

## Product datasheet for **MG205099**

### Gnb4 (NM\_013531) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gnb4 (NM_013531) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gnb4
Synonyms:	6720453A21Rik; G(beta)4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205099 representing NM_013531 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCGAGCTGGAGCAGCTGAGGCAGGAGGCTGAACAGCTTCGGAATCAGATCCAGGATGCTCGGAAGG  
CCTGCAATGATGCCACGCTGGTTCAGATCAGCTAATATGGACTCCGTGGGCCGAATACAAATGCGAAC  
AAGGCGCAGCTGCGCGGCCACCTCGCTAAGATCTACGCCATGCACTGGGATATGATTCAGGCTACTA  
GTCAGTGCTTCGCAAGATGGAAAATTAATTATTTGGGATAGCTATACGACAAATAAGATGCACGCCATCC  
CTCTGAGGTCCTCTGGGTGATGACCTGTGCCTACGCCCGTCCGGGAACACGTTGCCTGTGGAGGCTT  
GGATAACATCTGCTCCATATACAACCTAAAGACCCGAGAGGGGAATGTGCGGGTGAGCCGAGAATTGCCA  
GGACACACGGGCTACTTGTCTGCTGCCGATTCTTAGATGATGGACAAATCATTACAAGTTCCGGGAGACA  
CGACTTGTGCTTTGTGGGACATTGAGACCGGACAGCAGACTACGACCTTCACGGGACACTCGGGTGACGT  
GATGAGCCTCTCACTGAGTCCTGACTTGAAGACCTTTGTGTCTGGTGCTTGATGCATCCTCAAAGCTG  
TGGGATATCCGAGATGGGATGTGTAGACAGTCTTCCACCGACACATCTCAGACATCAACGCTGTGAGTT  
TCTTCCGAGTGGATATGCCTTTGCCACTGGTTCGATGATGCCACATGCCGACTCTTTGACCTCCGTGC  
AGACCAGGAGCTCCTGCTATACTCTCATGACAATATCATCTGTGGCATTACTTCTGTGGCCTTCTCAAAG  
AGTGGGCGCCTCCTGTTAGCCGGCTATGACGACTTCAACTGCACTGTGTGGGACGCTCTGAAAGGAGGCC  
GGTCAGGTGTCTTGTGGTCATGACAACCGTGTAGCTGCTTAGGTGTGACTGATGACGGCATGGCTGT  
GGCCACTGGCTCCTGGGACAGTTTTCTTAGAATCTGGAAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205099 representing NM\_013531  
Red=Cloning site Green=Tags(s)

MSELEQLRQAEQLRNQIQDARKACNDATLVQITSNMDSVGRIQMRTRRTLGRHLAKIYAMHWGYSRLL  
 VSASQDGKLIIWDSYTTNKMHAIPLRSSWVMTCAYPASGNVACGGLDNICSIYNLKTREGNVRVSRLEP  
 GHTGYLSCCRFLDDGQIITSSGDTTALWDIETGQQTTFTHSGDVMSSLSPDLKTFVSGACDASSKL  
 WDIRDGMCRQSFTHGISDINAVSFFPSGYAFATGSDDATCRLFDLRADQELLLYSHDNIICGITSVAFSK  
 SGRLLLAGYDDFNCSVDALKGGRSGVLAGHDNRVSCLGVTDDGMAVATGSWDSFLRIWN

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_013531

**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:**

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\\_013531.5](#)

**RefSeq Size:** 2751 bp

**RefSeq ORF:** 1023 bp

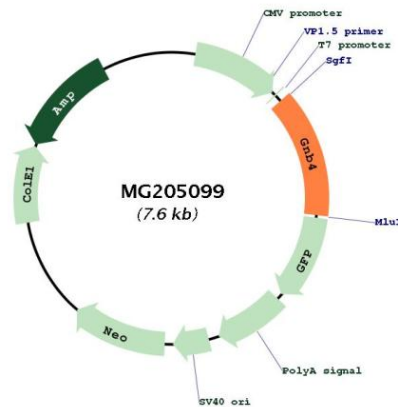
**Locus ID:** 14696

**UniProt ID:** [P29387](#)

**Cytogenetics:** 3 A3

**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]

## Product images:



Circular map for MG205099