

Product datasheet for **MG205092**

Gnb3 (NM_013530) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gnb3 (NM_013530) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gnb3
Synonyms:	Gnb-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205092 representing NM_013530 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGGAGATGGAGCAGCTGAGGCAGGAGGGCGGAGCAACTCAAGAAGCAGATTGCTGATGCCAGGAAAG
CCTGTGCGGACATCACTCTGGCTGAGCTTGTGTCTGGCCTGGAGGTGGTGGGCCGAGTCCAGATGCGGAC
ACGGAGGACATTAAGGGGACATCTGGCCAAGATCTATGCCATGCACTGGGCCACTGACTCTAAGCTGCTC
GTAAGTGCCTCGCAGGATGGGAAGCTGATCGTGTGGGACACTTATACCACCAATAAGGTGCATGCAATCC
CGCTGCGTTCCTCTGGGTCATGACCTGTGCCTATGCACCATCAGGGAACTTTGTGGCATGTGGGGGCT
GGACAACATGTGTCAATCTACAACCTCAAATCCCGCGAGGGCAATGTCAAGGTCAGCCGGGAGCTCTCT
GCTCACACAGGTTATCTCTCTGTTGCCCTTCTGGATGACAACAACATCGTGACTAGCTCTGGGGACA
CCACATGTGCCTTGTGGGACATTGAGACAGGACAGCAGAAGACAGTGTGGTGGGACACACTGGTGACTG
CATGAGCCTGGCTGTGTCCCGAGACTACAACTCTTCAATTTGGGAGCTTGGCATGCTAGCGCGAAGCTC
TGGGATGTGAGGGAAGGGACCTGTCGTCAGACTTTCACTGGCCATGAGTCAGACATCAATGCCATCTGTT
TCTTTCCCAACGGGGAGGCCATCTGCACTGGCTCAGATGACGCCCTCTGCCGCTCTTTGACCTGAGGGC
AGACCAGGAAGTACTGCCTATTCAGGAGAGCATCATCTGCCGATCACTTCAGTAGCCTTCTCGCTC
AGTGGGCGCTGCTCTTTCAGGCTATGATGACTTCAACTGCAATGTCTGGGACTCTGAAGTGGGAGC
GTGTAGGCATACTCTCTGGCCATGACAACAGAGTCAGCTGCCTGGGGTCACTGCTGACGGCATGGCTGT
GGCCACTGGTTCTGGGACAGCTTCTCAAATCTGGAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205092 representing NM_013530
 Red=Cloning site Green=Tags(s)

MGEMQLRQAEQLKKQIADARKACADITLAEIVSGLEVVRVQMRTRRTLGRHLAKIYAMHWATDSKLL
 VSASQDGKLIWVDYTTNKVHAIPLRSSWVMTCAYPASGNFVACGGLDNMCSIYNLKSREGNVKVSRELS
 AHTGYLSCCRFLDDNNIVTSSGDTTALWDIETGQOKTVFVGHTGDCMSLAVSPDYKLFISGACDASAKL
 WDVREGTCRQFTFGHESDINAICFFPNGEAICTGSDDASCRLFDLRADQELTAYSQESIICGITSVAFSL
 SGRLLFAGYDDFNCNVWDSLKCCERVGILSGHDNRVSVCLGVTADGMAVATGSWDSFLKIWN

TRTRPLE - GFP Tag - V

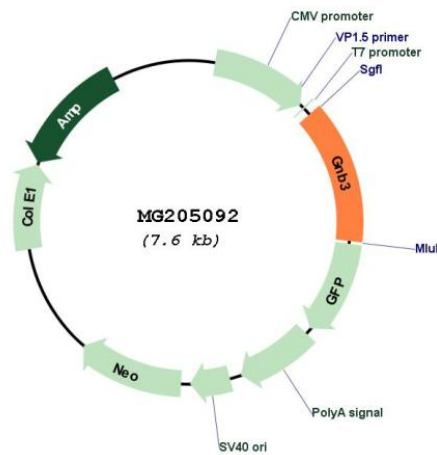
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_013530

ORF Size: 1020 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_013530.1 , NP_038558.1
RefSeq Size:	1887 bp
RefSeq ORF:	1023 bp
Locus ID:	14695
UniProt ID:	Q61011
Cytogenetics:	6 59.17 cM
Gene Summary:	Guanine nucleotide-binding proteins (G proteins) are involved as a modulator or transducer in various transmembrane signaling systems. The beta and gamma chains are required for the GTPase activity, for replacement of GDP by GTP, and for G protein-effector interaction. [UniProtKB/Swiss-Prot Function]