

Product datasheet for **SC114629**

FGFR1 (NM_015850) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FGFR1 (NM_015850) 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:

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>OriGene ORF sequence for NM_015850 edited
ATGTGGAGCTGGAAGTGCCTCCTTCTGGGCTGTGCTGGTCACAGCCACACTCTGCACC
GCTAGGCCGTCCTCCGACCTTGCCTGAACAAGCCCAGCCCTGGGGAGCCCTGTGGAAGTG
GAGTCCTTCTGGTCCACCCCGTGACCTGCTGCAGCTTCGCTGTGCGGCTGCGGGACGAT
GTGCAGAGCATCAACTGGCTGCGGGACGGGGTGCAGCTGGCGGAAAGCAACCGCACCCGC
ATCACAGGGGAGGAGGTGGAGGTGCAGGACTCCGTGCCCGCAGACTCCGGCCTCTATGCT
TGGCTAACACAGCAGCCCTCGGGCAGTGACACCACCTACTTCTCCGTCAATGTTTTAGAT
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TCTGACAAAGGCAACTACACCTGCATTGTGGAGAATGAGTACGGCAGCATCAACCACACA
TACCAGCTGGATGTCGTGGAGCGGTCCCTCACCGGCCATCCTGCAAGCAGGGTTGCC
GCCAACAAAACAGTGGCCCTGGGTAGCAACGTGGAGTTTATGTGTAAGGTGTACAGTGAC
CCGCAGCCGCACATCCAGTGGCTAAAGCACATCGAGGTGAATGGGAGCAAGATTGCCCA
GACAACCTGCCTTATGTCCAGATCTTGAAGACTGCTGGAGTTAATACCACCGACAAGAG
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GAAGAGAGGCCCGCAGTATGACCTCGCCCTGTACCTGGAGATCATCATCTATTGCACA
GGGGCCTTCTCATCTCCTGCATGGTGGGGTGGTTCATCGTCTACAAGATGAAGAGTGGT
ACCAAGAAGAGTGACTTCCACAGCCAGATGGCTGTGCACAAGCTGGCCAAGAGCATCCCT
CTGCCAGACAGGTGTCTGCTGACTCCAGTGCATCCATGAACTTGGGGTCTTCTGGTT
CGGCCATCACGGCTCTCCTCCAGTGGGACTCCCATGCTAGCAGGGTCTCTGAGTATGAG
CTTCCCGAAGACCCTCGCTGGGAGCTGCCTCGGGACAGACTGGTCTTAGGCAAACCCCTG
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CCCAACCGTGTGACCAAAGTGGCTGTGAAGATGTTGAAGTCGGACGCAACAGAGAAAGAC
TTGTCAGACCTGATCTCAGAAATGGAGATGATGAAGATGATCGGGAAAGCATAAGAATATC
ATCAACCTGCTGGGGCCTGCACGCAGGATGGTCCCTTGTATGTCATCGTGGAGTATGCC
TCCAAGGGCAACCTGCGGAGTACCTGCAGGCCCGGAGGCCCCAGGGCTGGAATACTGC
TACAACCCAGCCACAACCCAGAGGAGCAGCTCTCCTCCAAGGACCTGGTGTCTGCGCC
TACCAGGTGGCCCGAGGCATGGAGTATCTGGCCTCCAAGAAGTGATACACCGAGACCTG
GCAGCCAGGAATGTCTGGTGCAGAGGACAATGTGATGAAGATAGCAGACTTTGGCCTC
GCACGGGACATTACCACATCGACTACTATAAAAAGACAACCAACGGCCGACTGCCTGTG
AAGTGGATGGCACCCGAGGCATTATTTGACCGGATCTACACCCACCAGAGTATGTGTGG
TCTTTGCGGGTGTCTCTGTGGGAGATCTTCACTCTGGGCGGCTCCCATACCCCGGTGTG
CCTGTGGAGGAACCTTTCAAGCTGCTGAAGGAGGGTACCCGCATGGACAAGCCAGTAAC
TGCACCAACGAGCTGTACATGATGATGCGGGACTGCTGGCATGCAGTGCCTCACAGAGA
CCCACCTTCAAGCAGCTGGTGGAAAGACCTGGACCGCATCGTGGCCTTGACCTCCAACCG
GAGTACCTGGACCTGTCCATGCCCTGGACCAAGTACTCCCCAGCTTTCCCGACACCCGG
AGCTCTACGTGCTCCTCAGGGGAGGATTCCGTCTTCTCTCATGAGCCGCTGCCCGAGGAG
