

## Product datasheet for **RG219847**

### FGF14 (NM\_175929) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FGF14 (NM_175929) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FGF14
Synonyms:	FGF-14; FHF-4; FHF4; SCA27
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219847 representing NM_175929 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTAAAACCGGTGCCCTCTTCAGGAGAACTGATTTCAAATTATTATTATGCAACCACAAGGATCTCT  
TCTTTCTCAGGGTGTCTAAGCTGCTGGATTGCTTTTCGCCAAATCAATGTGGTTTCTTTGGAACATTTT  
CAGCAAAGGAACGCATATGCTGCAGTGTCTTTGTGGCAAGAGTCTTAAGAAAAACAAGAACCAACTGAT  
CCCCAGCTCAAGGGTATAGTGACCAGGTTATATTGCAGGCAAGGCTACTACTTGCAAATGCACCCCGATG  
GAGCTCTCGATGGAACCAAGGATGACAGCACTAATTCTACTCTTCAACCTCATACCAGTGGGACTACG  
TGTTGTTGCCATCCAGGGAGTGAAAACAGGGTTGTATATAGCCATGAATGGAGAAGGTTACTCTACCCA  
TCAGAACTTTTTACCCCTGAATGCAAGTTTAAAGAATCTGTTTTTAAAAATTATTATGTAATCTACTCAT  
CCATGTTGTACAGACAACAGGAATCTGGTAGAGCCTGGTTTTTGGGATTAATAAGGAAGGGCAAGCTAT  
GAAAGGGAACAGAGTAAAGAAAACCAACCAGCAGCTCATTTTCTACCCAAGCCATTGGAAGTTGCCATG  
TACCGAGAACCATCTTTGCATGATGTTGGGAAACGGTCCCGAAGCCTGGGGTGACGCCAAGTAAAAAGCA  
CAAGTGCGTCTGCAATAATGAATGGAGGCAAACCAAGTCAACAAGAGTAAGACAACA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG219847 representing NM\_175929  
Red=Cloning site Green=Tags(s)

MVKPVPLFRRTDFKLLCNHKDLFFLRVSKLLDCFSPKSMWFLWNIFSKGTHMLQCLCGKSLKKNKNPTD  
 PQLKGIIVRLYCRQGYLQMHPDGDGTDKDDSTNSTLFNLIPVGLRVVAIQGVKTGLYIAMNGEGYLYP  
 SELFTPECKFKESVFENYVYIYSSMLYRQQESGRAWFLGLNKEGQAMKGNRVKKT KPAAHFLPKPLEVAM  
 YREPSLHDVGETVPKPGVTPSKSTSASAIMNGGKPVNKS KTT

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_175929

**ORF Size:** 756 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\\_175929.3](#)

**RefSeq Size:** 1001 bp

**RefSeq ORF:** 759 bp

**Locus ID:** 2259

**UniProt ID:** [Q92915](#)

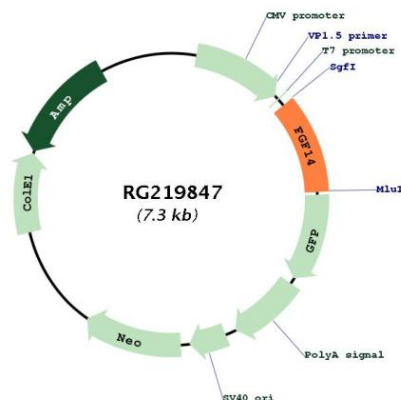
**Cytogenetics:** 13q33.1

**Protein Families:** 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. A mutation in this gene is associated with autosomal dominant cerebral ataxia. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG219847