

Product datasheet for **MC227268**

Gfra2 (NM_001302094) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gfra2 (NM_001302094) Mouse Untagged Clone
Tag: Tag Free
Symbol: Gfra2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC227268 representing NM_001302094
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGATCTTGGCAAACGCCTTCTGCCTCTTCTTCTTTTAGGTGAGGAGTTCTACGAAGTTCGCCTATG
 AGCCTGTGACCTCCCGCTCTCGGACATCTTCAGGCTCGCTTCAATCTTCTCAGGGACAGGGGCAGACCC
 GGTGGTCAGTGCCAAGAGCAACCACTGCCTGGATGCCGCCAAGGCCTGCAACCTGAACGACAAGTGAAG
 AAGCTCCGCTCCTCTACATCTCCATCTGCAACCGGAGATCTCTCCACCGAACGCTGCAACCGCCGCA
 AGTGCCACAAGGCCCTGCGCCAGTTCTTCGACCGTGTGCCAGCGAGTATACCTACCGCATGCTCTTCTG
 CTCCTGTGACGACAGGCATGCGCCGAGCGTCCGCCGAAACCATCTGCCAGCTGTTCTATGAGGAC
 AAAGAGAAGCCCAATTGCTTGGACCTGCGCAGCCTGTGTGACAGACCACTTGTGCCGGTCCCGCTGG
 CAGACTCCACGCCAAGTGTGAGCCTCTACCGACAATCACCAGCTGCCCTGCGGACAACCTACCAGGC
 ATGTCTGGGCTCCTATGCTGGCATGATTGGGTTTGATATGACACCGAAGTATGTGGACTCCAACCCACG
 GGCATCGTGGTGTCTCCCTGGTCAATTGTGTCGAGTGGGAACATGGAAGAAGAGTGTGAGAAGTTCC
 TCAAGGACTTCACAGAAAACCCATGCCTCCGGAATGCCATTCAAGCCTTTGGCAATGGCACAGATGTGAA
 CATGTCTCCAAAGGCCCCACATTTTACGCTACCCAGGCCCTCGGGTAGAGAAAACCTCTTCACTGCCA
 GATGACCTCAGTGATAGCACCAGCCTGGGGACAGTGTATCACCACCTGCACATCTATCCAGGAGCAAG
 GGCTGAAGGCCAACAACCTCCAAAGAGTTAAGCATGTGTTTACAGAGCTCACGACAAATATCAGCCAGG
 GAGTAAAAGGTGATCAAACCTTACTCAGGCTCCTGCAGAGCCAGACTGTGACTGCCTTACTGCCCTC
 CCACTCTGATGGTGACCTTGGCCAGTAG

ACGGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001302094
Insert Size: 1080 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001302094.1</u> , <u>NP_001289023.1</u>
RefSeq Size:	3172 bp
RefSeq ORF:	1080 bp
Locus ID:	14586
UniProt ID:	<u>O08842</u>
Cytogenetics:	14 D2
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an in-frame exon in the 5' coding region. This results in a shorter protein (isoform 2) compared to isoform 1.</p>