

Product datasheet for **RC217023L4V**

PAPSS1 (NM_005443) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	PAPSS1 (NM_005443) Human Tagged ORF Clone Lentiviral Particle
Symbol:	PAPSS1
Synonyms:	ATPSK1; PAPSS; SK1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_005443
ORF Size:	1872 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC217023).
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_005443.4
RefSeq Size:	2558 bp
RefSeq ORF:	1875 bp
Locus ID:	9061
UniProt ID:	O43252
Cytogenetics:	4q25
Domains:	ATP-sulfurylase, APS_kinase
Protein Families:	Druggable Genome



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Protein Pathways: Metabolic pathways, Purine metabolism, Selenoamino acid metabolism, Sulfur metabolism

MW: 70.7 kDa

Gene Summary: Three-prime-phosphoadenosine 5-prime-phosphosulfate (PAPS) is the sulfate donor cosubstrate for all sulfotransferase (SULT) enzymes (Xu et al., 2000 [PubMed 10679223]). SULTs catalyze the sulfate conjugation of many endogenous and exogenous compounds, including drugs and other xenobiotics. In humans, PAPS is synthesized from adenosine 5-prime triphosphate (ATP) and inorganic sulfate by 2 isoforms, PAPSS1 and PAPSS2 (MIM 603005).[supplied by OMIM, Mar 2008]