

## Product datasheet for **MR226918**

### **Fgfr3 (NM\_001163216) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Fgfr3 (NM_001163216) 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:**

>MR226918 representing NM\_001163216  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTAGTCCCGCCTGCGTGCTAGTGTCTGCGTGGCGTCTGGCTGGAGCTACTCCGAGCCTCTG  
 GTCAGAGCAGCGAGTTGTGCGGAGAGCGCAGAGGTTCCAGGGCCTGAACCTAGCCAGCAGGAGCAGG  
 GGCTTCGGCAGTGGGGACACCGTGAGAGCTGAGCTGCCATCCTCCTGGAGGTGCCCCACAGGGCCACG  
 GTCTGGGCTAAGGATGGTACAGGTCTGGTGGCCTCCACCGCATCCTGGTGGGCGCTCAGAGGCTGCAAG  
 TGCTAAATGCCTCCACGAAGATGCAGGGGTCTACAGCTGCCAGCACCGGCTCACTCGGCGTGTGCTGTG  
 CCACCTCAGTGTGCGTGTAAACAGGGCTCCTTATTGGACTCGCCGAGCGAATGGATAAGAAACTGCTG  
 GCTGTGCCAGCCGAAACACTGTCGCTCCGCTGCCAGCTGCTGGCAACCTACCCCTCCATCTCCT  
 GGCTGAAGAATGGCAAAGAATCCGAGGGGAGCATCGATTGGGGCATCAAGCTCCGGCACCAGCAGTG  
 GAGCTTGGTCATGAAAGTGTGGTACCCTCCGATCGTGGCAACTATACCTGTGTAGTTGAGAACAAGTTT  
 GGACAGATCCGGCAGACATACACTGGATGTGCTGGAGCGCTCCACACACCGGCCATCCTGCAGGCTG  
 GGCTGCCGGCCAACCAGACAGCCATTCTAGGCAGTGACGTGGAGTTCCACTGCAAGGTGTACAGCGATGC  
 ACAGCCACACATCCAGTGGCTGAAGCACGTGGAAGTGAACGGCAGCAAGGTGGGCCCTGACGGCAGCCCC  
 TACGCTACTGTACTCAAGACTGCAGGCGCTAACACCACCGACAAGGAGCTAGAGGTTCTGTCTTGCACA  
 ATGTACACCTTTGAGGACGCGGGGAGTACACCTGCCTGGCGGGCAATTCTATTGGGTTTTCCCATCACTC  
 TGCGTGGCTGGTGGTGTGCCAGCTGAGGAGGAGCTGATGGAACTGATGAGGCTGGCAGCGTGTACGCA  
 GCGCTCCTCAGCTACGGGGTGGTCTTCTCCTCTCATCCTGGTGGTGGCAGCTGTGATACTCTGCCGCC  
 TGCCGAGTCCCCAAAGAAGGGTTGGGCTCGCCACCGTGCACAAGGTCTCTCGCTTCCCGCTTAAGCG  
 ACAGGTGTCTTGAATCTAACTCCTCTATGAACCTCAACACACCCCTTGTCCGGATTGCCCGGCTGTCC  
 TCAGGAGAAGGTCTGTTCTGGCCAATGTTTCTGAACTTGAGCTGCCTGTGACCCCAAGTGGGAGCTAT  
 CCAGGACCCGGCTGACACTTGGTAAGCCTCTTGGAGAAGGCTGCTTGGACAGGTGGTATGGCAGAAGC  
 TATTGGCATCGACAAGGACCGTACTGCCAAGCCTGTCACCGTGGCCGTGAAGATGCTGAAAGATGATGCG  
 ACTGACAAGGACCTGTCGGACCTGGTATCTGAGATGGAGATGATGAAAATGATTGGCAAGCACAAGAACA  
 TCATTAACCTGCTGGGGCGTGCACACAGGGTGGGCCCTGTATGTGCTGGTGGAGTACGCAGCCAAGGG  
 CAATCTCCGGGAGTTCTTCGGGCGGGCGGCCCTCCAGGCATGGACTACTCCTTTGATGCCTGCAGGCTG  
