

Product datasheet for **MR226913**

Fgfr3 (NM_008010) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fgfr3 (NM_008010) 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:

>MR226913 representing NM_008010
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTAGTCCCGCCTGCGTGCTAGTGTCTGCGTGGCGTCTGGCTGGAGCTACTCCGAGCCTCTG
 GTCCAGAGCAGCGAGTTGTGCGGAGAGCGCAGAGGTTCCAGGGCCTGAACCTAGCCAGCAGGAGCAGGT
 GGCTTCCGGCAGTGGGGACACCGTGGAGCTGAGCTGCCATCCTCCTGGAGGTGCCCCACAGGGCCACG
 GTCTGGGTAAGGATGGTACAGGTCTGGTGGCCTCCACCGCATCCTGGTGGGCGCTCAGAGGCTGCAAG
 TGCTAAATGCCTCCACGAAGATGCAGGGTCTACAGCTGCCAGCACCGGCTCACTCGGCGTGTGCTGTG
 CCCTTCACTGTGCGTGTAAACAGATGCTCCATCCTCAGGAGATGACGAAGATGGGAGGACGTGGCTGAA
 GACACAGGGGCTCCTTATTGGACTCGCCCGAGCGAATGGATAAGAACTGCTGGCTGTGCCAGCCGCAA
 AACTGTCCGCTCCGCTGCCAGCTGTGGCAACCTACCCCTCCATCTCCTGGCTGAAGAATGGCAA
 AGAATTCGAGGGGAGCATCGCATTGGGGGCATCAAGCTCCGGCACCAGCAGTGGAGCTTGGTCATGGAA
 AGTGTGGTACCCTCCGATCGTGGCAACTATACCTGTGTAGTTGAGAACAAGTTTGGCAGCATCCGGCAGA
 CATAACACTGGATGTGCTGGAGCGCTCCCCACACCGGCCATCCTGCAGGCTGGGCTGCCGGCCAACCA
 GACAGCCATTCTAGGCAGTGACGTGGAGTTCCTGCAAGGTGTACAGCGATGCACAGCCACACATCCAG
 TGGCTGAAGCAGCTGGAAGTGAACGGCAGCAAGGTGGGCCTGACGGCAGCCCTACGCTACTGTACTCA
 AGACTGCAGGGCGTAACACCACCGACAAGGAGCTAGAGGTTCTGTCTTGCAAAATGTCACCTTTGAGGA
 CGCGGGGAGTACACCTGCCTGGCGGCAATTCTATTGGGTTTCCCATCACTCTGCGTGGCTGGTGGTG
 CTGCCAGCTGAGGAGGAGCTGATGAAACTGATGAGGCTGGCAGCGTGTACGAGGCGTCCCTCAGTACC
 GGTGGTCTTCTCCTTTCATCCTGCTGGTGGCAGCTGTGATACTCTGCCGCTGCGCAGTCCCCAAA
 GAAGGGCTTGGGCTCGCCACCGTGCACAAGGTCTCTCGCTTCCCGCTTAAAGCGACAGGTGCTTGGAA
 TCTAACTCCTCTATGAACTCCAACACACCCCTTGTCCGGATTGCCCGGCTGTCTCAGGAGAAGTCTGT
 TTCTGGCCAAATGTTTCTGAACTTGAGCTGCCTGTGACCCCAAGTGGGAGCTATCCAGGACCCGGCTGAC
 ACTTGGTAAGCCTCTTGGAGAAGGCTGCTTGGACAGGTGGTTCATGGCAGAAGCTATTGGCATCGACAAG
 GACCGTACTGCCAAGCCTGTACCGTGGCCGTGAAGATGCTGAAAGATGATGCGACTGACAAGGACCTGT
 CGGACCTGGTATCTGAGATGGAGATGATGAAAATGATTGGCAAGCACAAGAATCATTAACTGCTGGG
 GCGTGCACACAGGTGGGCCCTGTATGTGCTGGTGGAGTACGCAGCCAAGGGCAATCTCCGGGAGTTC
 CTTCCGGGCGGGCGGCTCCAGGCATGGACTACTCCTTTGATGCCTGCAGGCTGCCAGAGGAACAGCTCA
 CCTGCAAGGATCTAGTGTCTGTGCTACCAGGTGGCAGCGGGCATGGAATACTTGGCTTCTCAGAAGTG
 TATTACAGAGACTTGGCTGCCAGAAACGTCCTGGTGACCGAGGACAATGTGATGAAGATTGCGGACTTT
 GGCTGGCTCGAGATGTGCACAACCTGGACTACTACAAGAAGACCACAAATGGCCGGCTACCTGTGAAGT
 GGATGGCACCAGAGGCCCTTTTTGACCGAGTCTACACCCACAGAGTGTGTTGGTCTTTTGGTGTCTCT
 CCTCTGGGAGATCTTTACGCTGGGGGCTACCGTATCCTGGCATCCAGTGGAAAGGCTTTTCAAGCTG
 TTGAAAGAGGGCCACCGCATGGACAAGCCAGCCAGCTGCACACATGACCTGTACATGATCATGCGGGAAT
 GTTGGCATGCGGTGCCTTACAGAGGCCACCTTCAAGCAGTTGGTAGAGGATTTAGACCGCATCCTCAC
 TGTGACATCAACCGACGAGTACTTGGACCTCTCCGTGCCGTTTGGAGCAGTACTCGCCAGGTGGCCAGGAC
 ACGCCTAGCTCCAGCTCGTCCGGAGATGACTCGGTGTTACCCATGACCTGCTACCCCGAGTCCACCCA
 GTAACGGGGACCTCGGACG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR226913 representing NM_008010
Red=Cloning site Green=Tags(s)

