

Product datasheet for RR210949

Fgf23 (NM_130754) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fgf23 (NM_130754) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fgf23
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR210949 representing NM_130754 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGGGGCCTGCCTCAGACTCCTGGTGGGCGCTCTGTGCACCGTCTGCAGCTTGGGCACTGCTAGAG
CCTATTCAGACTTCCCCTGCTTGGCTCCAAGTGGGGAGCCTGACCCACCTGTACACAGCTACAGC
CAGGAACAGCTATCACCTACAGATCCATAGGGATGGCCATGTAGACGGAACACCCATCAGACTATCTAC
AGTGCCCTGATGATCACATCAGAGGATGCTGGCTCCGTAGTGATAATAGGGGCCATGACCAGAAGGTTCC
TTTGTATGGATCTCCGCGCAACATTTTGGATCGTATCACTTCAGCCCGGAGAAGTGCAGATTCCGCCA
GTGGACGCTAGAGAACGGCTACGACGTCTACCTGTCACCGAAGCATCACTACCTGGTGAGCTTGGGCGC
TCCAAGCGCATCTTCCAGCCCGGTACCAACCCGCGCCCTTCTCGCAGTTCTGGCGCGCAGGAACGAGG
TCCCGTGTGCACTTCTACACCGCGCGCCACGGCGCCACACGCGCAGCGCCGAGGACCCGCCGAGCG
CGACCCGCTGAATGTGCTCAAGCCGCGGCCCGCGCTACTCCCATACCGGTATCTGCTCGCGAGAGCTA
CCGAGTGCAGAGGAAGGTGGCCCGCGCCAGCGACCCCTGGGAGTGTGCGCAGAGGCCGCGGGGATG
CTCGCCGGGGCGGGGAGGCACGGATCGGTGTCGCCCCTTCCAGGTTTCGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR210949 representing NM_130754
Red=Cloning site Green=Tags(s)

MLGACLRLLVGALCTVCSLGTARAYSDTSPLLGSNWGSLTHLYTATARNSYHLQIHRDGHVDGTPHQTIY
 SALMITSEDAGSVVIIGAMTRRFLCMDLRGNIFGSYHFSPEACRFRQWTLKNGYDYYLSPKHYYL VSLGR
 SKRIFQPGTNPFPFSQFLARRNEVPLLHFYTARPRRHRSAEDPPERDPLNLKPRPRATPIPVSRSREL
 PSAAEEGPAASDPLGVLRRGRGDARRGAGGTDRCPFFPRFV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_130754

ORF Size: 753 bp

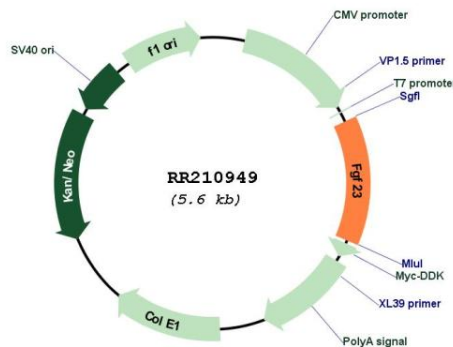
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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 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:	<ol style="list-style-type: none"> 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:	<u>NM_130754.1</u> , <u>NP_570110.1</u>
RefSeq Size:	756 bp
RefSeq ORF:	756 bp
Locus ID:	170583
UniProt ID:	<u>Q8VI82</u>
Cytogenetics:	4q42
MW:	27.9 kDa
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]

Product images:



Circular map for RR210949