 CCAGAGGAACAGCTCACCTGCAAGGATCTAGTGTCTGTGCCTACCAGGTGGCACGGGGCATGGAATACT  
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 GAAGATTGCGGACTTTGGCCTGGCTCGAGATGTGCACAACCTGGACTACTACAAGAAGACCACAAATGGC  
 CGGCTACCTGTGAAGTGGATGGCACCAGAGGCCCTTTTTGACCGAGTCTACACCCACCAGAGTGTGTTT  
 GGTCTTTTGGTGTCTCCTCTGAGAGATCTTTACGCTGGGGGGCTCACCGTATCCTGGCATCCCAGTGGA  
 AGAGCTTTTCAAGCTGTTGAAAGAGGGCCACCGCATGGACAAGCCAGCCAGCTGCACACATGACCTGTAC  
 ATGATCATGCGGGAATGTTGGCATGCGGTGCCTTACAGAGGCCACCTCAAGCAGTTGGTAGAGGATT  
 TAGACCGCATCCTCACTGTGACATCAACCGACGAGTACTTGGACCTCTCCGTGCCGTTTGGAGCAGTACTC  
 GCCAGGTGGCCAGGACACGCCTAGCTCCAGCTCGTCCGGAGATGACTCGGTGTTACCCATGACCTGCTA  
 CCCCAGGTCCACCCAGTAACGGGGGACCTCGGACG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR226918 representing NM\_001163216  
 Red=Cloning site Green=Tags(s)

```
MVVPACVLVFCVAVVAGATSEPPGPEQRVVRRAAEVPGPEPSQQEQVAFGSGDTVELSCHPPGGAPTGPT
VWAKDGTGLVASHRILVGPQRLQVLNASHEDAGVYSCQHRLTRRVLCHF SVRVTGAPYWTRPERMDKLL
AVPAANTVRFRCPAAGNPTPSISWLKNGKEFRGEHRIGGIKLRHQWVSLVMESVVPSDRGNYTCVENKF
GSIRQTYTLDVLESPHRPILQAGLPANQTAILGSDVEFHCKVYSDAQPHIQWLKHVEVNGSKVGPDPGTP
YVTVLKTAGANTTDCLEVL SLHNVT FEDAGEYTCLAGNSIGF SHHSAWL VVLP AEEELMETDEAGSVYA
GVL SYGVVFFL F ILVVA AVILCRLRSPPKKGLGSPTVHKVSRFPLKRQVSL ESNSMNSNTPLVRIARLS
SGEGPVL ANVSELELPADPKWELSRTRL TLGKPLGEGCFGQVVM AE AIGIDKDR T AKPVT VAVKMLKDDA
TDKDLSDLVSEMEMMKMIGKHKNI INLLGACTQGGPLYV LVEYAAKGNLREFLRARRPPGMDYSFDACRL
PEEQLTCKDLVSCAYQVARGMEYLA SQKCIHRDLAARNVLVTEDNVMKIADFG LARDVHNL DYYKTTNG
RLPVKWM APEALFDRVYTHQSDVWSFGVLLWEIF TLGGSPYGP I PVEELFKLLKEGHRMDK PASCTHDLY
MIMRECWHAVPSQRPTFKQLVEDLDRIL TVTSTDEYLDL SVPFEQYSPGGQDTPSSSSSGDSDSVF THDLL
PPGPPSNGGPRT
```

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_001163216

**ORF Size:** 2346 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\\_001163216.2](#), [NP\\_001156688.1](#)

**RefSeq Size:** 3973 bp

**RefSeq ORF:** 2349 bp

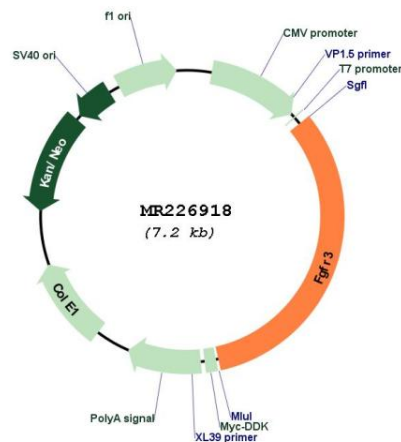
**Locus ID:** 14184

**Cytogenetics:** 5 17.83 cM

**MW:** 86.3 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 MR226918