

Product datasheet for **MR207481**

Gfra1 (NM_010279) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gfra1 (NM_010279) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gfra1
Synonyms:	AU042498; GDNFR; GFRalpha-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207481 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTTCTAGCCACTCTGTACTTCGTGCTGCCACTCCTGGATTTGCTGATGTCGGCCGAGGTGAGTGGTG
 GGGACCGCTGGACTGTGTGAAAGCCAGTGATCAGTGCCTGAAGGAACAGAGCTGCAGCACCAAGTACCG
 CAACTGAGGCAGTGCCTGGCGGCAAGGAAACCAACTTCAGCCTGACATCCGGCCTCGAGGCCAAGGAT
 GAGTGCCGACGCTATGGAGGCCTTGAAGCAGAAGTCTCTACAACCTGCCGCTGCAAGCGGGGCATGA
 AGAAAGAGAAGAATTGTCTGCGTATCTACTGGAGCATGTACCAGAGCCTGCAGGGAAATGACCTACTGGA
 AGATCCCATATGAGCCGTTAACAGCAGGCTGTGAGATATATCCGGCAGTCCCGTTTATATCAGAT
 GTTTCCAGCAAGTGAACACATTTCAAAGGGAACAACCTGCCTCGATGCAGCCAAGGCCTGCAACCTGG
 ATGACACCTGCAAGAAGTACAGTCCGCTACATCACCCCTGTACCACCAGCATGTCCAATGAAGTCTG
 CAACCGCCGCAAGTGCCACAAAGCCCTCAGGCAGTTCTTCGACAAAGTCCAGCCAAGCACAGCTACGGG
 ATGCTCTTCTGCTCCTGCCGGGACGTGCTGCACCGAGAGGCGGCGACAGACTATCGTCCCTGTGTGCT
 CCTATGAAGAACGAGAGAGGCCCAACTGCCTGAATCTGCAAGACTCCTGCAAGACAAATTACATCTGCAG
 ATCTCGCCTTGCAGATTTTTTACCAACTGCCAGCCAGAGTCAAGGTCTGTGAGCAACTGTCTTAAGGAG
 AACTACGCACTGCCTCCTGGCCTACTCGGGACTGATTGGCACAGTCATGACTCCTAACTACATAGACT
 CCAGCAGCCTCAGTGTGGCGCCGTGGTGCATTGCAGCAACAGTGGCAATGACCTGGAAGATTGCCTGAA
 GTTTCTGAATTTTTTAAAGACAATACGTGTCTCAAAAATGCAATTCAAGCCTTTGGCAATGGCTCGGAT
 GTGACCATGTGGCAGCCAGCCCCCAGTCCAGACCACCACTGCCAGACTACCACTGCCTCCGGATCA
 AGAACAAAGCCTTAGGGCCAGCAGGCTCTGAGAATGAGATTCCACACACGTTTTTACCACCGTGTGCTAA
 TTTGCAGGCACAGAAGCTGAAATCCAATGTATCGGGCAGTACACATCTCTGTCTTTCTGATAATGATTAC
 GGAAAGGATGGTCTCGCTGGTGCCTCCAGCCACATAACCACAAAATCAATGGCTGCTCCTCCAGCTGCG
 GTCTGAGCTCACTGCCGGTGTGGTGTACCAGCTCTGGCTGCCCTGTTGTCTGTATCATTGGCAGAAAC
 ATCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207481 protein sequence
 Red=Cloning site Green=Tags(s)

MFLATLYFVPLLLDLLMSAEVSGDRLDCVKASDQCLKEQSCSTKYRTLRLQCVAGKETNFSLTSGLEAKD
 ECRSAMEALKQKSLYNCRCKRGMKKEKNCRLRIYWSMYQSLQGNLLEDSPYEPVNSRLSDIFRAVPFISD
 VFQQVEHISKGNNCLDAKACNLDDTCKKYRSAYITPCTTSMNEVCNRRKCHKALRQFFDKVPAKHSYG
 MLFCSCRDVACTERRRQTIIVPVCSEERERPNCNLQDSCKTNYICRSRLADFFTNCQPESRSVSNCLKE
 NYADCLLAYSGLIGTVMTPNYIDSSSLVAPWDCSNSGNDLEDCLKFLNFFKDNTCLKNAIQAFNGSD
 VTMWQPAPPVQTTTATTTAFRIKNKPLGPAGSENEIPTHVLPCCANLQAQKLSNVSGSTHLCLSDNDY
 GKDGLAGASSHITTKSMAAPPSCGLSSLPVMVFTALAALLSVSLAETS

TRTRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:


ACCN: NM_010279

ORF Size: 1407 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_010279.3](#)
RefSeq Size: 4664 bp

RefSeq ORF: 1407 bp

Locus ID: 14585

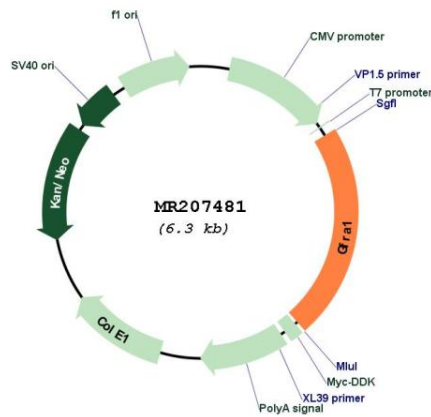
UniProt ID: [P97785](#)

Cytogenetics: 19 54.18 cM

MW: 51.8 kDa

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]

Product images:



Circular map for MR207481