

Product datasheet for **RC227087**

FGFR2 (NM_001144914) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | FGFR2 (NM_001144914) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | FGFR2 |
| Synonyms: | BBDS; BEK; BFR-1; CD332; CEK3; CFD1; ECT1; JWS; K-SAM; KGFR; TK14; TK25 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RC227087 representing NM_001144914
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTCAGCTGGGGTCGTTTCATCTGCCTGGTCGTGGTACCATGGCAACCTTGTCCCTGGCCCGGCCCT
 CCTTCAGTTTAGTTGAGGATACCACTTAGAGCCAGAAGAGCCACCAACCAAAATACCAAATCTCTCAACC
 AGAAGTGTACGTGGCTGCGCCAGGGGAGTCGCTAGAGGTGCGCTGCCTGTTGAAAGATGCCGCCGTGATC
 AGTTGGACTAAGGATGGGGTGCCTTGGGGCCCAACAATAGGACAGTGCTTATTGGGGAGTACTTGCAGA
 TAAAGGGCGCCACGCCTAGAGACTCCGGCCTCTATGCTTGTACTGCCAGTAGGACTGTAGACAGTAAAC
 TTGGTACTTCATGGTGAATGTCACAGATGCCATCTCATCCGGAGATGATGAGGATGACACCGATGGTGCG
 GAAGATTTTGTCAAGTGAACAGTAACAACAAGAGAGCACCATACTGGACCAACACAGAAAAGATGGAAA
 AGCGGCTCCATGTGTGCTGCGGCCAACACTGTCAAGTTTCGCTGCCAGCCGGGGGAACCCAATGCC
 AACCATGCGGTGGCTGAAAACGGGAAGGAGTTTAAAGCAGAGCATCGCATTGGAGGCTACAAGGTACGA
 AACCGACTGGAGCCTCATTATGGAAAGTGTGGTCCCATCTGACAAGGGAAATTAACCTGTGTAGTGG
 AGAATGAATACGGGTCCATCAATCACACGTACCACCTGGATGTTGTGGCCCTGGAAAGAGAAAAGGAGAT
 TACAGTTCACCGAGACTACCTGGAGATAGCCATTTACTGCATAGGGGTCTTCTTAATCGCCTGTATGGTG
 GTAACAGTCATCTGTGCCGAATGAAGAACACGACCAAGAAGCCAGACTTCAGCAGCCAGCCGGCTGTGC
 ACAAGCTGACCAACCGTATCCCCCTGCGGAGACAGGTAACAGTTTCGGCTGAGTCCAGCTCCTCCATGAA
 CTCCAACACCCCGCTGGTGGGATAACAACACGCCTCTCTTCAACGGCAGACACCCCATGCTGGCAGGG
 GTCTCCGAGTATGAACTCCAGAGGACCCAAAATGGGAGTTTCCAAGAGATAAGCTGACACTGGCAAGC
 CCCTGGGAGAAGGTTGCTTTGGCAAGTGGTCATGGCAGGAGCAGTGGGAATTGACAAAGACAAGCCCAA
 GGAGGCGGTACCGTGGCCGTGAAGATGTTGAAAGATGATGCCACAGAGAAAGACCTTTCTGATCTGGTG
 TCAGAGATGGAGATGATGAAGATGATTGGGAAACACAAGAATATCATAAATCTTCTTGGAGCCTGCACAC
 AGGATGGGCCTCTCTATGTCATAGTTGAGTATGCCTCTAAAGGCAACCTCCGAGAATACCTCCGAGCCCG
 GAGGCCACCCGGGATGGAGTACTCCTATGACATTAACCGTGTTCCTGAGGAGCAGATGACCTTCAAGGAC
 TTGGTGTGATGCACCTACCAGCTGGCCAGAGGCATGGAGTACTTGGCTTCCCAAAAATGTATTATCGAG
 ATTTAGCAGCCAGAAATGTTTTGGTAACAGAAAACAATGTGATGAAAATAGCAGACTTTGGACTCGCCAG
 AGATATCAACAATATAGACTATTACAAAAGACCACCAATGGGCGGCTTCCAGTCAAGTGGATGGCTCCA
 GAAGCCCTGTTTGTAGAGTATACACTCATCAGAGTGTCTGCTGCTTCCGGGGTGTAAATGTGGGAGA
 TCTTCACTTTAGGGGCTCGCCCTACCCAGGGATTCCCGTGGAGGAACCTTTTAAAGCTGCTGAAGGAAGG
 ACACAGAAATGGATAAGCCAGCCAACTGCACCAACGAACTGTACATGATGATGAGGGACTGTTGGCATGCA
 GTGCCCTCCCAGAGACCAACGTTCAAGCAGTTGGTAGAAGACTTGGATCGAATTCTCACTCTCACAACCA
 ATGAGGAATACTTGGACCTCAGCCAACCTCTCGAACAGTATTACCTAGTTACCCTGACACAAGAAGTTC
 TTGTTCTTCAGGAGATGATTCTGTTTTTCTCCAGACCCCATGCCTTACGAACCATGCCTTCTCAGTAT
 CCACACATAAACGGCAGTGTAAAACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC227087 representing NM_001144914
Red=Cloning site Green=Tags(s)

