

## Product datasheet for **RG227498**

### FGF13 (NM\_001139500) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FGF13 (NM_001139500) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FGF13
Synonyms:	DEE90; FGF-13; FGF2; FHF-2; FHF2; LINC00889
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG227498 representing NM_001139500 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTGGAAAGGTGACCAAGCCAAAGAGGAGAAAGATGCTTCTAAGTTCTGGATGACGCCCCCCTG  
GCACACAGGAATACATTATGTTACGACAAGATTCCATCCAATCTGCGGAATTAAGAAAAAGAGTCCCC  
CTTTCGTGCTAAGTGTACGAAATCTTCTGCTGCCCGCTGAAGCAAGTACACCACAAAGAGAACACAGAG  
CCGGAAGAGCCTCAGCTAAGGGTATAGTTACCAAGCTATACAGCCGACAAGGCTACCACTTGCAGCTGC  
AGGCGGATGGAACCATTTGATGGACCAAAGATGAGGACAGCACTTACACTCTGTTAACCTCATCCCTGT  
GGGTCTGCGAGTGGTGGCTATCCAAGGAGTTCAAACCAAGCTGTACTTGGCAATGAACAGTGAGGGATAC  
TTGTACACCTCGGAACTTTTACACCTGAGTGCAAATTCAAAGAATCAGTGTGTTGAAAATTATTATGTGA  
CATATTCATCAATGATATACCGTCAGCAGCAGTCAGGCCGAGGGTGGTATCTGGGTCTGAACAAAGAAGG  
AGAGATCATGAAAGGCAACCATGTGAAGAAGAACAAGCCTGCAGCTCATTTTCTGCCTAAACCACTGAAA  
GTGGCCATGTACAAGGAGCCATCACTGCACGATCTCACGGAGTTCTCCGATCTGGAAGCGGGACCCCAA  
CCAAGAGCAGAAGTGTCTCTGGCGTGCTGAACGGAGGCAAATCCATGAGCCACAATGAATCAACG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG227498 representing NM\_001139500  
Red=Cloning site Green=Tags(s)

MSGKVTKPKEEKDASKVLDDAPPGTQEYIMLRQDSIQSIELKKKESPFRAKCHEIFCCPLKQVHHKENTE  
 PEEPQLKGI VTKLYSRQGYHLQLQADGTIDGTDKEDSTYTLFNLIPVGLRVVAIQGVQTKLYLAMNSEGY  
 LYTSELF TPECKFKESVFENYYV TYSSMIYRQQSQSGRWYLG LNKKEGEMKGNHVKKNKPAAHFLPKPLK  
 VAMYKEPSLHDL TEF SRSGSGTPTKSRSVSGVLNGGKSMHNEST

TRTRPLE - GFP Tag - V

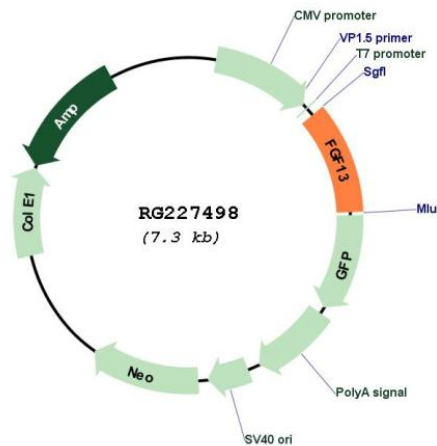
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_001139500

**ORF Size:** 765 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_001139500.2](#)

**RefSeq Size:** 2340 bp

**RefSeq ORF:** 768 bp

**Locus ID:** 2258

**UniProt ID:** [Q92913](#)

**Cytogenetics:** Xq26.3-q27.1

**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. This gene is located in a region on chromosome X, which is associated with Borjeson-Forssman-Lehmann syndrome (BFLS), making it a possible candidate gene for familial cases of the BFLS, and for other syndromal and nonspecific forms of X-linked cognitive disability mapping to this region. Alternative splicing of this gene at the 5' end results in several transcript variants encoding different isoforms with different N-termini. [provided by RefSeq, Nov 2008]