

## Product datasheet for **RR200456**

### **Fgfr2 (NM\_001109895) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Fgfr2 (NM_001109895) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fgfr2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>RR200456 representing NM\_001109895  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGATTACCGTCCACATGGAGATATGGAACAGGACCAGGGATTGGCACCGTGACCATGGTCAGCTGGG  
GGCGCTTCATCTGCCTGGTCTTGGTCACCATGGCAACCTTGCCCTGGCCGGCCCTCCTTCAGTTTAGT  
TGAAGATAACACTTTAGAACAGAGGAGCACCCTACTGGACCAACACCGAAAAGATGGAGAAGCGGCTC  
CATGCTGTCCCTGCCCAACACTGTGAAGTCCGCTGTCAGCCGGGGGAATCCAACACCCACAATGA  
GGTGGCTAAAAACGGGAAGGAGTTTAAGCAGGAGCATCGCATCGGAGGCTATAAGGTACGAAACAGCA  
CTGGAGCCTTATTATGAAAAGTGTGGTCCCATCAGACAAAGGCAATTACACCTGCCTGGTGGAGAATGAA  
TACGGGTCCATCAACCACACCTACCACCTTGATGTTGTTGAGCGATCACACACCGGCCCATCTCCAAG  
CTGGACTGCCTGCAAATGCCTCCACGGTGGTGGAGGGGACGTAGAATTTGTCTGCAAGGTTTATAGTGA  
TGCCACGCCCCATATCCAGTGGATCAAACATGTGAAAAGAACGGCAGTAAATATGGACCTGATGGGCTG  
CCCTACCTCAAGTCTGAAGCACTCGGGGATAAATAGCTCCAATGCAGAAGTGCTGGCTCTGTTCAATG  
TGACGGAGATGGATGCTGGGGAATATATGTAAGGTCTCCAATTATATAGGGCAGGCCAACAGTCTGC  
CTGGCTCACTGTCTGCCAAACAGCAAGCACCTGTGAGAGAGAAGGAGATCACAGCTTCCCCAGATTAC  
CTGGAGATAGCTATTTACTGCATAGGGGTCTTCTTAATCGCTGCATGGTGGTGACAGTCATCTTTTGCC  
GAATGAAGACCACGACCAAGAAGCCAGACTTCAGCAGCCAGCCAGCTGTGCACAAGCTGACCAAGCGCAT  
CCCCCTGCGGAGACAGGTAACAGTTTCGGCCGAGTCCAGCTCGTCCATGAACTCCAACACCCCACTGGTG  
AGGATAACGACACGTCTGTCCTCAACGGCGGACACCCCGATGCTAGCAGGGGTCTCTGAGTACGAGTTG  
CAGAGGATCCAAAGTGGGAATTCACAGAGATAAGCTGACGCTGGGCAAACCCCTGGGGGAAGGCTGCTT  
CGGGCAAGTAGTCATGGCTGAAGCGGTGGGAATCGATAAGGACAGACCCAAGGAGGCAGTACCCTGGCG  
GTGAAGATGTTGAAAGATGACGCCACAGAGAAGGACCTGTCTGACCTGGTGTGAGAGATGGAGATGATGA  
AGATGATTGGTAAACATAAGAACATCATCAACCTCCTGGGGCCTGCACCCAGGATGGACCCCTCTATGT  
CATAGTCGAATACGCATCGAAAGGCAACCTCCGGGAATACCTCCGGGCCCGGAGGCCACCTGGCATGGAG  
TACTCCTATGACATTAACCGAGTTCCCGAGGAGCAGATGACCTTCAAGGACTTGGTGTCTGCACCTACC  
AGCTGGCAGAGGCATGGAGTACTTGGCTTCCAAAAATGTATCCATCGAGACTTGGCAGCCAGAAATGT  
GCTGGTAAACAGAAAACAACGTGATGAAGATAGCAGACTTTGGCCTGGCCAGGGATATCAACAACATAGAC  
TATTACAAAAAGACCACGAATGGGCGACTTCCAGTCAAGTGGATGGCTCCTGAAGCCCTTTTGGATAGAG  
TTTACACTCATCAGAGTGTCTGGTCCCTCCGGGTGTTAATGTGGGAGATCTTCACTTTAGGGGGTTC  
ACCCTACCCAGGGATTCCCGTGGAGGAACTTTTAAGCTGCTCAAAGAGGGCCACAGGATGGACAAGCCC  
ACCAACTGCACCAATGAACTGTACATGATGATGAGGGACTGCTGGCATGCTGTACCTCAGAGGCCCA  
CGTTTAAGCAGTTGGTGGAGACTTGGATCGAATCTGACTCTCACAAACCAATGAGGAATACTTGGACCT  
CACCCAGCCTCTCGAACAGTATTCTCCTAGTTACCCCGACACAAGGAGCTCTTGTCTTCAGGGGACGAT  
TCTGTGTTTTCTCCAGACCCCATGCCTATGACCCCTGCCTGCCTCAGTATCCACACATAAACGGCAGTG  
TAAAAACA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR200456 representing NM\_001109895  
 Red=Cloning site Green=Tags(s)

