

## Product datasheet for **RC212157L4V**

### Acid Phosphatase (ACP1) (NM\_001040649) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Acid Phosphatase (ACP1) (NM_001040649) Human Tagged ORF Clone Lentiviral Particle
Symbol:	ACP1
Synonyms:	HAAP; LMW-PTP; LMWPTP
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001040649
ORF Size:	336 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC212157).
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_001040649.2</a> , <a href="#">NP_001035739.1</a>
RefSeq Size:	658 bp
RefSeq ORF:	339 bp
Locus ID:	52
Cytogenetics:	2p25.3
Protein Families:	Druggable Genome, Phosphatase, Transmembrane
Protein Pathways:	Adherens junction, Riboflavin metabolism
MW:	12.2 kDa



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**Gene Summary:**

The product of this gene belongs to the phosphotyrosine protein phosphatase family of proteins. It functions as an acid phosphatase and a protein tyrosine phosphatase by hydrolyzing protein tyrosine phosphate to protein tyrosine and orthophosphate. This enzyme also hydrolyzes orthophosphoric monoesters to alcohol and orthophosphate. This gene is genetically polymorphic, and three common alleles segregating at the corresponding locus give rise to six phenotypes. Each allele appears to encode at least two electrophoretically different isozymes, Bf and Bs, which are produced in allele-specific ratios. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Aug 2008]