

## Product datasheet for **SC201356**

### **ALAS1 (NM\_000688) Human 3' UTR Clone**

#### Product data:

Product Type:	3' UTR Clones
Product Name:	ALAS1 (NM_000688) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	ALAS1
Synonyms:	ALAS; ALAS-H; ALAS3; ALASH; MIG4
ACCN:	NM_000688
Insert Size:	177 bp
Insert Sequence:	>SC201356 3'UTR clone of NM_000688 The sequence shown below is from the reference sequence of NM_000688. The complete sequence of this clone may contain minor differences, such as SNPs. <b>Blue</b> =Stop Codon <b>Red</b> =Cloning site  GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC TTGAGCAAGTTGGTATCTGCTCAGGCC <b>TG</b> AGCATGACCTCAATTATTTCACTTAACCCAGGCCATTAT CATATCCAGATGGTCTTCAGAGTTGTCTTTATATGTGAATTAAGTTATATTAATTTTAATCTATAGTA AAAACATAGTCTGGAAATAAATTCTTGCTTAAATGGTG <b>ACGCGT</b> AAGCGGCCGCGCATCTAGATTGAAAGAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
Restriction Sites:	Sgfl-MluI
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<u><a href="#">NM_000688.6</a></u>



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**Summary:** This gene encodes the mitochondrial enzyme which 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]

**Locus ID:** 211

**MW:** 6.8