

Product datasheet for **RC239442**

FGFR4 (NM_001291980) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FGFR4 (NM_001291980) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FGFR4
Synonyms:	CD334; JTK2; TKF
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RC239442 representing NM_001291980
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGGCTGCTGCTGGCCCTGTTGGGGTCTGCTGAGTGTGCCTGGCCCTCCAGTCTTGTCCCTGGAGG
CCTCTGAGGAAGTGGAGCTTGGCCCTGCCTGGCTCCCAGCCTGGAGCAGCAAGAGCAGGAGCTGACAGT
AGCCCTTGGGCAGCCTGTGCGTCTGTGCTGTGGGCGGGCTGAGCGTGGTGGCCACTGGTACAAGGAGGGC
AGTCGCTGGCACCTGCTGGCCGTGTACGGGGTGGAGGGCCGCCTAGAGATTGCCAGTCTCTACCTG
AGGATGCTGGCCGCTACCTCTGCCTGGCAGGAGCTCCATGATCGTCTGCAGAACTCACCTTGATTAC
AGGTGACTCCTTGACCTCCAGCAACGATGATGAGGACCCCAAGTCCCATAGGGACCCCTCGAATAGGCAC
AGTTACCCCGCAGCAAGCACCCCTACTGGACACACCCCGAGCGCATGGAGAAGAACTGCATGCAGTACCTG
CGGGGAACACCGTCAAGTCCGCTGTCCAGCTGCAGGCAACCCCGCCACCACCGCTGGCTTAAGGA
TGGACAGGCCTTTCATGGGGAGAACCATTGGAGGCATTGCGCTGCGCCATCAGCACTGGAGTCTCGTG
ATGGAGAGCGTGGTGCCTCGGACCGCGGCACATACACCTGCCTGGTAGAGAACGCTGTGGGCAGCATCC
GCTATAACTACCTGCTAGATGTGCTGGAGCGGTCCCCGACCCGGCCCATCCTGCAGGCGGGCTCCCCGGC
CAACACCACAGCCGTGGTGGCAGCGACGTGGAGCTGCTGTGCAAGGTGTACAGCGATGCCAGCCCCAC
ATCCAGTGGTGAAGCACATCGTCATCAACGGCAGCAGCTTCGGAGCCGACGGTTTCCCCTATGTGCAAG
TCCTAAAGACTGCAGACATCAATAGCTCAGAGGTGGAGGTCTGTACCTGCGGAACGTGTGAGCCGAGGA
CGCAGGCGAGTACACCTGCCTCGCAGGCAATCCATCGGCCTCTCTACCAGTCTGCCTGGCTCACGGTG
CTGCCAGAGGAGGACCCACATGGACCGCAGCAGCGCCGAGGCCAGTTCTCCCTGGAGTCAGGCTCTTC
CGCAAGTCAAGTCAATCCCTGGTACGAGCGTGCCTCTCTCCAGCGGCCCGCTTGTCTCGCCGGC
CTCGCTGGTGTGGGAAGCCCTAGGCGAGGGCTGCTTTGGCCAGGTAGTACGTGCAGAGGCCTTTGGC
ATGGACCTGCCCGCCTGACCAAGCCAGCACTGTGGCCGTCAAGATGCTCAAAGACAACGCCTCTGACA
AGGACCTGGCCGACCTGGTCTCGGAGATGGAGGTGATGAAGCTGATCGGCCGACACAAGAATCATCAA
CCTGCTTGGTGTCTGCACCCAGGAAGGGCCCTGTACGTGATCGTGGAGTGCGCCGCAAGGAAACCTG
CGGGAGTCTCGCGGGCCGGCGCCCGGAGCCCGACCTCAGCCCGACGGTCTCGGAGCAGTGAGG
GGCCGCTCTCTTCCCAGTCTGGTCTCTCGGCCTACCAGGTGGCCGAGGCATGCAGTATCTGGAGTC
CCGGAAGTGTATCCACCGGACCTGGCTGCCCGCAATGTGCTGGTACTGAGGACAATGTGATGAAGATT
GCTGACTTTGGGCTGGCCCGCGCGTCCACCACATTGACTACTATAAGAAAACCAGCAACGGCCGCTGC
CTGTGAAGTGGATGGCGCCGAGGCCTGTTTGACCGGGTGTACACACACCAGAGTGACGTGTGGTCTTT
TGGGATCCTGCTATGGGAGATCTTACCCTCGGGGGCTCCCCGTATCCTGGCATCCCGGTGGAGGAGCTG
TTCTCGTGTGCGGGAGGGACATCGGATGGACCGACCCCACTGCCCCCAGAGCTGTACGGGCTGA
TGCGTGTGCTGGCAGCGAGCGCCCTCCAGAGGCCTACCTCAAGCAGCTGGTGGAGGCGCTGGACAA
GGTCTGTGGCCGTCTCTGAGGAGTACCTCGACCTCCGCTGACCTTCGGACCCATTCCCCCTGCTGT
GGGACGCCAGCAGCACCTGCTCCTCCAGCGATTCTGTCTTACGCCACGACCCCTGCCATTGGGATCCA
GCTCCTTCCCCTCGGGTCTGGGTGCAGACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239442 representing NM_001291980
 Red=Cloning site Green=Tags(s)

