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Product datasheet for RG220125

FGF3 (NM_005247) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FGF3 (NM_005247) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FGF3
Synonyms:	HBGF-3; INT2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG220125 representing NM_005247
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCCTAATCTGGCTGCTACTGCTCAGCCTGCTGGAGCCCGGCTGGCCCGCAGCGGGCCCTGGGGCGC
GGTTGCGGCGCGATGCGGGCGGCCGTGGCGGCGTCTACGAGCACCTTGGCGGGGCGCCCCGGCGCCGCAA
GCTCTACTGCGCCACGAAGTACCACCTCCAGCTGCACCCGAGCGGCCGCGTCAACGGCAGCCTGGAGAAC
AGCGCCTACAGTATTTTGGAGATAACGGCAGTGGAGGTGGGCATTGTGGCCATCAGGGGTCTCTTCTCCG
GGCGGTACCTGGCCATGAACAAGAGGGGACGACTCTATGCTTCGGAGCACTACAGCGCCGAGTGCGAGTT
TGTGGAGCGGATCCACGAGCTGGGCTATAATACGTATGCCTCCCGGCTGTACCGGACGGTGTCTAGTACG
CCTGGGGCCCGCCGGCAGCCCAGCGCCGAGAGACTGTGGTACGTGTCTGTGAACGGCAAGGGCCGGCCCC
GCAGGGGCTTCAAGACCCGCCGCACACAGAAGTCCTCCCTGTTCCTGCCCCGCGTGCTGGACCACAGGGA
CCACGAGATGGTGCGGCAGCTACAGAGTGGGCTGCCCAGACCCCCTGGTAAGGGGGTCCAGCCCCGACGG
CGGCGGCAGAAGCAGAGCCCGGATAACCTGGAGCCCTCTCACGTTCAGGCTTCGAGACTGGGCTCCCAGC
TGGAGGCCAGTGCGCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

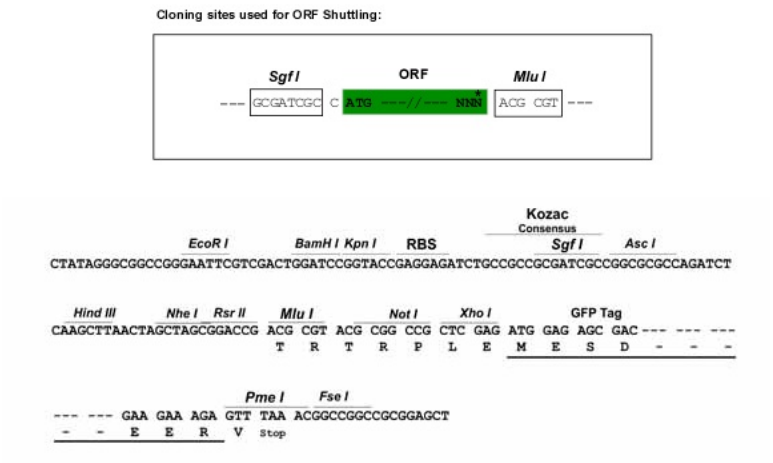
>RG220125 representing NM_005247
Red=Cloning site Green=Tags(s)

MGLIWLLLLSLLEPGWPAAGPGARLRRDAGGRGGVYEHLGGAPRRRKLYCATKYHLQLHPSGRVNGSLEN
SAYSILEITAVEVGIVAIRGLFSGRYLAMNKRGRLYASEHYSAECEFVERIHELGYNTYASRLYRTVSST
PGARRQPSAERLWYVSVNGKGRPRRGFKTRRTQKSSLFLPRVLDHRDHEMVRQLQSGLPRPPGKGVQPRR
RRQKQSPDNLEPSHVQASRLGSQLEASAH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005247

ORF Size: 717 bp

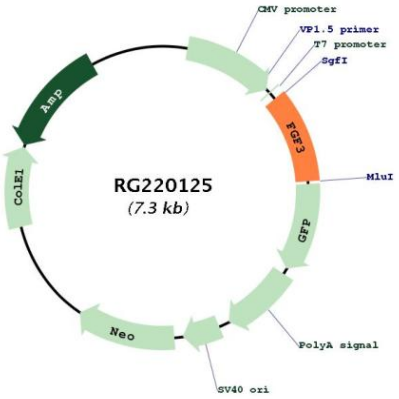
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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:	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_005247.4
RefSeq Size:	1548 bp
RefSeq ORF:	720 bp
Locus ID:	2248
UniProt ID:	P11487
Cytogenetics:	11q13.3
Protein Families:	Druggable Genome, 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 was identified by its similarity with mouse fgf3/int-2, a proto-oncogene activated in virally induced mammary tumors in the mouse. Frequent amplification of this gene has been found in human tumors, which may be important for neoplastic transformation and tumor progression. Studies of the similar genes in mouse and chicken suggested the role in inner ear formation. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG220125