

Product datasheet for **RC204230**

FGFR4 (NM_002011) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FGFR4 (NM_002011) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FGFR4
Synonyms:	CD334; JTK2; TKF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC204230 representing NM_002011
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGGCTGCTGCTGGCCCTGTTGGGGTCTGCTGAGTGTGCCTGGCCCTCCAGTCTTGTCCCTGGAGG
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 AGCCCTTGGGCAGCCTGTGCGTCTGTGCTGTGGGCGGGCTGAGCGTGGTGGCCACTGGTACAAGGAGGGC
 AGTCGCTGGCACCTGCTGGCCGTGTACGGGGTGGAGGGCCGCCTAGAGATTGCCAGCTTCTACCTG
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 GCTGGCCGTCTCTGAGGAGTACCTCGACCTCCGCTGACCTTCGACCCATTCCCCCTCTGGTGGGGAC
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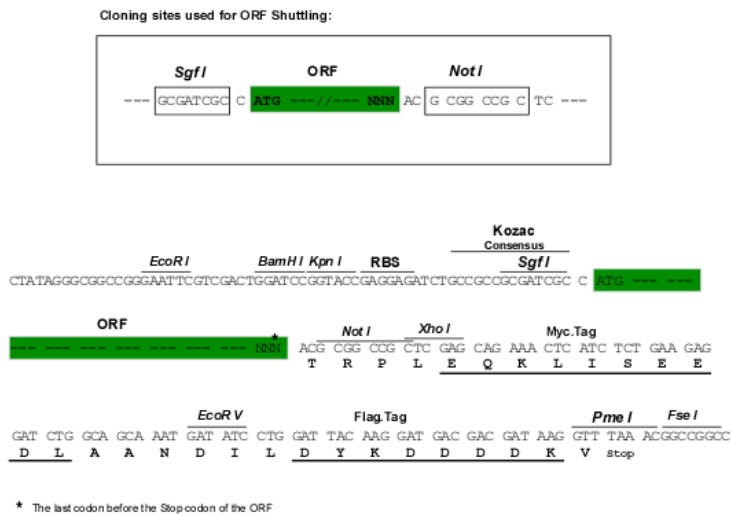
Protein Sequence: >RC204230 representing NM_002011
Red=Cloning site Green=Tags(s)

MRLLLALLGVLLSVPGPPVLSEASEEVELEPCLAPSLEQQEQELTVALGQPVRLCCGRAERGGHWYKEG
SRLAPAGRVGRGRLEIASFLPEDAGRYLCLARGSMIVLQNLTLITGDSL TSSNDEDPKSHRDP SNRH
SYPQQAPYWTHPQRMEKKLHAVPAGNTVKFRCPAAGNPTPTIRWLKDGQAFHGENRIGGIRLRHQHWSLV
MESVVPSPDRGTYTCLVENAVGSIRYNYLLDVLERSPHRPILQAGLPANTTAVVGSDEVLLCKVYSDAQP
IQWLKHIVINGSSFADGFYVQLKTADINSSEVEVLYLRNVAEDAGEYTCLAGNSIGLSYQSAWLT
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ESGSSGKSSSSLVRGVRLSSSGPALLAGLVSLDPLDPLWEFPRDRLVLGKPLGEGCFGQVVRAEAFGMD
PARPDQASTVAVKMLKDNASDKDLADLVSEMEVMKLI GRHKNIINLLGVCTQEGPLYVIVECAAKGNLRE
FLRARRPPGPDLS PDGPRSSEGPLSFPVLVSCAYQVARGMQYLESRKCIHRDLAARNVLTEDNVMKIAD
FGLARGVHHIDYKKT SNGRLPVKWMPEALFDRVYTHQSDVWSFGILLWEIFTLGGSPYPGIPVEELFS
LLREGHRMDRPPHCPELYGLMRECWAAPSQRPTFKQLVEALDKVLLAVSEEYLDLRLTFGPYSPSGGD
ASSTCSSSDSVFSDPLPLGSSSFPFGSGVQT

TRRLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2663_c04.zip

Restriction Sites: Sgfl-NotI

Cloning Scheme:


ACCN: NM_002011

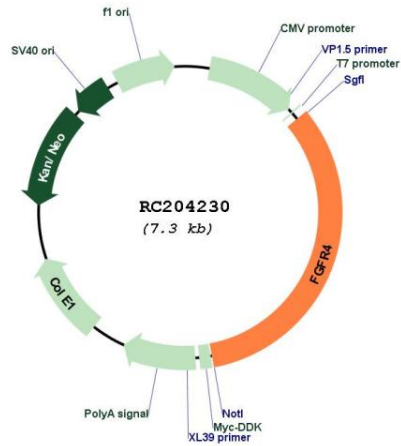
ORF Size: 2406 bp

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.

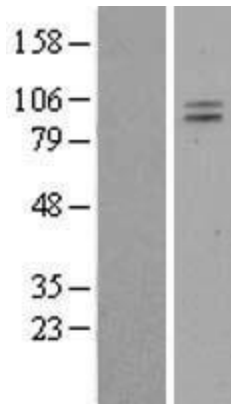
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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:	<u>NM_002011.5</u>
RefSeq Size:	3040 bp
RefSeq ORF:	2409 bp
Locus ID:	2264
UniProt ID:	<u>P22455</u>
Cytogenetics:	5q35.2
Domains:	pkinase, TyrKc, S_TKc, ig, IGc2, IG
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Endocytosis, MAPK signaling pathway, Regulation of actin cytoskeleton
MW:	87.95 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>

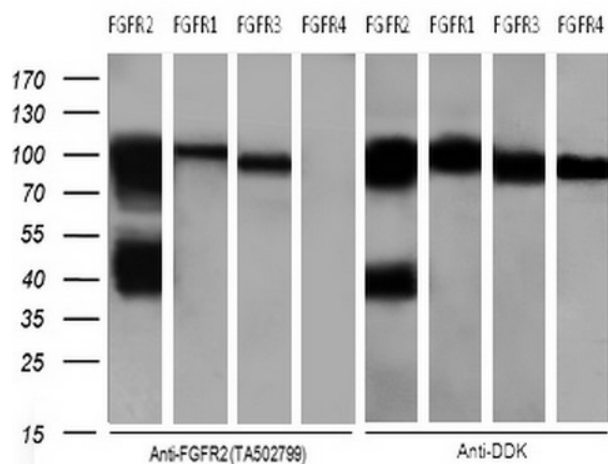
Product images:



Circular map for RC204230



Western blot validation of overexpression lysate (Cat# [LY403876]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC222421] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Cross-Reactivity of anti-FGFR2 (Cat# [TA502799]) with FGFR1 and FGFR3, not with FGFR4. HEK293T cells were transfected with FGFR2 (Cat# [RC217098]), FGFR1 (Cat# [RC202080]), FGFR3 (Cat# [RC215533]), FGFR4 (Cat# RC204230) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-FGFR2 (Cat# [TA502799]) (1:500) and anti-DDK (Cat# TA50011, 1:2000), respectively.