

Product datasheet for MR206230

Gfra3 (NM_010280) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gfra3 (NM_010280) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gfra3
Synonyms:	GFRa; GFRalpha3; Y15110
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206230 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCTCTCCTGGAGCCCGGACCTCCACTGCTGATGATCCTGCTACTGGTGTGTCGTTGTGGCTGC
CACTTGGAGCAGGAACTCCCTTGCCACAGAGAACAGGTTTGTGAACAGCTGTACCCAGGCCAGAAAGAA
ATGCGAGGCTAATCCCGTTGCAAGGCTGCCTACCAGCACCTGGGCTCCTGCACCTCCAGTTTAAGCAGG
CCGCTGCCCTTAGAGGAGTCTGCCATGTCTGCAGACTGCCTAGAGGCAGCAGAACAACCTCAGGAACAGCT
CTCTGATAGACTGCAGGTGCCATCGGCGCATGAAGCACCAGCTACCTGTCTGGACATTTATTGGACCGT
TCAACCTGCCCGAAGCCTTGGTGACTACGAGTTGGATGTCTCACCTATGAAGACACAGTGACCAGCAAA
CCCTGGAAAATGAATCTTAGCAAGTTGAACATGCTCAAACAGACTCGGACCTCTGCCTCAAATTTGCTA
TGCTGTGTACTCTTACAGACAAGTGTGACCGCCTGCGCAAGGCCTACGGGGAGGCATGCTCAGGGATCCG
CTGCCAGCGCCACCTCTGCCTAGCCCAGCTGCGCTCCTTCTTTGAGAAGGCAGCAGAGTCCCACGCTCAG
GGTCTGCTGTGTGTCCTGTGCACCAGAAGATGCGGGCTGTGGGGAGAGGCGCGTAACACCATCGCCC
CCAGTTGCGCCCTGCCTTCTGTAACCCCAATTGCCTGGATCTGCGGAGCTTCTGCCGTGCGGACCTTT
GTGCAGATCACGCTGATGGACTTCCAGACCCACTGTCATCCTATGGACATCCTTGGGACTTGTGCAACT
GAGCAGTCCAGATGTCTGCGGGCATACTGGGGCTGATTGGGACTGCCATGACCCAAACTCATCAGCA
AGGTCAACACTACTGTTGCCTTAAGCTGCTCCTGCCGAGGCAGCGCAACCTACAGGACAGTGTGAACA
GCTGAAAAGTCTTCTCCAGAACCCCTGCCTCGTGGAGGCCATTGCAGCTAAGATGCGTTTCCACAGA
CAGCTCTTCTCCAGGACTGGGCAGACTCTACTTTTTCAGTGGTGCAGCAGCAGAACAGCAACCCTGCTC
TGAGACTGCAGCCAGGCTACCCATTCTTTCTTCTCCATCCTTCCCTTGATTCTGCTGCAGACCCTCTG
G

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206230 protein sequence
 Red=Cloning site Green=Tags(s)

MGLSWSRPPLLMILLVLSLWLPLGAGNSLATENRFVNSCTQARKKCEANPACKAAYQHLGSC TSSLR
 PLPLEESAMSADCLEAAEQLRNSSLIDCRCHRRMKHQATCLDIYWTVHPARSLGDYELDVSPYEDVT
 SKPWKMNL SKLNMLKPDSDLCLKFAMLCTLHDKCDRLRKAYGEACSGIRCQRHLCLAQLRSFFEKAA
 ESHAQGLLLCPCAPEDAGCGERRRNTIAPSCALPSVTPNCLDLRSFCRADPLCRSRLMDFQTHCH
 PMDILGTCAT EQSRCLRAYLGLIGTAMTPNFISKVNTTVALSCSCRGSGNLQDECEQLERSF
 SQNPCLVEAIAAKMRFHRQLFSQDWADSTFSVVQQNSNPALRLQPRLPILSFSILPLILLQTLW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010280

ORF Size: 1194 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_010280.1](#), [NM_010280.2](#), [NM_010280.3](#), [NM_010280.4](#), [NP_034410.3](#)

RefSeq Size: 1992 bp

RefSeq ORF: 1194 bp

Locus ID: 14587

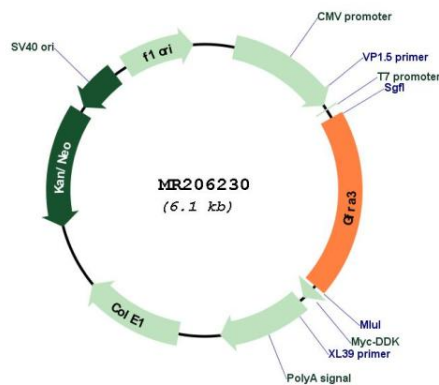
UniProt ID: [O35118](#)

Cytogenetics: 18 B1

MW: 44.3 kDa

Gene Summary: This gene encodes a cell surface glycoprotein and member of the glial cell line-derived neurotrophic receptor (GDNFR) family of proteins. The encoded preproprotein is proteolytically processed to generate the mature protein. This protein mediates binding of the ligand artemin to the ret receptor tyrosine kinase, and this interaction may regulate thermal pain and axon regeneration. Homozygous knockout mice for this gene exhibit impaired proliferation of cultured neuroblasts and impaired development of the superior cervical ganglion. [provided by RefSeq, Aug 2015]

Product images:



Circular map for MR206230