MVSWGRFICLVVVTMATLSLARPSFSLVEDTTLEPEEPPTYQISQPEVYVAAPGESLEVRCLLKDAAVI
 SWTKDGVHLGPNRTVLIGEYLQIKGATPRDSGLYACTASRTVDESETWYFMVNVTDAISSGDEDDTDGA
 EDFVSENSNNKRAPYWTNTEKMEKRLHAVPAANTVKFRCPAGGNPMTMRWLKNGKEFKQEHRIGGYKVR
 NQHWSLIMESVVPDSDKGNVTCVENEYGSINHTYHLDVVAPGREKEITASPDYLEIAIYICIGVFLIACMV
 VTIVILCRMKNTTKPDFSSQPAVHKLTKRIPLRRQVTVSAESSMNSNTPLVRITRSLSTADTPMLAG
 VSEYELPEDPKWEFPRDKLTLGKPLGEGCFQVVMMAEAVGIDKDKPKEAVTVAVKMLKDDATEKDLSDLV
 SEMEMMKMIGKHKNIINLLGACTQDGPLYVIVEYASKGNLREYLRARRPPGMEYSYDINRVPEEQMTFKD
 LVSCYQLARGMEYLAQKCIHRDLAARNVLTENNVMKIADFLARDINNIDYKTTNGRLPVKWMAP
 EALFDRVYTHQSDVWSFGVLMWEIFTLGGSPYPGIPVEELFKLLKEGHRMDK PANCTNEL YMMMRDCWHA
 VPSQRPTFKQLVEDLDRILTLTTNEEYLDLSQPLEQYSPSPDTRSSCSSGDDSVFSPDPMPYEPCLPQY
 PHINGSVKT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001144914

ORF Size: 2127 bp

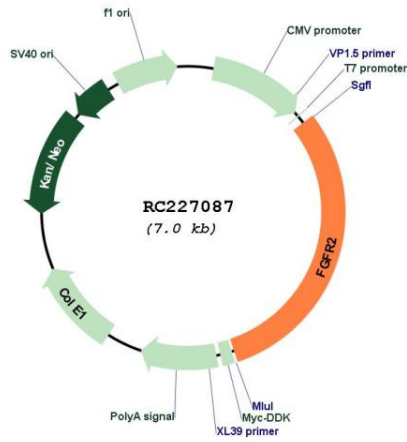
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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).

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| 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_001144914.1 , NP_001138386.1 |
| RefSeq ORF: | 2130 bp |
| Locus ID: | 2263 |
| UniProt ID: | P21802 |
| Cytogenetics: | 10q26.13 |
| Protein Families: | Druggable Genome, Protein Kinase, Secreted Protein, Transmembrane |
| Protein Pathways: | Endocytosis, MAPK signaling pathway, Pathways in cancer, Prostate cancer, Regulation of actin cytoskeleton |
| MW: | 79.83 kDa |
| Gene Summary: | <p>The protein encoded by this gene is a member of the fibroblast growth factor receptor 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 is a high-affinity receptor for acidic, basic and/or keratinocyte growth factor, depending on the isoform. Mutations in this gene are associated with Crouzon syndrome, Pfeiffer syndrome, Craniosynostosis, Apert syndrome, Jackson-Weiss syndrome, Beare-Stevenson cutis gyrata syndrome, Saethre-Chotzen syndrome, and syndromic craniosynostosis. Multiple alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Jan 2009]</p> |

Product images:



Circular map for RC227087