

Product datasheet for **SC109228**

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-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_023106 edited
ATGTGGAGCTGGAAGTGCCTCCTTCTGGGCTGTGCTGGTCACAGCCACACTCTGCACC
GCTAGGCCGTCCTCCGACCTTGCCTGAACAAGATGCTCTCCCTCCTCGGAGGATGATGAT
GATGATGATGACTCCTCTTACAGAGGAGAAAAGAAACAGATAACACCAAACCAAACCCCGTA
GCTCCATATTGGACATCCCCAGAAAAGATGGAAAAGAAATTGCATGCAGTGCCGGCTGCC
AAGACAGTGAAGTCAAATGCCCTTCCAGTGGGACCCCAACCCACACTGCGCTGGTTG
AAAAATGGCAAAGAATTCAAACCTGACCACAGAATTGGAGGCTACAAGGTCGGTTATGCC
ACCTGGAGCATCATAATGGACTCTGTGGTGCCCTCTGACAAGGGCAACTACACCTGCATT
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CCTCACCGGCCATCCTGCAAGCAGGGTTGCCCGCAACAAAACAGTGGCCCTGGGTAGC
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CACATCGAGGTGAATGGGAGCAAGATTGGCCCAGACAACCTGCCTTATGTCCAGATCTTG
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TCCTTTGAGGACGCAGGGGAGTATACGTGCTTGGCGGGTAACTCTATCGGACTCTCCAT
CACTCTGCATGGTTGACCGTTCTGGAAGCCCTGGAAGAGAGGCCCGCAGTGATGACCTCG
CCCTGTACCTGGAGATCATCATCTATTGCACAGGGGCCCTTCTCATCTCTGCATGGTG
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ATGATGCGGGACTGCTGGCATGCAGTGCCCTCACAGAGACCCACCTTCAAGCAGCTGGTG
GAAGACCTGGACCGCATCGTGGCCTTGACCTCAAACAGGAGTACCTGGACCTGTCCATG
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AAAGGGTCGTTACCAGAGATTTACCCATCGGGTAAAGATGCTCCTGGTGGCTGGGAGGCAT
CAGTTGCTATATATTAACCAAAAAAAAAAAAAAAAAAAAA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_023106 unedited
 NGGTTACATTTTGTNATACGACTCACTATAGGGCGGCCGNAATTCGCACGAGGGAGC
 TCTTGGCACCCCGCCAGNACCCGAACAGAGCCCGGGGGCGGGCCGGAGCCGGGGACG
 CGGGCACAGCCCGCTCGACAAGCCACGGCGGACTCTCCCGAGGCGGAACCTCCACGCC
 GAGCGAGGGTCAGTTTAAAAAGGAGGATCGAGCTCACTGTGGAGTATCCATGGAGATGTG
 GAGCCTTGTACCAACCTCTAACTGCAGAACTGGGATGTGGAGCTGGAAGTGCCTCCTCT
 TCTGGCTGTGCTGGTCACAGCCACACTCTGCACCGCTAGGCCGTCCTCCGACCTTGCCTG
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 CCAGTGGGACCCAAACCCACACTGCGCTGGTTGAAAAATGGCAAAGAATCAAACCTG
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 TGGTGCCTCTGACAAGGGCAACTACACCTGCATTGTGGAGAATGAGTACGGCAGCATCA
 ACCACACATACCAGCTGGATGTCGTGGAGCGGTCCCTCACCGGCCATCCTGNCAGCAG
 GGTTGCCCGCAAACAAAGTGGCCCTGGGTAGCAACGTGGAGTTCATGTGTAAGGTGTA
 CAGTGACCCGACCCGCACATCCAGTGGCTAAAGCCATCGAGGTGAATGGGGAGCAGATG
 GCCCANACACCTGCNCTATGTCCAGATCTTGAGACTGCTGGNAGTAATACCACGACAAGA
 G

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_023106 unedited
 TATGGAACGGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTGGTTTTAATAT
 ATAGCAACTGATGCCTCCAGCCACCAGGAGCATCTTACCGATGGGTAAATCTCTGGTA
 ACGACCCTTTTAAAAAGACATGTAATATATACTCAGATTTATACACTTTGTGTTTTCTT
 CATAGCTATATACAGAGCCCCAGTTTGGGGCTGGGCCCCAGGGCCACAACACTGCCCCC
 AACCTGGCCTTCGCCTACCATCCTCTGGTACCAGGCATTTGGTCAGCAAAGCAAACCTAG
 TATCGGAATTAATAAGCCACTGGCACCCTATCTGGGGCAGAGGTACCTTCAATCGAG
 GCACGAAGCACTGACCTCCCTACTGCTGTAGCCCTGAGGACAAGGCACCTGCCACCAGAG
 TGCGAGGGGCTTATGGGTGAAGGCAAAACAGACCAAACCGACAGGAGAAAGCTCAGGAAG
 CTCTCACTTGCATGCCTGTTTATTGGCTCCCACTCCCTGCCCTCCAGGCAGTGCCTGGT
 GCAGGGAGGGGTGTTGGTCCAACATCTGGGAGGGGATGAAGTGGCTGGCAGCAAAGATCT
 GCCTCTTTGCACCTCTCACANCANGTGGAGAGGAGGTGGAGGGAGAGGTGAGCTGAGTG
 GGGTGAAGGCAGGCCACACAGGAAGGCCCTGGTANGCAGCCGGCTCCTGCCAGCAGGAA
 AGGGGACAGGGACGGACAGGTGGTGGGCCANCAGNGCTGTGGGTGAGGGTTACAGCTG
 ACCGTGNANTCCTGNGAGGGCGTGTGGGTGGCAATCACCGCGTTTGTGAGTCCGCCATTGG
 CAAGCTGGGCTGGGTGTCNNGGGCAGCAGGNTCCTCGGNCANNCGCTCATGAGAGAAGA
 CGAATCCTTCCCCTGAGACACGTANAGCTCCGGNTGTCGAAAAGCTGGGGAGTACTGGT
 CCAGGGCATGGACAAGGTCAGTT

Restriction Sites:

NotI-NotI

ACCN:

NM_023106

Insert Size:

3000 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 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:	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>