

## Product datasheet for **RC223864L2V**

### **PDE1A (NM\_001003683) Human Tagged ORF Clone Lentiviral Particle**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Lentiviral Particles   |
| Product Name:             | PDE1A (NM_001003683) Human Tagged ORF Clone Lentiviral Particle  |
| Symbol:                   | PDE1A  |
| Synonyms:                 | CAM-PDE-1A; CAM-PDE 1A; HCAM-1; HCAM1; HSPDE1A   |
| Mammalian Cell Selection: | None   |
| Vector:                   | pLenti-C-mGFP (PS100071)   |
| Tag:                      | mGFP   |
| ACCN:                     | NM_001003683   |
| ORF Size:                 | 1605 bp  |
| ORF Nucleotide Sequence:  | The ORF insert of this clone is exactly the same as(RC223864).   |
| 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_001003683.1</a> , <a href="#">NP_001003683.1</a>  |
| RefSeq Size:              | 2009 bp  |
| RefSeq ORF:               | 1608 bp  |
| Locus ID:                 | 5136   |
| UniProt ID:               | <a href="#">P54750</a>   |
| Cytogenetics:             | 2q32.1   |
| Protein Families:         | Druggable Genome   |



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|                          |  |
|--------------------------|--|
| <b>Protein Pathways:</b> | Calcium signaling pathway, Progesterone-mediated oocyte maturation, Purine metabolism, Taste transduction  |
| <b>MW:</b>               | 61.1 kDa   |
| <b>Gene Summary:</b>     | Cyclic nucleotide phosphodiesterases (PDEs) play a role in signal transduction by regulating intracellular cyclic nucleotide concentrations through hydrolysis of cAMP and/or cGMP to their respective nucleoside 5-prime monophosphates. Members of the PDE1 family, such as PDE1A, are Ca(2+)/calmodulin (see CALM1; MIM 114180)-dependent PDEs (CaM-PDEs) that are activated by calmodulin in the presence of Ca(2+) (Michibata et al., 2001 [PubMed 11342109]; Fidock et al., 2002 [PubMed 11747989]).[supplied by OMIM, Oct 2009] |