

Product datasheet for **MG225709**

Fgfr1 (NM_001079908) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fgfr1 (NM_001079908) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fgfr1
Synonyms:	AW208770; bFGF-R-1; c-fgr; Eask; Fgfr-1; FGFR-I; FLG; Flt-2; Hspy; MFR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG225709 representing NM_001079908
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGGGGCTGGAAGTGCCTCCTCTTCTGGGCTGTGCTGGTACAGCCACTCTCTGCACTGCCAGGCCAG
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 TCTCTCATGAGCCGTTACCTGAGGAGCCCTGTCTGCCTCGACACCCACCCAGCTTGCCAACAGTGGACT
 CAAACGGCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG225709 representing NM_001079908
 Red=Cloning site Green=Tags(s)

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MWGWKCLLFWAVLVTATLCTARPAPTLPEQAQPWGVPEVESLLVHPGDLLQLRCRLRDDVQSINWLRDG
VQLVESNRTRITGEEVEVRDSIPADSGLYACVTSSPSGSDTTYFSVNVSDALPSEDDDDDDSSSEEKE
TDNTKPNPVAPYWTSPEKMEKKLHAVPAAKTVKFKCPSSGTPNPTLRWLKNGKEFKPDHRIGGYKVRAT
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PQPHIQWLKHIEVNGSKI GPDNLPYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCLAGNSIGLSHH
SAWLTVLEALEERPAVMTSPLYLEIIYCTGAFLISCM LGSVIIYKMKSGTKKSDFHSQMAVHKLAKSIP
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YASKGNLREYLQARRPPGLECYNPSHNPEEQ LSSKDLVSCAYQVARGMEYLASKKCIHRDLAARNVLT
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GVPVEELFKLLKEGHRMDKPSNCTNELYMMMRDCWHAVPSQRPTFKQLVEDLDRIVALTSNQEYLDLSIP
LDQYSPSPDTRSTCSSGEDSVFSHEPLPEEPCLPRHPTQLANSGLKRR
  
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TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

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_001079908.1](#), [NP_001073377.1](#)

RefSeq Size: 5002 bp

RefSeq ORF: 2463 bp

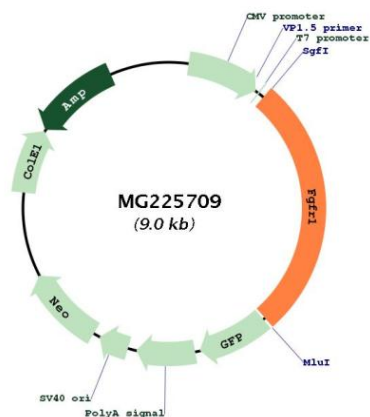
Locus ID: 14182

UniProt ID: [P16092](#)

Cytogenetics: 8 14.12 cM

Gene Summary: Tyrosine-protein kinase that acts as cell-surface receptor for fibroblast growth factors and plays an essential role in the regulation of embryonic development, cell proliferation, differentiation and migration. Required for normal mesoderm patterning and correct axial organization during embryonic development, normal skeletogenesis and normal development of the gonadotropin-releasing hormone (GnRH) neuronal system. Phosphorylates PLCG1, FRS2, GAB1 and SHB. Ligand binding leads to the activation of several signaling cascades. Activation of PLCG1 leads to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5-trisphosphate. Phosphorylation of FRS2 triggers recruitment of GRB2, GAB1, PIK3R1 and SOS1, and mediates activation of RAS, MAPK1/ERK2, MAPK3/ERK1 and the MAP kinase signaling pathway, as well as of the AKT1 signaling pathway. Promotes phosphorylation of SHC1, STAT1 and PTPN11/SHP2. In the nucleus, enhances RPS6KA1 and CREB1 activity and contributes to the regulation of transcription. FGFR1 signaling is down-regulated by IL17RD/SEF, and by FGFR1 ubiquitination, internalization and degradation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG225709