

Product datasheet for **RC219938L2V**

ALAS1 (NM_000688) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	ALAS1 (NM_000688) Human Tagged ORF Clone Lentiviral Particle
Symbol:	ALAS1
Synonyms:	ALAS; ALAS-H; ALAS3; ALASH; MIG4
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_000688
ORF Size:	1920 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC219938).
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_000688.4
RefSeq Size:	2407 bp
RefSeq ORF:	1923 bp
Locus ID:	211
UniProt ID:	P13196
Cytogenetics:	3p21.2
Domains:	ALA_synthase, aminotran_1_2



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Protein Pathways:	Glycine, serine and threonine metabolism, Metabolic pathways, Porphyrin and chlorophyll metabolism
MW:	70.4 kDa
Gene Summary:	This gene encodes the mitochondrial enzyme which is catalyzes the rate-limiting step in heme (iron-protoporphyrin) biosynthesis. The enzyme encoded by this gene is the housekeeping enzyme; a separate gene encodes a form of the enzyme that is specific for erythroid tissue. The level of the mature encoded protein is regulated by heme: high levels of heme down-regulate the mature enzyme in mitochondria while low heme levels up-regulate. A pseudogene of this gene is located on chromosome 12. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jan 2015]