

## Product datasheet for MR205096

### Gnb2 (NM\_010312) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gnb2 (NM_010312) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gnb2
Synonyms:	Gnb-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205096 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTGAGCTGGAGCAACTGAGACAGGAGGCCGAGCAGCTCCGGAACCAGATCCGGGACGCCAGAAAAG  
CATGCGGGGATCCACACTGACCCAGATCACAGCTGGGCTGGACCCAGTGGGGCGAATTCAGATGAGAAC  
ACGGAGGACCTCCGTGGACACCTGGCAAAAATCTATGCCATGCACTGGGGGACAGACTCAAGGCTGCTG  
GTCAGCGCCTCCAGGACGAAAGCTCATCTTTGGGACAGCTACACCACTAACAAGTCCACGCCATCC  
CTCTGCGTTCTCTGGGTGATGACCTGTGCCTACGCCCCCTCAGGGAACCTTTGTGGCCTGTGGGGTTT  
GGACAACATCTGCTCCATCTATAGTCTCAAGACCCGAGAGGGCAATGTCAGGGTACGAGAGAGCTGCCT  
GGCCACACTGGGTACCTGTGATGCTGCCCTTCTGGACGACAACCAATCATCACCAGCTCTGGGGACA  
CCACCTGTGCCCTGTGGGACATTGAGACAGGCCAGCAGACGGTGGGGTTTGTGGACACAGTGGGGATG  
GATGTCCCTGTCACTGGCCCCGATGGCCGCACCTTTGTGTCAGGTGCCTGTGACGCCTCCATCAAGCTG  
TGGGATGTTCCGGATTCCATGTGCCGACAGACATTCATAGGTACGAGTCCGACATCAATGCCGTGGCTT  
TCTTCCCAATGGCTATGCCTTACCACGGGATCAGATGACGCCACTTGTGCCTCTTTGACCTGCCGGC  
TGATCAGGAGCTGCTCATGTATCCACGACAACATCATCTGCCGATCACCTCGGTTGCCTTCTCGGC  
AGCGGCCGGCTGCTGCTCGCTGGCTACGACGACTTCAACTGCAACATCTGGGATGCCATGAAGGGTGACC  
GTGCAGGTGCTCGCTCGCTGGCCATGATAACCGTGTGAGCTGCCTTGGGGTACAGATGATGGAATGGCCGT  
GGCTACAGGCTCCTGGGACTCCTTCTCAAGATCTGGAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205096 protein sequence  
Red=Cloning site Green=Tags(s)

MSELEQLRQAEQLRNQIRDARKACGDSTLTQITAGLDPVGRIQMRTRRTLGRHLAKIYAMHWGTDSRLL  
 VSASQDGKLIIWDSYTTNKVHA.IPLRSSWVMTCAYAPSGNFVACGGLDNICSIYSLKTRREGNVRVRSRELP  
 GHTGYLSCCRFLDDNQIITSSGDTTCALWDIETGQQTGVFAGHSGDVMSSLAPDGRTFVSGACDASIKL  
 WDVRDSMCRQTFIGHESDINAVAFFPNGYAFTTGSDDATCRLFDLRADQELLMYSHDNIICGITSVAFSR  
 SGRLLLAGYDDFNCNIWDAMKGDRAVLAGHDNRVSLGVTDDGMAVATGSWDSFLKIWN

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\_010312

**ORF Size:** 1023 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\\_010312.5](#)

**RefSeq Size:** 1593 bp

**RefSeq ORF:** 1023 bp

**Locus ID:** 14693

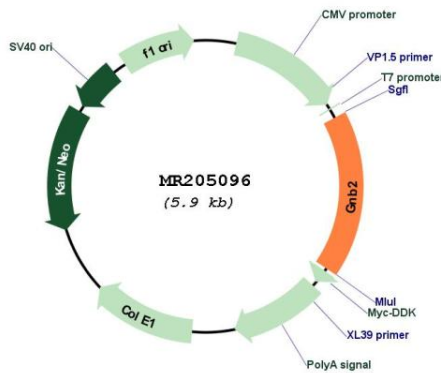
**UniProt ID:** [P62880](#)

**Cytogenetics:** 5 76.54 cM

**MW:** 37.3 kDa

**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 MR205096