

## Product datasheet for **RC230511**

### **FGFR1 (NM\_001174064) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	FGFR1 (NM_001174064) 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)



[View online »](#)

**ORF Nucleotide  
Sequence:**

>RC230511 representing NM\_001174064  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCAGCTGTGACCCGGGATTTCCGGTGAAGATGCTTCTGCACTCTGGCCGGTCTGCCAGCCGAAGCCC  
 AGCCCTGGGGAGCCCTGTGGAAGTGGAGTCCTTCTGGTCCACCCCGGTGACCTGCTGCAGCTTCGCTG  
 TCGGCTGCGGGACGATGTGCAGAGCATCAACTGGCTGCGGGACGGGTGCAGCTGGCGGAAAGCAACCCG  
 ACCCGCATCACAGGGGAGGAGGTGGAGGTGCAGGACTCCGTGCCCGCAGACTCCGGCCTCTATGCTTGCG  
 TAACCAGCAGCCCTCGGCAGTGACACCACCTACTTCTCCGTCAATGTTTCAGATGCTCTCCCCTCCTC  
 GGAGGATGATGATGATGATGACTCCTTTCAGAGGAGAAAGAAACAGATAACACCAAACCAAACCGT  
 ATGCCCGTAGCTCCATATTGGACATCCCAGAAAAGATGGAAAAGAAATGCATGCAGTGCCGGCTGCCA  
 AGACAGTGAAGTTCAAAATGCCCTCCAGTGGGACCCCAACCCACACTGCGCTGGTTGAAAATGGCAA  
 AGAATTCAAAACCTGACCACAGAATTGGAGGCTACAAGGTCGTTATGCCACCTGGAGCATCATAATGGAC  
 TCTGTGGTGCCCTCTGACAAGGGCAACTACACCTGCATTGTGGAGAATGAGTACGGCAGCATCAACCACA  
 CATAACCAGCTGGATGTCGTGGAGCGGTCCCTCACCGGCCATCTGCAAGCAGGGTTGCCCGCCAAACA  
 AACAGTGGCCCTGGGTAGCAACGTGGAGTTCATGTGTAAGGTGTACAGTGACCCGAGCCGCACATCCAG  
 TGGCTAAAGCACATCGAGGTGAATGGGAGCAAGATTGGCCAGACAACCTGCCTTATGTCCAGATCTTGA  
 AGACTGCTGGAGTTAATACCACCGACAAAGAGATGGAGGTGCTTCACTTAAGAAATGTCTCTTTGAGGA  
 CGCAGGGGAGTACGTGCTTGGCGGTAACCTATCGGACTCTCCATCACTCTGCATGGTTGACCGTT  
 CTGGAAGCCCTGGAAGAGAGGGCCGCGAGTGACCTCGCCCTGTACCTGGAGATCATCATCTATTGCA  
 CAGGGGCTTCCATCTCTCTGCATGGTGGGTCGGTCACTGCTACAAGATGAAGAGTGGTACCAAGAA  
 GAGTGACTTCCACAGCCAGATGGCTGTGCACAAGCTGGCCAAGAGCATCCCTCTGCGCAGACAGGTGTCT  
 GCTGACTCCAGTGCATCCATGAACCTCTGGGTTCTTCTGGTTCGGCCATCACGGCTCTCCTCCAGTGGGA  
 CTCCCATGCTAGCAGGGTCTCTGAGTATGAGCTTCCCGAAGACCCTCGTGGGAGCTGCCTCGGGACAG  
 ACTGGTCTTAGGCAAACCCCTGGGAGAGGGTCTTTGGGAGGTGGTGTGGCAGAGGCTATCGGGCTG  
 GACAAGGACAAACCAACCGTGTGACCAAAGTGGCTGTGAAGATGTTGAAGTCGGACGCAACAGAGAAAG  
 ACTTGTGACAGCTGATCTCAGAAATGGAGATGATGAAGATGATCGGGAAGCATAAGAATATCATCAACCT  
 GCTGGGGCCTGCACGCAGGATGGTCCCTTGTATGTCATCGTGGAGTATGCCTCCAAGGGCAACCTGCGG  
 GAGTACCTGCAGGCCCGAGGCCCCAGGGCTGGAATACTGCTACAACCCAGCCACAACCCAGAGGAGC  
 AGCTCTCCTCCAAGGACCTGGTGTCTGCGCCTACCAGGTGGCCCGAGGCATGGAGTATCTGGCCTCCAA  
 GAAGTGCATACACCGAGACCTGGCAGCCAGGAATGTCCTGGTGACAGAGGACAATGTGATGAAGATAGCA  
 GACTTTGGCCTCGCACGGGACATTCACCACATCGACTACTATAAAAAGACAACCAACGGCCGACTGCCTG  
 TGAAGTGGATGGCACCCGAGGCATTATTTGACCGGATCTACACCCACAGAGTGTGTGGTCTTTTCGG  
 GGTGCTCTGTGGGAGATCTTCACTCTGGGCGGCTCCCCATACCCCGGTGTGCCTGTGGAGGAACTTTC  
 AAGCTGCTGAAGGAGGGTACCCGATGGACAAGCCAGTAAGTGCACCAACGAGCTGTACATGATGATGC  
 GGGACTGCTGGCATGCAGTGCCTCACAGAGACCACCTTCAAGCAGCTGGTGGAAAGACCTGGACCCGAT  
 CGTGGCCTTGACCTCCAACAGGAGTACCTGGACCTGTCCATGCCCTGGACCACTACTCCCCAGCTTT  
 CCCGACACCCGGAGCTCTACGTGCTCCTCAGGGGAGGATTCCGTCTTCTCATGAGCCGCTGCCGAGG  
 AGCCCTGCCTGCCCGACACCCAGCCAGCTTGCCAATGGCGGACTCAAACGCCGC

