

Product datasheet for RC212268L4V

OriGene Technologies, Inc.

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PPP1A (PPP1CA) (NM_001008709) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type: Lentiviral Particles

Product Name: PPP1A (PPP1CA) (NM_001008709) Human Tagged ORF Clone Lentiviral Particle

Symbol: PPP1A

Synonyms: PP-1A; PP1A; PP1alpha; PPP1A

Mammalian Cell

Selection:

Puromycin

Vector: pLenti-C-mGFP-P2A-Puro (PS100093)

Tag: mGFP

ACCN: NM_001008709

ORF Size: 1023 bp

ORF Nucleotide

The ORF insert of this clone is exactly the same as(RC212268).

Sequence:

Cytogenetics:

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 001008709.1, NP 001008709.1

 RefSeq Size:
 1521 bp

 RefSeq ORF:
 1026 bp

 Locus ID:
 5499

 UniProt ID:
 P62136

Protein Families: Druggable Genome, Phosphatase

11q13.2





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Protein Pathways: Focal adhesion, Insulin signaling pathway, Long-term potentiation, Oocyte meiosis, Regulation

of actin cytoskeleton, Vascular smooth muscle contraction

MW: 38.5 kDa

Gene Summary: The protein encoded by this gene is one of the three catalytic subunits of protein

phosphatase 1 (PP1). This broadly expressed gene encodes the alpha subunit of the PP1 complex that associates with over 200 regulatory proteins to form holoenzymes which dephosphorylate their biological targets with high specificity. PP1 is a serine/threonine specific protein phosphatase known to be involved in the regulation of a variety of cellular processes, such as cell division, glycogen metabolism, muscle contractility, protein synthesis, and HIV-1 viral transcription. Increased PP1 activity has been observed in the end stage of heart failure. Studies suggest that PP1 is an important regulator of cardiac function and that PP1 deregulation is implicated in diabetes and multiple types of cancer. Three alternatively spliced transcript variants encoding different isoforms have been found for this gene.

[provided by RefSeq, Jul 2020]