

## Product datasheet for **RG210242**

### FGF9 (NM\_002010) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** FGF9 (NM\_002010) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** FGF9  
**Synonyms:** FGF-9; GAF; HBFG-9; HBGF-9; SYNS3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG210242 representing NM\_002010  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTCCCTTAGGTGAAGTTGGGAACATTTTCGGTGTGCAGGATGCGGTACCGTTTGGGAATGTGCCCC  
 TGTTGCCGGTGGACAGCCCGTTTTGTTAAGTGACCACCTGGGTCAGTCCGAAGCAGGGGGCTCCCCAG  
 GGGACCCGAGTCACGGACTTGGATCATTTAAAGGGGATTCTCAGGCGGAGGCAGCTATACTGCAGGACT  
 GGATTTCACTTAGAAATCTTCCCAATGGTACTATCCAGGGAACAGGAAAGACCACAGCCGATTTGGCA  
 TTCTGGAATTTATCAGTATAGCAGTGGGCTGGTCAGCATTGAGGCGTGGACAGTGGACTCTACCTCGG  
 GATGAATGAGAAGGGGAGCTGTATGGATCAGAAAACTAACCAAGAGTGTGTATTAGAGAACAGTTC  
 GAAGAAACTGGTATAATACGTACTCGTCAAACTATATAAGCACGTGGACACTGGAAGGCGATACTATG  
 TTGCATTAATAAAGATGGGACCCCGAGAGAAGGGACTAGGACTAAACGGCACCAGAAATTCACACATTT  
 TTTACCTAGACAGTGGACCCCGACAAAGTACCTGAAGTGTATAAGGATATTCTAAGCCAAAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG210242 representing NM\_002010  
 Red=Cloning site Green=Tags(s)

MAPLGEVGNVFGVQDAVPFGNVPVLPVDSPVLLSDHLGQSEAGGLPRGPAVTDLDHLKGILRRRQLYCRT  
 GFHLEIFPNGTIQGRKDHRSRGILEFISIAVGLVSIKGVDSGLYLGMEKGEKLYGSEKLTQECVFREQF  
 EENWYNTYSSNLYKHVDTGRRYYVALNKDGTREGTRTKRHQKFTHFLRPVDPDKVPELYKDILSQS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_002010

**ORF Size:** 624 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_002010.1](#), [NP\\_002001.1](#)

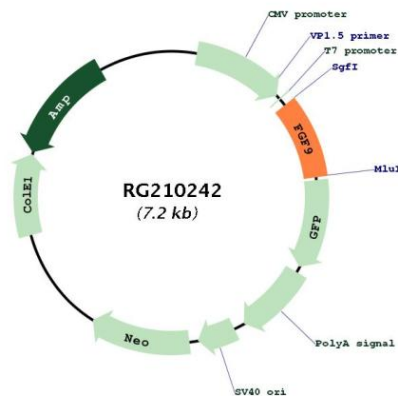
**RefSeq Size:** 1420 bp

**RefSeq ORF:** 627 bp

**Locus ID:** 2254

UniProt ID:	<a href="#">P31371</a>
Cytogenetics:	13q12.11
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton
Gene Summary:	The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This protein was isolated as a secreted factor that exhibits a growth-stimulating effect on cultured glial cells. In nervous system, this protein is produced mainly by neurons and may be important for glial cell development. Expression of the mouse homolog of this gene was found to be dependent on Sonic hedgehog (Shh) signaling. Mice lacking the homolog gene displayed a male-to-female sex reversal phenotype, which suggested a role in testicular embryogenesis. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG210242