

Product datasheet for **SC308692**

FGFR4 (NM_213647) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FGFR4 (NM_213647) Human Untagged Clone
Tag:	Tag Free
Symbol:	FGFR4
Synonyms:	CD334; JTK2; TKF
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_213647 edited
ATGCGGCTGCTGCTGGCCCTGTTGGGGTCTGCTGAGTGTGCCTGGGCCTCCAGTCTTG
TCCCTGGAGGCTCTGAGGAAGTGGAGCTTGAGCCCTGCCTGGCTCCCAGCCTGGAGCAG
CAAGAGCAGGAGCTGACAGTAGCCCTTGGGCAGCCTGTGCGGCTGTGCTGTGGGCGGGCT
GAGCGTGGTGGCACTGGTACAAGGAGGGCAGTCGCCTGGCACCTGCTGGCCGTGTACGG
GGCTGGAGGGGCGCCTAGAGATTGCCAGCTTCTACCTGAGGATGCTGGCCGTACCTC
TGCTGGCACGAGGCTCCATGATCGTCCTGCAGAATCTCACCTTGATTACAGGTGACTCC
TTGACCTCCAGCAACGATGATGAGGACCCCAAGTCCCATAGGGACCTCTCGAATAGGCAC
AGTTACCCCCAGCAAGCACCCCTACTGGACACACCCCAAGCGCATGGAGAAGAAATGCAT
GCAGTACCTGCGGGGAACACCGTCAAGTTCCGCTGTCCAGCTGCAGGCAACCCACGCCC
ACCATCCGCTGGCTTAAGGATGGACAGGCTTTTCATGGGAGAACCGCATTGGAGGCATT
CGGCTGCGCCATCAGCACTGGAGTCTCGTGATGGAGAGCGTGGTCCCTCGGACCGCGGC
ACATACACCTGCCTGGTAGAGAACGCTGTGGGCAGCATCCGTTATAACTACCTGCTAGAT
GTGCTGGAGCGGTCCCCGCACCGGCCCATCCTGCAGGCCGGGCTCCCGCCAACACCACA
GCCGTGGTGGGCAGCGACGTGGAGCTGCTGTGCAAGGTGTACAGCGATGCCAGCCCCAC
ATCCAGTGGCTGAAGCACATCGTCATCAACGGCAGCAGCTTCGGAGCCGACGGTTTCCCC
TATGTGCAAGTCCTAAAGACTGCAGACATCAATAGCTCAGAGGTGGAGGTCTGTACCTG
CGGAACGTGTGAGCCGAGGACGCGAGGTACACCTGCCTCGCAGGCAATTCCATCGGC
CTCTCCTACCACTGCTGCCTGGCTCACGGTGTGCCAGAGGAGGACCCACATGGACCGCA
GCAGCGCCCGAGGCCAGGTATACGGACATCATCTGTACGCGTCGGGCTCCCTGGCCTTG
GCTGTGCTCCTGCTGTGGCCAGGCTGTATCGAGGGCAGGCGCTCCACGGCCGGCACCCC
CGCCCCCGCCCACTGTGCAGAAGCTCTCCCGTTCCTCTGGCCCGACAGTTCTCCCTG
GAGTCAGGCTCTTCCGGCAAGTCAAGCTCATCCCTGGTACGAGGCGTGGCTCTCTCTCC
AGCGGCCCGCCTTGCTCGCCGGCCTCGTGAGTCTAGATCTACCTCTCGACCCACTATGG
GAGTTCCCCCGGACAGGCTGGTGTGTTGGGAAGCCCTAGGCGAGGGCTGCTTTGGCCAG
GTAGTACGTGCAGAGGCTTTGGCATGGACCCTGCCCGGCTGACCAAGCCAGCACTGTG
GCCGTCAAGATGCTCAAAGACAACGCCTCTGACAAGGACCTGGCCGACCTGGTCTCGGAG
ATGGAGGTGATGAAGCTGATCGGCCGACACAAGAATCATCAACCTGCTTGGTGTCTGC
ACCCAGGAAGGGCCCTGTACGTGATCGTGGAGTGCGCCGCCAAGGGAACCTGCGGGAG
TTCCTGCGGGCCCGGCGCCCCCAGGCCCGACCTCAGCCCCGACGGTCTCGGAGCAGT
GAGGGGCCGCTCTCCTTCCAGTCTGCTCCTGCGCCTACCAGGTGGCCCGAGGCATG
CAGTATCTGGAGTCCCGAAGTGTATCCACCGGACCTGGCTGCCCGCAATGTGCTGGTG
ACTGAGGACAATGTGATGAAGATTGCTGACTTTGGGCTGGCCCGCGGCGTCCACCACATT
GACTACTATAAGAAAACCAGCAACGGCCGCTGCCTGTGAAGTGGATGGCGCCCGAGGCC
TTGTTTGACCGGGTGTACACACACCAGAGTGACGTGTGGTCTTTTGGGATCCTGCTATGG
GAGATCTTACCCCTCGGGGGCTCCCCGTATCCTGGCATCCCGGTGGAGGAGCTGTTCTCG
CTGCTGCGGGAGGGACATCGGATGGACCGACCCCACTGCCCCCAGAGCTGTACGGG
CTGATGCGTGAGTGCTGGCACGCGCCCTCCAGAGGCCTACCTTCAAGCAGCTGGTG
GAGGCGCTGGACAAGGTCCTGCTGGCCGTCTCTGAGGAGTACCTCGACCTCCGCCTGACC
TTCGGACCTATTCCCCCTCTGGTGGGGACGCCAGCAGCACCTGCTCTCCAGCGATTCT
GTCTTCAGCCACGACCCCTGCCATTGGGATCCAGCTCCTTCCCTTCGGGTCTGGGGTG
CAGACATGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_213647 unedited</p> <p>TCTTGGGATTTGTAATCCCACTTACTATNAGGGCGGCCGAGCATTGCGCACGAGGCCGAG GAGCGCTCGGGCTGTCTGCGGACCCTGCCGCTGCAGGGGTGCGGGCCGGCTGGAGCTGG GAGTGAGCGCGCGGAGGAGCCAGGTGAGGAGGAGCCAGGAAGGCAGTTGGTGGGAAGTCC AGCTTGGGTCCCTGAGAGCTGTGAGAAGGAGATGCTGTTTCTGCTGGCCCTGTTGGGGT CCTGCTGAGTGTGCTGGCCCTCCAGTCTTGTCCCTGGAGGCCTCTGAGGAAGTGGAGCT TGAGCCCTGCCTGGCTCCAGCCTGGAGCAGCAAGAGCAGGAGCTGACAGTAGCCCTTGG GCAGCCTGTGCGGCTGTGCTGTGGCGGGCTGAGCGTGGTGGCCACTGGTACAAGGAGGG CAGTCGCCTGGCACCTGTGCGCGTGTACGGGGCTGGAGGGGCCCTAGAGATTGCCAG CTTCTACCTGAGGATGCTGGCCGCTACCTCTGCCTGGCACGAGGCTCCATGATCGTCT GCAGAATCTCACCTTGATTACAGGTGACTCCTTGACCTCCAGCAACGATGATGAGGACCC CAAGTCCCATAGGGACCTCTCGAATAGGCACAGTTACCCCAAGCAAGCACCCTACTGGAC ACACCCNACGCGCATGGAGAAGAACTGCATGCAGTACCTGCGGGGAACACCGTCAAGTT CCGCTGTCCAGCTGCATGCAACCCACGCCACCATCCGCTGGCTTATGGATGGACAGGC CTTTCATGGNAGAACCGCATTGGATGCATTTGCTGCGCATCAGCACTGGAGTCTCGT GATGGANAGCGTGGTGCCTCGGACCCGCGCACATACCTGCCTGGTAGAGAACGCTGT GGGAGCATCCGT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_213647 unedited</p> <p>GGGCTTGGGAATATTTATAAAACGCCTTTGCTCCTGTTTTCGGCAGGCTTCCAGCTTCTC TGGGCTCAGGGGCCAATGCTCCCGTCAAGACGCTGGGGCAGCAGCAGGGGGAGGTGT GGGGAAGGGGGTTGAGAGGCCAGAACCTCCTGCTGGTATTGGGAGGCAGGAGTTTAG CATAGCAGCTCTCCAGCCAGGCTCAGCCAAACCCGGGATGGGGACTAAGCGCCAAGGTCC AAGAAGCCGAGCAGAACCTGACATTTGGGCCATCAGGACACAGGCACGGCAGTCCAAG GGCAAGGGCAGGCCCTTGGACACGGCACAGCAACTCTGGGCCAGGGGCCCATGCTATC AAGGTCGAGCACTGTGTGAGGCTGTGGCTGAGCCCAAGGCCAAGGCCACAGCCTATG TGCCTGCACAGCCTTGAGCCTTGCTCATGTCTGCACCCAGACCCGAAGGGGAAGGAGCT GGATCCCAATGGCAGGGGGTCTGGCTGAAGACAGAATCGCTGGAGGAGCAGGTGCTGCT GGCGTCCCCACCAGAGGGGGAATAGGGTCCGAAGGTGAGGCGGAGGTGAGGTACTCCTC ANAGAGGCCAGCAGGACCTTGTCCAGCGCCTCCACCACTGCTTGAAGGTANGCCTCTN GGAGGGCGCTGCGTGCCAGCACTACGCATTANCCCTACAGCTCTGGGGGCAATGTGG GGGTGGTCCATCCNATGTCCCTTCCGCAAGCATGAGGACAGCTCCTACCCGGGTGCT GAATCTGTGGATCCCCTCGGGTGATAATCTCCATTCCCGTTCCAAAAACCCCTTCTC TGGTGGGTTCCTCCGTAATAAAGGCTTCGGTGCCATCCCTTTACGGCATGGGCTTCAT TTTTATTTTC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_213647
Insert Size:	3240 bp
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:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_213647.1, NP_998812.1</u>
RefSeq Size:	3084 bp
RefSeq ORF:	2409 bp
Locus ID:	2264
UniProt ID:	<u>P22455</u>
Cytogenetics:	5q35.2
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Endocytosis, MAPK signaling pathway, Regulation of actin cytoskeleton
Gene Summary:	<p>The protein encoded by this gene is a tyrosine kinase and cell surface receptor for fibroblast growth factors. The encoded protein is involved in the regulation of several pathways, including cell proliferation, cell differentiation, cell migration, lipid metabolism, bile acid biosynthesis, vitamin D metabolism, glucose uptake, and phosphate homeostasis. This 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 interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. [provided by RefSeq, Aug 2017]</p> <p>Transcript Variant: This variant (3) uses an alternative splice site for the first exon compared to variant 1. Variants 1, 3 and 5 all encode the same isoform (1).</p>