

Product datasheet for **RC205289**

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:	Myc-DDK
Symbol:	G protein alpha inhibitor 1
Synonyms:	Gi
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205289 representing NM_002069 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCTGCACGCTGAGCGCCGAGGACAAGGCGCGGTGGAGCGGAGTAAGATGATCGACCGCAACCTCC
GTGAGGACGGCGAGAAGGCGCGCGAGGTCAAGCTGCTGCTCGGTGCTGGTGAATCTGGTAAAAG
TACAATTGTGAAGCAGATGAAAATTATCCATGAAGCTGGTTATTCAGAAGAGGAGTGAACAATACAAA
GCAGTGGTCTACAGTAACACCATCCAGTCAATTATTGCTATCATTAGGGCTATGGGAGGTTGAAGATAG
ACTTTGGTGAAGTACAGCCCGGCGGATGATGCACGCCAACTCTTTGTGCTAGCTGGAGCTGCTGAAGAAGG
CTTTATGACTGCAGAACTTGCTGGAGTTATAAAGAGATTGTGAAAGATAGTGGTGTACAAGCCTGTTC
AACAGATCCCAGAGTACCAGCTTAATGATTCTGCAGCATACTATTTGAATGACTTGGACAGAATAGCTC
AACCAAATTACATCCCGACTCAACAAGATGTTCTCAGAAGTAGAGTGAAAACACAGGAATTGTTGAAAC
CCATTTTACTTTCAAAGATCTTCATTTTAAAAATGTTTGTGTGGGAGGTGAGAGATCTGAGCGGAAGAAG
TGGATTCATTGCTTGAAGGAGTGACGGCGATCATCTTCTGTGTAGCACTGAGTGACTACGACCTGGTTC
TAGCTGAAGATGAAGAAATGAACCGAATGCATGAAAGCATGAAATGTTTGACAGCATATGTAACAACAA
GTGTTTACAGATACATCCATTACTTTTTCTAAACAAGAAGGATCTCTTTGAAGAAAAATCAAAAAG
AGCCCTCACTATATGCTATCCAGAATATGCAGGATCAAACACATATGAAGAGGCAGCTGCATATATTC
AATGTCAGTTTGAAGACCTCAATAAAGAAAGGACACAAAGGAAATATACACCCACTTCACATGTGCCAC
AGATACTAAGAATGTGCAGTTTGTGTTTGTGCTGTAACAGATGTCATCATAAAAAATAATCTAAAAGAT
TGTGGTCTCTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Reconstitution Method:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_002069.6](#)

RefSeq Size: 3342 bp

RefSeq ORF: 1065 bp

Locus ID: 2770

UniProt ID: [P63096](#)

Cytogenetics: 7q21.11

Domains: G-alpha

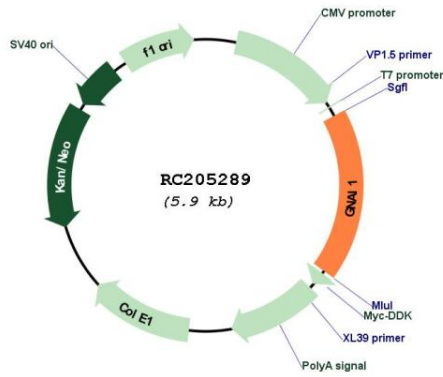
Protein Families: Druggable Genome

Protein Pathways: Axon guidance, Chemokine signaling pathway, Gap junction, Leukocyte transendothelial migration, Long-term depression, Melanogenesis, Progesterone-mediated oocyte maturation, Tight junction

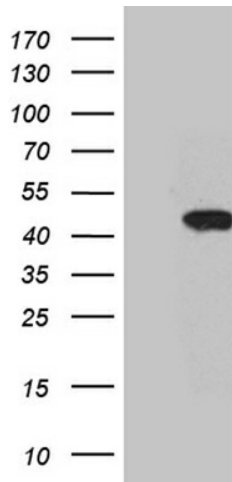
MW: 40.2 kDa

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]

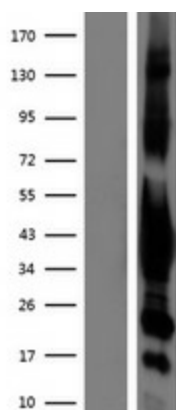
Product images:



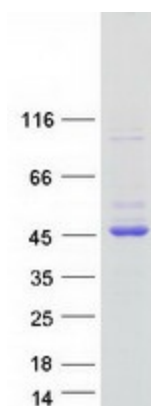
Circular map for RC205289



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY GNAI1 (Cat# RC205289, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GNAI1 (Cat# [TA811907]). Positive lysates [LY419561] (100ug) and [LC419561] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY419561]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205289 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GNAI1 protein (Cat# [TP305289]). The protein was produced from HEK293T cells transfected with GNAI1 cDNA clone (Cat# RC205289) using MegaTran 2.0 (Cat# [TT210002]).