

Product datasheet for **RR213796**

Fgfr3 (NM_053429) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fgfr3 (NM_053429) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fgfr3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR213796 representing NM_053429
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTAGTCCCGCCTGCGTGCTAGTGTCTGCGTGGCGTCTGGCTGGAGTACTTCCGAGCCTCCCG
 GTCAGAGCAGCGAGTTGGTCGGAGAGCGCAGAGGTTCCAGGGCCTGAACCTAGCCAGCAGGAGCAGGT
 GGCTTCCGGCAGTGGGGACACTGTGGAGCTGAGCTGCCATCCGCCTGGAGGTGCCCCACAGGCCCACT
 CTCTGGGCTAAGGACGGTGTGGGGCTGGTGGCCTCNCACCGTATCCTGGTGGGGCCTCAGAGGCTTCAAG
 TGCTAAACGCCACCCATGAGGATGCTGGGGTCTACAGCTGCCAGCAGCGGCTAACCCGGCGTGTCTGTG
 CCACTTTAGTGTGCGTGTAAACAGATGCTCCGCTCCTCAGGAGATGACGAAGATGGGAGGACGTGGCTGAA
 GACACAGGGGCTCCTTACTGGACTCGACCGGAGCGTATGGATAAGAAACTGCTGGCTGTGCCAGCTGCAA
 AACTGTACGCTTCCGCTGCCAGCTGTGGCAACCCACCCCTCCATCCCTGGCTGAAGAACGGCAA
 AGAATTCGAGGGGAGCACCGCATTGGGGCATTAAAGCTCCGGCACCAGCAGTGGAGCTTGGTCATGGAA
 AGTGTGGTGCCCTCTGACCGCGCAATTACACCTGCGTGGTTGAGAACAAGTTTGGCAGCATCCGGCAGA
 CGTACACCCTGGATGTGCTGGAGCGCTCCCCACACCGGCCATCCTGCAGGCTGGGCTGCCAGCCAACCA
 GACAGCCGTTCTGGGCAGTGACGTGGAGTTCCTGCAAGGTGTACAGCGACGCACAGCCACACATCCAG
 TGGCTGAAGCAGCTGGAGGTGAATGGGAGCAAGGTGGGCCTGACGGCAGCCCTACGCTACTGTACTCA
 AGACTGCAGGAGCTAACACCACCGACAGGGAGCTAGAGGTTCTGTCTTGCAAAATGTCACCTTTGAGGA
 TGCGGGGAGTACACCTGCGTGGCGGCAATTCTATCGGGTTTCCCATCACTCTGCGTGGCTGGTGGTG
 CTGCCAGCCGAGGAGGAGCTGATGGAAGTTGACGAGGCTGGCAGCGTGTACGCGGGTGTCTCAGCTACC
 GGTGGGCTTCTCTCTTTCATCTGCTGGTGGCGGAGTGCAGCTCTGCCGCTGCGCAGTCCCCAAA
 GAAGGGCCTGGGCTCGCCACCCTGCACAAGGTTCTCGCTTCCCGCTTAAAGCGACAGGTGCTCTGGAG
 TCTAATTCCTCTATGAACTCCAACACACCTCTCGTCCGGATTGCCCGGCTGTCTCAGGAGAAGGTCCTG
 TCCTGGCCAAATGTTTCTGAACTTGAGCTGCCTGCTGACCCCAAGTGGGAGCTATCCAGGACCCGGCTGAC
 ACTCGGTAAGCCTCTTGAGAAGGCTGCTTTGGACAGGTTGTCATGGCAGAAGCTATTGGCATCGACAAG
 GACCGCACTGCCAAGCCTGTACCGTGGCCGTGAAGATGCTGAAAGATGATGCGACTGACAAGGACCTGT
 CGGACCTGGTGTCTGAGATGGAGATGATGAAAATGATTGGCAAGCACAAGAACATCATTAACTGTTGGG
 GGCTGCACCCAGGGTGGGCCCTGTATGTGCTGGTGGAGTATGCAGCCAAGGGCAACCTGCGAGAGTTC
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 CCTGCAAGGATCTGGTGTCTGTGCTACCAGGTGGCACGGGCATGGAGTACTTGGCTTCCAGAAAGTG
 TATTACAGAGACCTGGCTGCCAGAAACGCTGCTGGTACTGAGGACAATGTGATGAAGATTGCGACTTT
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 GGATGGCACCAGAGGCCCTTTTGGACCGAGTCTACACCCATCAGAGTGTGTCTGGTCTTTGGTGTCTCT
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 GTTGGCATGCAGTGCCTTACAGAGGCCACCTTCAAGCAGTTGGTAGAGGATTTAGACCGCATCCTCAC
 GGTGACATCAACTGACGAGTACTTGGACCTCTCGGTGCCATTTGAACAGTACTCGCCAGGTGGCCAAGAT
 ACTCCTAGCTCCAGCTCGTCCGGGACGACTCTGTGTTACCCATGACCTGCTACCCCGAGGCCACCCA
 GCAATGGGGACCTCGGACG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR213796 representing NM_053429
 Red=Cloning site Green=Tags(s)

