

Product datasheet for **RC205292L4V**

PDE1A (NM_005019) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	PDE1A (NM_005019) Human Tagged ORF Clone Lentiviral Particle
Symbol:	PDE1A
Synonyms:	CAM-PDE-1A; CAM-PDE 1A; HCAM-1; HCAM1; HSPDE1A
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_005019
ORF Size:	1635 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC205292).
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. More info
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:	NM_005019.3
RefSeq Size:	4918 bp
RefSeq ORF:	1638 bp
Locus ID:	5136
UniProt ID:	P54750
Cytogenetics:	2q32.1
Domains:	PDEase
Protein Families:	Druggable Genome



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Protein Pathways: Calcium signaling pathway, Progesterone-mediated oocyte maturation, Purine metabolism, Taste transduction

MW: 62.3 kDa

Gene Summary: 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]