

Product datasheet for **SC323593**

FGFR1 (NM_023106) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FGFR1 (NM_023106) Human Untagged Clone
Tag:	Tag Free
Symbol:	FGFR1
Synonyms:	bFGF-R-1; BFGFR; CD331; CEK; ECCL; FGFBR; FGFR-1; FLG; FLT-2; FLT2; HBGFR; HH2; HRTFDS; KAL2; N-SAM; OGD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_023106, the custom clone sequence may differ by one or more nucleotides

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ATGTGGAGCTGGAAGTGCCTCCTCTTCTGGGCTGTGCTGGTCACAGCCACTCTGCACCGCTAGGCCGT
CCCCGACCTTGCCTGAACAAGATGCTCTCCCCTCCTCGGAGGATGATGATGATGATGACTCCTCTTC
AGAGGAGAAAGAAACAGATAACACCAAACCAACCCCGTAGCTCCATATTGGACATCCCCAGAAAAGATG
GAAAAGAAATTGCATGCAGTGCCGGCTGCCAAGACAGTGAAGTTCAAATGCCCTTCCAGTGGGACCCCAA
ACCCACACTGCCTGGTTGAAAATGGCAAAGAATTCAAACCTGACCACAGAATTGGAGGCTACAAGGT
CCGTTATGCCACCTGGAGCATCATAATGGACTCTGTGGTGCCCTCTGACAAGGGCAACTACACCTGCATT
GTGGAGAATGAGTACGGCAGCATCAACCACACATACCAGCTGGATGTCGTGGAGCGGTCCCCTCACCGGC
CCATCCTGCAAGCAGGGTTGCCCGCAACAAAACAGTGGCCCTGGGTAGCAACGTGGAGTTCATGTGTAA
GGTGTACAGTGACCCGCAGCCGCACATCCAGTGGCTAAAGCACATCGAGGTGAATGGGAGCAAGATTGGC
CCAGACAACCTGCCTTATGTCCAGATCTTGAAGACTGCTGGAGTTAATACCACCGACAAAAGAGATGGAGG
TGCTTCACTTAAGAAATGTCTCCTTTGAGGACGCAGGGGAGTATACGTGCTTGGCGGGTAACTCTATCGG
ACTCTCCCATCACTCTGCATGGTTGACCGTTCTGGAAGCCCTGGAAGAGAGGCCGGCAGTGATGACCTCG
CCCCTGTACCTGGAGATCATCATCTATTGCACAGGGGCCCTTCTCATCTCCTGCATGGTGGGGTCGGTCA
TCGTCTACAAGATGAAGAGTGGTACCAAGAAGAGTGACTTCCACAGCCAGATGGCTGTGCACAAGCTGGC
CAAGAGCATCCCTCTGCGCAGACAGGTAACAGTGTCTGCTGACTCCAGTGCATCCATGAACTCTGGGGTT
CTTCTGGTTGGCCATCACGGCTCTCCTCCAGTGGGACTCCCATGCTAGCAGGGGTCTCTGAGTATGAGC
TTCCCGAAGACCCCTCGCTGGGAGCTGCCTCGGGACAGACTGGTCTTAGGCAAACCCCTGGGAGAGGGCTG
CTTTGGCAGGTGGTGTGGCAGAGGCTATCGGGCTGGACAAGGACAAACCAACCGTGTGACCAAAGTG
GCTGTGAAGATGTTGAAGTCGGACGCAACAGAGAAAGACTTGTGACACCTGATCTCAGAAATGGAGATGA
TGAAGATGATCGGGAAGCATAAGAATATCATCAACCTGCTGGGGGCTGCACGCAGGATGGTCCCTTGTA
TGTGATCGTGGAGTATGCCTCCAAGGGCAACTGCGGGAGTACCTGCAGGCCCGGAGGCCCCAGGGCTG
GAATACTGCTACAACCCAGCCACAACCCAGAGGAGCAGCTCTCCTCCAAGGACCTGGTGTCTGCGCCT
ACCAGGTGGCCCGAGGCATGGAGTATCTGGCCTCCAAGAAGTGCATACACCGAGACCTGGCAGCCAGGAA
TGTCTGGTGACAGAGGACAATGTGATGAAGATAGCAGACTTTGGCCTCGCACGGGACATTCACCACATC
GACTACTATAAAAAGACAACCAACGGCCGACTGCCTGTGAAGTGGATGGCACCCGAGGCATTATTTGACC
GGATCTACACCCACCAGAGTGTGTGGTCTTTCGGGGTGTCTCCTGTGGGAGATCTTCACTCTGGGCGG
CTCCCCATACCCCGGTGTGCCTGTGGAGGAACCTTTCAAGCTGCTGAAGGAGGGTACCAGCATGGACAAG
CCCAGTAACTGCACCAACGAGCTGTACATGATGATGCGGGACTGCTGGCATGCAGTGCCCTCACAGAGAC
CCACCTTCAAGCAGCTGGTGAAGACCTGGACCGCATCGTGGCCTTGACCTCAACCCAGGAGTACCTGGA
CCTGTCCATGCCCTGGACCACTACTCCCCAGCTTTCCCGACACCCGGAGCTCTACGTGCTCCTCAGGG
GAGGATCCGTCTTCTCATGAGCCGCTGCCCGAGGAGCCCTGCCTGCCCGACACCCAGCCAGCTTG
CCAATGGCGGACTCAAACGCCGCTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_023106 unedited ACCGCCGTTGAGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAA CCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGGGAGCTCTTGCGAC CCCCCAGGACCCGAACAGAGCCCGGGGGCGGGCCGGAGCCGGGGACGCGGGGACACGCCCGCTCGC ACAAGCCACGGCGGACTCTCCGAGGCGGAACCTCCACGCCGAGCGAGGGTCAGTTTGAAAAGGAGGATC GGACTCACTGTGGAGTATCCATGGAGATGTGGAGCCTTGTACCAACCTTAAGTGCAGAACTGGGATGT GGAGCTGGGAAGTGCCTCCTCTTTCTGGGCTGTGCTGGTCACAGCCACCCTTTGCACCCCGCTAAGGC CCGTCCCCGAACCTTTGGCCTGGAACAAAATGCTCTTCCCTCCCTCGAAGGATGATGATGATGAA TGAATGACTCCTCTTGAAGGAGAAAGAAACAAATAACCCCAAACCAACCCCGTCTCCATATTGA ACCTTCCCCGAAAAAAATGGGAAAAAAATTCATGCATGGGCGGTGTGAAAAACAGGGAAATTTTC AATGCGCCTTTTCATGGGGCACCCCAACCCCCACCTGGGCTCGGGTTGAAAAAGGGCAAAAGAATCTCC ACCCCTCCACAGAGATTGTGGCGTACAAGGGCGGTTTTGGCCCTTGAACGTTATAATAGAGATTCTGG GGTGCCCTTCTGAAGGGGACTCCACCCCAAGTTTTGGGGATAAGTTACTGCGGCATCAACCCCAACAC CCCTGGTGGTCTTGGGGAGGGTCTCTCCAGGGATATTCTGGCAACGATGTTGCCCCCAACAACAGTGC CGTTGACTGGAGTTATATGTATGTGTACTGATCACACCACCACCATGTGTGCGACATCAATAGTATG AGGCCATAGTGCCACACCGCTCAGTTCCGGACCTTTAGCAGTC
Kinase Domain Sequence:	>SC323593 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation GAGCTGCTTTGGGCGAGTGGTGTGGCAGAGGCTATCGGGCTGGACAAGGACAAACCAACCGTGTGACC AAAGTGGCTGTGATGATGTTGAAGTCGGACGCAACAGAGAAAGACTTGTGACACCTGATCTCAGAAATGG AGATGATGAAGATGATCGGAAGCATAAGAATATCATCAACCTGTGGGGCCTGCACGCGAGGATGGTCC CTTGATGTCATCGTGGAGTATGCCTCAAGGGCAACCTGCGGGA
Restriction Sites:	Please inquire
ACCN:	NM_023106
Insert Size:	3330 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:	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." Cell, 2008 May p536-548.
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:	NM_023106.1 , NP_075594.1

RefSeq Size:	3786 bp
RefSeq ORF:	2196 bp
Locus ID:	2260
UniProt ID:	P11362
Cytogenetics:	8p11.23
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	Adherens junction, MAPK signaling pathway, Melanoma, Pathways in cancer, Prostate cancer, Regulation of actin cytoskeleton
Gene Summary:	<p>The protein encoded by this gene is a member of the fibroblast growth factor receptor (FGFR) 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 binds both acidic and basic fibroblast growth factors and is involved in limb induction. Mutations in this gene have been associated with Pfeiffer syndrome, Jackson-Weiss syndrome, Antley-Bixler syndrome, osteoglophonic dysplasia, and autosomal dominant Kallmann syndrome 2. Chromosomal aberrations involving this gene are associated with stem cell myeloproliferative disorder and stem cell leukemia lymphoma syndrome. Alternatively spliced variants which encode different protein isoforms have been described; however, not all variants have been fully characterized. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (4) lacks an alternate in-frame exon and uses a different in-frame splice junction compared to variant 1. This variant encodes isoform 4, also known as isoform I, H3, and the 2-Ig Domain form, which is 91 aa shorter than isoform 1.</p>