

Product datasheet for **SC325289**

FGFR2 (NM_001144918) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FGFR2 (NM_001144918) Human Untagged Clone
Tag:	Tag Free
Symbol:	FGFR2
Synonyms:	BBDS; BEK; BFR-1; CD332; CEK3; CFD1; ECT1; JWS; K-SAM; KGFR; TK14; TK25
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001144918, the custom clone sequence may differ by one or more nucleotides

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ATGGTCAGCTGGGGTCGTTTCATCTGCCTGGTCGTTGGTCACCATGGCAACCTTGTCCCTG
GCCCGGCCCTCCTTCAGTTTAGTTGAGGATACCACATTAGAGCCAGAAGGAGCACCATAC
TGGACCAACACAGAAAAGATGAAAAGCGGCTCCATGCTGTGCCTGCGGCCAACACTGTC
AAGTTTCGCTGCCAGCCGGGGGAACCAATGCCAACCATGCGGTGGCTGAAAAACGGG
AAGGAGTTTAAGCAGGAGCATCGCATTGGAGGCTACAAGGTACGAAACCAGCACTGGAGC
CTCATTATGAAAAGTGTGGTCCCATCTGACAAGGGAAATTATACCTGTGTAGTGGAGAAT
GAATACGGGTCCATCAATCACACGTACCACCTGGATGTTGTGGAGCGATCGCCTCACCGG
CCCATCCTCCAAGCCGACTGCCGGCAAATGCCTCCACAGTGGTCGGAGGAGACGTAGAG
TTTGTCTGCAAGGTTTACAGTGTGCCAGCCCCACATCCAGTGGATCAAGCACGTGGAA
AAGAACGGCAGTAAATACGGGCCCGACGGGCTGCCCTACCTCAAGTTCTCAAGGCCGCC
GGTGTAAACACCACGGACAAAGAGATTGAGGTTCTCTATATTCGGAATGTAACTTTTGAG
GACGCTGGGGAATATACGTGCTTGGCGGTAATTCTATTGGGATATCCTTTCCTCTGCA
TGTTTGACAGTTCTGCCAGCCCTGGAAGAGAAAAGGAGATTACAGCTTCCCAGACTAC
CTGGAGATAGCCATTTACTGCATAGGGGCTTTCTTAATCGCCTGTATGGTGGTAAACAGTC
ATCCTGTGCCAATGAAGAACACGACCAAGAAGCCAGACTTCAGCAGCCAGCCGGCTGTG
CACAAGCTGACCAAACGTATCCCCTGCCGAGACAGGTTTCGGCTGAGTCCAGCTCCTCC
ATGAACTCCAACACCCCGCTGGTGAGGATAACAACACGCCTCTCTTCAACGGCAGACACC
CCCATGCTGGCAGGGTCTCCGAGTATGAACTTCCAGAGGACCCAAAAATGGGAGTTTCCA
AGAGATAAGCTGACACTGGGCAAGCCCCGGGAGAAGGTTGCTTTGGGCAAGTGGTCATG
GCGGAAGCAGTGGGAATTGACAAAGACAAGCCCAAGGAGGCGGTCACCGTGGCCGTGAAG
ATGTTGAAAGATGATGCCACAGAGAAAGACCTTTCTGATCTGGTGTGAGAGATGGAGATG
ATGAAGATGATTGGGAAACACAAGAATATCATAAATCTTCTTGGAGCCTGCACACAGGAT
GGGCTCTCTATGTCATAGTTGAGTATGCCTCTAAAGGCAACCTCCGAGAATACCTCCGA
GCCCGGAGGCCACCCGGGATGGAGTACTCTATGACATTAACCGTGTTCCTGAGGAGCAG
ATGACCTTCAAGGACTTGGTGTGATGCACCTACCAGCTGGCCAGAGGCATGGAGTACTTG
GCTTCCAAAAATGTATTATCGAGATTTAGCAGCCAGAAATGTTTTGGTAAACAGAAAAC
AATGTGATGAAAATAGCAGACTTTGGACTCGCCAGAGATATCAACAATATAGACTATTAC
AAAAAGACCACCAATGGGCGGCTCCAGTCAAGTGGATGGCTCCAGAAGCCCTGTTTGAT
AGAGTATACACTCATCAGAGTGTCTGTCTCGGGTGTAAATGTGGGAGATCTTC
ACTTTAGGGGGCTCGCCCTACCCAGGGATTCCCGTGGAGGAACTTTTTAAGCTGCTGAAG
GAAGGACACAGAATGGATAAGCCAGCCAACTGCACCAACGAACGTACATGATGATGAGG
GACTGTTGGCATGCAGTCCCTCCAGAGACCAACGTTCAAGCAGTTGGTAGAAGACTTG
GATCGAATTCTCACTCTCACAACCAATGAGGAATACTTGGACCTCAGCCAACCTCTCGAA
CAGTATTCACCTAGTTACCCTGACACAAGAAGTTCTTGTCTTTCAGGAGATGATTCTGTT
TTTTCTCCAGACCCCATGCCTTACGAACCATGCCTTCTCAGTATCCACACATAAACGGC
AGTGTTAAAAACA

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- Restriction Sites:** Please inquire
- ACCN:** NM_001144918
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001144918.1</u> , <u>NP_001138390.1</u>
RefSeq Size:	4303 bp
RefSeq ORF:	2115 bp
Locus ID:	2263
UniProt ID:	<u>P21802</u>
Cytogenetics:	10q26.13
Protein Families:	Druggable Genome, Protein Kinase, Secreted Protein, Transmembrane
Protein Pathways:	Endocytosis, MAPK signaling pathway, Pathways in cancer, Prostate cancer, Regulation of actin cytoskeleton

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]

Transcript Variant: This variant (8) is missing two consecutive in-frame coding exons, and uses an alternate in-frame donor splice site at another coding exon, compared to transcript variant 1. This results in a shorter isoform (8) lacking an internal protein segment and additional 2 aa, compared to isoform 1. Sequence Note: A downstream AUG translation start codon is selected for this RefSeq based on the presence of a strong Kozak consensus signal, a strong community standard for the use of the downstream start codon, and on a higher probability of an N-terminal signal peptide being present in the resulting protein. The use of an alternative in-frame upstream AUG start codon would result in a protein that is 19 aa longer at the N-terminus. Translation from the annotated downstream start codon is likely to occur via leaky scanning and/or reinitiation.