

## Product datasheet for **MG205102**

### Gnb1 (BC013058) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gnb1 (BC013058) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gnb1
Synonyms:	AA409223; C77571; Gnb-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205102 representing BC013058 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTGAACCTTGACCAGCTGCGGCAGGAGGCCGAGCAACTGAAGAACCAAATTAGAGATGCTCGTAAAG  
CGTGTGCCGATGCGACTCTTTCTCAGATCACAACAATATTGATCCAGTGGGAAGAATCCAAATGCGGAC  
CAGGAGAACACTGAGGGGCATCTGGCAAAGATTTATGCCATGCACTGGGCACAGACTCAAGGCTCCTT  
GTCAGCGCCTCTCAGGATGGAAAACATCATCTGGGACAGTTATACCACAAACAAGTTTCATGCCATCC  
CTCTGCGCTCCTTTGGGTCATGACCTGCGCATACGCTCCTTCTGGGAATTATGTGGCCTGTGGTGGCCT  
GGATAACATCTGCTCCATTTACAACCTGAAAACCTCGTGAAGGGAATGTGCGTGTGAGTCGTGAGCTGGCG  
GGACACACAGGTTATCTGTCTGTTGCCGGTTCCTGGATGACAATCAGATAGTTACCAGTTCTGGAGACA  
CCACATGTGCCCTGTGGGACATCGAGACTGGCCAGCAGACAACCACATTTACTGGACACACTGGAGATGT  
CATGAGCCTGTCTTGTCTGCTGACACCAGACTGTTTGTCTCTGGTGCTTGTGATGCTTCAGCCAAGCTC  
TGGGATGTCCGAGAAGGGATGTGCCGGCAGACCTTTACAGGACACGAGTCTGACATCAATGCCATATGTT  
TCTTTCCCAATGGCAATGCCTTTGCCACTGGCTCAGACGATGCCACATGCAGGCTGTTTGACCTCCGTGC  
AGACCAGGAGCTCATGACCTACTCCCATGACAACATTATCTGTGGTATCATATCTGTTTCTTCTCCAAG  
AGTGGCCGCTCCTCCTTGTGGGTATGATGACTTCAACTGTAATGTCTGGGATGCACTCAAAGCTGACA  
GAGCAGGTGTCTTAGCTGGACACGACAACCGAGTCAGCTGCTTGGGGTGACTGATGATGGCATGGCTGT  
GGCAACAGGGTCTGGGACAGCTTCTCAAGATCTGGAAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205102 representing BC013058  
Red=Cloning site Green=Tags(s)

MSELDQLRQEAQLKNQIRDARKACADATLSQITNNIDPVGRIQMRTRRTLGRHLAKIYAMHWGTD S RLL  
 VSASQDGKLI IWDSYTTNKVHAIPLRSSWVMTCA YAPSGNYVACGGLDNICSIYNLKTREGNVRV S RELA  
 GHTGYLSCCRFLDDNQIVTSSGDTTCALWDIETGQQTTF TGTGTDVMSLSLAPDTRLFVSGACDASAKL  
 WDVREGMCRQTF TGHESDINAICFFPNGNAFATGSDDATCRLFDLRADQELMTYSHDNIICGITSVSFSK  
 SGRLLLAGYDDFNCNVWDALKADRAGVLAGHDNRV SCLGVTDDGMAVATGSWDSFLKIWN

TRTRPLE - GFP Tag - V

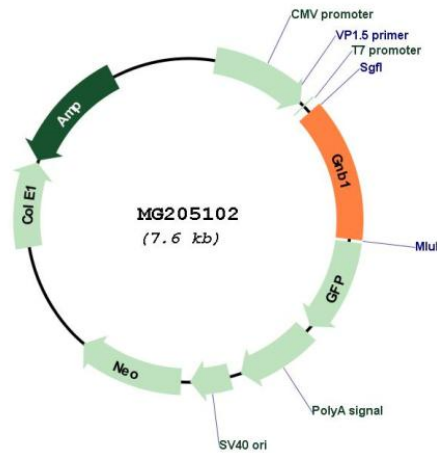
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** BC013058

**ORF Size:** 1022 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC013058</a> , <a href="#">AAH13058</a>
<b>RefSeq Size:</b>	1714 bp
<b>RefSeq ORF:</b>	1022 bp
<b>Locus ID:</b>	14688
<b>Cytogenetics:</b>	4 86.17 cM
<b>Gene Summary:</b>	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 (By similarity).[UniProtKB/Swiss-Prot Function]