

Product datasheet for **RC210504L4V**

Alkaline Phosphatase (ALPP) (NM_001632) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Alkaline Phosphatase (ALPP) (NM_001632) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Alkaline Phosphatase
Synonyms:	ALP; ALPI; IAP; PALP; PLAP; PLAP-1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001632
ORF Size:	1605 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC210504).
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_001632.3
RefSeq Size:	2883 bp
RefSeq ORF:	1608 bp
Locus ID:	250
UniProt ID:	P05187
Cytogenetics:	2q37.1
Domains:	alk_phosphatase
Protein Pathways:	Folate biosynthesis, Metabolic pathways



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MW: 58 kDa

Gene Summary: The protein encoded by this gene is an alkaline phosphatase, a metalloenzyme that catalyzes the hydrolysis of phosphoric acid monoesters. It belongs to a multigene family composed of four alkaline phosphatase isoenzymes. The enzyme functions as a homodimer and has a catalytic site containing one magnesium and two zinc ions, which are required for its enzymatic function. One of the main sources of this enzyme is the liver, and thus, it's one of several indicators of liver injury in different clinical conditions. In pregnant women, this protein is primarily expressed in placental and endometrial tissue, however, strong ectopic expression has been detected in ovarian adenocarcinoma, serous cystadenocarcinoma, and other ovarian cancer cells. [provided by RefSeq, Aug 2020]