

## Product datasheet for **RC209199L2V**

### **GNAQ (NM\_002072) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

Product Type:	Lentiviral Particles
Product Name:	GNAQ (NM_002072) Human Tagged ORF Clone Lentiviral Particle
Symbol:	GNAQ
Synonyms:	CMC1; G-ALPHA-q; GAQ; SWS
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_002072
ORF Size:	1077 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC209199).
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. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_002072.2</a>
RefSeq Size:	6343 bp
RefSeq ORF:	1080 bp
Locus ID:	2776
UniProt ID:	<a href="#">P50148</a>
Cytogenetics:	9q21.2
Domains:	G-alpha
Protein Families:	Druggable Genome



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**Protein Pathways:** Alzheimer's disease, Calcium signaling pathway, Gap junction, GnRH signaling pathway, Huntington's disease, Long-term depression, Long-term potentiation, Melanogenesis, Vascular smooth muscle contraction

**MW:** 42.1 kDa

**Gene Summary:** This locus encodes a guanine nucleotide-binding protein. The encoded protein, an alpha subunit in the Gq class, couples a seven-transmembrane domain receptor to activation of phospholipase C-beta. Mutations at this locus have been associated with problems in platelet activation and aggregation. A related pseudogene exists on chromosome 2.[provided by RefSeq, Nov 2010]