MVVPACVLVFCVAVVAGATSEPPGPEQRVVRRAAEVPGPEPSQQEQVAFGSGDTVELSCHPPGGAPTGPT
VWAKDGTGLVASHRILVGPQRLQVLNASHEDAGVYSCQHRLTRRVLCHF SVRVTDAPSSGDDEDGEDVAE
DTGAPYWTRPERMDKLLAVPAANTVFRFCPAAGNPTPSISWLKNGKEFRGEHRIGGIKLRHQWLSLME
SVVPSDRGNYTCVVENKFGSIRQTYTLDVLEERSPHRPILQAGLPANQTALIGSDVEFHCKVYSDAQPHIQ
WLKHVEVNGSKVGPDPGTPYVTVLKTAGANTTDKELEVL SLHNVT FEDAGEYTCLAGNSIGFSHSAWL VV
LPAAEELMETDEAGSVYAGVLSYGVVFFLFI LVVAAVILCRLRSPPKKGLGSPTVHKVSRFPLKRQVSL E
SNSSMNSNTPLVRIARLSSGEGPVLANVSELELPADPKWELSRTRLTLGKPLGEGCFGQVVM AEAI GIDK
DRTAKPVTVAVKMLKDDATDKDLSDLVSEMEMMKMIGKHKNIINLLGACTQGGPLYVVEYAAKGNLREF
LRARRPPGMDYSFDACRLPEEQLTCKDLVSCAYQVARGMEYLASQKCIHRDLAARNVLTEDNVMKIADF
GLARDVHNL DYYKTTNGRLPVKWM APEALFDRVYTHQSDVWSFGVLLWEIFTLGGSPYPGIPVEELFKL
LKEGHRMDKPASCTHDL YMIMRECWHAVPSQRPTFKQLVEDLDRILTVTSTDEYLDLSVPFEQYSPGGQD
TPSSSSSGDSDVFTHDLLPPGPPSNGGPRT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9031_b01.zip

Restriction Sites: Sgfl-Mlul

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_008010.5](#), [NP_032036.2](#)

RefSeq Size: 4219 bp

RefSeq ORF: 2403 bp

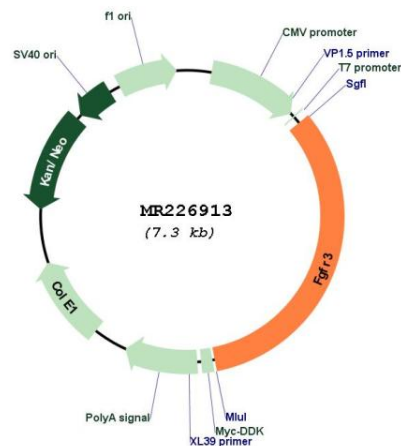
Locus ID: 14184

Cytogenetics: 5 17.83 cM

MW: 88.1 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 MR226913