

Product datasheet for **RC219938L3V**

ALAS1 (NM_000688) Human Tagged ORF Clone Lentiviral Particle

Product data:

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|---------------------------|--|
| 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: | Puromycin |
| Vector: | pLenti-C-Myc-DDK-P2A-Puro (PS100092) |
| Tag: | Myc-DDK |
| 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] |