

Product datasheet for **RG205289**

G protein alpha inhibitor 1 (GNAI1) (NM_002069) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	G protein alpha inhibitor 1 (GNAI1) (NM_002069) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GNAI1
Synonyms:	Gi
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205289 representing NM_002069 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCTGCACGCTGAGCGCCGAGGACAAGGCGCGGTGGAGCGGAGTAAGATGATCGACCGCAACCTCC
GTGAGGACGGCGAGAAGGCGCGCGAGGTCAAGCTGCTGCTCGGTGCTGGTGAATCTGGTAAAAG
TACAATTGTGAAGCAGATGAAAATTATCCATGAAGCTGGTTATTCAGAAGAGGAGTGAACAATACAAA
GCAGTGGTCTACAGTAACACCATCCAGTCAATTATTGCTATCATTAGGGCTATGGGAGGTTGAAGATAG
ACTTTGGTGAAGTCAAGGAGTGAAGGAGTGAAGGAGTGAAGGAGTGAAGGAGTGAAGGAGTGAAGGAGT
CTTTATGACTGCAGAAGTGGTGGATTATAAAGAGATTGTGAAAGATAGTGGTGTACAAGCCTGTTC
AACAGATCCCAGAGTACCAGCTTAATGATTCTGCAGCATACTATTTGAATGACTTGGACAGAATAGCTC
AACCAATTACATCCCGACTCAACAAGATGTTCTCAGAAGTAGAGTGAAGGAGTGAAGGAGTGAAGGAGT
CCATTTTACTTTCAAAGATCTTCATTTTAAATGTTTGTGTGGGAGGTGAGAGTCTGAGCGGAAGAAAG
TGGATTCATTGCTTGAAGGAGTGGCGGCATCATCTTCTGTGTAGCACTGAGTGAAGGAGTGAAGGAGT
TAGCTGAAGATGAAGAAATGAACCGAATGCATGAAAGCATGAAATGTTTGAAGGAGTGAAGGAGTGAAGGAGT
GTGGTTTACAGATACATCCATTACTTTTTCTAAACAAGAAGGATCTTTTTGAAGAAAAATCAAAAAG
AGCCCTCACTATATGCTATCAAGAATATGCAGGATCAACACATATGAAGGAGTGAAGGAGTGAAGGAGT
AATGTCAGTTTGAAGACCTCAATAAAGAAAGGACACAAAGGAAATATACACCCACTTCACATGTGCCAC
AGATACTAAGAATGTGCAGTTTGTGTTTGTGCTGTAACAGATGTCATCATAAAAAATAATCTAAAAGAT
TGTGGTCTCTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205289 representing NM_002069
 Red=Cloning site Green=Tags(s)

MGCTLSAEDKAAVERSKMIDRNLRDGEKAAREVKLLLLGAGESGKSTIVKQMKIIEAGYSEEECKQYK
 AVVYSNTIQSIIAIIIRAMGRKIDFGDSARADDARQLFVLGAAEEGFMTAELAGVIKRLWKDSGVQACF
 NRSREYQLNDSAAYYLNDLDRIAQPNYIPTQQDVLRTVKTGTGIVETHFTFKDLHFKMFDVGGQRSEK
 WIHCFEGVAAIIFCVALSVDYDLVLAEDEEMNRMHESMKLFDSICNNKWFDTTSIILFLNKKDLFEKIKK
 SPLTICYQEYAGSNTYEEAAAYIQCFEDLNKRKDTKEIYTHFTCATDTKNVQVFVDAVTDVVIKNNLKD
 CGLF

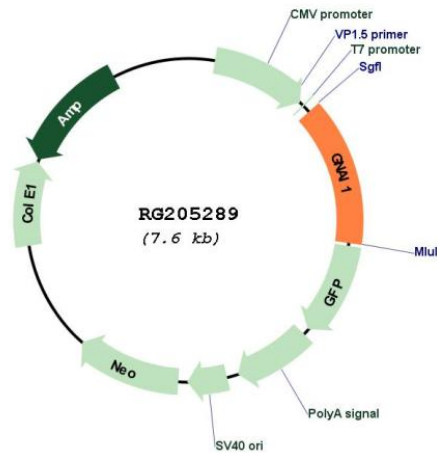
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_002069

ORF Size:	1062 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_002069.3
RefSeq Size:	3342 bp
RefSeq ORF:	1065 bp
Locus ID:	2770
UniProt ID:	P63096
Cytogenetics:	7q21.11
Domains:	G-alpha
Protein Families:	Druggable Genome
Protein Pathways:	Axon guidance, Chemokine signaling pathway, Gap junction, Leukocyte transendothelial migration, Long-term depression, Melanogenesis, Progesterone-mediated oocyte maturation, Tight junction
Gene Summary:	Guanine nucleotide binding proteins are heterotrimeric signal-transducing molecules consisting of alpha, beta, and gamma subunits. The alpha subunit binds guanine nucleotide, can hydrolyze GTP, and can interact with other proteins. The protein encoded by this gene represents the alpha subunit of an inhibitory complex. The encoded protein is part of a complex that responds to beta-adrenergic signals by inhibiting adenylate cyclase. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]