

## Product datasheet for **SC107656**

### **FGFR2 (BC039243) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	FGFR2 (BC039243) Human Untagged Clone
Tag:	Tag Free
Symbol:	FGFR2
Synonyms:	bacteria-expressed kinase; BEK; BEK fibroblast growth factor receptor; BFR-1; CD332; CEK3; CFD1; ECT1; FGF receptor; FLJ98662; hydroxyaryl-protein kinase; JWS; K-SAM; kerat; KGFR; OTTHUMP00000020621; OTTHUMP00000020629; soluble FGFR4 variant 4; TK14; TK25
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene ORF sequence for BC039243 edited
ATGGGATTAACGTCCACATGGAGATATGGAAGAGGACCGGGGATTGGTACCGTAACCATG
GTCAGCTGGGGTCGTTTCATCTGCCTGGTCGTGGTCACCATGGCAACCTTGTCCCTGGCC
CGGCCCTCCTTCAGTTTGTAGTGGAGGATACCACATTAGAGCCAGAAGGAGCACCATACTGG
ACCAACACAGAAAAGATGGAAGCGGCTCCATGCTGTGCCTGCGGCCAACACTGTCAAG
TTTCGCTGCCAGCCGGGGGAACCCAATGCCAACCATGCGGTGGCTGAAAAACGGGAAG
GAGTTTAAAGCAGGAGCATCGCATTGGAGGCTACAAGGTACGAAACCAGCACTGGAGCCTC
ATTATGGAAAGTGTGGTCCCATCTGACAAGGAAATTATACCTGTGTGGTGGAGAATGAA
TACGGGTCCATCAATCACACGTACCACCTGGATGTTGTGGAGCGATCGCCTCACCGGCC
ATCCTCCAAGCCGGACTGCCGGCAAATGCCTCCACAGTGGTCGGAGGAGACGTAGAGTTT
GTCTGCAAGGTTTACAGTGATGCCAGCCACATCCAGTGGATCAAGCACGTGGAAAAG
AACGGCAGTAAATACGGGCCGACGGGCTGCCCTACCTCAAGTTCTCAAGGCCCGCGT
GTTAACACCACGGACAAAGAGATTGAGTTCTCTATATTCGGAATGTAACTTTTGAGGAC
GCTGGGAATATACGTGCTTGGCGGTAATTCTATTGGGATATCCTTTCCTCTGCATGG
TTGACAGTTCTGCCAGCGCTGGAAGAGAAAAGGAGATTACAGCTTCCCAGACTACCTG
GAGATAGCCATTTACTGCATAGGGGTCTTCTAATCGCCTGTATGGTGGTAACAGTCATC
CTGTGCCGAATGAAGAACACGACCAAGAAGCCAGACTTCAGCAGCCAGCCGGCTGTGCAC
AAGCTGACCAAACGTATCCCCCTGCGGAGACAGGTAACAGTTTCGGCTGAGTCCAGCTCC
TCCATGAACTCCAACACCCCGCTGGTGAGGATAACAACACGCCTCTTCAACGGCAGAC
ACCCCATGCTGGCAGGGGTCTCCGAGTATGAACTTCCAGAGGACCCAAAATGGGAGTTT
CCAAGAGATAAGCTGACACTGGCAAGCCCCTGGGAGAAGGTTGCTTTGGCAAGTGGTC
ATGGCGGAAGCAGTGGGAATTGACAAAGACAAGCCCAAGGAGGCGGTACCGTGGCCGTG
AAGATGTTGAAAGATGATGCCACAGAGAAAGACCTTCTGATCTGGTGTGAGAGATGGAG
ATGATGAAGATGATTGGGAAACACAAGAATATCATAAATCTTCTGGAGCCTGCACACAG
GATGGGCCTCTATGTCATAGTTGAGTATGCCTCTAAAGGCAACCTCCGAGAATACCTC
CGAGCCCGGAGGCCACCCGGATGGAGTACTCCTATGACATTAACCGTGTTCCTGAGGAG
CAGATGACCTTCAAGGACTTGGTGTGATGCACCTACCAGCTGGCCAGAGGCATGGAGTAC
TTGGCTTCCAAAAATGTATTCATCGAGATTTAGCAGCCAGAAATGTTTTGGTAACAGAA
AACAAATGTGATGAAAATAGCAGACTTTGGACTCGCCAGAGATATCAACAATATAGACTAT
TACAAAAAGACCACCAATGGGCGGCTTCCAGTCAAGTGGATGGCTCCAGAAGCCCTGTTT
GATAGAGTATACACTCATCAGAGTGATGTCTGGTCTTCCGGGTGTTAATGTGGGAGATC
TTCACTTTAGGGGCTCGCCTACCCAGGATTCCCGTGGAGGAACTTTTTAAGCTGCTG
AAGGAAGGACACAGAATGGATAAGCCAGCCAACCTGCACCAACGAACTGTACATGATGATG
AGGGACTGTTGGCATGCAGTGCCCTCCCAGAGACCAACGTTCAAGCAGTTGGTAGAAGAC
TTGGATCGAATTCTCACTCTACAACCAATGAGGAATACTTGGACCTCAGCCAACCTCTC
GAACAGTATTCACCTAGTTACCTGACACAAGAAGTCTTGTCTTTCAGGAGATGATTCT
GTTTTTCTCCAGACCCCATGCCTTACGAACCATGCCTTCTCAGTATCCACACATAAAC
GGCAGTGTTAAAAACATGA
    
