

Product datasheet for RG235825

FGF5 (NM 001291812) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: FGF5 (NM_001291812) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: FGF5

Synonyms: HBGF-5; Smag-82; TCMGLY

Mammalian Cell Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG235825 representing NM_001291812.
Sequence: Blue=ORF Red=Cloning site Green=Tag(s)

GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGTCAAAAAAAGGAAAACTCCATGCAAGTGCCAAGTTCACAGATGACTGCAAGTTCAGGGAGCGTTTT CAAGAAAATAGCTATAATACCTATGCCTCAGCAATACATAGAACTGAAAAAAACAGGGCGGGAGTGGTAT GTGGCCCTGAATAAAAAGAGGAAAAAGCCAAACGAGGGTGCAGCCCCCGGGTTAAACCCCAGCATATCTCT ACCCATTTTCTGCCAAGATTCAAGCCAGCCAAAGATTCCCAAGAACTTCTTCTGCACCTAGCCCTATCAAGCCAAAGATTCCCCTTTCTGCACCTCGGAAAAATACCAACTCA

GTGAAATACAGACTCAAGTTTCGCTTTGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

Protein Sequence: >Peptide sequence encoded by RG235825

Blue=ORF Red=Cloning site Green=Tag(s)

MSKKGKLHASAKFTDDCKFRERFQENSYNTYASAIHRTEKTGREWYVALNKRGKAKRGCSPRVKPQHIS

THFLPRFKQSEQPELSFTVTVPEKKKPPSPIKPKIPLSAPRKNTNSVKYRLKFRFG

TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA

FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: Sgfl-Mlul



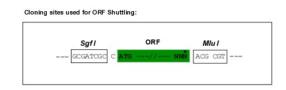
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

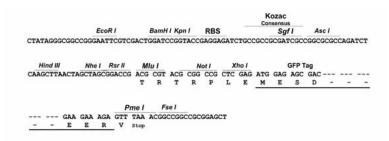
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

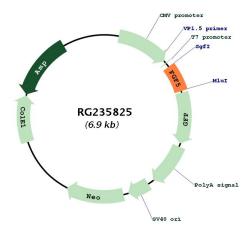


Cloning Scheme:





Plasmid Map:



ACCN: NM_001291812

ORF Size: 375 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



FGF5 (NM_001291812) Human Tagged ORF Clone - RG235825

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).

RefSeq: <u>NM 001291812.1</u>, <u>NP 001278741.1</u>

RefSeq Size: 5118 bp
RefSeq ORF: 378 bp
Locus ID: 2250
Cytogenetics: 4q21.21

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: MAPK signaling pathway, Melanoma, Pathways in cancer, Regulation of actin cytoskeleton

MW: 15 kDa

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 was identified as an oncogene, which confers transforming potential when transfected into mammalian cells. Targeted disruption of the homolog of this gene in mouse resulted in the phenotype of abnormally long hair, which suggested a function as an inhibitor of hair elongation. Alternatively spliced transcript variants encoding different isoforms have been identified.

[provided by RefSeq, Jul 2008]