

## Product datasheet for **RC210362L4V**

### GRPR (NM\_005314) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | GRPR (NM_005314) Human Tagged ORF Clone Lentiviral Particle  |
| Symbol:                   | GRPR   |
| Synonyms:                 | BB2; BB2R; BRS2  |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-mGFP-P2A-Puro (PS100093)  |
| Tag:                      | mGFP   |
| ACCN:                     | NM_005314  |
| ORF Size:                 | 1152 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC210362).   |
| 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_005314.2</a>  |
| RefSeq Size:              | 2681 bp  |
| RefSeq ORF:               | 1155 bp  |
| Locus ID:                 | 2925   |
| UniProt ID:               | <a href="#">P30550</a>   |
| Cytogenetics:             | Xp22.2   |
| Protein Families:         | Druggable Genome, GPCR, Transmembrane  |
| Protein Pathways:         | Calcium signaling pathway, Neuroactive ligand-receptor interaction   |



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**MW:** 43.2 kDa

**Gene Summary:** Gastrin-releasing peptide (GRP) regulates numerous functions of the gastrointestinal and central nervous systems, including release of gastrointestinal hormones, smooth muscle cell contraction, and epithelial cell proliferation and is a potent mitogen for neoplastic tissues. The effects of GRP are mediated through the gastrin-releasing peptide receptor. This receptor is a glycosylated, 7-transmembrane G-protein coupled receptor that activates the phospholipase C signaling pathway. The receptor is aberrantly expressed in numerous cancers such as those of the lung, colon, and prostate. An individual with autism and multiple exostoses was found to have a balanced translocation between chromosome 8 and a chromosome X breakpoint located within the gastrin-releasing peptide receptor gene. [provided by RefSeq, Jul 2008]