

## Product datasheet for **SC108952**

### ASAH1 (NM\_004315) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ASAH1 (NM_004315) Human Untagged Clone
Tag:	Tag Free
Symbol:	ASAH1
Synonyms:	AC; ACDase; ASAH; PHP; PHP32; SMAPME
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004315, the custom clone sequence may differ by one or more nucleotides

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ATGAAGTCTGCATCGGGCTGGGAGAGAAAGCTCGCGGGTCCCACCGGGCCTCTACCCAAGTCTCAGCG  
CGCTTTTCACCGAGGCCTCAATTCTGGGATTTGGCAGCTTTGCTGTGAAAGCCCAATGGACAGAGGACTG  
CAGAAAAACAACCTATCCTCCTCAGGACCAACGTACAGAGGTGCAGTTCATGGTACACCATAAATCTT  
GACTTACCACCCTACAAAAGATGGCATGAATTGATGCTTGACAAGGCACCAGTGTAAAGTTATAGTGA  
ATTCTCTGAAGAATATGATAAATACATTCGTGCCAAGTGGAAAAATTATGCAGGTGGTGGATGAAAAATT  
GCCTGGCCTACTTGGCACTTTCTGGCCCTTTGAAGAGGAAAATGAAGGGTATTGCCGCTGTTACTGAT  
ATACCTTTAGGAGAGATTATTCATTCAATATTTTTATGAATTATTTACCATTTGACTTCAATAGTAG  
CAGAAGACAAAAAGGTCATCTAATACATGGGAGAAACATGGATTTGGAGTATTTCTGGGTGGACAT  
AAATAATGATACCTGGTCATAACTGAGCAACTAAAACCTTTAACAGTGAATTTGGATTTCCAAAGAAAC  
AACAAAAGTGTCTTCAAGGCTTCAAGCTTTGCTGGCTATGTGGGCATGTTAACAGGATTCAAACCAGGAC  
TGTTTCAGTCTTACACTGAATGAACGTTTCAGTATAAATGGTGGTTATCTGGGTATCTAGAATGGATTCT  
GGGAAAGAAAGATGTCATGTGGTAGGGTTCCTCACTAGAACAGTTCTGGAAAATAGCACAAGTTATGAA  
GAAGCCAAGAATTTATTGACCAAGACCAAGATATTGGCCCCAGCCTACTTTATCTGGGAGGCAACCAGT  
CTGGGGAAAGTTGTGATTACACGAGACAGAAAGGAATCATTGGATGTATGAACTCGATGCTAAGCA  
GGGTAGATGGTATGTGGTACAAACAAATTATGACCGTTGGAACATCCCTTCTTCTTGTGATGATGCGCAGA  
AGCCTGCAAAAGATGTGTCTGAACCGCACCCAGCCAAGAGAATATCTCATTGAAAACCATGTATGATGTC  
TGCAACAAAACCTGTCTCAACAAAGCTGACCGTATACACAACCTTGATAGATGTTACCAAGGTCAATT  
CGAAACTTACCTGCGGGACTGCCCTGACCTTGTATAGGTTGGTGA
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_004315 unedited  
 ATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCACGGATGGCAC  
 GAAAGCCAAGCGAGTCCCCTGCCGAGCTACTCGCGTCCGCTCCTCCCAAGCTGAGCTC  
 TGCTCCGCCACCTGAGTCTTCGCCAGTTAGGAGGAAACACAGCCGCTTAATGAACTGC  
 TGCATCGGGCTGGGAGAGAAAGCTCGCGGGTCCCACCGGGCTCCTACCCAAGTCTCAGC  
 GCGCTTTTACCAGAGGCCTCAATTCTGGGATTTGGCAGCTTTGCTGTGAAAGCCCAATGG  
 ACAGAGGACTGCAGAAAATCAACCTATCCTCCTTCAGGACCAACGTACAGAGGTGCAGTT  
 CCATGGTACACCATAAATCTTGACTTACCACCCTACAAAAGATGGCATGAATTGATGCTT  
 GACAAGGCACCAATGCTAAAGGTTATAGTGAATTCTCTGAAGAATATGATAAATACATTC  
 GTGCCAAGTGAAAAGTTATGCAGGTGGTGGATGAAAAATTGCCTGGCCTACTTGGCAAC  
 TTTCTGGCCCTTTGAAGAGGAAATGAAGGGTATTGCCGCTGTTACTGATATACCTTTA  
 GGAGAGATTATTTCAATCAATATTTTTATGAATTATTTACCATTTTGTACTTCAATAGT  
 AGCAGAAGAAAAAAGGTCATCTAATACATGGGAGAAACATGGNATTTGGAGTATTTCTT  
