

Product datasheet for **RG201651**

G protein beta 4 (GNB4) (NM_021629) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	G protein beta 4 (GNB4) (NM_021629) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GNB4
Synonyms:	CMTD1F
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201651 representing NM_021629 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCGAACTGGAACAGTTGAGGCAAGAAGCAGAACAACGCGGAATCAGATTCAGGATGCTCGGAAAG
CATGTAATGATGCAACGCTTGTTCAGATTACATCAAATATGGACTCCGTGGTGAATACAAATGCGAAC
AAGACGTACACTGAGGGCCACCTAGCTAAAATCTATGCTATGCATTGGGGATACGATTCAGGCTGCTA
GTCAGTGCTTCTCAAGATGGAAAATTAATTATTTGGGATAGCTATACAACAAATAAGATGCATGCTATTC
CTTTGAGGTCCTCTGGGTGATGACCTGTGCTTATGCTCCCTCTGGTAATTATGTTGCCTGTGGAGGCTT
GGACAACATCTGCTCTATATAAATTAAGACCAGAGAGGAAATGTGAGAGTAAGCCGAGAGTTGCCA
GGTCACACAGGGTACTTGTCTGCTGTCGTTTTTTAGATGACAGCCAAATTTGTTACAAGTTCAGGAGATA
CAACTTGTGCTTTATGGGACATCGAAACTGCCAGCAGACCACCACATTCAGTGGGCATTCTGGAGATGT
GATGAGTCTTTCTTTGAGTCCTGACATGAGGACTTTTGTCTGGTGCTTGTGATGCCTCTTCCAAATTA
TGGGATATTCGAGATGGAATGTGTAGACAGTCTTTCACGGGACATGTCTCAGATATCAATGCTGTGAGTT
TTTTCCAAATGGATATGCCTTCGCCACTGGCTCTGATGATGCCACTTCCCGGCTCTTTGACCTTCGTGC
AGATCAAGAGTTATTATTGTATTCTCATGACAATATCATCTGTGGAATCACTTCTGTAGCCTTCTCAAAA
AGTGGGCGTCTCTTGTGGCTGGTTACGATGACTTTAATTGTAATGTATGGGACACGCTAAAAGGAGATC
GTGCAGGTGTCCTTGTGGTCATGACAACCGTGTGAGCTGCTTAGGTGTAAGTATGATGGCATGGCTGT
GGCAACAGGCTCTTGGGACAGTTTTCTTAGAATCTGGAAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201651 representing NM_021629
 Red=Cloning site Green=Tags(s)

MSELEQLRQAEQLRNQIQDARKACNDATLVQITSNMDSVGRIQMRTTRTLRGHLAKIYAMHWGYSRLL
 VSASQDGKLIWDSYTTNKMHAIPLRSSWVMTCAYPASGNVYACGGLDNICSIYNLKTREGNVRVSRELP
 GHTGYLSCCRFLDDSQIVTSSGDTTCALWDIETAQQTTFTHSGDVMSSLSPDMRTFVSGACDASSKL
 WDIRDGMCRQSFTHGVS DINAVSFFPNGYAFATGSDDATCRLFDLRADQELLLYSHDNIICGITSVAFSK
 SGRLLLAGYDDFNCNVWDTLKGDRAGVLAGHDNRVSVCLGVTDDGMAVATGSWDSFLRIWN

TRTRPLE - GFP Tag - V

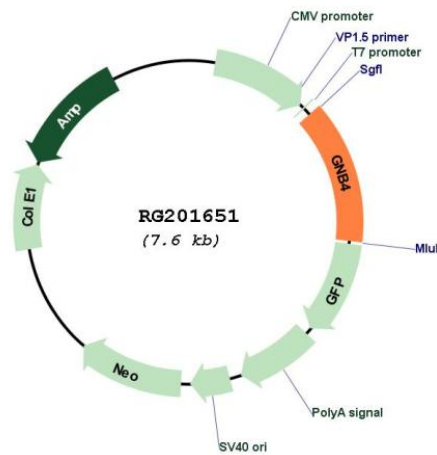
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_021629

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:	<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_021629.1
RefSeq Size:	6428 bp
RefSeq ORF:	1023 bp
Locus ID:	59345
UniProt ID:	Q9HAV0
Cytogenetics:	3q26.33
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. [provided by RefSeq, Jul 2008]