

Product datasheet for **RG221491**

GNB5 (NM_016194) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GNB5 (NM_016194) 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:	>RG221491 representing NM_016194 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGTGATCAGACCTTCTCGTTAATGTATTTGGCTCATGTGACAAATGTTTCAAACAACGAGCTCTGA
GACCAGTTTTCAAGAAGTCTCAACAACCTCAGCTACTGTTCAACATGTGCAGAAATATGGCAACCGAGGG
GCTGCACGAGAACGAGACGCTGGCGTCGCTGAAGAGCGAGGCCGAGAGCCTCAAGGGCAAGCTGGAGGAG
GAGCGAGCCAAGCTGCACGATGTGGAGCTGCACCAGGTGGCGGAGCGGGTGGAGGCCCTGGGGCAGTTTG
TCATGAAGACCAGAAGGACCCCTCAAAGGCCACGGGAACAAAGTCTGTGCATGGACTGGTGCAAAGATAA
GAGGAGGATCGTGAGCTCGTACAGGATGGGAAGGTGATCGTGTGGGATTCCTTACCACAAACAAGGAG
CACGCGGTACCATGCCCTGCACGTGGGTGATGGCATGTGCTTATGCCCATCGGGATGTGCCATTGCTT
GTGGTGGTTTGGATAATAAGTGTCTGTGTACCCCTTGACGTTTGACAAAATGAAAACATGGTGCCAA
AAAGAAGTCTGTTGCTATGCACACCAACTACCTGTGCGCCTGCAGCTTACCAACTCTGACATGCAGATC
CTGACAGCGAGCGCGATGGCACATGTGCCCTGTGGGACGTGGAGAGCGGGCAGCTGCTGCAGAGCTTCC
ACGGACATGGGGCTGACGTCCTCTGCTTGGACCTGGCCCCCTCAGAACTGGAACACCTTCGTGTCTGG
GGGATGTGACAAGAAAGCCATGGTGTGGACATGCGCTCCGGCCAGTGCAGGCCTTGAACACAT
GAATCTGACATCAACAGTGTCCGGTACTACCCAGTGGAGATGCCTTTGCTTCAGGGTCAGATGACGCTA
CGTGTGCGCTCTATGACCTGCGGGCAGATAGGGAGGTTGCCATCTATTCCAAGAAAGCATCATATTTGG
AGCATCCAGCGTGGACTTCTCCCTCAGTGGTCCGCTGCTGTTTGTGGATACAATGATTACACTATCAAC
GTCTGGGATGTTCTCAAAGGGTCCCGGTCTCCATCCTGTTTGGACATGAAAACCGGTTAGCACTCTAC
GAGTTTCCCCGATGGGACTGCTTTCTGCTCTGGATCATGGGATCATACCCTCAGAGTCTGGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG221491 representing NM_016194
 Red=Cloning site Green=Tags(s)

MCDQTFLLVNVFGSCDKCFKQRALRPVFKKSQQLSYCSTCAEIMATEGLHENETLASLKSEAESLKGKLEE
 ERAKLHDVELHQVAERVEALGQFVMKTRRTLKGHGKLVLCMDWCKDKRRIVSSSQDGKVIWVDSFTTNKE
 HAVTMPCTWVMACAYAPSGCAIACGGLDNKCSVYPLTFDKNENMAAKKKSAMHTNYLSACSFTNSDMQI
 LTASGDGTALWDVE SGQLLQSFHGHGADVLC LDLAPSETGNTFVSGGCDKKAMVWDMRSGQCQVAFETH
 ESDINSVRYYPGDAFASGSDDATCRLYDLRADREVAIYSKESIIFGASSVDFSLSGRLLFAGYNDYITIN
 VWDVLKGSRVSILFGHENRVSTLRVSPDGTAFCSGSWDHTLRVWA

TRTRPLE - GFP Tag - V

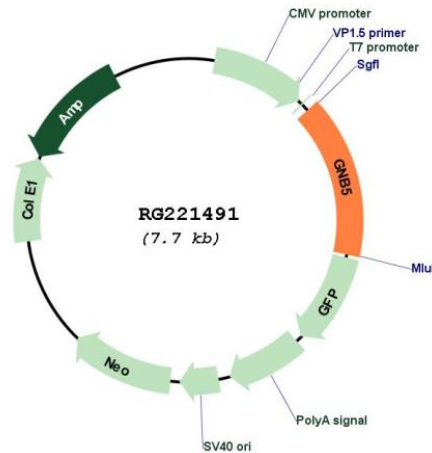
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_016194

ORF Size:	1185 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_016194.4
RefSeq Size:	3084 bp
RefSeq ORF:	1188 bp
Locus ID:	10681
UniProt ID:	O14775
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]