

## Product datasheet for **SC323454**

### FGFR4 (NM\_002011) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FGFR4 (NM_002011) Human Untagged Clone
Tag:	Tag Free
Symbol:	FGFR4
Synonyms:	CD334; JTK2; TKF
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC323454 sequence for NM\_002011 edited (data generated by NextGen Sequencing)

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ATGCGGCTGCTGCTGGCCCTGTTGGGGTCTGCTGAGTGTGCCTGGGCCTCCAGTCTTG
TCCCTGGAGGCCTCTGAGGAAGTGGAGCTTGAGCCCTGCCTGGCTCCCAGCCTGGAGCAG
CAAGAGCAGGAGCTGACAGTAGCCCTTGGGCAGCCTGTGCGGCTGTGCTGTGGGCGGGCT
GAGCGTGGTGGCCACTGGTACAAGGAGGGCAGTCGCTGGCACCTGTGGCCGTGTACGG
GGCTGGAGGGGCGCCTAGAGATTGCCAGCTTCTACCTGAGGATGCTGGCCGCTACCTC
TGCTGGCACGAGGCTCCATGATCGTCCTGCAGAATCTCACCTTGATTACAGGTGACTCC
TTGACCTCCAGCAACGATGATGAGGACCCCAAGTCCCATAGGGACCTCTGAATAGGCAC
AGTTACCCCCAGCAAGCACCCCTACTGGACACACCCCCAGCGCATGGAGAAGAACTGCAT
GCAGTACCTGCGGGGAACACCGTCAAGTTCGCTGTCCAGCTGCAGGCAACCCACGCC
ACCATCCGCTGGCTTAAGGATGGACAGGCCTTTCATGGGAGAACCGCATTGGAGGCATT
CGGCTGCGCCATCAGCACTGGAGTCTCGTATGGAGAGCGTGGTGCCTCGGACCGCGG
ACATACACCTGCCTGGTAGAGAACGCTGTGGGCAGCATCCGTTATAACTACCTGTAGAT
GTGCTGGAGCGGTCCCCGCACCGGCCATCCTGCAGGCCGGGCTCCCGCCAACACCACA
GCCGTGGTGGGCAGCGAGTGGAGCTGCTGTGCAAGGTGTACAGCGATGCCAGCCAC
ATCCAGTGGCTGAAGCACATCGTCATCAACGGCAGCAGCTTCGGAGCCGACGGTTCCCC
TATGTGCAAGTCTAAAGACTGCAGACATCAATAGCTCAGAGGTGGAGGTCTGTACCTG
CGGAACGTGTCAGCCGAGGACGCAGGCGAGTACACCTGCCTCGCAGGCAATTCCATCGGC
CTCTCCTACCAGTCTGCCTGGCTCACGGTGTGCCAGAGGAGGACCCACATGGACCGCA
GCAGCGCCCGAGGCCAGGTATACGGACATCCTGTACGCGTCGGGCTCCCTGGCCTTG
GCTGTGCTCCTGCTGTGCCAGGCTGTATCGAGGGCAGGCGCTCCACGGCCGGCACCCC
CGCCCCCGCCACTGTGCAGAAGCTCTCCCGTTCCTCTGGCCGACAGTTCTCCCTG
GAGTCAGGCTCTCCGGCAAGTCAAGCTCATCCCTGGTACGAGGCGTGGCTCTCTCCTC
AGCGGCCCCGCTTGTGCTGCGCGCCTCGTGTAGTCTACCTCTCGACCCACTATGG
GAGTTCCCCGGGACAGGCTGGTGTGGGAAGCCCTAGGCGAGGGTCTTTGGCCAG
GTAGTACGTGCAGAGGCCTTTGGCATGGACCCTGCCCGGCTGACCAAGCCAGCACTGTG
GCCGTATGATGCTCAAAGACAACGCCTCTGACAAGGACCTGGCCGACCTGGTCTCGGAG
ATGGAGGTGATGAAGTGTGCGCCGACACAAGAATCATCAACCTGCTTGGTGTCTGC
ACCCAGGAAGGGCCCTGTACGTGATCGTGGAGTGCGCCCAAGGAAACCTGCGGGAG
TTCTGCGGGCCCGGCGCCCCAGGCCCGACCTCAGCCCCGACGGTCTCGGAGCAGT
GAGGGGCCGCTCTCCTTCCCAGTCTGCTCCTGCGCCTACCAGGTGGCCCGAGGCATG
CAGTATCTGGAGTCCCGAAGTGTATCCACCGGACCTGGCTGCCCGCAATGTGCTGGT
ACTGAGGACAATGTGATGAAGATTGCTGACTTTGGGCTGGCCCGCGGCTCCACCACATT
GACTACTATAAGAAAACCAGCAACGGCCGCTGCCTGTGAAGTGGATGGCGCCGAGGCC
TTGTTTGACCGGGTGTACACACACCAGAGTGACGTGTGGTCTTTTGGGATCCTGTATGG
GAGATCTTACCCTCGGGGGCTCCCCGTATCCTGGCATCCCGGTGGAGGAGCTGTCTCG
CTGCTGCGGGAGGACATCGGATGGACCGACCCACACTGCCCGCCAGAGCTGTACGGG
GTGATGCGTGAGTGTGGCACGCAGCGCCCTCCAGAGGCTACCTTCAAGCAGTGGTG
GAGGCGCTGGACAAGTCTGCTGGCCGCTCTGAGGAGTACCTCGACCTCCGCCTGACC
TTGCGACCTATTCCCCCTGTTGGGACGCCAGCAGCACCTGCTCCTCCAGCGATTCT
GTCTTACGCCACGACCCCTGCCATTGGGATCCAGCTCCTTCCCTTCGGGTCTGGGGT
CAGACATGA
    
