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Product datasheet for RR200455

Fgfr2 (NM_001109894) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fgfr2 (NM_001109894) 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:

>RR200455 representing NM_001109894
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGATTACCGTCCACATGGAGATATGGAACAGGACCAGGGATTGGCACCGTGACCATGGTCAGCTGGG
GGCGCTTCATCTGCCTGGTCTTGGTCACCATGGCAACCTTGTCCCTGGCCCGGCCCTCCTTCAGTTTAGT
TGAAGATACCACTTTAGAACCAGAAGATGCCATCTCATCTGGAGATGACGAGGACGACACAGATAGCTCC
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CACAATGAGGTGGCTAAAAAACGGGAAGGAGTTTAAGCAGGAGCATCGCATCGGAGGCTATAAGGTACGA
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CCTCCAAGCTGGACTGCCTGCAAATGCCTCCACGGTGGTCGGAGGGGACGTAGAATTTGTCTGCAAGGTT
TATAGTGATGCCCAGCCCCATATCCAGTGGATCAAACATGTGGAAAAGAACGGCAGTAAATATGGACCTG
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CTATATTCGGAATGTAACTTTTGAGGATGCTGGGGAATATACGTGCTTGGCGGGTAATTCTATCGGGATA
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AGCCCACCAACTGCACCAATGAACTGTACATGATGATGAGGGACTGCTGGCATGCTGTACCCTCACAGAG
GCCCACGTTTAAGCAGTTGGTGGAAGACTTGGATCGAATTCTGACTCTCACAACCAATGAGGAATACTTG
GACCTCACCCAGCCTCTCGAACAGTATTCTCCTAGTTACCCCGACACAAGGAGCTCTTGTTCTTCAGGGG
ACGATTCTGTGTTTTCTCCAGACCCCATGCCTTATGACCCCTGCCTGCCTCAGTATCCACACATAAACGG
CAGTGTTAAAACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

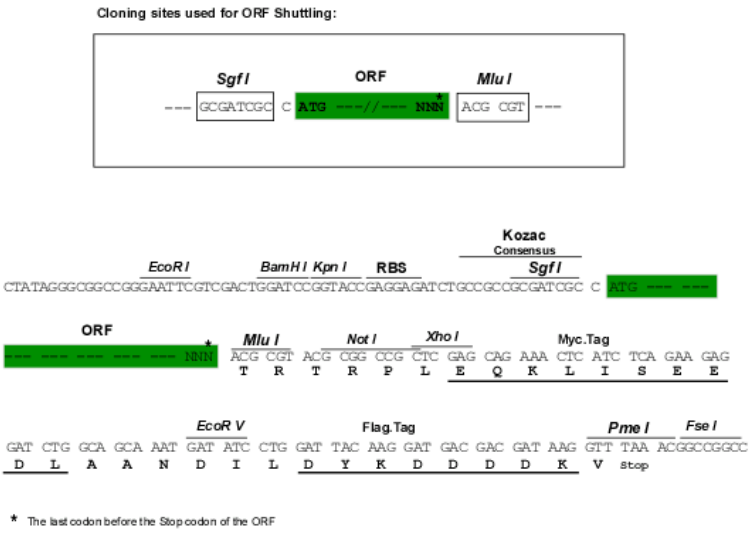
>RR200455 representing NM_001109894
Red=Cloning site Green=Tags(s)

MGLPSTWRYGTGPGIGTVTMVSWGRFICLVLVTMATLSLARPSFSLVEDTTLEPEDAISSGDDEDDTDSS
EDFVSENRSNQRAPYWTNTEKMEKRLHAVPAANTVKFRCPAGGNPTPTMRWLKNGKEFKQEHRIGGYKVR
NQHWSLIMESVVPSDKGNYTCLVENEYGSINHTYHLDVVERSPHRPILQAGLPANASTVVGGDVEFVCKV
YSDAQPHIQWIKHVEKNGSKYGPDGLPYLKVLKAAGVNTTDKEIEVLYIRNVTFEDAGEYTCLAGNSIGI
SFHSAWLTVLPAPVREKEITASPDYLEIAIYCIGVFLIACMVVTVIFCRMKTTTKKPDFSSQPAVHKLTK
RIPLRRQVTVSAESSSSMNSNTPLVRITTRLSSTADTPMLAGVSEYELPEDPKWEFPRDKLTLGKPLGEG
CFGQVVMAEAVGIDKDRPKEAVTVAVKMLKDDATEKDLSDLVSEMEMMKMIGKHKNIINLLGACTQDGPL
YVIVEYASKGNLREYLRARRPPGMEYSYDINRVPEEQMTFKDLVSCTYQLARGMEYLASQKCIHRDLAAR
NVLVTENNVMKIADFGLARDINNIDYYKKTTNGRLPVKWMAPEALFDRVYTHQSDVWSFGVLMWEIFTLG
GSPYPGIPVEELFKLLKEGHRMDKPTNCTNELYMMMRDCWHAVPSQRPTFKQLVEDLDRILTLTTNEEYL
DLTQPLEQYSPSYPDTRSSCSSGDDSVFSPDPMPYDPCLPQYPHINGSVKT

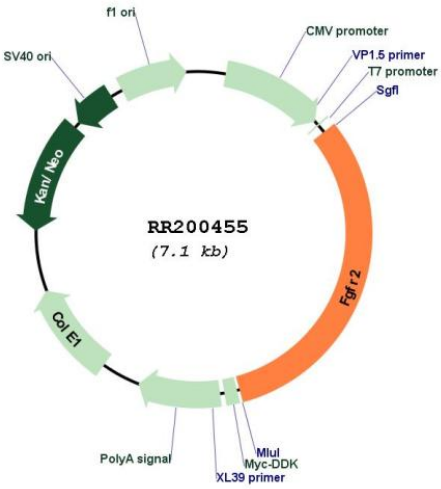
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001109894
ORF Size:	2253 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_001109894.1, NP_001103364.1
RefSeq Size:	4384 bp
RefSeq ORF:	2256 bp

Locus ID:	25022
Cytogenetics:	1q37
MW:	84.4 kDa
Gene Summary:	may play a role in mesodermal cell differentiation [RGD, Feb 2006]