

## Product datasheet for MC201261

### Gnb5 (NM\_010313) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gnb5 (NM_010313) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gnb5
Synonyms:	flr; Gbeta5; GBS
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >BC016135 sequence for NM\_010313  
GGTGTTTCATTGCTCTGTAAAGCCTCATCTCAGCCAAGATGTGCGATCAGACCTTCCTGGTTAATGTGTTCCG  
GCTCATGTGACAAATGCTTCAAACAAGGGCCCTAAGACCCGTTTTCAAGAAATCTCAACAACCTCAACTA  
CTGCTCCACGTGTGCAGAGATCATGGCAACCGATGGGCTGCACGAGAACGAGACGCTGGCGTCGCTGAAG  
AGCGAGGCCGAGAGCCTCAAGGGCAAGCTAGAGGAGGAGCGGGCAAAGCTGCATGACGTGGAGCTACACC  
AGGTGGCCGAGCGGGTGGAGGCCCTGGGCCAGTTTGTGATGAAGACCAGAAGGACCCTCAAAGGCCACGG  
GAACAAAGTCTGTGCATGGATTGGTGAAGACAAGCGGAGAATCGTGAGCTCCTCACAGGATGGGAAG  
GTGATTGTCTGGGATTCCTTCACTACGAACAAGGAGCACGCGGTACCATGCCTTGACCTGGGTGATGG  
CGTGTGCTTACGCGCCATCGGGATGCGCCATTGCTTGTGGTGGTCTGGATAATAAGTGTCTGTGTATCC  
ACTGACATTGACAAGAACGAGAACATGGCCGCCAAGAAGAAGTCTGTTGCTATGCACCAACTACCTG  
TCTGCCTGCAGCTTCACCAACTCTGACATGCAGATTCTGACAGCCAGCGGGATGGCACCTGCGCCCTGT  
GGGATGTGGAAAGTGGACAGCTGTACAGAGCTTCCATGGGCACGGGGCTGACGTCTCTGCTTGGACCT  
GGCCCCCTCGAAACAGGAAACACCTTCGTGTCTGGGGTTGTGACAAGAAGGCCATGGTGTGGGACATG  
CGCTCTGGCCAGTGCCTGCAAGCCTTTGAAACTCATGAATCGGATGTCAACAGTGTTCGGTACTACCCCA  
GTGGGGATGCTTTTGCTTCGGGGTGGATGATGCCACGTGTGCGCTCTATGACCTGAGGGCAGATAGAGA  
GGTCGCCATCTACTCAAAGGAGAGCATCATATTTGGCGCTCGAGTGTGGACTTCTCCCTCAGTGGTCCG  
CTGCTTTTGTGGTACAATGACTATACCATCAATGTCTGGGATGTTCTCAAGGGCTCCCGGTCTCCA  
TCCTGTTTGGACATGAAAACCGGTCAGCACTCTGCGAGTGTCTCCTGATGGGACAGCATTCTGCTCGG  
ATCATGGGATCACACCCTAAGAGTTTGGGCATAATCTTCTGACAGCGTTCAAGAATGTGTCTCCTCGT  
GTAGATGACTTCTCCATGAGCCAGGGCTTCCACAGGTTAGCTTATGGGAGCAACCTCACAGCTCGG  
CACTCACTCACCCGTCAGTGTCTCCATGAAATCTGCCCTCCTGGAACAACCTCGGATAGGCCGTGG  
CACTTCAACTGGACCTTCAAGCCCTTGTGATCTCAAAAACCTGCTAAGTTCTGTCTGTTTTTGAAT  
TATCCAGCCAATGGAATTTACATTTATCAGCATTTAAATGTCCTCGTTGTTTCTTGGATCTAGTC  
TGTCTTACAGCACTTTAAACTGTACCTTTTCTGGCGTGGACTGTGGCTTCTAGAACCCTTGGGAT  
GTGCCGGTTATGTGGACTGTAAGAAAGAATGTTCACTGGTCTGTAATAGAAGGAAATTCTATTTCCAGAT  
GTAACACTACAGAACCACTTTTTAAACTGTTTTAGGTAATAATATCTTTTTTCAAAAAAAAAAAAAA



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<b>Restriction Sites:</b>	RsrII-NotI
<b>ACCN:</b>	NM_010313
<b>Insert Size:</b>	1188 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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="#">BC016135</a> , <a href="#">AAH16135</a>
<b>RefSeq Size:</b>	1750 bp
<b>RefSeq ORF:</b>	1188 bp
<b>Locus ID:</b>	14697
<b>UniProt ID:</b>	<a href="#">P62881</a>
<b>Cytogenetics:</b>	9 42.3 cM
<b>Gene Summary:</b>	<p>Enhances GTPase-activating protein (GAP) activity of regulator of G protein signaling (RGS) proteins, hence involved in the termination of the signaling initiated by the G protein coupled receptors (GPCRs) by accelerating the GTP hydrolysis on the G-alpha subunits, thereby promoting their inactivation (Probable). Increases RGS9 GTPase-activating protein (GAP) activity, hence contributes to the deactivation of G protein signaling initiated by D(2) dopamine receptors (By similarity). May play an important role in neuronal signaling, including in the parasympathetic, but not sympathetic, control of heart rate (By similarity). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1; also known as Long, Beta-5L, Gbeta5L) encodes the longer isoform (1).</p>