

## Product datasheet for **MR225280**

### Gfra2 (NM\_008115) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gfra2 (NM_008115) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gfra2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR225280 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATCTTGGCAAACGCCTTCTGCCTCTTCTTCTTTTAGACGAAACCCCTCGCTCTTTGGCCAGCCCTT  
 CCTCTCCGAGGGCTCTGAGCTCCACGGCTGGCGCCCAAGTGGACTGTGTCCGGGCAATGAGCTGTG  
 TCGGGTGAATCCAACCTGCAGCTCCAGGTACCGCACCCCTTCGGCAGTGCCTGGCAGGCGGGATCGCAAT  
 ACCATGCTGGCCAATAAGGAGTGCCAGGCGGCCCTGGAGGTCTTGCAGGAAAGCCATTGTATGACTGCC  
 GCTGCAAGCGGGCATGAAGAAGGAGCTGCAGTGTCTGCAGATCTATTGGAGCATCCATCTGGGGCTGAC  
 GGAGGGTGAAGGTTCTACGAAGCTTCGCCCTATGAGCCTGTGACCTCCCGCCTCTCGGACATCTCAGG  
 CTCGTTCAATCTTCTCAGGGACAGGGCAGCCCGGTGGTCAGTGCCAAGAGCAACCACTGCCTGGATG  
 CCGCCAAGGCCTGCAACCTGAACGACAACCTGCAAGAAGCTCCGCTCCTCATCTCCATCTGCAACCG  
 CGAGATCTCTCCACGAACGCTGCAACCGCCGCAAGTGCCACAAGGCCCTGCGCCAGTTCTTCGACCGT  
 GTGCCAGCGAGTATACCTACCGCATGCTTCTGCTCCTGTGAGACCAGGCATGCGCCGAGCGTCCGC  
 GGCAAACCATCTGCCAGCTGTTCTATGAGGACAAAGAGAAGCCCAATTGCTTGGACCTGCGCAGCCT  
 GTGTGCTACAGACCATTGTGCCGGTCCCGCTGGCAGACTTCCACGCCAAGTGTGAGCCTCTACCGG  
 ACAATCACCAGCTGCCCTGCGGACAACCTACCAGGCATGCTGGGCTCCTATGCTGGCATGATTGGGTTTG  
 ATATGACACCGAAGTATGTGGACTCCAACCCACGGGCATCGTGGTGTCTCCCTGGTGAATTGTCGTGG  
 CAGTGGGAACATGGAAGAAGAGTGTGAGAAGTTCTCAAGGACTTACAGAAAACCCATGCCCTCCGAAT  
 GCCATTCGAAGCCTTTGGCAATGGCACAGATGTGAACATGTCTCCAAAGGCCACATTTTCAGTACCC  
 AGGCCCTCGGGTAGAGAAAACCTCTTCACTGCCAGATGACCTCAGTGATAGCACCAGCCTGGGACCCAG  
 TGTATCACCACCTGCACATCTATCCAGGAGCAAGGGCTGAAGGCCAACCACTCCAAGAGTTAAGCATG  
 TGTTTACAGAGCTACGACAAATATCAGCCCAGGGAGTAAAAAGGTGATCAAATTTACTCAGGCTCCT  
 GCAGAGCCAGACTGTCGACTGCCTTACTGCTGCCCTCCACTCCTGATGGTGACCTTGGCCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR225280 protein sequence  
 Red=Cloning site Green=Tags(s)

MILANAFCLFFFLDETLRSLASPSSPQGSSELHGWRPQVDCVRANELCAAESNCSSRYRTLRLQCLAGRDRN  
 TMLANKECQAALVLEQLQESPLYDCRCKRGMKKELQCLQIYWSIHLGLTEGEEFYEASPYEPVTSRLSDIFR  
 LASIFSGTGADPVVSAKSNHCLDAAKACNLNDNCKLRSSYISICNREISPTERCNRRKCHKALRQFFDR  
 VPSEYTYRMLFCSCQDQACAERRRQITILPSCSYEDKEKPNCLDLRSLCRTDHLCRSRLADFHANCRAZYR  
 TITSCPADNYQACLGSYAGMIGFDMTPNYVDSNPTGIVVSPWCNCRGSGNMEEECEKFLKDFTENPCLRN  
 AIQAFNGTDVNMSPKGPFSATQAPRVEKTPSLPDDLSDSTSLGTSVITTCSTSIQEQGLKANNSKELSM  
 CFTELTNISPSSKVIKLYSGSCRARLSTALTALPLLMVTLAQ

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_008115

**ORF Size:** 1395 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\\_008115.3](#), [NP\\_032141.2](#)

**RefSeq Size:** 3487 bp

**RefSeq ORF:** 1395 bp

**Locus ID:** 14586

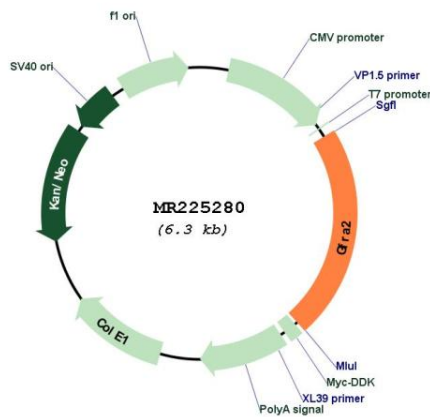
**UniProt ID:** [O08842](#)

**Cytogenetics:** 14 D2

**MW:** 51.7 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 MR225280