

Product datasheet for **RC210629**

FGFR1 (NM_023105) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FGFR1 (NM_023105) Human Tagged ORF Clone
Tag:	Myc-DDK
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:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC210629 representing NM_023105
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGGAGCTGGAAGTGCCTCCTCTTCTGGGCTGTGCTGGTACACGCCACTCTGCACCGCTAGGCCGT
 CCCGACCTTGCCTGAACAAGATGCTCTCCCTCCTCGGAGGATGATGATGATGATGACTCCTCTTC
 AGAGGAGAAAAGAAACAGATAACACCAAACCAAACCGTATGCCCGTAGCTCCATATTGGACATCCCCAGAA
 AAGATGGAAGAAATTGCATGCAGTGCAGGCTGCCAAGACAGTGAAGTCAAATGCCCTTCCAGTGGGA
 CCCAAACCCCACTGCGCTGGTTGAAAAATGGCAAAGAATTCAAACCTGACCACAGAATTGGAGGCTA
 CAAGGTCCGTTATGCCACCTGGAGCATCATAATGGACTCTGTGGTGCCTCTGACAAGGGCAACTACACC
 TGCATTGTGGAGAATGAGTACGGCAGCATCAACCACACATACCAGCTGGATGTCGTGGAGCGGTCCCCTC
 ACCGGCCCATCTGCAAGCAGGGTTGCCGCCAACAAAACAGTGGCCCTGGGTAGCAACGTGGAGTTCAT
 GTGTAAGGTGTACAGTGACCCGACCCGCACATCCAGTGGCTAAAGCACATCGAGGTGAATGGGAGCAAG
 ATTGAGCCAGACAACCTGCCTTATGTCCAGATCTTGAAGACTGCTGGAGTTAATACCACCGACAAAGAGA
 TGGAGGTGCTTCACTTAAGAAATGTCTCCTTTGAGGACGCAGGGGAGTATACGTGCTTGGCGGGTAACTC
 TATCGGACTCTCCATCACTCTGCATGGTTGACCGTCTTGAAGCCCTGGAAGAGAGGCCCGCAGTGATG
 ACCTCGCCCTGTACCTGGAGATCATCATCTATTGCACAGGGGCTTCTCATCTCCTGCATGGTGGGGT
 CGGTATCGTCTACAAGATGAAGAGTGGTACCAAGAAGAGTGACTCCACAGCCAGATGGCTGTGCACAA
 GCTGGCCAAGAGCATCCCTCTGCGCAGACAGGTAACAGTGTCTGCTGACTCCAGTGCATCCATGAACTCT
 GGGGTTCTTCTGGTTCGGCCATCACGGCTCTCCTCCAGTGGGACTCCCATGTAGCAGGGGTCTCTGAGT
 ATGAGCTTCCCGAAGACCCTCGCTGGGAGCTGCCTCGGGACAGACTGGTCTTAGGCAAACCCCTGGGAGA
 GGGCTGCTTGGGCAGGTGGTGTGGCAGAGGCTATCGGGCTGGACAAGGACAAACCCCAACCGTGTGACC
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 AGATGATGAAGATGATCGGGAAGCATAAGAATATCATCAACCTGCTGGGGCCTGCACGCAGGATGGTCC
 CTTGTATGTATCGTGGAGTATGCCTCAAGGGCAACCTGCGGGAGTACCTGCAGGCCCGGAGGCCCCCA
 GGGCTGGAATACTGCTACAACCCAGCCACAACCCAGAGGAGCAGCTCTCCTCAAGGACCTGGTGTCTCT
 GCGCTACCAGGTGGCCGAGGCATGGAGTATCTGGCCTCAAGAAGTGCATACCCGAGACCTGGCAGC
 CAGGAATGTCTGGTACAGAGGACAATGTGATGAAGATAGCAGACTTTGGCCTCGCACGGGACATTAC
 CACATCGACTACTATAAAAAGACAACCAACGGCCGACTGCCTGTGAAGTGGATGGCACCCGAGGCATTAT
 TTGACCGGATCTACACCCACCAGAGTGTGTGGTCTTTCGGGGTGTCTCTGTGGGAGATCTTCACTCT
 GGGCGGCTCCCCATACCCCGGTGTGCCTGTGGAGGAACCTTTCAAGCTGCTGAAGGAGGGTACCCGATG
 GACAAGCCAGTAACCTGCACCAACGAGCTGTACATGATGATGCGGGACTGCTGGCATGCAGTGCCCTCAC
 AGAGACCCACCTTCAAGCAGCTGGTGAAGACCTGGACCGCATCGTGGCCTTGACCTCAACCAGGAGTA
 CCTGGACCTGTCCATGCCCTGGACCAGTACTCCCCAGCTTCCCGACACCCGGAGCTCTACGTGCTCC
 TCAGGGGAGGATCCGTCTTCTCATGAGCCGCTGCCCGAGGAGCCCTGCCTGCCCCGACACCCAGCCC
 AGCTTGCCAATGGCGGACTCAAACGCCGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC210629 representing NM_023105
 Red=Cloning site Green=Tags(s)

