

Product datasheet for **SC302946**

ALAS2 (NM_001037968) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALAS2 (NM_001037968) Human Untagged Clone
Tag:	Tag Free
Symbol:	ALAS2
Synonyms:	ALAS-E; ALASE; ANH1; ASB; SIDBA1; XLDPP; XLEPP; XLSA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_001037968 edited
 AGGGCCCACATGCCTTGGCCCCACATACCAACCCAGGCTGCTGTGACAGCCCATGAGAGG
 GGGAGAGGTTGCTCTGGGATGGAACAAGAAAAAGAGGTTGTTTTGTGAGGACTTTAGGTT
 CAAGATGGTGACTGCAGCCATGCTGCTACAGTGTGCCAGTGTGCCCCGGGGCCCCAC
 AAGCCTCCTAGGCAAGGTGGTTAAGACTCACCAGTTCCTGTTTGGTATTGGACGCTGTCC
 CATCCTGGCTACCAAGGACCAAACTGTCTCAAATCCACCTTAAGGCAACAAAGGCTGG
 AGGAGATTCTCCATCTTGGGCGAAGGGCCACTGTCCCTTCATGCTGTCCGAACTCCAGGA
 TGGGAAGAGCAAGATTGTGCAGAAGGCAGCCCCAGAAAGTCCAGGAAGATGTGAAGGCTTT
 CAAGACAGGAAACTATGTCTTACAGTTATGACCAGTTTTTTCAGGGACAAGATCATGGAGAA
 GAAACAGGATCACACCTACCGTGTGTTCAAGACTGTGAACCGCTGGGCTGATGCATATCC
 CTTTGCCCAACATTTCTCTGAGGCATCTGTGGCCTCAAAGGATGTGTCCGTCTGGTGTAG
 TAATGATTACCTGGGCATGAGCCGACACCCTCAGGTCTTGCAAGCCACACAGGAGACCCT
 GCAGCGTCATGGTGTGGAGCTGGTGGCACCCGCAACATCTCAGGCACCAGTAAGTTTCA
 TGTGGAGCTTGAGCAGGAGCTGGCTGAGCTGCACCAGAAGGACTCAGCCCTGCTCTTCTC
 CTCTGCTTTGTTGCCAATGACTCTACTCTTTCACCTTGCCCAAGATCCTGCCAGGGTG
 CGAGATTTACTCAGACGCAGGCAACCATGCTTCCATGATCCAAGGTATCCGTAACAGTGG
 AGCAGCCAAGTTTGTCTTCAGGCACAATGACCCTGACCACCTAAAAGAACTTCTAGAGAA
 GTCTAACCCCTAAGATACCCAAAATTGTGGCCTTTGAGACTGTCCACTCCATGGATGGTGC
 CATCTGTCCCCTCGAGGAGTTGTGTGATGTGTCCCACCAGTATGGGGCCCTGACCTTCGT
 GGATGAGGTCCATGCTGTAGGACTGTATGGGTCCCAGGCGCTGGGATTGGGGAGCGTGA
 TGGAATTATGCATAAGATTGACATCATCTGGAACCTTTGGCAAGGCCTTTGGCTGTGT
 GGGCGGCTACATTGCCAGCACCCGTGACTTGGTGGACATGGTGGCTCCTATGCTGCAGG
 CTTTACCTTTACCATTCTCTGCCCCCATGGTGTCTCTGGAGCTCTAGAATCTGTGCG
 GCTGCTCAAGGGAGAGGAGGGCCAAAGCCCTGAGGCGAGCCACCAGCGCAATGTCAAGCA
 CATGCGCCAGCTACTCATGGACAGGGCCCTTCTGTATCCCCTGCCCCAGCCACATCAT
 CCCCATCCGGGTGGGCAATGCAGCACTCAACAGCAAGCTCTGTGATCTCCTGCTCTCAA
 GCATGGCATCTATGTGCAGGCCATCAACTACCAACTGTCCCCGGGGTGAAGAGCTCCT
 GCGCTTGGCACCCCTCCCCCACCACAGCCCTCAGATGATGGAAGATTTTGTGGAGAAGCT
 GCTGCTGGCTTGGACTGCGGTGGGGCTGCCCTCCAGGATGTGTCTGTGGCTGCCTGCAA
 TTTCTGTGCGCTCCTGTACACTTTGAGCTCATGAGTGTGGGAAACGTTCTACTTCGG
 GAACATGGGGCCCAAGTATGTCACCACCTATGCCTGAGAAGCCAGCTGCCTAGGATTCAC
 ACCCCACCTGCGCTTCACTTGGGTCCAGGCCTACTCCTGTCTTCTGCTTTGTTGTGTGCC
 TCTAGCTGAATTGAGCCTAAAAATAAAGCACAAACCACAACAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_001037968
- Insert Size:** 2000 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001037968.1 , NP_001033057.1
RefSeq Size:	1937 bp
RefSeq ORF:	1725 bp
Locus ID:	212
UniProt ID:	P22557
Cytogenetics:	Xp11.21
Protein Families:	Druggable Genome
Protein Pathways:	Glycine, serine and threonine metabolism, Metabolic pathways, Porphyrin and chlorophyll metabolism
Gene Summary:	<p>The product of this gene specifies an erythroid-specific mitochondrially located enzyme. The encoded protein catalyzes the first step in the heme biosynthetic pathway. Defects in this gene cause X-linked pyridoxine-responsive sideroblastic anemia. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR, has an additional 5' exon resulting in an alternate start codon, and lacks an alternate in-frame exon in the 5' coding region, compared to variant 1. The resulting isoform (c) is shorter but has a longer and distinct N-terminus, compared to isoform a.</p>