

## Product datasheet for **SC326191**

### FGFR2 (NM\_001144915) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FGFR2 (NM_001144915) 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\_001144915, the custom clone sequence may differ by one or more nucleotides

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ATGGTCAGCTGGGGTCGTTTCATCTGCCTGGTCGTTGGTCACCATGGCAACCTTGTCCCTG
GCCCGGCCTCCTTCAGTTTAGTTGAGGATACCACATTAGAGCCAGAAGATGCCATCTCA
TCCGGAGATGATGAGGATGACACCGATGGTGCGGAAGATTTTGTGAGTGAAGACAGTAAC
AACAAAGAGAGCACCATACTGGACCAACACAGAAAAGATGGAAAAGCGGCTCCATGCTGTG
CCTGCGGCCAACACTGTCAAGTTTCGCTGCCAGCCGGGGGAACCCAATGCCAACCATG
CGGTGGCTGAAAAACGGGAAGGAGTTTAAAGCAGGAGCATCGCATTGGAGGCTACAAGGTA
CGAAACCAGCACTGGAGCCTCATTATGGAAAGTGTGGTCCCATCTGACAAGGGAAATTAT
ACCTGTGTAGTGGAGAATGAATACGGGTCCATCAATCACACGTACCACCTGGATGTTGTG
GAGCGATCGCTCACCAGCCATCCTCCAAGCCGACTGCCGGCAAATGCCTCCACAGTG
GTCGGAGGAGACGTAGAGTTTGTCTGCAAGTTTACAGTGATGCCAGCCCCACATCCAG
TGGATCAAGCACGTGAAAAGAACGGCAGTAAATACGGGCCGACGGGCTGCCCTACCTC
AAGTTCTCAAGGCCCGGTGTTAACACCACGGACAAAGAGATTGAGGTTCTCTATATT
CGGAATGTAACTTTTGAGGACGCTGGGGAATATACGTGCTTGGCGGGTAATTCTATTGGG
ATATCCTTTCACTCTGCATGGTTGACAGTTCTGCCAGCGCTGGAAGAGAAAAGGAGATT
ACAGCTTCCCCAGACTACCTGGAGATAGCCATTTACTGCATAGGGGTCTTCTTAATCGCC
TGTATGGTGGTAACAGTCATCCTGTGCCGAATGAAGAACACGACCAAGAAGCCAGACTTC
AGCAGCCAGCCGGCTGTGCACAAGCTGACCAACAGTATCCCCCTGCGGAGACAGGTAACA
GTTTCGGCTGAGTCCAGCTCCTCCATGAACTCCAACACCCCGCTGGTGAGGATAACAACA
CGCCTCTTTCAACGGCAGACACCCCATGCTGGCAGGGGTCTCCGAGTATGAACTTCCA
GAGGACCCAAAATGGGAGTTTCCAAGAGATAAGCTGACACTGGCAAGCCCTGGGAGAA
GGTTGCTTTGGCAAGTGGTCAATGGCGGAAGCAGTGGGAATTGACAAAGACAAGCCCAAG
GAGGCGGTCAACCTGGCCGTGAAGATGTTGAAAGATGATGCCACAGAGAAAGACCTTTCT
GATCTGGTGTGAGAGATGGAGATGATGAAGATGATTGGGAAACACAAGAATATCATAAAT
CTTCTGGAGCCTGCACACAGGATGGGCCTCTCTATGTCATAGTTGAGTATGCCTCTAAA
GGCAACCTCCGAGAATACCTCCGAGCCCGAGGCCACCCGGGATGGAGTACTCTATGAC
ATTAACCGTGTCTGAGGAGCAGATGACCTTCAAGGACTTGGTGTGATGCACCTACCAG
CTGGCCAGAGGCATGGAGTACTTGGCTTCCAAAAATGTATTCATCGAGATTTAGCAGCC
AGAAATGTTTTGGTAACAGAAAACAATGTGATGAAAATAGCAGACTTTGGACTCGCCAGA
GATATCAACAATATAGACTATTACAAAAGACCACCAATGGGCGGCTTCCAGTCAAGTGG
ATGGCTCCAGAAGCCCTGTTGATAGAGTATACACTCATCAGAGTGATGTCTGGTCTTC
GGGGTGTAAATGTGGGAGATCTTCACTTTAGGGGGCTCGCCCTACCCAGGGATTCCCGTG
GAGGAACTTTTAAGCTGCTGAAGGAAGGACACAGAATGGATAAGCCAGCCAACCTGCACC
AACGAACTGTACATGATGATGAGGGACTTGGCATGCAGTGCCCTCCAGAGACCAACG
TTCAAGCAGTTGGTAGAAGACTTGGATCGAATTCTCACTCTACAACCAATGAGGAGGAG
AAGAAGTTTTCTGGAGCAGTGGACTGCCACAAGCCACCATGTAACCCCTCTCACCTGCC
TGCGTACTGGCTGTGGACCAG
    
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- Restriction Sites:** Please inquire
- ACCN:** NM\_001144915
- 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001144915.1</a></u> , <u><a href="#">NP_001138387.1</a></u>
<b>RefSeq Size:</b>	3708 bp
<b>RefSeq ORF:</b>	2124 bp
<b>Locus ID:</b>	2263
<b>UniProt ID:</b>	<u><a href="#">P21802</a></u>
<b>Cytogenetics:</b>	10q26.13
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Secreted Protein, Transmembrane
<b>Protein Pathways:</b>	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 (5) uses an alternate 5' terminal non-coding exon, and is missing an internal in-frame coding exon, compared to transcript variant 1. This results in a shorter isoform (5) lacking an internal protein segment 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.