MWSWKCLLFWAVLVTATLCTARPSPTLPEQDALPSEDDDDDDSSSEKETDNTKPNVPVAPYWTSPEKM
 EKKLHAVPAAKTVKFKCPSGTPNPTLRWLKNGKEFKPDHRIGGYKVRYATWSIIMDSVVP SDKGNYT
 CI VENEYGSINHYYQLDVVERSPHRPILQAGLPANKTVALGSNVEFMCKVYSDPQPHIQWLKHIEVNGSKIG
 PDNLPYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCLAGNSIGLSHHSAWLTVLEALEERP
 AVMTS PLYLEIIIIYCTGAFLLISCMVGSIVYKMKSGTKKSDFHSMQMAVHKLAKSIP
 LRRQVTVSADSSASMNSGV LLVRPSRLSSSGTPMLAGVSEYELPEDPRWELPRDRLV
 LGKPLGEGCFGQVVLAEAIGLDKDKPNRVTKV AVKMLKSDATEKDLSDLISEMEMMKMIGK
 HKNIINLLGACTQDGPLYVIVEYASKGNLREYLQARRPGL EYCYNPSHNPEEQLSSKDLV
 SCAYQVARGMEYLASKKCIHRDLAARNVLVTEDNVMIADFLARDIHHI DYYKKTNGRLP
 VKWMAPEALFDRIYTHQSDVVSFGVLLWEIFTLGGSPYPGVPVEELFKLLKEGHRMDK
 PSNCTNELYMMMRDCWHAVPSQRPTFKQLVEDLDRIVALTSNQEYLDLMSPLDQYSPSP
 FDPTRSSTCSSG EDSVFSHEPLPEEPCLPRHPAQLANGGLKRR

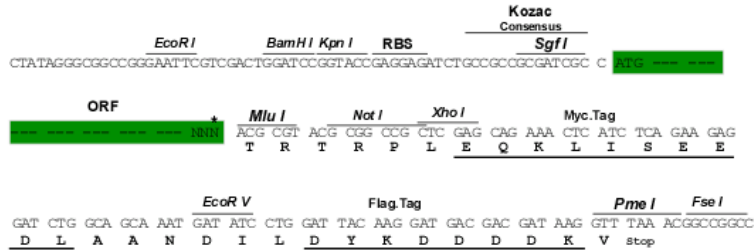
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

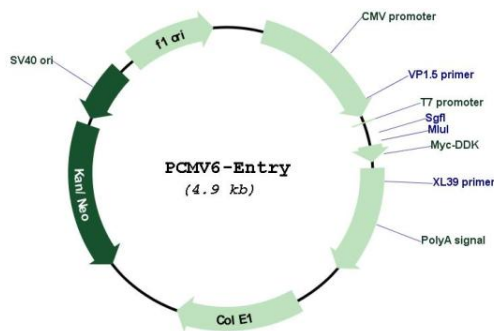
ACCN: NM_023105

ORF Size: 2199 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_023105.3
RefSeq Size:	5650 bp
RefSeq ORF:	2202 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
MW:	79.7 kDa

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]

Product images:

Circular map for RC210629