CCCTGCCTGCCCGACACCCAGCCAGCTTGCCAAATGGCGGACTCAAACGCCGCTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_015850 unedited</p> <pre>TTCAGATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGCCGGTGCAGCC GCAGCGCGCGGAGGAACCCGGGTGTGCCGGGAGCTGGGCGGCCACGTCCGGACGGGACCG AGACCCCTCGTAGCGCATTGCGGCGACCTCGCCTTCCCGGCCGCGAGCGCGCCGCTGCT TGAAAAGCCGCGGAACCAAGGACTTTTCTCCGGTCCGAGCTCGGGGCGCCCCGAGGGC GCACGGTACCCGTGCTGCAGTCGGGCACGCCGCGGCCGGGGCTCCGACAGGGCGATGG AGCCCCGTCTGCAAGAAAGTGAGGCGCCGCGCTGCGTTCTGGAGGAGGGGGGCACAAG GTCTGGAGACCCCGGTGGCGGACGGGAGCCCTCCCCCGCCCGCTCCGGGGCACAG CTCCGGCTCCATTGTTCCCGCCCGGCTGGAGGCGCCGAGCACCGAGCGCCGCGGGAGT CGAGCGCCGCGCGGAGCTCTTGCGACCCCGCCAGGACCCGAACAGAGCCCGNGGCGG CGGGCCGAGCCGGGACGCGGGCACACGCCCGCTCGACAAGCCACGGCGGACTCTCC GAGGCGGAACCTCCACGCCGAGCGAGGGTCAGTTTAAAAGGAGGATCGAGCTCACTGTG GAGTATCCATGGAGATGTGGAGCCTTGTACCAACCTCTAACTGCAGAACTGGGATGTGG AGCTGGAAGTGCCTNCTTCTGGGCTGTGCTGGCACAGNCACACTCTGCACCGTAGGC CGTCCCCGACCTTGCCTTGACAAGCCACCTGGGGAGCCCTGGGGAAGTGGAGTCTTC CTGGTCCACCCCGTGACCTGCTGCAGCTTCTGTGCGTTGCGGGACAAGTGCAGACATCA CTGGCTGCGGAACGGGTGC</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_015850 unedited</p> <pre>NNNTTTTTTCTATGGACCGCGCCGCAATCTAGNGATCGGTTTTTTTTTTTTTTTTTTTGG AAGCAGCAGCAATTTTTATTGAGGGACCTAAACTGAAAAAGGTTTAGAACAATTTAAA AAAATAAAACAGCAAAAGTAGCAAAAAATATGACCTTTTTAAAAACATTTTCTTTTT TTTTCTTTTTTGTTTTTAATATATAGCAACTGATGCCTCCAGCCACCAGGAGCATCTTA CCCGATGGGTAATCTCTGGTAACGACCCTTTTAAAAGACATGTAATATATACTCAGA TTTATACACTTTGTGTTTTCTTCATAGCTATATACAGAGCCCCAGTTTGGGGCTGGCC CCAGGGCCACAACACTGCCCCCAACCTGGCCTTCGCCTCACCATCCTCTGGTACCAGGCA TTTGGTCAGCAAAGCAAAGTATCGGAATTAATAAGCCACTGGCACCACCTATCTGGG GCAGAGGTCACCTTCAATCGAGGCACGAAGCACTGACCTCCCTACTGCTGTAGCCCTGAG GACAAGGCACCTGCCACCAGAGTGGGAGGGCTTATGGGTGAAGGCAAAACAGACAAAC CGACAGGAGAAAAGCTCAGGAAGCTCTCACTTGCATGCCTGTTTCATTGGCTCCCACCT GCCCTCCAGGCAGTGCCTGGTGGCAGGGAGGGGTGTTGGTCCAACATCTGGGAGGGGAT GAAGTGGCTGGCAGCAAAGATCTGCCTCTTGCACCTCTCACANNACAGTGGAAAGGAAG TGAGNGNANNAGTGACTGAGTGGNNNNNAAAAAANACAGCCACCCAGGAAAGGCCCC TGGTAGGCAGCCGGCTTCTGCCAGCAGAAAGGGGACCAGGGACGACAGGGGGTGGGCCCA CAAGGGCTGGGGNAAAAGGTACAGCTGACC</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_015850
Insert Size:	4300 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).
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:

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_015850.2](#), [NP_056934.2](#)

RefSeq Size: 5911 bp

RefSeq ORF: 2463 bp

Locus ID: 2260

UniProt ID: [P11362](#)

Cytogenetics: 8p11.23

Domains: pkinase, TyrKc, S_TKc, ig, IGc2, IG

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 (2) uses an alternate in-frame splice site in the 5' coding region, compared to variant 1. The resulting isoform (2), also known as isoform A, III, and the 3-Ig domain form, lacks a 2-aa segment, compared to isoform 1. Both variants 2 and 12 encode the same isoform.