

Product datasheet for **MG225280**

Gfra2 (NM_008115) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gfra2 (NM_008115) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gfra2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG225280 representing NM_008115 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCTTGGCAAACGCCTTCTGCCTCTTCTTCTTTTAGACGAAACCCCTCCGCTCTTTGGCCAGCCCTT
CCTCTCCGAGGGCTCTGAGCTCCACGGCTGGCGCCCCAAGTGGACTGTGTCCGGGCCAATGAGCTGTG
TGCGGCTGAATCCAATCGAGCTCCAGGTACCGCACCCCTCGGCAGTGCCTGGCAGGCCGGGATCGCAAT
ACCATGCTGGCCAATAAGGAGTGCCAGGCGGCCCTGGAGGTCTTGAGGAAAGCCATTGTGACTGCC
GCTGCAAGCGGGGCATGAAGAAGGAGCTGCAGTGTCTGCAGATCTATTGGAGCATCCATCTGGGGTGC
GGAGGGTGAGGAGTTCTACGAAGCTTCGCCTATGAGCCTGTGACCTCCCGCCTCTCGGACATCTTCAGG
CTCGCTTCAATCTTCTCAGGGACAGGGGACAGCCGGTGGTCAAGTGCAGGCAAGCAACCACTGCCTGGATG
CCGCCAAGGCCTGCAACCTGAACGACAAGTGAAGAAGCTCCGCTCCTCCTACATCTCCATCTGCAACCG
CGAGATCTCTCCACCGAACGCTGCAACCGCCGCAAGTGCACACAAGGCCCTGCGCCAGTTCTTCGACCGT
GTGCCAGCGAGTATACCTACCGCATGCTCTTCTGCTCCTGTGAGGACCAGGCATGCGCCGAGCGTCCG
GGCAAACCATCTGCCAGCTGTTCTATGAGGACAAAGAGAAGCCCAATTGCTTGGACCTGCGCAGCCT
GTGTCGTACAGACCACTGTGCCGGTCCCGCTGGCAGACTTCCACGCCAAGTGTGAGCCTCCTACCGG
ACAATCACCAGCTGCCCTGCGGACAAGTACCAGGCATGTCTGGGCTCCTATGCTGGCATGATTGGGTTTG
ATATGACACCGAACTATGTGGACTCCAACCCACGGGCATCGTGGTGTCTCCCTGGTGAATTGTGCTGG
CAGTGGGAACATGGAAGAAGAGTGTGAGAAGTTCTCAAGGACTTACAGAAAACCCATGCCTCCGGAAT
GCCATTCAAGCCTTTGGCAATGGCACAGATGTGAACATGTCTCCAAAGGCCCCACATTTTCAGTACCC
AGGCCCTCGGGTAGAGAAAACCTCTTCACTGCCAGATGACCTCAGTGATAGCACCAGCCTGGGGACCAG
TGTATCACCACCTGCACATCTATCCAGGAGCAAGGGCTGAAGGCCAACAAGTCAAGAGTTAAGCATG
TGTTTCACAGAGCTCACGACAAATATCAGCCCAGGGAGTAAAAAGGTGATCAAATTTACTCAGGCCTCT
GCAGAGCCAGACTGTGACTGCCTTACTGCCCCCTCACTCCTGATGGTACCTTGGCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG225280 representing NM_008115
 Red=Cloning site Green=Tags(s)

MILANAFCLFFFLDETLRSLASPSSPQGSELHGWRPQVDCVRANELCAAESNCSSRYRTL RQCLAGRDRN
 TMLANKECQAALVLEQESPLYDCRCKRGMKKELQCLQIYWSIHLGLTEGEEFYEASPYEPTVTSRLSDIFR
 LASIFSGTGADPVVSAKSNHCLDAAKACNLNDNCKLKRSSYISICNREISPTERCNRRKCHKALRQFFDR
 VPSEYTYRMLFCSCQDQACAERRRQTIILPSCSYEDKEKPNCLDLRSLCRTDHLCRSRLADFHANCRAZYR
 TITSCPADNYQACLGSYAGMIGFDMTPNYVDSNPTGIVVSPWCNCRGSGNMEEEECEKFLKDFTENPCLRN
 AIQAFNGTQVNMSPKGPFTFSATQAPRVEKTPSLPDDLSDSTSLGTSVITTCSTIQEQGLKANSKELSM
 CFTELTNISP GSKKVIKLYSGSCRARLSTALTALPLLMVTLAQ

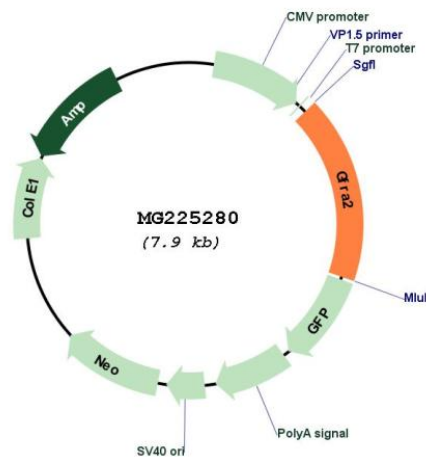
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_008115
ORF Size:	1392 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:	<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:	NM_008115.3 , NP_032141.2
RefSeq Size:	3462 bp
RefSeq ORF:	1395 bp
Locus ID:	14586
UniProt ID:	O08842
Cytogenetics:	14 D2
Gene Summary:	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]