**ACGCGT**ACGCGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC230511 representing NM\_001174064  
 Red=Cloning site Green=Tags(s)

```

MAAVTRDFGEMLLHSGRVLPAEAQPWGAPVEVESFLVHPGDLQLRCRLRDDVQSINWLRDGVQLAESNR
TRITGEEVEVQDSVPADSGLYACVTSSPSGSDTTYFSVNVSDALPSEDDDDDDSSSEEKTDNTKPNR
MPVAPYWTSPEKMEKHLHAVPAAKTVKFKCPSGTPNPTLRWLKNGKEFKPDHRIGGYKVRATWSIIMD
SVVPSDKGNYTCIVENEYGSINHTYQLDVVERSHPRPILQAGLPANKTVALGSNVEFMCKVYSDPQPHIQ
WLKHIEVNGSKIGPDNLPYVQILKTAGVNTTDKEMEVLHLRNVSFEDAGEYTCLAGNSIGLSHSAWLTV
LEALEERPAVMTSPLYLEIIYCTGAFLISCMVGSVIVYKMKSGTKKSDFFHSQMAVHKLAKSIPLRRQVS
ADSSASMNSGVLLVRPSRLSSSGTPMLAGVSEYELPEDPRWELPRDRLVLGKPLGEGCFGQVVLAEIIGL
DKDKPNRVTKVAVKMLKSDATEKDLSDLISEMEMMKMIGKHKNIINLLGACTQDGPLYVIVEYASKGNLR
EYLQARRPPGLECYNPSHNPPEEQSSKDLVSCAYQVARGMEYLASKKCIHRDLAARNVLVTEDNVMKIA
DFGLARDIHHIDYKKTNGRLPVKWMPEALFDRIYTHQSDVWSFGVLLWEIFTLGGSPYPGVPVEELF
KLLKEGHRMDKPSNCTNELYMMRDCWHAVPSQRPTFKQLVEDLDRIVALTSNQEYLDL S MPLDQYSPSF
PDTRSSTCSSGEDSVFSHEPLPEEPCLPRHPAQLANGGLKRR
  
```

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001174064

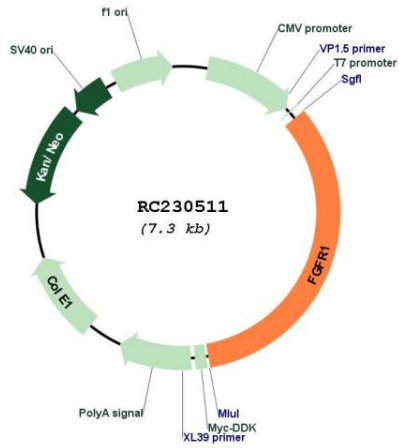
**ORF Size:** 2436 bp

**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](mailto: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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001174064.2</a>
<b>RefSeq ORF:</b>	2439 bp
<b>Locus ID:</b>	2260
<b>UniProt ID:</b>	<a href="#">P11362</a>
<b>Cytogenetics:</b>	8p11.23
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transmembrane
<b>Protein Pathways:</b>	Adherens junction, MAPK signaling pathway, Melanoma, Pathways in cancer, Prostate cancer, Regulation of actin cytoskeleton
<b>MW:</b>	91.1 kDa
<b>Gene Summary:</b>	<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>

Product images:



Circular map for RC230511