

## Product datasheet for **MR229479**

### **Gfra2 (NM\_001302094) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gfra2 (NM_001302094) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gfra2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229479 representing NM_001302094 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATCTTGGCAAACGCCTTCTGCCTCTTCTTTTAGGTGAGGAGTTCTACGAAGCTTCGCCCTATG  
AGCCTGTGACCTCCCGCCTCTCGGACATCTTCAAGCTCGTTCAATCTTCTCAGGGACAGGGGCAGACCC  
GGTGGTCAGTGCCAAGAGCAACCACTGCCTGGATGCCCAAGGCCTGCAACCTGAACGACAACCTGCAAG  
AAGCTCCGCTCCTCCTACATCTCCATCTGCAACCGGAGATCTCTCCACCGAACGCTGCAACCGCCGCA  
AGTGCCACAAGGCCCTGCGCCAGTTCTTCGACCGTGTGCCAGCGAGTATACCTACCGCATGCTCTTCTG  
CTCCTGTGACGACAGGATGCGCCGAGCGTCCGCGGAAACCATCTGCCAGCTGTTCCATATGAGGAC  
AAAGAGAAGCCCAATTGCTTGGACCTGCGCAGCCTGTGTCGTACAGACCACTTGTGCCGGTCCCGCCTGG  
CAGACTCCACGCCAACTGTCGAGCCTCTACCGACAATCACCAGCTGCCCTGCGGACAACCTACCAGGC  
ATGTCTGGGCTCCTATGCTGGCATGATTGGTTTGATATGACACCGAACTATGTGGACTCCAACCCACG  
GGCATCGTGGTGTCTCCCTGGTGAATTGTCGTGGCAGTGGGAACATGGAAGAAGAGTGTGAGAAGTTCC  
TCAAGGACTTCACAGAAAACCCATGCCTCCGGAATGCCATTCAAGCCTTTGGCAATGGCACAGATGTGAA  
CATGTCTCCAAAGGCCCCACATTTTCAGCTACCCAGGCCCTCGGGTAGAGAAAACCTCTTCACTGCCA  
GATGACCTCAGTGATAGCACCAGCCTGGGACCGAGTGTATCACCACCTGCACATCTATCCAGGAGCAAG  
GGCTGAAGGCCAACAACCTCAAAGAGTTAAGCATGTGTTTCACAGAGCTCACGACAAATATCAGCCAGG  
GAGTAAAAGGTGATCAAACCTTACTCAGGCTCCTGCAGAGCCAGACTGTGACTGCCTTACTGCCCTC  
CCTCCTGATGGTGACCTTGGCCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

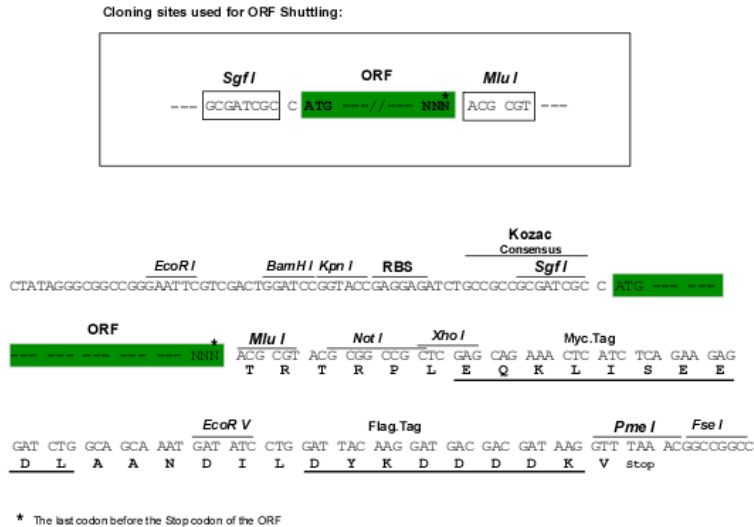
**Protein Sequence:** >MR229479 representing NM\_001302094  
Red=Cloning site Green=Tags(s)

MILANAFCLFFFLGEEFYEASPYEPVTSRLSDIFRLASIFSGTGADPVVSAKSNHCLDAAKACNLNDNCK  
 KLRSSYISICNREISPTERCNRRKCHKALRQFFDRVPSEYTYRMLFCSCQDQACAERRRQTILPSCSYED  
 KEKPNCLDLRSLCRTDHLRCRSLADFHANCRASTYRTITSCPADNYQAACLSYAGMIGFDMTPNYVDSNPT  
 GIVVSPWCNCRGSGNMEECEKFLKDFTENPCLRNIQAFNGTDMNSPKGPTFSATQAPRVEKTPSLP  
 DDLSDSTSLGTSVITTTCTSIQEQLKANNKELSMCFTELTTNISPGSKKVIKLYSGSCRARLSTALTAL  
 PLLMVTLAQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001302094

**ORF Size:** 1077 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\\_001302094.1](#), [NP\\_001289023.1](#)

**RefSeq Size:** 3172 bp

**RefSeq ORF:** 1080 bp

**Locus ID:** 14586

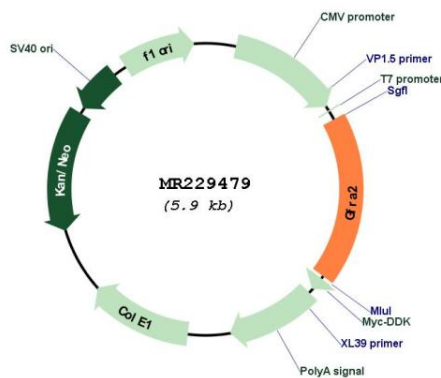
**UniProt ID:** [O08842](#)

**Cytogenetics:** 14 D2

**MW:** 40.3 kDa

**Gene Summary:** The protein encoded by this gene is part of the receptor complex that transduces glial cell-derived neurotrophic factor and neurturin signals by mediating autophosphorylation and activation of the RET receptor. Mice lacking this protein are viable and fertile but display growth retardation attributed to impaired salivary and pancreatic secretion and innervation deficits in the intestinal tract. In addition, knockout mice display neural defects including a failure to initiate outgrowth of dorsal ganglion root neurons, demonstrating a requirement in neuronal differentiation of these cells. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Oct 2014]

### Product images:



Circular map for MR229479