

Product datasheet for **SC329153**

FGFR1 (NM_001174063) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FGFR1 (NM_001174063) 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_001174063, the custom clone sequence may differ by one or more nucleotides

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ATGTGGAGCTGGAAGTGCCTCCTCTTCTGGGCTGTGCTGGTCACAGCCACACTCTGCACC
GCTAGGCCGTCCCCGACCTTGCCTGAACAAGCCCAGCCCTGGGGAGCCCTGTGGAAGTG
GAGTCCTTCTGGTCCACCCCGTGACCTGCTGCAGCTTCGCTGTCGGCTGCGGGACGAT
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ATCACAGGGGAGGAGGTGGAGGTGCAGGACTCCGTGCCCGCAGACTCCGGCCTCTATGCT
TGCCTAACCAGCAGCCCTCGGGCAGTGACACCCTACTTCTCCGTCAATGTTTCAGAT
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CACAGAATTGGAGGCTACAAGTCCGTTATGCCACCTGGAGCATCATAATGGACTCTGTG
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CACACATACCAGCTGGATGTCGTGGAGCGGTCCCCTACCGGCCCATCCTGCAAGCAGGG
TTGCCCGCAACAAAACAGTGGCCCTGGGTAGCAACGTGGAGTTCATGTGTAAGGTGTAC
AGTGACCCGCAGCCGCACATCCAGTGGCTAAAGCACATCGAGGTGAATGGGAGCAAGATT
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AAAGAGATGGAGGTGCTTCACTTAAAGAAATGTCTCCTTTGAGGACGCAGGGGAGTATACG
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TGCACAGGGCCCTTCTCATCTCCTGCATGGTGGGGTCCGTCATCGTCTACAAGATGAAG
AGTGGTACCAAGAAGAGTGACTTCCACAGCCAGATGGCTGTGCACAAGCTGGCCAAGAGC
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AATATCATCAACCTGCTGGGGCCTGCACGCAGGATGGTCCCTTGTATGTCATCGTGGAG
TATGCCTCCAAGGGCAACCTGCGGGAGTACCTGCAGGCCCGGAGGCCCCAGGGCTGGAA
TACTGCTACAACCCAGCCACAACCCAGAGGAGCAGCTCTCCTCCAAGGACCTGGTGTCC
TGCGCCTACCAGGTGGCCCGAGGCATGGAGTATCTGGCCTCCAAGAAGTGCATACACCGA
GACCTGGCAGCCAGGAATGTCTGGTGACAGAGGACAATGTGATGAAGATAGCAGACTTT
GGCCTCGCACGGGACATTCACCACATCGACTACTATAAAAAGACAACCAACGGCCGACTG
CCTGTGAAGTGGATGGCACCCGAGGCATATTTGACCGGATCTACACCCACAGAGTGAT
GTGTGGTCTTTCGGGGTGTCTCTGTGGGAGATCTTCACTCTGGGCGGCTCCCCATACCC
GGTGTGCCTGTGGAGGAACCTTTCAAGCTGCTGAAGGAGGGTACCGCATGGACAAGCCC
AGTAACTGCACCAACGAGCTGTACATGATGATGCGGGACTGCTGGCATGCAGTGCCTCA
CAGAGACCCACCTTCAAGCAGCTGGTGAAGACCTGGACCGCATCGTGGCCTTGACCTCC
AACCAGGAGTACCTGGACCTGTCCATGCCCTGGACCAGTACTCCCCAGCTTTCGGAC
ACCCGGAGCTCTACGTGCTCCTCAGGGGAGGATTCCGTCTTCTCTCATGAGCCGCTGCC
GAGGAGCCCTGCCTGCCCGACACCCAGCCAGCTTGCCAATGGCGGACTCAAACGCCGC
TGA
    
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Restriction Sites: Please inquire
ACCN: NM_001174063

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_001174063.1</u> , <u>NP_001167534.1</u>
RefSeq Size:	5895 bp
RefSeq ORF:	2463 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:

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]

Transcript Variant: This variant (10) uses an alternate in-frame splice site in the central coding region, compared to variant 1. The resulting isoform (10) lacks a 2-aa segment, compared to isoform 1.