

## Product datasheet for **MG226918**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Fgfr3 (NM_001163216) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fgfr3
Synonyms:	CD333; Fgfr-; Fgfr-3; Flg-2; FR3; HBGF; HBGFR; Mfr3; sa; sam3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG226918 representing NM\_001163216  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTAGTCCCGCCTGCGTGCTAGTGTTCTGCGTGGCGGTCGTGGCTGGAGCTACTCCGAGCCTCTG  
 GTCAGAGCAGCGAGTTGTGCGGAGAGCGCAGAGGTTCCAGGGCCTGAACCTAGCCAGCAGGAGCAGGT  
 GGCTTCCGGCAGTGGGGACACCGTGGAGCTGAGCTGCCATCCTCCTGGAGGTGCCCCACAGGGCCACG  
 GTCTGGGCTAAGGATGGTACAGGTCTGGTGGCCTCCACCGCATCCTGGTGGGCGCTCAGAGGCTGCAAG  
 TGCTAAATGCCTCCACGAAGATGCAGGGGTCTACAGCTGCCAGCACCGGCTCACTCGGCGTGTGCTGTG  
 CCACCTCAGTGTGCGTGTAAACAGGGGCTCCTTATTGGACTCGCCCGAGCGAATGGATAAGAAACTGCTG  
 GCTGTGCCAGCCGAAACACTGTCGCTCCGCTGCCAGCTGCTGGCAACCCTACCCCTCCATCTCCT  
 GGCTGAAGAATGGCAAAGAATCCGAGGGGAGCATCGATTGGGGCATCAAGCTCCGGCACCAGCAGTG  
 GAGCTTGGTCATGGAAAGTGTGGTACCCTCCGATCGTGGCAACTATACCTGTGTAGTTGAGAAACAAGTTT  
 GGCAAGATCCGGCAGACATACACTGGATGTGCTGGAGCGCTCCACACACCGGCCATCCTGCAGGCTG  
 GGCTGCCGGCCAACCAGACAGCCATTCTAGGCAGTGACGTGGAGTTCACCTGCAAGGTGTACAGCGATGC  
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 TGCGTGGCTGGTGGTGTGCCAGCTGAGGAGGAGCTGATGGAACTGATGAGGCTGGCAGCGTGTACGCA  
 GCGCTCCTCAGCTACGGGGTGGTCTTCTCCTCTCATCCTGGTGGTGGCAGCTGTGATACTCTGCCGCC  
 TGCCGAGTCCCCAAAGAAGGGCTTGGGCTCGCCACCGTGCACAAGGTCTCTCGCTTCCCGCTTAAGCG  
 ACAGGTGTCTTGAATCTAACTCCTCTATGAACCTCAACACACCCCTTGTCCGGATTGCCCGGCTGTCC  
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 CCAGGACCCGGCTGACACTTGGTAAGCCTCTTGGAGAAGGCTGCTTGGACAGGTGGTATGGCAGAAGC  
 TATTGGCATCGACAAGGACCGTACTGCCAAGCCTGTCACCGTGGCCGTGAAGATGCTGAAAGATGATGCG  
 ACTGACAAGGACCTGTCGGACCTGGTATCTGAGATGGAGATGATGAAAATGATTGGCAAGCACAAGAACA  
 TCATTAACCTGCTGGGGCGTGCACACAGGGTGGGCCCTGTATGTGCTGGTGGAGTACGCAGCCAAGGG  
 CAATCTCCGGGAGTTCCTTCGGGCGGGCGCCCTCCAGGCATGGACTACTCCTTTGATGCCTGCAGGCTG  
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 GAAGATTGCGGACTTTGGCTGGCTCGAGATGTGACAACCTGGACTACTACAAGAAGACCACAAATGGC  
 CGGCTACCTGTGAAGTGGATGGCACCAGAGGCCCTTTTTGACCGAGTCTACACCCACCAGAGTGTGTTT  
 GGTCTTTTGGTGTCTCCTCTGAGGATCTTTACGCTGGGGGGCTCACCGTATCCTGGCATCCCAGTGGAA  
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 TAGACCGCATCCTCACTGTGACATCAACCGACGAGTACTTGGACCTCTCCGTGCCGTTTGGAGCAGTACTC  
 GCCAGGTGGCCAGGACACGCCTAGCTCCAGCTCGTCCGGAGATGACTCGGTGTTACCCATGACCTGCTA  
 CCCCAGGTCCACCCAGTAACGGGGGACCTCGGACG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG226918 representing NM\_001163216  
 Red=Cloning site Green=Tags(s)

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MVVPACVLVFCVAVVAGATSEPPGPEQRVVRRAAEVPGPEPSQQEQVAFGSGDVELSCHPPGGAPTGT
VWAKDGTGLVASHRILVGPORLQVLNASHEDAGVYSCQHRLTRRVLCHF SVRVTGAPYWTRPERMDKLL
AVPAANTVRFRCPAAGNPTPSISWLKNGKEFRGEHRIGGIKLRHQQWSL VMESVVPSDRGN YTCVENKF
GSIRQTYTL DVLERSPHRPILQAGLPANQTAILGSDVEFHCKVYSDAQPHIQWLKHVEVNGSKVGPDPGP
YVTVLKTAGANTTDKELEVL SLHNVT FEDAGEYTCLAGNSIGF SHHSAWLVVLP AEELMETDEAGSVYA
GVL SYGVVFFL I LVVAAVILCRLRSPPKKGLGSPTVHKVSRFPLKRQVLSLESNSMNSNTPLVRIARLS
SGEGPVLANVSELELPADPKWELSRTRL TLGKPLGEGCFQVVM AE AIGIDKDR T AKPVT VAVKMLKDDA
TDKDLSDLVSEMEMMKMIGKHKNI INLLGACTQGGPLYV LVEYAAKGNLREFLRARRPPGMDYSFDACRL
PEEQLTCKDLVSCAYQVARGMEYLASQKCIHRDLAARNVLTEDNVMKIADFLARDVHNL DYYKKTNG
RLPVKWM APEALFDRVYTHQSDVWSFGVLLWEIF TLGGSPYGP I PVEELFKLLKEGHRMDK PASCTHDLY
MIMRECWHAVPSQRPTFKQLVEDLDRIL TVTSTDEYLDL SVPFEQYSPGGQDTPSSSSSGDSDSVF THDLL
PPGPPSNGGPRT
  
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001163216

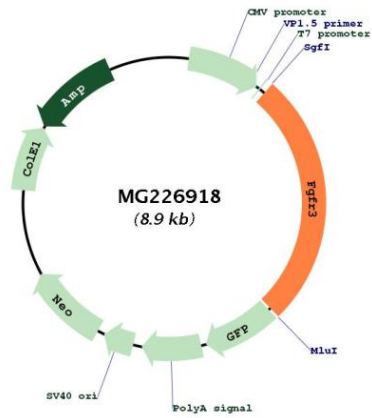
**ORF Size:** 2346 bp

**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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001163216.2, NP_001156688.1</u>
<b>RefSeq Size:</b>	3973 bp
<b>RefSeq ORF:</b>	2349 bp
<b>Locus ID:</b>	14184
<b>Cytogenetics:</b>	5 17.83 cM
<b>Gene Summary:</b>	<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>

Product images:



Circular map for MG226918