

## Product datasheet for **RC600023**

### FGFR3 (NM\_022965) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FGFR3 (NM_022965) Human Tagged ORF Clone
Tag:	DDK-His
Symbol:	FGFR3
Synonyms:	ACH; CD333; CEK2; HSGFR3EX; JTK4
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5-DDK-His (PS100068)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RC600023 representing leader sequence plus the extracellular domain region of NM_022965 Red=Cloning site Blue=ORF Green=Tags(s)

GTAATACGACTACTATAGGGCGCCGCGAATTCGTCGACTGGATCTGGTACCGAGGAGATCCGCCGCCG  
CGATCGCC

ATGGGCGCCCTGCCTGCGCCCTCGCGCTCTGCGTGGCCGTGGCCATCGTGGCCGGCGCCTCCTCGGAGT  
CCTTGGGGACGGAGCAGCGCGTCTGTTGGGCGAGCGGCAGAAGTCCCGGGCCAGAGCCCGCCAGCAGGA  
GCAGTTGGTCTTCGGCAGCGGGATGCTGTGGAGCTGAGCTGTCCCCCGCCGGGGTGGTCCCATGGG  
CCCACTGTCTGGTCAAGGATGGCACAGGGCTGGTGCCTCGGAGCGTGTCTGGTGGGCCCCAGCGGC  
TGCAGGTGCTGAATGCCTCCACGAGGACTCCGGGCCTACAGCTGCCGCGACGGCTCACGACGCGCT  
ACTGTGCCACTTCAGTGTGCGGGTGACAGACGCTCCATCCTCGGAGATGACGAAGACGGGAGGACGAG  
GCTGAGGACACAGGTGTGGACACAGGGGCCCTTACTGGACACGGCCGAGCGGATGGACAAGAAGCTGC  
TGGCCGTGCCGGCCGAACACCGTCCGCTTCCGCTGCCAGCCGCTGGCAACCCCACTCCCTCCATCTC  
CTGGCTGAAGAACGCGAGGGAGTCCCGGGCAGCACCATTGGAGGCATCAAGCTGCGGCATCAGCAG  
TGGAGCCTGGTCAAGAAAGCGTGGTGCCTCGGACCGCGCACTACACCTGCGTCGTGGAGAACAAGT  
TTGGCAGCATCCGGCAGACGTACACGCTGGACGTGCTGGAGCGCTCCCCGACCGGCCATCCTGCAGGC  
GGGGCTGCCGGCAACCAGACGGCGGTGCTGGCAGCGACGTGGAGTTCCACTGCAAGGTGTACAGTGAC  
GCACAGCCCACATCCAGTGGCTCAAGCAGTGGAGGTGAATGGCAGCAAGGTGGCCCGGACGGCACAC  
CCTACGTTACCGTGTCTAAG

ACGCGTTCAGGCGACTACAAGGATGACGACGATAAGGGATCTCATCATCACCATCACCATTAATGAGATC  
TGGTACCGATATCAAGCTTGTGACTCTAGA



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**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\\_022965.3](#), [NP\\_075254.1](#)

**RefSeq Size:** 3968 bp

**RefSeq ORF:** 2085 bp

**Locus ID:** 2261

**UniProt ID:** [P22607](#)

**Cytogenetics:** 4p16.3

**Domains:** pkinase, TyrKc, S\_TKc, ig, IGc2, IG

**Protein Families:** Druggable Genome, Protein Kinase, Transmembrane

**Protein Pathways:** Bladder cancer, Endocytosis, MAPK signaling pathway, Pathways in cancer, Regulation of actin cytoskeleton

**MW:** 33.3 kDa

**Gene Summary:** This gene encodes a member of the fibroblast growth factor receptor (FGFR) family, with its amino acid sequence being highly conserved between members and among divergent species. FGFR family members differ from one another in their ligand affinities and tissue distribution. A full-length representative protein would consist 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 of the protein interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. This particular family member binds acidic and basic fibroblast growth hormone and plays a role in bone development and maintenance. Mutations in this gene lead to craniosynostosis and multiple types of skeletal dysplasia. [provided by RefSeq, Aug 2017]