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Product datasheet for MC221691

Fgfr3 (NM_001163215) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fgfr3 (NM_001163215) 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:

>MC221691 representing NM_001163215
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTAGTCCCGGCCTGCGTGCTAGTGTTCTGCGTGGCGGTCGTGGCTGGAGCTACTTCCGAGCCTCCTG
GTCCAGAGCAGCGAGTTGTGCGGAGAGCGGCAGAGGTTCCAGGGCCTGAACCTAGCCAGCAGGAGCAGGT
GGCCTTCGGCAGTGGGGACACCGTGGAGCTGAGCTGCCATCCTCCTGGAGGTGCCCCCACAGGGCCCACG
GTCTGGGCTAAGGATGGTACAGGTCTGGTGGCCTCCCACCGCATCCTGGTGGGGCCTCAGAGGCTGCAAG
TGCTAAATGCCTCCCACGAAGATGCAGGGGTCTACAGCTGCCAGCACCGGCTCACTCGGCGTGTGCTGTG
CCACTTCAGTGTGCGTGTAACAGATGCTCCATCCTCAGGAGATGACGAAGATGGGGAGGACGTGGCTGAA
GACACAGGGGCTCCTTATTGGACTCGCCCGGAGCGAATGGATAAGAAACTGCTGGCTGTGCCAGCCGCAA
ACACTGTCCGCTTCCGCTGCCCAGCTGCTGGCAACCCTACCCCCTCCATCTCCTGGCTGAAGAATGGCAA
AGAATTCCGAGGGGAGCATCGCATTGGGGGCATCAAGCTCCGGCACCAGCAGTGGAGCTTGGTCATGGAA
AGTGTGGTACCCTCCGATCGTGGCAACTATACCTGTGTAGTTGAGAACAAGTTTGGCAGCATCCGGCAGA
CATACACACTGGATGTGCTGGAGCGCTCCCCACACCGGCCCATCCTGCAGGCTGGGCTGCCGGCCAACCA
GACAGCCATTCTAGGCAGTGACGTGGAGTTCCACTGCAAGGTGTACAGCGATGCACAGCCACACATCCAG
TGGCTGAAGCACGTGGAAGTGAACGGCAGCAAGGTGGGCCCTGACGGCACGCCCTACGTCACTGTACTCA
AGACTGCAGGCGCTAACACCACCGACAAGGAGCTAGAGGTTCTGTCCTTGCACAATGTCACCTTTGAGGA
CGCGGGGGAGTACACCTGCCTGGCGGGCAATTCTATTGGGTTTTCCCATCACTCTGCGTGGCTGGTGGTG
CTGCCAGCTGAGGAGGAGCTGATGGAAACTGATGAGGCTGGCAGCGTGTACGCAGGCGTCCTCAGCTACG
GGGTGGTCTTCTTCCTCTTCATCCTGGTGGTGGCAGCTGTGATACTCTGCCGCCTGCGCAGTCCCCCAAA
GAAGGGCTTGGGCTCGCCCACCGTGCACAAGGTCTCTCGCTTCCCGCTTAAGCGACAGGTGTCCTTGGAA
TCTAACTCCTCTATGAACTCCAACACACCCCTTGTCCGGATTGCCCGGCTGTCCTCAGGAGAAGGTCCTG
TTCTGGCCAATGTTTCTGAACTTGAGCTGCCTGCTGACCCCAAGTGGGAGCTATCCAGGACCCGGCTGAC
ACTTGGTAAGCCTCTTGGAGAAGGCTGCTTTGGACAGGTGGTCATGGCAGAAGCTATTGGCATCGACAAG
GACCGTACTGCCAAGCCTGTCACCGTGGCCGTGAAGATGCTGAAAGATGATGCGACTGACAAGGACCTGT
CGGACCTGGTATCTGAGATGGAGATGATGAAAATGATTGGCAAGCACAAGAACATCATTAACCTGCTGGG
GGCGTGCACACAGGGTGGGCCCCTGTATGTGCTGGTGGAGTACGCAGCCAAGGGCAATCTCCGGGAGTTC
CTTCGGGCGCGGCGGCCTCCAGGCATGGACTACTCCTTTGATGCCTGCAGGCTGCCAGAGGAACAGCTCA
CCTGCAAGGATCTAGTGTCCTGTGCCTACCAGGTGGCACGGGGCATGGAATACTTGGCTTCTCAGAAGTG
TATTCACAGAGACTTGGCTGCCAGAAACGTCCTGGTGACCGAGGACAATGTGATGAAGATTGCGGACTTT
GGCCTGGCTCGAGATGTGCACAACCTGGACTACTACAAGAAGACCACAAATGGCCGGCTACCTGTGAAGT
GGATGGCACCAGAGGCCCTTTTTGACCGAGTCTACACCCACCAGAGTGATGTTTGGTCTTTTGGTGTCCT
CCTCTGGGAGATCTTTACGCTGGGGGGCTCACCGTATCCTGGCATCCCAGTGGAAGAGCTTTTCAAGCTG
TTGAAAGAGGGCCACCGCATGGACAAGCCAGCCAGCTGCACACATGACCTGTACATGATCATGCGGGAAT
GTTGGCATGCGGTGCCTTCACAGAGGCCCACCTTCAAGCAGTTGGTAGAGGATTTAGACCGCATCCTCAC
TGTGACATCAACCGACGAGTACTTGGACCTCTCCGTGCCGTTTGAGCAGTACTCGCCAGGTGGCCAGGAC
ACGCCTAGCTCCAGCTCGTCCGGAGATGACTCGGTGTTCACCCATGACCTGCTACCCCCAGGTCCACCCA
GTAACGGGGGACCTCGGACGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001163215

Insert Size: 2403 bp

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OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
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:	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_001163215.2, NP_001156687.1
RefSeq Size:	4245 bp
RefSeq ORF:	2403 bp
Locus ID:	14184
Cytogenetics:	5 17.83 cM

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Gene Summary: 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]
Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same protein (isoform 1, also known as IIIc), which includes the IIIc-type C-terminal half of the IgIII domain. 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.

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