

## Product datasheet for **RC206056L4V**

### Neuropeptide Y (NPY) (NM\_000905) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | Neuropeptide Y (NPY) (NM_000905) Human Tagged ORF Clone Lentiviral Particle  |
| Symbol:                   | NPY  |
| Synonyms:                 | PYY4   |
| Mammalian Cell Selection: | Puromycin  |
| Vector:                   | pLenti-C-mGFP-P2A-Puro (PS100093)  |
| Tag:                      | mGFP   |
| ACCN:                     | NM_000905  |
| ORF Size:                 | 291 bp   |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC206056).   |
| 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_000905.2</a>  |
| RefSeq Size:              | 576 bp   |
| RefSeq ORF:               | 294 bp   |
| Locus ID:                 | 4852   |
| UniProt ID:               | <a href="#">P01303</a>   |
| Cytogenetics:             | 7p15.3   |
| Domains:                  | hormone3   |
| Protein Families:         | Druggable Genome, Secreted Protein, Transmembrane  |



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|                          |  |
|--------------------------|--|
| <b>Protein Pathways:</b> | Adipocytokine signaling pathway  |
| <b>MW:</b>               | 10.9 kDa   |
| <b>Gene Summary:</b>     | <p>This gene encodes a neuropeptide that is widely expressed in the central nervous system and influences many physiological processes, including cortical excitability, stress response, food intake, circadian rhythms, and cardiovascular function. The neuropeptide functions through G protein-coupled receptors to inhibit adenylyl cyclase, activate mitogen-activated protein kinase (MAPK), regulate intracellular calcium levels, and activate potassium channels. A polymorphism in this gene resulting in a change of leucine 7 to proline in the signal peptide is associated with elevated cholesterol levels, higher alcohol consumption, and may be a risk factor for various metabolic and cardiovascular diseases. The protein also exhibits antimicrobial activity against bacteria and fungi. [provided by RefSeq, Oct 2014]</p> |