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Product datasheet for RC216443L2

Presenilin 1 (PSEN1) (NM_000021) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Presenilin 1 (PSEN1) (NM_000021) Human Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	Presenilin 1
Synonyms:	ACNINV3; AD3; FAD; PS-1; PS1; S182
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC216443).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf1 ORF Mlu I GCG ATC GC ATG// NNN ACG CGT



ACCN: ORF Size: NM_000021 1401 bp



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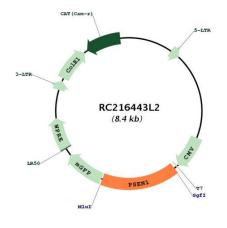
	Presenilin 1 (PSEN1) (NM_000021) Human Tagged Lenti ORF Clone – RC216443L2
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	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. <u>More info</u>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Me	 thod: 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM 000021.2</u>
RefSeq Size:	2763 bp
RefSeq ORF:	1404 bp
Locus ID:	5663
UniProt ID:	<u>P49768</u>
Cytogenetics:	14q24.2
Domains:	Presenilin, PSN
Protein Families:	Druggable Genome, Protease, Transmembrane
Protein Pathways:	Alzheimer's disease, Neurotrophin signaling pathway, Notch signaling pathway, Wnt signaling pathway
MW:	52.5 kDa

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GRIGENE Presenilin 1 (PSEN1) (NM_000021) Human Tagged Lenti ORF Clone – RC216443L2

Gene Summary: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]

Product images:



Circular map for RC216443L2

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