

## Product datasheet for **RN210949**

### **Fgf23 (NM\_130754) Rat Untagged Clone**

#### Product data:

Product Type: Expression Plasmids  
Product Name: Fgf23 (NM\_130754) Rat Untagged Clone  
Tag: Tag Free  
Symbol: Fgf23  
Mammalian Cell Selection: Neomycin  
Vector: pCMV6-Entry (PS100001)  
E. coli Selection: Kanamycin (25 ug/mL)  
Fully Sequenced ORF: >RN210949 representing NM\_130754  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTGGGGGCTGCCTCAGACTCCTGGTGGGCGCTCTGTGCACCGTCTGCAGCTTGGGCACTGCTAGAG  
CCTATTCAGACACTTCCCCTACTGGCTCCTCAACTGGGGAGCCTGACCCACCTGTACACAGCTACAGC  
CAGGAACAGCTATCACCTACAGATCCATAGGGATGGCCATGTAGACGGAACACCCCATCAGACTATCTAC  
AGTGCCCTGATGATCACATCAGAGGATGCTGGCTCCGTAGTGATAATAGGGCCATGACCAGAAGGTTCC  
TTTGTATGGATCTCCGCGCAACATTTTGGATCGTATCACTTCAGCCCGGAGAAGTGCAGATTCCGCCA  
GTGGACGCTAGAGAACGGCTACGACGTCTACCTGTCACCGAAGCATCACTACCTGGTGAAGTTGGGCGC  
TCCAAGCGCATCTTCCAGCCCGGTACCAACCCGCGCCCTTCTCGCAGTTCTGGCGCGCAGGAACGAGG  
TCCCGTCTGCACTTCTACACCGCGCGCCACGGCGCCACACGCGCAGCGCCGAGGACCCGCCGAGCG  
CGACCCGCTGAATGTGCTCAAGCCGCGGCCCGCGCTACTCCCATACCGGTATCTGCTCGCGAGAGCTA  
CCGAGTGCAGAGGAAGTGGCCCGCGGCCAGCGACCCCTGGGAGTGTGCGCAGAGGCCCGGGGATG  
CTCGCCGGGGCGGGAGGCACGGATCGGTGTCGCCCTTCCAGGTTCTGCTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: [https://cdn.origene.com/chromatograms/ja1798\\_g07.zip](https://cdn.origene.com/chromatograms/ja1798_g07.zip)  
Restriction Sites: SgfI-MluI  
ACCN: NM\_130754  
Insert Size: 756 bp



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**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.

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_130754.1](#), [NP\\_570110.1](#)

**RefSeq Size:** 756 bp

**RefSeq ORF:** 756 bp

**Locus ID:** 170583

**UniProt ID:** [Q8VI82](#)

**Cytogenetics:** 4q42

**Gene Summary:** Regulator of phosphate homeostasis (By similarity). Inhibits renal tubular phosphate transport by reducing SLC34A1 levels (By similarity). Regulator of vitamin-D metabolism (By similarity). Negatively regulates osteoblasts differentiation and matrix mineralization (By similarity). Acts directly on the parathyroid to decrease PTH secretion. Upregulates EGR1 expression in the presence of KL.[UniProtKB/Swiss-Prot Function]