

## Product datasheet for **RR208034L3V**

### Gna13 (NM\_001013119) Rat Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | Gna13 (NM_001013119) Rat Tagged ORF Clone Lentiviral Particle  |
| Symbol:                   | Gna13  |
| Synonyms:                 | Galpha13   |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-Myc-DDK-P2A-Puro (PS100092)   |
| Tag:                      | Myc-DDK  |
| ACCN:                     | NM_001013119   |
| ORF Size:                 | 1131 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RR208034).   |
| 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_001013119.1</a> , <a href="#">NP_001013137.1</a>  |
| RefSeq Size:              | 1159 bp  |
| RefSeq ORF:               | 1134 bp  |
| Locus ID:                 | 303634   |
| UniProt ID:               | <a href="#">Q6Q7Y5</a>   |
| Cytogenetics:             | 10q32.1  |



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**Gene Summary:**

Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems (PubMed:12176367). Activates effector molecule RhoA by binding and activating RhoGEFs (ARHGEF1/p115RhoGEF, ARHGEF11/PDZ-RhoGEF and ARHGEF12/LARG) (By similarity). GNA13-dependent Rho signaling subsequently regulates transcription factor AP-1 (activating protein-1) (By similarity). Promotes tumor cell invasion and metastasis by activating RhoA/ROCK signaling pathway (By similarity). Inhibits CDH1-mediated cell adhesion in process independent from Rho activation (By similarity). [UniProtKB/Swiss-Prot Function]