

Product datasheet for **MG207481**

Gfra1 (NM_010279) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gfra1 (NM_010279) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gfra1
Synonyms:	AU042498; GDNFR; GFRalpha-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207481 representing NM_010279
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTCTAGCCACTCTGTACTTCGTGCTGCCACTCCTGGATTTGCTGATGTCGGCCGAGGTGAGTGGTG
 GGGACCGCTGGACTGTGTGAAAGCCAGTGATCAGTGCCTGAAGGAACAGAGCTGCAGCACCAAGTACCG
 CACACTGAGGCAGTGCCTGGCGGCAAGGAAACCAACTTCAGCCTGACATCCGGCCTCGAGGCCAAGGAT
 GAGTGCCGACGCTATGGAGGCCTTGAAGCAGAAGTCTCTCTACAACCTGCCGCTGCAAGCGGGCATGA
 AGAAAGAGAAGAATTGTCTGCGTATCTACTGGAGCATGTACCAGAGCCTGCAGGGAAATGACCTACTGGA
 AGATTCATATGAGCCGTTAACAGCAGGCTGTGAGATATATCCGGCAGTCCCGTTTATATCAGAT
 GTTTTCCAGCAAGTGAACACATTTCCAAAGGGAACAACCTGCCTCGATGCAGCCAAGGCCTGCAACCTGG
 ATGACACCTGCAAGAAGTACAGGTCGCCTACATCACCCCTGTACCACCAGCATGTCCAATGAAGTCTG
 CAACCGCCGCAAGTGCCACAAAGCCCTCAGGCAGTTCTTCGACAAAGTCCAGCCAAGCACAGCTACGGG
 ATGCTCTTCTGCTCCTGCCGGGACGTGCGCTGCACCGAGAGGCGGCGACAGACTATCGTCCCTGTGTGCT
 CCTATGAAGAACGAGAGAGGCCCAACTGCCTGAATCTGCAAGACTCCTGCAAGACAAATTACATCTGCAG
 ATCTCGCCTTGCAGATTTTTTACCAACTGCCAGCCAGAGTCAAGGTCTGTGAGCAACTGTCTTAAGGAG
 AACTACGCACTGCCTCCTGGCCTACTCGGGACTGATTGGCACAGTCATGACTCCTAACTACATAGACT
 CCAGCAGCCTCAGTGTGGCGCCGTGGTGCATTGCAGCAACAGTGGCAATGACCTGGAAGATTGCCTGAA
 GTTTCTGAATTTTTTAAAGACAATACGTGTCTCAAAAATGCAATTCAAGCCTTTGGCAATGGCTCGGAT
 GTGACCATGTGGCAGCCAGCCCCCAGTCCAGACCACCACTGCCAGACTACCACTGCCTCCGGATCA
 AGAACAAGCCTCTAGGGCCAGCAGGCTCTGAGAATGAGATTCCACACACGTTTTTACCACCGTGTGCTAA
 TTTGCAGGCACAGAAGCTGAAATCCAATGTATCGGGCAGTACACATCTCTGTCTTTCTGATAATGATTAC
 GGAAAGGATGGTCTCGCTGGTGCCTCCAGCCACATAACCACAAAATCAATGGCTGCTCCTCCAGCTGCG
 GTCTGAGCTCACTGCCGGTGTGGTGTACCAGCTCTGGCTGCCCTGTTGTCTGTATCATTGGCAGAAAC
 ATCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207481 representing NM_010279
 Red=Cloning site Green=Tags(s)

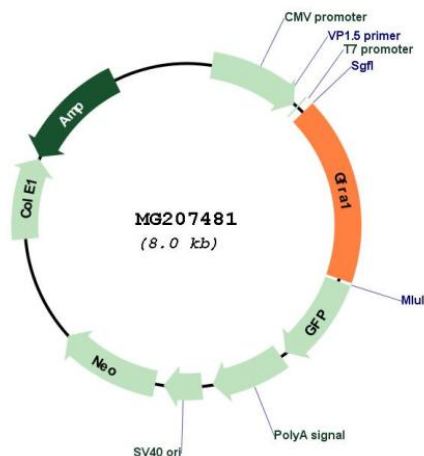
MFLATLYFVPLPLDLLMSAEVSGDRLDCVKASDQCLKEQSCSTKYRTLQRCVAGKETNFSLTSGLEAKD
 ECRSAMEALKQKSLYNCRCKRGMKKEKNCLRIYWSMYQSLQGNLLEDSPYEPVNSRLSDIFRAVPFISD
 VFQQVEHISKGNCLDAKACNLDDTCKKYRSAYITPCTTSMNEVCNRRKCHKALRQFFDKVPKHSYG
 MLFCSCRDVACTERRRQTIQVPCSYEERERPNCNLQDSCKTNYICRSRLADFFTNCQPESRSVSNCLKE
 NYADCLLAYSLIGTVMTPNYIDSSLSVAPWCDCSNGNDLEDCLKFLNFFKDNTCLKNAIQAFGNGSD
 VTMWQPAPPVQTTTATTTTAFRIKNKPLGPAGSENEIPTHVLPCCANLQAQKLKSNVSGSTHLCCLSDNDY
 GKDGLAGASSHITTKSMAAPPSCGLSSLPVMVFTALAALLSVSLAETS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_010279

ORF Size: 1404 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: 3305 bp

RefSeq ORF: 1407 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]