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Product datasheet for MR226920

Fgfr3 (NM_001163217) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fgfr3 (NM_001163217) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR226920 representing NM_001163217
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTAGTCCCGGCCTGCGTGCTAGTGTTCTGCGTGGCGGTCGTGGCTGGAGCTACTTCCGAGCCTCCTG
GTCCAGAGCAGCGAGTTGTGCGGAGAGCGGCAGAGGTTCCAGGGCCTGAACCTAGCCAGCAGGAGCAGGT
GGCCTTCGGCAGTGGGGACACCGTGGAGCTGAGCTGCCATCCTCCTGGAGGTGCCCCCACAGGGCCCACG
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CCACTTCAGTGTGCGTGTAACAGATGCTCCATCCTCAGGAGATGACGAAGATGGGGAGGACGTGGCTGAA
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GGGCCCCAAGCAGCTGAGGAGGAGCTGATGGAAACTGATGAGGCTGGCAGCGTGTACGCAGGCGTCCTCA
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CAGGACACGCCTAGCTCCAGCTCGTCCGGAGATGACTCGGTGTTCACCCATGACCTGCTACCCCCAGGTC
CACCCAGTAACGGGGGACCTCGGACG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226920 representing NM_001163217
Red=Cloning site Green=Tags(s)

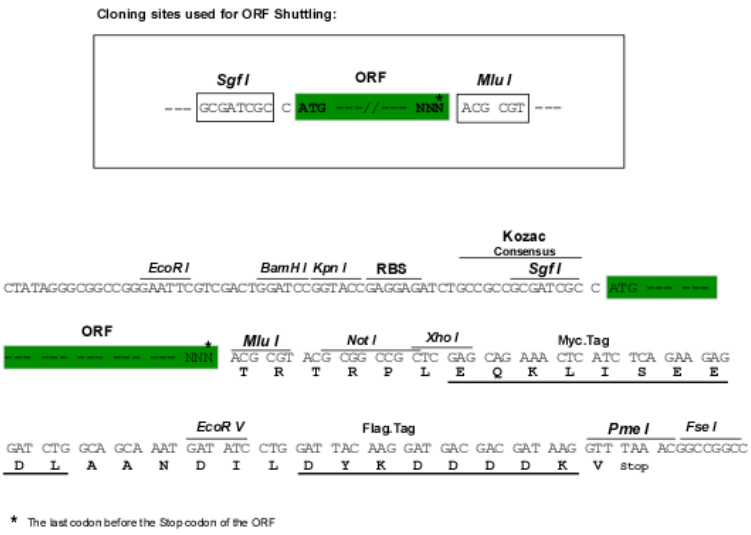
MVVPACVLVFCVAVVAGATSEPPGPEQRVVRRAAEVPGPEPSQQEQVAFGSGDTVELSCHPPGGAPTGPT
VWAKDGTGLVASHRILVGPQRLQVLNASHEDAGVYSCQHRLTRRVLCHFSVRVTDAPSSGDDEDGEDVAE
DTGAPYWTRPERMDKKLLAVPAANTVRFRCPAAGNPTPSISWLKNGKEFRGEHRIGGIKLRHQQWSLVME
SVVPSDRGNYTCVVENKFGSIRQTYTLDVLERSPHRPILQAGLPANQTAILGSDVEFHCKVYSDAQPHIQ
WLKHVEVNGSKVGPDGTPYVTVLKSWISENVEADARLRLANVSERDGGEYLCRATNFIGVAEKAFWLRVH
GPQAAEEELMETDEAGSVYAGVLSYGVVFFLFILVVAAVILCRLRSPPKKGLGSPTVHKVSRFPLKRQVS
LESNSSMNSNTPLVRIARLSSGEGPVLANVSELELPADPKWELSRTRLTLGKPLGEGCFGQVVMAEAIGI
DKDRTAKPVTVAVKMLKDDATDKDLSDLVSEMEMMKMIGKHKNIINLLGACTQGGPLYVLVEYAAKGNLR
EFLRARRPPGMDYSFDACRLPEEQLTCKDLVSCAYQVARGMEYLASQKCIHRDLAARNVLVTEDNVMKIA
DFGLARDVHNLDYYKKTTNGRLPVKWMAPEALFDRVYTHQSDVWSFGVLLWEIFTLGGSPYPGIPVEELF
KLLKEGHRMDKPASCTHDLYMIMRECWHAVPSQRPTFKQLVEDLDRILTVTSTDEYLDLSVPFEQYSPGG
QDTPSSSSSGDDSVFTHDLLPPGPPSNGGPRT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9004_a01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_001163217
ORF Size:	2406 bp
OTI Disclaimer:	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
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001163217.2, NP_001156689.1

RefSeq Size: 4033 bp

RefSeq ORF: 2409 bp

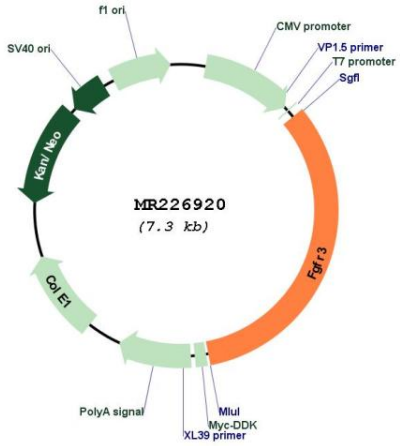
Locus ID: 14184

Cytogenetics: 5 17.83 cM

MW: 88.6 kDa

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]

Product images:



Circular map for MR226920