MRLLLALLGVLLSVPGPPVLSEASEEVELEPCLAPSLEQQEQELTVALGQPVRLCCGRAERGGHWYKEG
 SRLAPAGRVRGWRGRLEIASFLPEDAGRYLCLARGSMIVLQNLTLITGDSL TSSNDDDPKSHRDP SNRH
 SYPQQAPYWTHPQRMEKKLHAVPAGNTVKFRCPAAGNPTPTIRWLKDGQAFHGENRIGGIRLRHQHWSLV
 MESVVPSSDRGTYTCLVENAVGSIRYNYLLDVLERSPHRPILQAGLPANTTAVVGSDEVLLCKVYSDAQP
 IQWLKHIVINGSSFGADGFPYVQVLTADINSSEVEVLYLRNVS AEDAGEYTCLAGNSIGLSYQSAWLT
 LPEEDPTWTAAPAEASSPWSQALPASQAHPWYEA CVSPPAAPPCSPASLVLGKPLGEGCFQVVR AEA
 FGM DPARPQASTVAVKMLKDNASDKDLADLVSEMEVMKLI GRHKNIINLLGVCTQEGPLYVIVECAAKGNL
 REFLRARRPPGPDLPDGPSSSEGPLSFPVLVSCAYQVARGMQYLESRKCIHRDLAARNVLTEDNVMKI
 ADFGLARGVHHIDYYKTSNGRLPVKWM APEALFDRVYTHQSDVWSFGILLWEIFTLGGSPYPGIPVEEL
 FSLLREGHRMDRPPHCPPELYGLMRECWAAPSQRPTFKQLVEALDKVLLAVSEEYLDLRLTFGPYSPSG
 GDASSTCSSDSVFSHDPLPLGSSSFPFGSGVQT

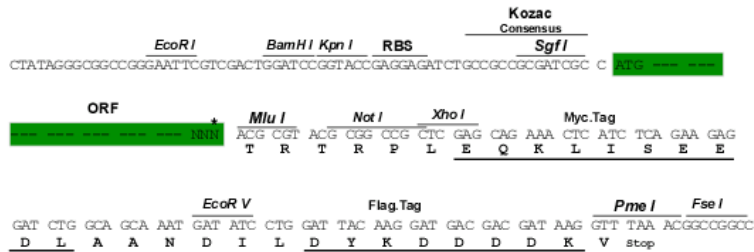
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

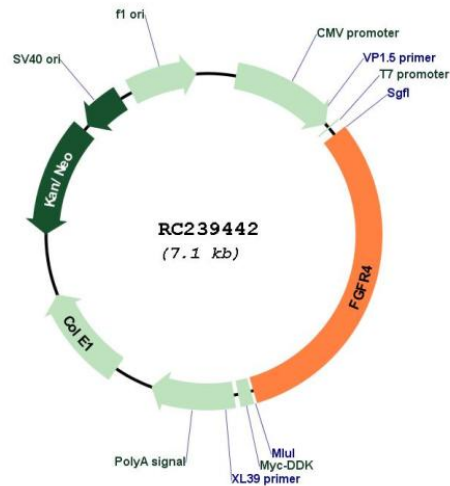
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001291980

ORF Size: 2202 bp

OTI Disclaimer: 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:

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_001291980.2](#)

RefSeq Size: 2911 bp

RefSeq ORF: 2205 bp

Locus ID: 2264

UniProt ID:	<u>P22455</u>
Cytogenetics:	5q35.2
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Endocytosis, MAPK signaling pathway, Regulation of actin cytoskeleton
MW:	80.9 kDa
Gene Summary:	<p>The protein encoded by this gene is a tyrosine kinase and cell surface receptor for fibroblast growth factors. The encoded protein is involved in the regulation of several pathways, including cell proliferation, cell differentiation, cell migration, lipid metabolism, bile acid biosynthesis, vitamin D metabolism, glucose uptake, and phosphate homeostasis. This 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 interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. [provided by RefSeq, Aug 2017]</p>