

## Product datasheet for **RC216443L2V**

### Presenilin 1 (PSEN1) (NM\_000021) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Presenilin 1 (PSEN1) (NM_000021) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Presenilin 1
Synonyms:	ACNINV3; AD3; FAD; PS-1; PS1; S182
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_000021
ORF Size:	1401 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC216443).
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_000021.2</a>
RefSeq Size:	2763 bp
RefSeq ORF:	1404 bp
Locus ID:	5663
UniProt ID:	<a href="#">P49768</a>
Cytogenetics:	14q24.2
Domains:	Presenilin, PSN
Protein Families:	Druggable Genome, Protease, Transmembrane



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<b>Protein Pathways:</b>	Alzheimer's disease, Neurotrophin signaling pathway, Notch signaling pathway, Wnt signaling pathway
<b>MW:</b>	52.5 kDa
<b>Gene Summary:</b>	<p>Alzheimer's disease (AD) patients with an inherited form of the disease carry mutations in the presenilin proteins (PSEN1; PSEN2) or in the amyloid precursor protein (APP). These disease-linked mutations result in increased production of the longer form of amyloid-beta (main component of amyloid deposits found in AD brains). Presenilins are postulated to regulate APP processing through their effects on gamma-secretase, an enzyme that cleaves APP. Also, it is thought that the presenilins are involved in the cleavage of the Notch receptor, such that they either directly regulate gamma-secretase activity or themselves are protease enzymes. Several alternatively spliced transcript variants encoding different isoforms have been identified for this gene, the full-length nature of only some have been determined. [provided by RefSeq, Aug 2008]</p>