

Product datasheet for **MC227828**

Gfra1 (NM_001285457) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gfra1 (NM_001285457) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gfra1
Synonyms:	AU042498; GDNFR; GFRalpha-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC227828 representing NM_001285457
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTCTAGCCACTCTGTACTTCGTGCTGCCACTCCTGGATTTGCTGATGTCGGCCGAGGTGAGTGGTG
 GGGACCGCTGGACTGTGTGAAAGCCAGTGATCAGTGCCTGAAGGAACAGAGCTGCAGCACCAAGTACCG
 CAACTGAGGCAGTGCCTGGCGGCAAGGAAACCAACTTCAGCCTGACATCCGGCCTCGAGGCCAAGGAT
 GAGTGCCGACGCTATGGAGGCCTTGAAGCAGAAGTCTCTCTACAACCTGCCGCTGCAAGCGGGCATGA
 AGAAAGAGAAGAATTGTCTGCGTATCTACTGGAGCATGTACCAGAGCCTGCAGGGAAATGACCTACTGGA
 AGATTCATATGAGCCGTTAACAGCAGGCTGTCCAGATATTCGGGCGAGTCCCGTTTATATCAGTG
 GAACACATTTCCAAGGGAACAACCTGCCTCGATGCAGCCAAGGCCTGCAACCTGGATGACACCTGCAAGA
 AGTACAGGTCGCTACATCACCCCTGTACCACCAGCATGTCCAATGAAGTCTGCAACCGCCGCAAGTG
 CCACAAAGCCCTCAGGCAGTTCTTCGACAAAGTCCAGCCAAGCACAGCTACGGGATGCTCTTCTGCTCC
 TGCCGGGACGTCGCTGCACCGAGAGGGCGGACAGACTATCGTCCCTGTGTGCTCTATGAAGAACGAG
 AGAGGCCCAACTGCCTGAATCTGCAAGACTCCTGCAAGACAAATTACATCTGCAGATCTCGCCTTGCA
 TTTTTTACCAACTGCCAGCCAGAGTCAAGGTCTGTGAGCAACTGTCTTAAGGAGAACTACGAGACTGC
 CTCCTGGCCTACTCGGGACTGATTGGCAGATCATGACTCCTAATACATAGACTCCAGCAGCCTCAGTG
 TGGCGCGTGGTGCATTGCAGCAACAGTGGCAATGACCTGGAAGATTGCCTGAAGTTTCTGAATTTTTT
 TAAGGACAATACGTGTCTCAAAAATGCAATTCAAGCCTTTGGCAATGGCTCGGATGTGACCATGTGGCAG
 CCAGCCCCCAGTCCAGACCACCACTGCCACGACTACCACTGCCTTCCGGATCAAGAACAAGCCTCTAG
 GGCCAGCAGGCTCTGAGAATGAGATTCCCACACACGTTTTACCACCGTGTGCTAATTTGCAGGCACAGAA
 GCTGAAAATCCAATGTATCGGGCAGTACACATCTGTCTTTCTGATAATGATTACGGAAAAGGATGGTCTC
 GCTGGTGCCTCCAGCCACATAACCACAAAATCAATGGCTGCTCCTCCAGCTGCGGTCTGAGCTCACTGC
 CGGTGATGGTGTACCAGCTCTGGCTGCCTGTTGTCTGTATCATTGGCAGAAACATCGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001285457
- Insert Size:** 1392 bp
- 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:

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_001285457.1](#), [NP_001272386.1](#)

RefSeq Size: 4425 bp

RefSeq ORF: 1392 bp

Locus ID: 14585

UniProt ID: [P97785](#)

Cytogenetics: 19 54.18 cM

Gene Summary: This gene encodes a transmembrane protein that functions as the receptor for glial cell line derived neurotrophic factor (GDNF). The encoded protein undergoes proteolytic processing to generate a glycosylphosphatidylinositol-anchored cell surface coreceptor that forms a complex with the Ret tyrosine kinase in GDNF signaling pathway. Mice lacking the encoded protein exhibit deficits in the kidneys, the enteric nervous system, and spinal motor and sensory neurons similar mice deficient in GDNF or Ret. [provided by RefSeq, Jul 2016]
Transcript Variant: This variant (3) has a shorter 5' UTR and lacks an exon in the central coding region but maintains the reading frame, compared to variant 1. The encoded isoform (2) is shorter than isoform 1. This isoform (2) may undergo proteolytic processing similar to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.