

Product datasheet for **RG204134**

GNB5 (NM_006578) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GNB5 (NM_006578) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GNB5
Synonyms:	GB5; gbeta5; IDDCA; LADCI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204134 representing NM_006578 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAACCGAGGGGCTGCACGAGAACGAGACGCTGGCGTCGCTGAAGAGCGAGGCCGAGAGCCTCAAGG
GCAAGCTGGAGGAGGAGCGAGCCAAGCTGCACGATGTGGAGCTGCACCAGGTGGCGGAGCGGGTGGAGGC
CCTGGGGCAGTTTGTTCATGAAGACCAGAAGGACCCTCAAAGGCCACGGGAACAAAGTCTGTGCATGGAC
TGGTGCAAAGATAAGAGGAGGATCGTGAGCTCGTCACAGGATGGGAAGGTGATCGTGTGGGATTCCTTCA
CCACAAACAAGGAGCACGCGGTACCATGCCCTGCACGTGGGTGATGGCATGTGCTTATGCCCATCGGG
ATGTGCCATTGCTTGTGGTGGTTTGGATAATAAGTGTTCTGTGTACCCCTTGACGTTTGACAAAAATGAA
AACATGGCTGCCAAAAAGAAGTCTGTTGCTATGCACACCAACTACCTGTGGCCTGCAGCTTCAACCACT
CTGACATGCAGATCCTGACAGCGAGCGCGATGGCACATGTGCCCTGTGGGACGTGGAGAGCGGGCAGCT
GCTGCAGAGCTTCCACGGACATGGGGCTGACGTCCTCTGCTTGGACCTGGCCCCCTCAGAAACTGGAAAC
ACCTTCGTGTCTGGGGATGTGACAAGAAAGCCATGGTGTGGGACATGCGCTCCGGCCAGTGCCTGCAGG
CCTTTGAAACACATGAATCTGACATCAACAGTGTCCGGTACTACCCAGTGGAGATGCCTTTGCTTCAGG
GTCAGATGACGCTACGTGTGCCTCTATGACCTGCGGGCAGATAGGGAGGTTGCCATCTATTCCAAGAA
AGCATCATATTTGGAGCATCCAGCGTGGACTTCCCTCAGTGGTGCCTGCTGTTTGATGATACAATG
ATTACACTATCAACGCTGGGATGTTCTCAAAGGGTCCCGGGTCTCCATCCTGTTTGGACATGAAAACCG
CGTTAGCACTCTACGAGTTTCCCCCGATGGGACTGCTTCTGCTCTGGATCATGGGATCATACCCTCAGA
GCTGGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG204134 representing NM_006578
 Red=Cloning site Green=Tags(s)

MATEGLHENETLASLKSEAESLKGKLEERAKLHDVELHQVAERVEALGQFVMKTRRTLKGHGKLVLCMD
 WCKDKRRIVSSSQDGKVIWVDSFTTNKEHAVTMPCTWVMACAYAPSGCAIACGGLDNKCSVYPLTFDKNE
 NMAAKKKSVMHTNYLSACSFTNSDMQILTASGDGTALWDVESGQLLQSFHGHGADVLCCLDLAPSETGN
 TFVSGGCDKKAMVWDMRSGQCVQAFETHESDINSVRYPPSGDAFASGSDDATCRLYDLRADREVAIYSKE
 SIIFGASSYDFSLSGRLLFAGYNDYITINWVDLKGSRVILFGHENRVSTLRVSPDGTAFCSGSWDHTLR
 VWA

TRTRPLE - GFP Tag - V

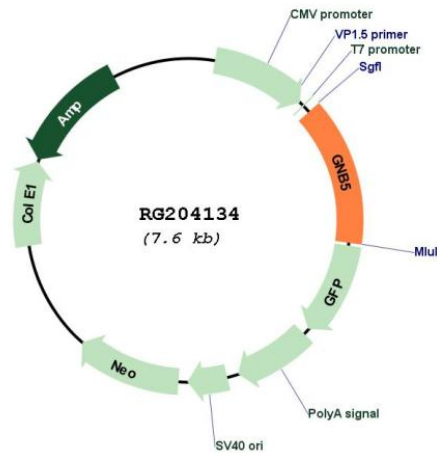
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_006578

ORF Size:	1059 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_006578.4
RefSeq Size:	2979 bp
RefSeq ORF:	1062 bp
Locus ID:	10681
UniProt ID:	Q14775
Cytogenetics:	15q21.2
Domains:	WD40
Protein Families:	Druggable Genome
Protein Pathways:	Chemokine signaling pathway
Gene Summary:	Heterotrimeric guanine nucleotide-binding proteins (G proteins), which integrate signals between receptors and effector proteins, are composed of an alpha, a beta, and a gamma subunit. These subunits are encoded by families of related genes. This gene encodes a beta subunit. Beta subunits are important regulators of alpha subunits, as well as of certain signal transduction receptors and effectors. Alternatively spliced transcript variants encoding different isoforms exist. [provided by RefSeq, Jul 2008]