MGLPSTWRYGTGPGIGTVMVSWGRFICLVLTMATLSLARPSFSLVEDTTLEPEGAPYWTNTEKMEKRL  
 HAVPAANTVKFRCPAGGNPTPTMRWLKNGKEFKQEHRIGGYKVRNQHWLSVVPVSDKGNVYCLVENE  
 YGSINHTYHLDVVERSPHRPILQAGLPANASTVVGDDVEFVCKVYSDAQPHIQWIKHVEKNGSKYGPDGL  
 PYLKVLKHSGINSNAEVLALFNVTEMDAGEYICKVSNYIGQANQSAWLVLPKQQAAPVREKEITASPDY  
 LEIAIYCIQVFLIACMVVTVIFCRMKTTTKKPDFSSQPAVHKLTKRIPLRRQVTVAESSSSMNSNTPLV  
 RITRRLSSTADTPMLAGVSEYELPEDPKWFFPRDKLTLGKPLGEGCFQVVMMAEAVGIDKDRPKEAVTVA  
 VKMLKDDATEKDLSDLVSEMEMMKMIGKHKNIIINLLGACTQDGPLYVIVEYASKGNLREYLRRPPGME  
 YSYDINRVPEEQMTFKDLVSCTYQLARGMEYLASQKCIHRDLAARNVLTENNVMKIADFLARDINNID  
 YYKKTNGRLPVKWMPEALFDRVYTHQSDVWSFGVLMWEIFTLGGSPYPGIPVEELFKLLKEGHRMDKP  
 TNCTNELYMMRDCWHAVPSQRPFTFKQLVEDLDRILTLTNEEYLDLTQPLEQYSPSPDTRSSCSSGDD  
 SVFSPDPMPYDCLPQYPHINGSVKT

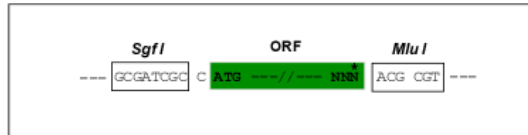
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

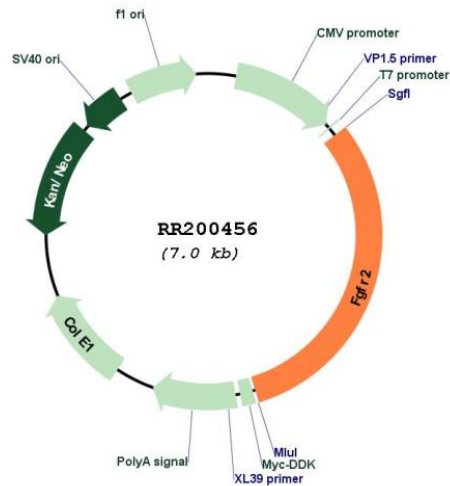
**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

## Plasmid Map:



ACCN: NM\_001109895

ORF Size: 2178 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\\_001109895.1](#), [NP\\_001103365.1](#)

RefSeq Size: 4309 bp

RefSeq ORF: 2181 bp

**Locus ID:** 25022  
**Cytogenetics:** 1q37  
**MW:** 81.6 kDa  
**Gene Summary:** may play a role in mesodermal cell differentiation [RGD, Feb 2006]