

## Product datasheet for **RC600025**

### FGFR4 (NM\_002011) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FGFR4 (NM_002011) Human Tagged ORF Clone
Tag:	DDK-His
Symbol:	FGFR4
Synonyms:	CD334; JTK2; TKF
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5-DDK-His (PS100068)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RC600025 representing leader sequence plus the extracellular domain region of NM_002011 Red=Cloning site Blue=ORF Green=Tags(s)

GTAATACGACTACTATAGGGCGCCGCGAATTTCGTCGACTGGATCTGGTACCGAGGAGATCCGCCGCCG  
CGATCGCC

ATGCGGCTGCTGCTGGCCCTGTTGGGGTCTGCTGAGTGTGCCTGGCCTCCAGTCTTGTCCCTGGAGG  
CCTCTGAGGAAGTGGAGCTTGAGCCCTGCCTGGCTCCCAGCTGGAGCAGCAAGAGCAGGAGCTGACAGT  
AGCCCTTGGGCAGCCTGTGCGTCTGTGCTGTGGGCGGGCTGAGCGTGGTGGCCACTGGTACAAGGAGGGC  
AGTCGCCTGGCACCTGTGGCCGTGTACGGGGCTGGAGGGCCGCTAGAGATTGCCAGTTCCTACCTG  
AGGATGCTGGCCGCTACCTCTGCCTGGCAGGAGCTCCATGATCGTCTGCAGAATCTCACCTTGATTAC  
AGGTGACTCCTTGACCTCCAGCAACGATGATGAGGACCCCAAGTCCCATAGGGACCCCTCGAATAGGCAC  
AGTTACCCCCAGCAAGCACCCCTACTGGACACACCCCCAGCGCATGGAGAAGAAATGCATGCAGTACCTG  
CGGGGAACACCGTCAAGTTCGCTGTCCAGCTGCAGGCAACCCACGCCACCATCCGCTGGCTTAAGGA  
TGGACAGGCTTTTCATGGGGAGAACCATTGGAGGCAATCGGCTGCGCCATCAGCACTGGAGTCTCGTG  
ATGGAGAGCGTGGTGCCTCGGACCGCGGCACATACACCTGCCTGGTAGAGAAGCTGTGGGCAGCATCC  
GCTATAACTACCTGCTAGATGTGCTGGAGCGTCCCCGCACCGGCCATCCTGCAGGCCGGGCTCCCGGC  
CAACACCACAGCGTGGTGGGCAGCGAGCTGGAGCTGCTGTGCAAGGTGTACAGCGATGCCAGCCCCC  
ATCCAGTGGCTGAAGACATCGTCATCAACGGCAGCAGCTTCGGAGCCGACGGTTTCCCCTATGTGCAAG  
TCCTAAAGACTGCAGACATCAATAGCTCAGAGGTGGAGGTCTGTACCTGCGGAACGTGTAGCCGAGGA  
CGCAGGCGAGTACACCTGCCTCGCAGGCAATCCATCGGCCTCTCCTACCAGTCTGCCTGGCTCACGGTG  
CTGCCAGAGGAGGCCACATGGACCGCAGCAGCGCCCGAGGCCAGGTATACGGAC

ACGCGTTCAGGCGACTACAAGGATGACGACGATAAGGGATCTCATCATCACCATCACCATTAATGAGATC  
TGGTACCGATATCAAGCTTGTGACTCTAGA



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**Protein Sequence:** >RC600025 representing signal peptide plus the extracellular domain region of NM\_002011  
 Red=Cloning sites Green= DDK and 6XHIS Tags

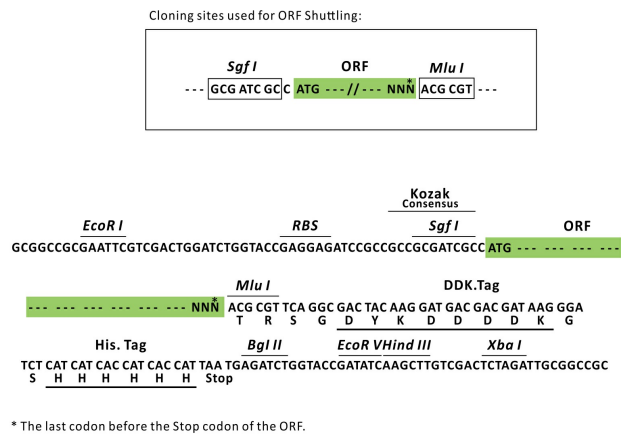
MRLLLALLGVLLSVPVPPVLSLEAEEVELEPCLAPSLEQQEQELTVALGQPVRLCCGRAERGGHWYKEG  
 SRLAPAGRVRGWRGRLEIASFLPEDAGRYLCLARGSMIVLQNLTLITGDSL TSSNDEDPKSHRDP SNRH  
 SYPQQAPYWTHPQRMEKKLHAVPAGNTVKFRCPAAGNPTPTIRWLKDGQAFHGENRIGGIRLRHQHWSLV  
 MESVVPSDRGTYCLVENAVGSIRYNYLLDVLERSPHRPILQAGLPANTTAVVGSDEVLLCKVYSDAQP  
 IQWLKHIVINGSSFADGFPYVQLKTADINSSEVEVL YLRNVAEDAGEYTCLAGNSIGLSYQSAWLT  
 LPEEDPTWTAAPARYTD

TRSGTRSGDYKDDDDKGSHHHHHH

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8117\\_e06.zip](https://cdn.origene.com/chromatograms/mk8117_e06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_002011

**ORF Size:** 2409 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 extra cellular domain of the protein 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\\_002011.3](#), [NP\\_002002.3](#)

**RefSeq Size:** 3049 bp

**RefSeq ORF:** 2409 bp

**Locus ID:** 2264

**UniProt ID:** [P22455](#)

**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:** 40.7 kDa

**Gene Summary:** 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]