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for BC039243 unedited TGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGTACGCGTGAAGCCCGG GAGGCTTGGCGCCGGCGAAGACCAAGACCACTCTTCTGCGTTTGGAGTTGCTCCCCACAA CCCCGGCTCGTCGCTTTCTCCATCCCGACCCACGCGGGGCGGGGACAACACAGGTGCG CGGAGGAGCGTTGCCATTCAAGTGACTGCAGCAGCAGCGGCAGCGCCTCGGTTCTTGAGC CCACCGCAGGCTGAAGGCATTGCGCGTAGTCCATGCCCCGTAGAGGAAGTGTGCAGATGGG ATTAACGTCCACATGGAGATATGGAAGAGGACCGGGGATTGGTACCGTAACCATGGTCAG CTGGGGTCGTTTTATCTGCCTGGTCGTGGTCACCATGGCAACCTTGTCCCTGGCCCGGCC CTCCTTCAAGTTTGTGAGGATACCACATTAGAGCCAGAAGGAGCACCATACTGGACCAA CACAGAAAAGATGAAAAAGCGGCTCCATGCTGTGCCTGCGGCCAACACTGTCAAGTTTCG CTGCCAGCCGGGGGAACCCAATGCCAACCATGCGGTGGCTGAAAAACGGGAAGGAGTT TAAGCAGGAGCATCGCATTGGAGGCTACAAGGTACGAAACCAGCACTGGAGCCTCATTAT GGAAAGTGTGGTCCCATCTGACAGGGGAAATACCTGTGTGGTGGGAGATGAATACGGG TCCATCAATCACACGTACCACCTGGATGTTGTGGAGCGATCGCCTNACCGGCCATCCTNC AGNCCGACTTGCCGCAATGCCTCCAGTGTTCGNAGAGACGTAATTTGTCTGCAAGTTT ACAGTGATGCCACCCCATCCAGGGGATAAGCCGTGGAAAAAACGGCATAAC
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	BC039243
<b>Insert Size:</b>	3900 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found to be a perfect match to BC039243.1.
<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>	<a href="#">BC039243.1</a> , <a href="#">AAH39243.2</a>
<b>RefSeq Size:</b>	3575 bp
<b>RefSeq ORF:</b>	2115 bp
<b>Locus ID:</b>	2263
<b>Cytogenetics:</b>	10q26.13
<b>Protein Families:</b>	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]