

Product datasheet for **MG227482**

Fgf23 (NM_022657) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fgf23 (NM_022657) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Fgf23
Synonyms: Fgf8b
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG227482 representing NM_022657
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTAGGGACCTGCCTTAGACTCCTGGTGGGCGCGCTCTGCACTGTCTGCAGCTTGGGCACTGCTAGAG
CCTATCCAGACACTTCCCATTGCTTGGCTCCAAGTGGGAAGCCTGACCCACCTGTACACGGCTACAGC
CAGGACCAGCTATCACCTACAGATCCATAGGGATGGTCATGTAGATGGCACCCCCATCAGACCATCTAC
AGTGCCCTGATGATTACATCAGAGGACCGCGCTCTGTGGTGATAACAGGAGCCATGACTCGAAGTTCC
TTTGTATGGATCTCCACGGCAACATTTTGGATCGCTTCACTTCAGCCCAGAGAATTGCAAGTTCCGCCA
GTGGACGCTGGAGAATGGCTATGACGTCTACTTGTGCGAGAAGCATCACTACCTGGTGGAGCTGGGCGCG
GCCAAGCGCATCTTCCAGCCGGGCACCAACCCGCGCCCTTCTCCAGTTCTGGCGCGCAGGAACGAGG
TCCCGTCTGCACTTCTACTGTTTCGCCCACGGCGCCACACGCGCAGCGCCGAGGACCCACCCGAGCG
CGACCCACTGAACGTGCTCAAGCCGCGGCCCGCCACGCGCTGTGCCTGTATCCTGCTCTCGCGAGCTG
CCGAGCGCAGAGGAAGGTGGCCCCGAGCCAGCGATCCTCTGGGGTGTGCGCAGAGGCCGTGGAGATG
CTCGCGGGGGCGGGGAGGCGGATAGGTGTCGCCCCTTCCAGGTTCTGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG227482 representing NM_022657
 Red=Cloning site Green=Tags(s)

MLGTCLRLLVGALCTVCSLGTARAYPDTSPLLGSNWGS LTHLYTATARTSYHLQIHRDGHVDGTPHQTIY
 SALMITSEDAGSVVITGAMTRRFLCMDLHGNI FGSLHFS PENCKFRQWLENGYDVYLSQKHYYL VSLGR
 AKRIFQPGTNPPPF SQFLARRNEVPLLHFYTVRPRRHTRSAEDPPERDPLNVLKPRPRATPVVSCSREL
 PSAE EGGPAASDPLGVLRRGRGDARGGAGGADRCRPFPRFV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022657

ORF Size: 753 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_022657.3](#), [NP_073148.1](#)

RefSeq Size: 2702 bp

RefSeq ORF: 756 bp

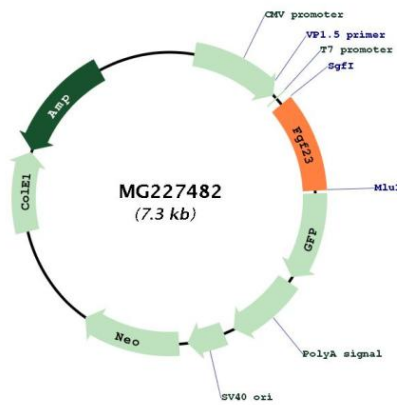
Locus ID: 64654

UniProt ID: [Q9EPC2](#)

Cytogenetics: 6 F3

Gene Summary: This gene encodes a member of the fibroblast growth factor family. The encoded protein regulates phosphate homeostasis and vitamin D metabolism. Mutation of the related gene in humans causes autosomal dominant hypophosphatemic rickets (ADHR). The secreted protein is further cleaved into N- and C-terminal chains, which results in loss of function. [provided by RefSeq, Mar 2013]

Product images:



Circular map for MG227482