 GGGTGGACATANATAATGATACCCTGNGTCATAACTGAGCAAATAAACCTTTACAGTG  
 AATNTGGATTNCAAAAGAAACACANNACTGTCTCAGGCTTCAAGCTTTGCTGCTATGNGG  
 GCATGTTACAGGATTTCAACAGACTGTTCAAGTCTAACTGAATGAAA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_004315 unedited  
 GCTCTTGCTGTCTGTTTCTGAGTTGTCAGGGAACACAACCTGTGCATTATACAAAATGAA  
 GTGGACAAACGGTCTTGACAAAATGACGTACATTTACAGTTAATCGTGAAGTTAGAAA  
 GGTTAACAAAGTTCTATTAGTACTTTTCATAAGCAGTTGAGATTTCTAGAAAAATACAGTA  
 ACATAATTTTAGTAACTACTAAAATTTCTTTAAAACCTCCCTATCAATCTGAAGAACAAC  
 TAAAAACCTGTTTATTACATGAATGCTACTTATGAGAATTTAAAATATGGGTTCACTTCC  
 TATTTTCCACAAGTCTTTGACTTGTATTTACTAAATTAACAGAACGTGGGATGCAGTT  
 TTTTAAGTTAGCAACTTCTTAGGGTACTGGGAAGTAGAGTAATTATGAAAAAGGGAAC  
 ACTTCAATTATTGTATAAAAAGATTGCTTTGCATACTGATTACTTCTTGAACCCCAAAAAG  
 TGCTATTTAGAGGCAAGGGCCATTTTGTGCCATTAAAAGAAATATACAGGTGAATGTC  
 TGTCTCATCCCTTAATCATATGTAATAAAATTAATCGCTGTCAATAACAGCAAAGATA  
 ATGATATATTAATTTAACAGCAGTTAGAACCAGAAGGAAAAGGCTGTTATACAGAAAAA  
 CATACAAATATGTAAGTAGAAGTGAAAAACCTGAAGAATGTGGAGTGTACTGTCCCGTT  
 ACTCACAGACGTGCTGGATTCAACACCCACGCTGAAATCTCATTATTTCCACGGGAGT  
 GGAGTTACCATGGTTCGACTGCCACCANATTCCCAATGTCAAAGTAAACAAAACTC  
 AGTGAATTCTAAATGACTGTTTTACTTCCCTAAAGAAGTTATCTGGTAATTAGAAAAA  
 TCACTGATAGGGGGGAAAAAAAAGTA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_004315

**Insert Size:**

2500 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).

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_004315.2</a> , <a href="#">NP_004306.2</a>
<b>RefSeq Size:</b>	2503 bp
<b>RefSeq ORF:</b>	1236 bp
<b>Locus ID:</b>	427
<b>UniProt ID:</b>	<a href="#">Q13510</a>
<b>Cytogenetics:</b>	8p22
<b>Domains:</b>	CBAH
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Lysosome, Metabolic pathways, Sphingolipid metabolism
<b>Gene Summary:</b>	<p>This gene encodes a member of the acid ceramidase family of proteins. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed. Processing of this preproprotein generates alpha and beta subunits that heterodimerize to form the mature lysosomal enzyme, which catalyzes the degradation of ceramide into sphingosine and free fatty acid. This enzyme is overexpressed in multiple human cancers and may play a role in cancer progression. Mutations in this gene are associated with the lysosomal storage disorder, Farber lipogranulomatosis, and a neuromuscular disorder, spinal muscular atrophy with progressive myoclonic epilepsy. [provided by RefSeq, Oct 2015]</p> <p>Transcript Variant: This variant (2) encodes the longest isoform (b).</p>