

Product datasheet for **RC600021**

FGFR2 (NM_000141) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FGFR2 (NM_000141) Human Tagged ORF Clone
Tag:	DDK-His
Symbol:	FGFR2
Synonyms:	BBDS; BEK; BFR-1; CD332; CEK3; CFD1; ECT1; JWS; K-SAM; KGFR; TK14; TK25
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5-DDK-His (PS100068)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RC600021 representing leader sequence plus the extracellular domain region of NM_000141 Red=Cloning site Blue=ORF Green=Tags(s)

GTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCTGGTACCGAGGAGATCCGCCGCCG
GCGCGCCAGATCCCAAGCTTAACTAGCTAGCGGACCGAC

ATGGTCAGCTGGGGTCGTTTCATCTGCCTGGTCGTTGGTCACCATGGCAACCTTGTCCCTGGCCCGGCCCT
CCTTCAGTTTGTGAGGATACCACTTAGAGCCAGAAGGCCACCAACCAAATACCAAATCTCTCAACC
AGAAGTGTACGTGGCTGCGCCAGGGGAGTCGCTAGAGGTGCGCTGCTGTTGAAAGATGCCGCCGTGATC
AGTTGGACTAAGGATGGGGTGCCTTGGGGCCCAACAATAGGACAGTGTATTGGGGAGTACTTGCAGA
TAAAGGGCGCCACGCCTAGAGACTCCGGCCTCTATGCTTGTACTGCCAGTAGGACTGTAGACAGTAAAC
TTGGTACTTTCATGGTGAATGTACACAGATGCCATCTCATCCGGAGATGATGAGGATGACACCGATGGTGCG
GAAGATTTTGTCACTGAGAACAGTAACAACAAGAGAGCACCATACTGGACCAACACAGAAAAGATGGAAA
AGCGGCTCCATGCTGTGCTGCGGCCAACACTGTCAAGTTTCGCTGCCAGCCGGGGGAACCCAATGCC
AACCAGCACTGGAGCCTCATTATGGAAAGTGTGGTCCCCTGACAAGGGAAATTATACCTGTGTAGTGG
AGAATGAATACGGGTCCATCAATCACACGTACCACCTGGATGTTGTGGAGCGATCGCCTCACCAGCCAT
CCTCCAAGCCGGACTGCCGGCAAATGCCCTCCACAGTGGTCCGAGGAGACGTAGAGTTTGTCTGCAAGGTT
TACAGTGTGCCCAGCCACATCCAGTGGATCAAGCACGTGAAAAGAACGGCAGTAAATACGGGCCCCG
ACGGGCTGCCCTACCTCAAGTTCTCAAGGCCCGGTGTTAACACCACGGACAAAGAGATTGAGGTTCT
CTATATTCGGAATGTAACCTTTTGGAGACGCTGGGAATATACGTGCTTGGCGGTAATTCTATTGGGATA
TCCTTTCACTCTGCATGGTTGACAGTTCTGCCAGCGCCTGGAAGAGAAAAGGAGATTACAGCTTCCCCAG
ACTACCTGGAG

ACGCGTTCAGGCGACTACAAGGATGACGACGATAAGGGATCTCATCATCACCATCACCTAATGAGATC
TGGTACCGATATCAAGCTTGTGACTCTAGA



[View online »](#)

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_000141.4](#), [NP_000132.3](#)

RefSeq Size: 4654 bp

RefSeq ORF: 2466 bp

Locus ID: 2263

UniProt ID: [P21802](#)

Cytogenetics: 10q26.13

Domains: pkinase, TyrKc, S_TKc, ig, IGc2, IG

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

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

MW: 41.8 kDa

Gene Summary: The protein encoded by this gene is a member of the fibroblast growth factor receptor family, where amino acid sequence is highly conserved between members and throughout evolution. FGFR family members differ from one another in their ligand affinities and tissue distribution. A full-length representative 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 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 is a high-affinity receptor for acidic, basic and/or keratinocyte growth factor, depending on the isoform. Mutations in this gene are associated with Crouzon syndrome, Pfeiffer syndrome, Craniosynostosis, Apert syndrome, Jackson-Weiss syndrome, Beare-Stevenson cutis gyrata syndrome, Saethre-Chotzen syndrome, and syndromic craniosynostosis. Multiple alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Jan 2009]