

Product datasheet for **RR200454**

Fgfr2 (NM_001109893) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fgfr2 (NM_001109893) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fgfr2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RR200454 representing NM_001109893
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGGATTACCGTCCACATGGAGATATGGAACAGGACCAGGGATTGGCACCGTGACCATGGTCAGCTGGG
GGCGCTTCATCTGCCTGGTCTTGGTCACCATGGCAACCTTGCCCTGGCCCGGCCCTCCTTCAGTTTAGT
TGAAGATACCACTTTAGAACAGAGATGCCATCTCATCTGGAGATGACGAGGACGACACAGATAGCTCC
GAAGACTTTGTCAGTGAGAACAGGAGCAACCAGAGAGCACCGTACTGGACCAACACCGAAAAGATGGAGA
AGCGGCTCCATGCTGTCCCTGCCCAACACTGTGAAGTCCCGTGTCCAGCCGGGGGGAATCCAACACC
CACAATGAGGTGGCTAAAAACGGGAAGGAGTTTAAGCAGGAGCATCGCATCGGAGGCTATAAGGTACGA
AACCAGCACTGGAGCCTTATTATGGAAAGTGGTCCCATCAGACAAAGGCAATTACACCTGCCTGGTGG
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CCTCCAAGCTGGACTGCCTGCAATGCCTCCACGGTGGTCCGAGGGGACGTAGAATTTGCTGCAAGGTT
TATAGTGATGCCAGCCCATATCCAGTGGATCAACATGTGAAAAGAACGGCAGTAAATATGGACCTG
ATGGGCTGCCCTACCTCAAGTCTGAAGCACTCGGGGATAAATAGCTCCAATGCAGAAGTGTGGCTCT
GTTCAATGTGACGGAGATGGATGCTGGGGAATATATATGTAAGGTCTCCAATTATATAGGGCAGGCCAAC
CAGTCTGCCTGGCTCACTGTCTGCCAAACAGCAAGCACCTGTGAGAGAGAAGGAGATCACAGCTTCCC
CAGATTACCTGGAGATAGCTATTTACTGCATAGGGGTCTTCTTAATCGCTGCATGGTGGTGACAGTCAT
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CACTGGTGAGGATAACGACACGCTGTCTCCTCAACGGCGGACACCCCGATGCTAGCAGGGTCTCTGAGTA
CGAGTTGCCAGAGGATCCAAAGTGGGAATTCGCCAGAGATAAGCTGACGCTGGGCAACCCCTGGGGGAA
GGCTGTTTCGGGCAAGTAGTCATGGCTGAAGCGGTGGGAATCGATAAGGACAGACCAAGGAGGCAGTCA
CCGTGGCGGTGAAGATGTTGAAAGATGACGCCACAGAGAAGGACCTGTCTGACCTGGTGTGAGAGATGGA
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CTCTATGTCATAGTGAATACGCATCGAAAGGCAACCTCCGGGAATACCTCCGGGCCCGGAGGCCACCTG
GCATGGAGTACTCTATGACATTAACCGAGTTCCTGAGGAGCAGATGACCTTCAAGGACTTGGTGTCTG
CACCTACCAGCTGGCGAGAGGCATGGAGTACTTGGCTTCCAAAAATGTATCCATCGAGACTTGGCAGCC
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ACAAGCCCACTGCACCAATGAACTGTACATGATGATGAGGGACTGCTGGCATGCTGTACCCCTCACA
GAGGCCACGTTTAAAGCAGTTGGTGAAGACTTGGATCGAATTCTGACTCTACAACCAATGAGGAATAC
TTGGACCTACCCAGCCTCTCGAACAGTATTCTCCTAGTTACCCCGACACAAGGAGCTCTTGTCTTCAG
GGGACGATTCTGTGTTTCTCCAGACCCCATGCCTTATGACCCCTGCCTGCCTCAGTATCCACACATAAA
CGGCAGTGTTAAAACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR200454 representing NM_001109893
 Red=Cloning site Green=Tags(s)

MGLPSTWRYGTGPGIGTVMVSWGRFICLVLTMATLSLARPSFSLVEDTTLEPEDAISSGDEDDTSS
 EDFVSENRSNQRAPYWTNTEKMEKRLHAVPAANTVKFRCPAGGNPTPTMRWLKNGKEFKQEHRIGGYKVR
 NQHWSLIMESVVP SDKGNYTCL VENEYGSINHTYHLDVVERSPHRPILQAGLPANASTVVGDDVEFVCKV
 YSDAQPHIQWIKHVEKNGSKYGPDPGLPYLKV LKHSGINSSNAEVLALFNVTEMDAGEYICKVSNYIGQAN
 QSAWLTVLPKQQAPVREKEITASPDYLEIAIYICIGVFLIACMVVTVIFCRMKTTTKKPDFSSQPAVHKL
 KRIPLRQVTVSAESSSSMNSNTPLVRITRSLSTADTPMLAGVSEYELPEDPKWEFPRDKLTLGKPLGE
 GCFQVVMMAEAVGIDKDRPKEAVTVAVKMLKDDATEKDLSLVSEMEMMKMIGKHKNIINLLGACTQDGP
 LYVIVEYASKGNLREYL RARRPPGMEYSYDINRVPEEQMTFKDLVSCYQLARGMEYLASQKCIHRDLAA
 RNVLV TENVMKIADFLARDINNIDYKKTNGRLPVKWM APEALFDRVYTHQSDVWSFGVLMWEIFTL
 GGSPYPGIPVEELFKLLKEGHRMDKPTNCTNEL YMMMRDCWHAVPSQRPTFKQLVEDLDRILTLTNEEY
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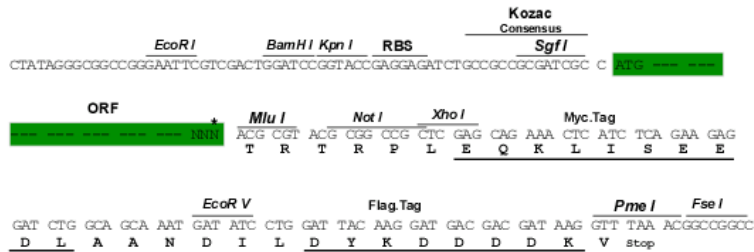
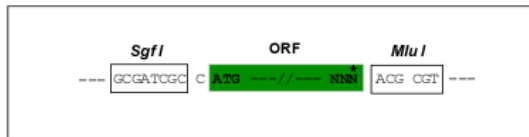
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

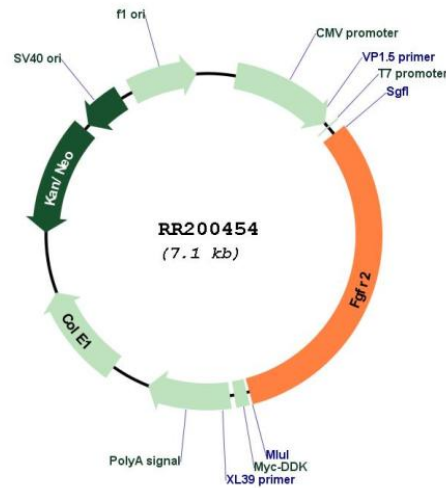
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001109893

ORF Size: 2256 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_001109893.1](#), [NP_001103363.1](#)

RefSeq Size: 4387 bp

RefSeq ORF: 2259 bp

Locus ID: 25022
Cytogenetics: 1q37
MW: 84.5 kDa
Gene Summary: may play a role in mesodermal cell differentiation [RGD, Feb 2006]