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Clone variation with respect to NM\_002011.3  
 162 t=>g;407 c=>t;702 c=>t;1162 g=>a;1508 a=>t

<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for mutant NM_002011 unedited CCGCCCCGTCGCGCAAAGGGCGGAGGCGAGTACGGTTGGAGGTTACACAAGCAGACCCGCCAGCGAACCGT CAGAATTTGTAACACGACCCACAAAAGGGCGGCCGAACACGGCACGAGGCCGAGGAGCGCACGGGCCGT CTGCGGACCCTGCCGCGCAGGGGACGCGGCCGGCTGGAGCCGGGAGCCGAGGCCGCGGAGGAGCCAGGC GAGGAGGAGCCAGGAAGGCAGTTTGGTGGGAAGACCAGCTTGGTCCCTGAGAGCTGTGAGAAGGAGATG CGGCTGCTGCTGGCCCTGTTGGGGTCTGCTGAGTGTGCTGGCCTCCAGTCTTGTCCCTGGAGGCC TCTGAGAAGTGGAGCTTTGAGCCCTGCCTGGCTCCAGCCTGAGCAGCAAGAGCAGAGCTGACAGTACCC CTTGGCAGCCTGTGCGCTGTGCTGTGGCGCTGACGTGTGCCACTGTACAGAGGCAGTCGCTGCACTGCT GCCGTGTACGGGCTGAAGGCCGCTAAAGAATGCCAGCTCTACTGAGATGCTGCGCTACTTCTGCTTGCCC AAGCTTCATGATCGTCTGCAAATCTCTAACTGATACCGTTGACTCCTTGACCTCAGCACCCAATGATGTA AGGAGACCCAAGTGTCTATGAACCTTTCTCGATTGGCAGGTATACCCCAAGCAAGCAACCCTCATCTG GACACCCCAACGCATATGAAGAACTCTTGTATATCTCGCGGAACCGTCTAGTTTCTGTACATTTCA GGACACCCGCCCAATCTCTGGCTAAAGTAGACAGACGCCTCTATGGAAAACATGTTAGCATCTGCT GTCATCACATTCGTTACTCTATGTAGACGGTGCCTGCACGGGCACACACTCCGTTGAAAGACCTG
<b>Kinase Domain Sequence:</b>	>SC323454 kinase domain raw sequence. By performing <a href="#">BLASTX</a> analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation GRKGKCTTGCAGCCCTAGGCGAGGGCTGCTTTGGCCAGGTAGTACGTGCAGAGCCCTTTGGCATGGAC CCTGCCCGCCTGACCAAGCCAGCACTGTGGCCGTCATGATGCTCAAAGACAACGCCTCTGACAAGGACC TGGCCGACCTGGTCTCGGAGATGGAGGTATGAAGCTGATCGCCGACACAAGAATCATCAACCTGCT TGGTGTCTGCACCCAGGAAGGGCCCTGTACGTGATCGTGGAGTG
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_002011
<b>Insert Size:</b>	3240 bp
<b>OTI Disclaimer:</b>	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.
	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." <a href="#">Cell, 2008 May p536-548.</a>
<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="#">NM_002011.3</a> , <a href="#">NP_002002.3</a>
<b>RefSeq Size:</b>	3040 bp
<b>RefSeq ORF:</b>	2409 bp
<b>Locus ID:</b>	2264
<b>UniProt ID:</b>	<a href="#">P22455</a>
<b>Cytogenetics:</b>	5q35.2
<b>Domains:</b>	pkinase, TyrKc, S_TKc, ig, IGc2, IG
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Endocytosis, MAPK signaling pathway, Regulation of actin cytoskeleton
<b>Gene Summary:</b>	<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 (1) encodes the longest isoform (1), which contains a transmembrane domain, suggesting a membrane bound receptor. Variants 1, 3, and 5 all encode the same isoform (1).</p>