

Product datasheet for **SC329106**

FGFR1 (NM_001174066) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FGFR1 (NM_001174066) 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-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001174066, the custom clone sequence may differ by one or more nucleotides

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ATGTGGAGCTGGAAGTGCCTCCTCTTCTGGGCTGTGCTGGTACACGCCACACTCTGCACC
GCTAGGCCGTCCCCGACCTTGCCTGAACAAGATGCTCTCCCCTCCTCGGAGGATGATGAT
GATGATGATGACTCCTCTTCCAGAGGAGAAAAGAAACAGATAACACCAAACCAAACCGTATG
CCCGTAGCTCCATATTGGACATCCCCAGAAAAGATGAAAAAGAAATTGCATGCAGTGCCG
CCTGCCAAGACAGTGAAGTTCAAATGCCCTTCCAGTGGGACCCCAACCCACACTGCGC
TGTTGAAAAATGGCAAAGAATTCAAACCTGACCACAGAATTGGAGGCTACAAGGTCCT
TATGCCACCTGGAGCATATAATGGACTCTGTGGTGCCTCTGACAAGGGCAACTACACC
TGCATTGTGGAGAATGAGTACGGCAGCATCAACCACACATACCAGCTGGATGTCGTGGAG
CGGTCCCCTACCGGCCATCCTGCAAGCAGGGTTGCCCGCAACAAAACAGTGGCCCTG
GGTAGCAACGTGGAGTTCATGTGAAGGTGTACAGTGACCCGACGCCACATCCAGTGG
CTAAAGCACATCGAGGTGAATGGGAGCAAGATTGGCCAGACAACCTGCCTTATGTCCAG
ATCTTGAAGACTGCTGGAGTTAATACCACCGACAAGAGATGGAGGTGCTTCACTTAAGA
AATGTCTCCTTTGAGGACGAGGGGAGTATACGTGCTTGGCGGGTAACTCTATCGGACTC
TCCCATCACTCTGCATGGTTGACCGTTCTGGAAGCCCTGGAAGAGAGGCCGGCAGTGATG
ACCTCGCCCTGTACCTGGAGATCATCATCTATTGCACAGGGGCCCTTCTCATCTCCTGC
ATGGTGGGGTTCGGTTCATCGTCTACAAGATGAAGAGTGGTACCAAGAAGAGTGACTTCCAC
AGCCAGATGGCTGTGCACAAGCTGGCCAAGAGCATCCCTCTGCGCAGACAGGTAACAGTG
TCTGCTGACTCCAGTGCATCCATGAACTCTGGGGTTCTTCTGGTTCGGCCATCACGGCTC
TCCTCCAGTGGGACTCCCATGCTAGCAGGGTCTCTGAGTATGAGCTTCCCGAAGACCCT
CGCTGGGAGCTGCCTCGGGACAGACTGGTCTTAGGCAAACCCCTGGGAGAGGGCTGCTTT
GGCAGGTGGTGTGGCAGAGGCTATCGGGCTGGACAAGGACAAACCCAAACCGTGTGACC
AAAGTGGCTGTGAAGATGTTGAAGTTCGGACGCAACAGAGAAAGACTTGTACAGACCTGATC
TCAGAAATGGAGATGATGAAGATGATCGGGAAGCATAAGAATATCATCAACCTGTGGGG
GCCTGCACGCAGGATGGTCCCTTGTATGTCATCGTGGAGTATGCCTCCAAGGGCAACCTG
CGGGAGTACCTGCAGGCCCGGAGGCCCCAGGGCTGGAATACTGTACAACCCAGCCAC
AACCCAGAGGAGCAGCTCTCCTCAAGGACCTGGTGTCTGCGCCTACCAGGTGGCCGA
GGCATGGAGTATCTGGCCTCCAAGAAGTGCATACACCGAGACCTGGCAGCCAGGAATGTC
CTGGTGACAGAGGACAATGTGATGAAGATAGCAGACTTTGGCCTGCACGGGACATTAC
CACATCGACTACTATAAAAAGACAACCAACGGCCGACTGCCTGTGAAGTGGATGGCACCC
GAGGCATTATTTGACCGATCTACACCCACCAGAGTGATGTGTGGTCTTTCGGGGTGCTC
CTGTGGGAGATCTTCACTCTGGGCGGCTCCCATACCCCGGTGTGCCTGTGGAGGAACTT
TTCAAGCTGCTGAAGGAGGGTACCCGCATGGACAAGCCAGTAACTGCACCAACGAGCTG
TACATGATGATGCGGGACTGCTGGCATGCAGTGCCTCACAGAGACCCACCTTCAAGCAG
CTGGTGGAAAGACTGGACCGCATCGTGGCCTTGACCTCAACCCAGGAGTACCTGGACCTG
TCCATGCCCTGGACAGTACTCCCCAGCTTTCCCGACACCCGGAGCTTACGTGCTCC
TCAGGGGAGGATTCCGTCTTCTCATGAGCCGCTGCCCGAGGAGCCCTGCCTGCCCCGA
CACCCAGCCCAGCTTGCCAATGGCGGACTCAAACGCCGCTGA

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Restriction Sites: Please inquire

ACCN: NM_001174066

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.

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_001174066.1</u> , <u>NP_001167537.1</u>
RefSeq Size:	4954 bp
RefSeq ORF:	2202 bp
Locus ID:	2260
UniProt ID:	<u>P11362</u>
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 (12) represents use of an alternate promoter and 5' UTR and lacks an alternate in-frame exon in the 5' coding region, compared to variant 1. The resulting isoform (3), also known as isoform Beta A1, II, H2, and the 2-Ig Domain+2 AA insert form, lacks the first Ig domain, compared to isoform 1. Both variants 3 and 13 encode the same isoform.</p>