

Product datasheet for **RC402575**

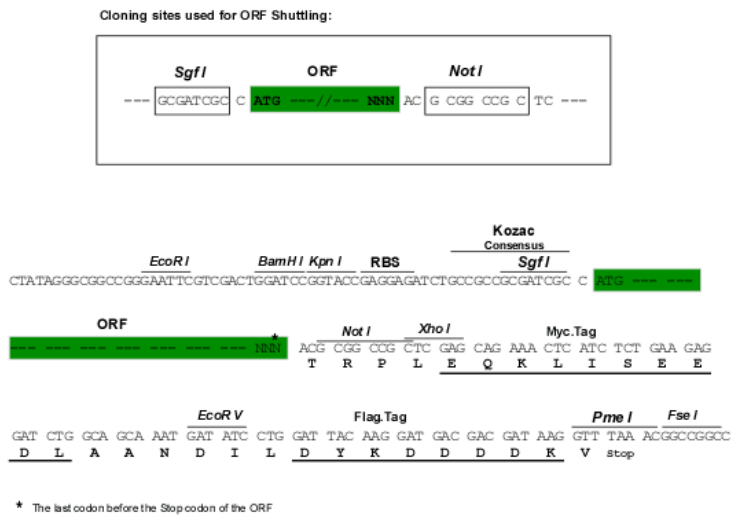
FGFR4 (NM_002011) Human Mutant ORF Clone

Product data:

Product Type:	Mutant ORF Clones
Product Name:	FGFR4 (NM_002011) Human Mutant ORF Clone
Mutation Description:	G388R
Affected Codon#:	388
Affected NT#:	1162
Nucleotide Mutation:	FGFR4 Mutant (G388R), Myc-DDK-tagged ORF clone of Homo sapiens fibroblast growth factor receptor 4 (FGFR4), transcript variant 1 as transfection-ready DNA
Effect:	Cancer, accelerated progression, association with
Symbol:	FGFR4
Synonyms:	CD334; JTK2; TKF
E. coli Selection:	Kanamycin (25 ug/mL)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
Tag:	Myc-DDK
ACCN:	NM_002011
ORF Size:	2406 bp
Restriction Sites:	Sgfl-NotI
Restriction Sites:	Sgfl-NotI



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Cloning Scheme:

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).

RefSeq:

[NP_002002](#)

RefSeq Size:	2406 bp
RefSeq ORF:	2409 bp
Locus ID:	2264
Cytogenetics:	5q35.2
Domains:	pkinase, TyrKc, S_TKc, ig, IGc2, IG
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Endocytosis, MAPK signaling pathway, Regulation of actin cytoskeleton
MW:	88.2 kDa
Gene Summary:	<p>The protein encoded by this gene is a tyrosine kinase and cell surface receptor for fibroblast growth factors. The encoded protein is involved in the regulation of several pathways, including cell proliferation, cell differentiation, cell migration, lipid metabolism, bile acid biosynthesis, vitamin D metabolism, glucose uptake, and phosphate homeostasis. This protein consists of an extracellular region, composed of three immunoglobulin-like domains, a single hydrophobic membrane-spanning segment, and a cytoplasmic tyrosine kinase domain. The extracellular portion interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. [provided by RefSeq, Aug 2017]</p>