

## Product datasheet for **RR204202**

### **Gfra1 (NM\_012959) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gfra1 (NM_012959) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gfra1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**ORF Nucleotide Sequence:**

>RR204202 representing NM\_012959  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTTCTAGCCACTCTGTACTTCGCGCTGCCACTCCTGGATTTGCTGATGTCCGCCGAGGTGAGTGGTG  
 GAGACCGTCTGGACTGTGTAAAAGCCAGCGATCAGTGCCTGAAGGAACAGAGCTGCAGCACCAAGTACCG  
 CACACTAAGGCAGTGCCTGGCGGCAAGGAAACCAACTTCAGCCTGACATCCGGCCTTGAGGCCAAGGAT  
 GAGTGCCTAGCGCCATGGAGGCCTTGAAGCAGAAGTCTCTGTACAACCTGCCGCTGCAAGCGGGGCATGA  
 AGAAAGAGAAGAATTGTCTGCGTATCTACTGGAGCATGTACCAGAGCCTGCAGGGAAATGACCTCCTGGA  
 AGATTCGCCGTATGAGCCGTTAACAGCAGGTTGTGAGATATATCCGGGCAGTCCCGTTTATATCAGAT  
 GTTTTCCAGCAAGTGAACACATTTCCAAAGGGAACAACCTGCCTGGACGCAGCCAAGGCCTGCAACCTGG  
 ACGACACCTGTAAGAAGTACAGGTGGCCTACATCACCCCTGCACCACCAGCATGTCCAACGAGGTCTG  
 CAACCGCCGTAAGTGCCACAAGGCCCTCAGGCAGTTCTTCGACAAGGTTCCGGCCAAGCACAGCTACGGG  
 ATGCTCTTCTGCTCCTGCCGGGACATCGCTGCACCGAGCGGCGGCGACAGACTATCGTCCCGTGTGCT  
 CCTATGAAGAACGAGAGAGGCCCAACTGCCTGAGTCTGCAAGACTCCTGCAAGACCAATTACATCTGCAG  
 ATCTCGCCTTGCAGATTTTTTACCAACTGCCAGCCAGAGTCAAGGTCTGTGAGCAACTGTCTTAAGGAG  
 AACTACGCAGACTGCCTCCTGGCCTACTCGGGACTGATTGGCACAGTCACTGACTCCCAACTACGTAGACT  
 CCAGCAGCCTCAGCGTGGCACCATGGTGTGACTGCAGCAACAGCGGCAATGACCTGGAAGACTGCTTGA  
 ATTTCTGAATTTTTTAAAGACAATACTGTCTCAAAAATGCAATTCAAGCCTTTGGCAATGGCTCAGAT  
 GTGACCATGTGGCAGCCAGCCCTCCAGTCCAGACCACCTGCCACCCTGACTGCTTCCGGGTCA  
 AGAACAAGCCTCTGGGGCCAGCAGGGTCTGAGAATGAGATCCCCACACAGTTTTTACCACCCTGTGCGAA  
 TTTGCAGGCTCAGAAGCTGAAATCCAATGTGTCGGGTAGCACACACCTCTGTCTTTCTGATAGTATTTT  
 GGAAAGGATGGTCTCGCTGGTGCCTCCAGCCACATAACCACAAAATCAATGGCTGCTCCTCCAGCTGCA  
 GTCTGAGCTCACTGCCGGTGTGATGCTCACCGCCTGTGCTGCTGTTATCTGTATCGTTGGCAGAAAC  
 GTCG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR204202 representing NM\_012959  
 Red=Cloning site Green=Tags(s)

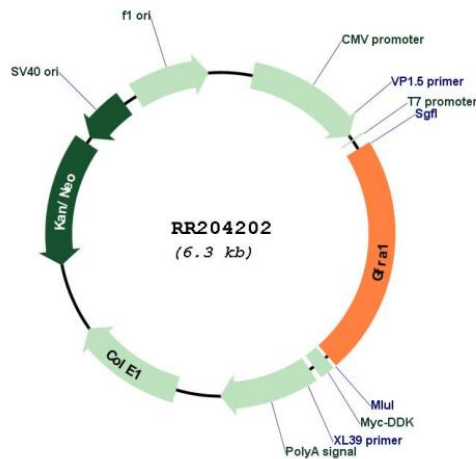
MFLATLYFALPLLDLLMSAEVSGDRLDCVKASDQCLKEQSCSTKYRTL RQCVAGKETNFSLTSGLEAKD  
 ECRSAMEALKQKSLYNCRCKRGMKKEKNCLRIYWSMYQSLQGNLLEDSPYEPVNSRLSDIFRAVPFISD  
 VFQQVEHISKGNCLDAKACNLDDTCKKYRSAYITPCTTSMSEVNCNRRKCHKALRQFDKVPKHSYG  
 MLFCSCRDIACRERRRQTI VPCVSYEEREPNCLSLQDSCKTNYICRSRLADFFTNCQPESRSVSNCLKE  
 NYADCLLAYSGLIGTVMPNYVDSSLSVAPWDCSNSGNDLEDCLKFLNFFKDNTCLKNAIQAFNGSD  
 VTMWQPAPPVQTTTATTTAFRVKNKPLGPAGSENIPTHVLPCCANLQAQKLKSNVSGSTHLC LSDSDF  
 GKDGLAGASSHITTKSMAAPPSCSLSSLPVLM LALAALLSVSLAETS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**Plasmid Map:**


ACCN: NM\_012959

ORF Size: 1404 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\\_012959.1](#), [NP\\_037091.1](#)

**RefSeq Size:** 3616 bp

**RefSeq ORF:** 1407 bp

**Locus ID:** 25454

**UniProt ID:** [Q62997](#)

**Cytogenetics:** 1q55

**MW:** 51.6 kDa

**Gene Summary:** binds glial cell line-derived neurotrophic factor (GDNF) and mediates Ret protein-tyrosine kinase receptor phosphorylation and activation [RGD, Feb 2006]