGCGTAACACCACCGACAAGGAGCTAGAGGTTCTGTCTTGCAAAATGTCACCTTTGAGGA
 CGCGGGGAGTACACCTGCCTGGCGGGCAATTCTATTGGGTTTTCCATCACTCTGCGTGGCTGGTGGT
 CTGCCAGCTGAGGAGGAGCTGATGAAACTGATGAGGCTGGCAGCGTGTACGACAGCGTCCCTCAGTACC
 GGGTGGTCTTCTCCTCCTCATCCTGGTGGTGGCAGCTGTGATACTCTGCCGCTGCGCAGTCCCCAAA
 GAAGGGCTTGGGCTCGCCACCGTGCACAAGGCTCTCGCTTCCCGCTTAAGCGACAGCAGGTGTCCTTG
 GAATCTAACTCCTCTATGAACTCCAACACACCCCTTGTCCGATTGCCCGCTGTCTCAGGAGAAGGTC
 CTGTTCTGGCAAATGTTTCTGAACTTGAGCTGCCTGCTGACCCCAAGTGGGAGCTATCCAGGACCCGGCT
 GACACTTGGTAAGCCTCTTGAGAAAGGCTGCTTTGGACAGGTGGTATGGCAGAAGCTATTGGCATCGAC
 AAGGACCGTACTGCCAAGCCTGTACCGTGGCCGTGAAGATGCTGAAAGATGATGCGACTGACAAGGACC
 TGTCCGACCTGGTATCTGAGATGGAGATGATGAAAATGATTGGCAAGCACAAGAATCATTAACTGCT
 GGGGGCGTGCACACAGGGTGGGCCCTGTATGTGCTGGTGGAGTACGCAGCAAGGGCAATCTCCGGGAG
 TTCTTCCGGCGCGCGCCCTCCAGGCATGGACTACTCCTTTGATGCCTGCAGGCTGCCAGAGGAACAGC
 TCACCTGCAAGGATCTAGTGTCTGTGCCTACCAGGTGGCAGGGGCATGGAATACTTGGCTTCTCAGAA
 GTGATTCACAGAGACTTGGCTGCCAGAAACGTCTGGTGACCGAGGACAATGTGATGAAGATTGCGGAC
 TTTGGCCTGGCTCGAGATGTGCACAACCTGGACTACTACAAGAAGACCACAAATGGCCGGCTACCTGTGA
 AGTGGATGGCACCAGAGGCCCTTTTGGACCGAGTCTACACCCACCAGAGTGTGTTGGTCTTTGGTGT
 CCTCCTCTGGGAGATCTTACGCTGGGGGGCTCACCGTATCCTGGCATCCAGTGGAAAGAGCTTTTCAAG
 CTGTTGAAAGAGGGCCACCGCATGGACAAGCCAGCCAGCTGCACACATGACCTGTACATGATCATGCGGG
 AATGTTGGCATGCGGTGCCTTACAGAGGCCACCTTCAAGCAGTTGGTAGAGGATTTAGACCGCATCCT
 CACTGTGACATCAACCGACGACTTGGACCTCTCCGTGCCGTTTGGAGCAGTACTCGCCAGGTGGCCAG
 GACACGCCCTAGCTCCAGCTCGTCCGGAGATGACTCGGTGTTACCCATGACCTGTACCCCAAGTCCAC
 CCAGTAACGGGGACCTCGGACGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_001205270
Insert Size: 2406 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001205270.1, NP_001192199.1</u>
RefSeq Size:	4222 bp
RefSeq ORF:	2406 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 (5) uses an alternate in-frame splice site in the coding region, compared to variant 1. The encoded isoform (4) is longer than isoform 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>