MVVPACVLVFCVAVVAGVTSEPPGPEQVRGRRAAEVPGPEPSQQEQVAFGSGDVELSCHPPGGAPTGPT
 LWAKDVGVLVAXHRILVGPQRLQVLNATHEDAGVYSCQQLTRRVLCHF SVRVTDAPSSGDDEDGEDVAE
 DTGAPYWTRPERMDKLLAVPAANTVFRCPAAGNPTPSIPWLKNGKEFRGEHRIGGIKLRHQWLSLME
 SVVPSDRGNVTCVVENKFGSIRQTYTLDVLEERSPHRPILQAGLPANQTAVLGSDFEFHCKVYSDAQPHIQ
 WLKHVEVNGSKVGPDPGTPYVTVLKTAGANTTDRELEVL SLHNVT FEDAGEYTC LAGNSIGF SHHSAWL VV
 LPAAEELMEVDEAGSVYAGVLSYGVGFFLILVVAAVTLCRLRSPPKGLGSPTVHKVSRFPLKRQVSLE
 SNSSMNSNTPLVRIARLSSGEGPVLANVSELELPADPKWELSRTRLTLGKPLGEGCFQVVM AEAI GIDK
 DRTAKPVTVAVKMLKDDATDKDLSLVSEMEMMKMIGKHKNIINLLGACTQGGPLYVVEYAAKGNLREF
 LRARRPPGMDYSFDACRLPEEQLTCKDLVSCAYQVARGMEYLASQKCIHRDLAARNVLTEDNVMKIADF
 GLARDVHNL DYYKKT TNGRL PVKWM APEAL FDRVYTHQSDVW SFGVLLWEIFTLGGSPYPGIPVEELFKL
 LKEGHRMDK PANCTHDL YMIMRECWHAVP SQRPTFKQL VEDLDRIL TVTSTDEYLDL SVPFEQYSPGGQD
 TPSSSSGDDSVFTHDLLPPGPPSNGGPRT

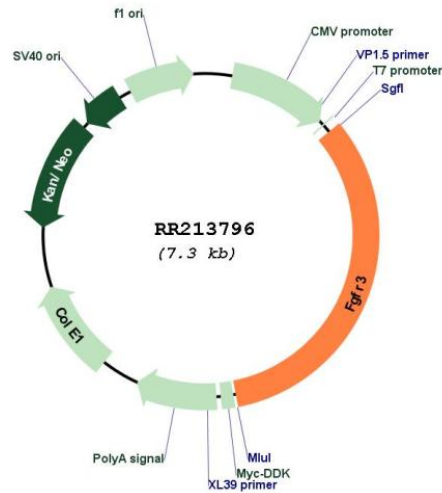
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_053429

ORF Size: 2400 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_053429.1](#), [NP_445881.1](#)

RefSeq Size: 3187 bp

RefSeq ORF: 2403 bp

Locus ID: 84489

Cytogenetics: 14q21

MW: 87.7 kDa

Gene Summary: may play a role in regulation and differentiation of various cell types, in the processes of regeneration, angiogenesis, and chemotaxis [RGD, Feb 2006]