

Product datasheet for **RG231871**

FGF1 (NM_001257212) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FGF1 (NM_001257212) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: FGF1
Synonyms: AFGF; ECGF; ECGF-beta; ECGFA; ECGFB; FGF-1; FGF-alpha; FGFA; GLIO703; HBGF-1; HBGF1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG231871 representing NM_001257212
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGAAGGGGAAATCACCACCTTCACAGCCCTGACCGAGAAGTTAATCTGCCTCCAGGAATTACA
AGAAGCCCAAACCTCTACTGTAGCAACGGGGCCACTTCCTGAGGATCCTCCGGATGGCACAGTGGA
TGGGACAAGGGACAGGAGCGACCAGCACATTAGCTGCAGCTCAGTCCGAAAGCGTGGGGGAGGTGTAT
ATAAAGAGTACCGAGACTGGCCAGTACTGGCCATGGACACCGACGGGCTTTTATACGGCTCAACACCAA
ATGAGGAATGTTTGTTCCTGAAAGGCTGGAGGAGAACCATTACAACACCTATATATCCAAGAAGCATGC
AGAGAAGAATTGGTTTGTGGCCTCAAGAAGAATGGGAGCTGCAAACCGCGTCCTCGGACTCACTATGGC
CAGAAAGCAATCTGTTTCTCCCTGCCAGTCTCTTCTGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG231871 representing NM_001257212
Red=Cloning site Green=Tags(s)
MAEGEITTFALTEKFNLPNGYKPKLLYCSNGGHFLRILPDGTVDGTRDRSDQHILQLLSAESVGEVY
IKSTETGQYLAMDTDGLLYGSTPNEECLFLERLEENHYNTYISKKHAENWFVGLKKNKSGCKRGRPTHYG
QKAILFLPLPVSSD

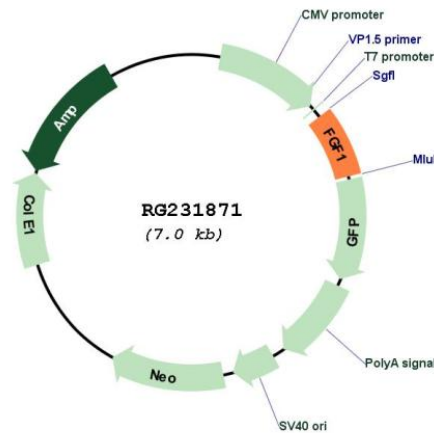
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001257212

ORF Size: 462 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:	<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_001257212.2</u>
RefSeq Size:	3679 bp
RefSeq ORF:	465 bp
Locus ID:	2246
Cytogenetics:	5q31.3
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 protein functions as a modifier of endothelial cell migration and proliferation, as well as an angiogenic factor. It acts as a mitogen for a variety of mesoderm- and neuroectoderm-derived cells in vitro, thus is thought to be involved in organogenesis. Multiple alternatively spliced variants encoding different isoforms have been described. [provided by RefSeq, Jan 2009]