

Product datasheet for **SC102632**

ASAH1 (AK025211) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ASAH1 (AK025211) 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 AK025211, the custom clone sequence may differ by one or more nucleotides

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ATGTTGATAAACATTTTGGATGTGATGTTGGAGAACAATTGCAACCTGCCAGATGTTTCAGCTCGCCCGA
AGGCTGCCTCCTTGGTGACTTGTTCATCTTGAGTCTAGAGAGTCCAGGCTGGGAAGAAAACCACTCC
AGCCGGCCGTTCCAGCACAGCCCACTGGCCAAAGCACACTCACACAATGAAAACACTGAAACTTTTT
CTTAAACAAATTTTTCTCCATTGTGTCATGTTCTGTATATTAACACAAAATTTCTTTTTCATAGGAG
AGATTATTTCAATATTTTTATGAATTTTACCATTTGACTTCAATAGTAGCAGAAGACAAAAA
AGGTAATTGTGCGCTGAGGGAGGGTGGCAGCATGAAGCACTACATAAAGAAAAATCTTCTAATGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for AK025211 unedited AGGTTTCAGATTAGGNATACCATCATATAGGCGGCCGCGNAATTCGGCACGAGGAAAGTTT TATCTTTAAGCTAGCAAAGCAGTAGTGTCAATATTTTAAATAGCCAACAGTACCTTCATT TTATGAGATGATTGAGAAATTTGTGAAAATCAGTAGTATTTATCAACAAAAGTGGCTAGTT TTGTGTGCTGCTCTTTAAAAAATCATTAAAAGATAGCATACTGGAATATGTAAGTCTG CTGCCTTTATGGAAAGCAAGTCTAATTCCTTTATTATGTAAGAACTCTAGCAACTCAAT ACCAAATAGAAAACCTTATGGATTAAGAAGAATAACATGATGTATAAGTGGTGTAAATT TATATAATTATTATAAATTATTATAAATGTATAATAAAATAACTAGAATTCACCAAATT AGAAAATTAATGGAAATAAAATACACATTGGATTTGGGTGAAAAAACATGTTGAGCTTA ACATGTTAATGTTAAATGGGACAGAAAACAATGTGCTGCCTACTTTTGAATTAATGCT AAATAGCAGTATTATACATTTTGGGAAAATATTCAAAAAATAAAATACCCTAGAATGGAG TTTCTTGGCAGCTCTGTACTAATTTAATAGTCTTGAATCTCCTTTTTCACCTTAGAAA TTTTAGTCACACTTTAAAAATCTGGGCAAAATGTATGTCCAGCAAACAGCCAAGAGCCAG ATGTATTAATGATCATATTTACCCTCCAAAAGAAAATTTAAAATGGAAGCCTGTTGAT AAACATTTTGCATGTGATGTTTGGAAACCAATTGCAACCTGGCCAGATGTTTAACTTC GCCCGCAAGCTGCCCTCCTTGTGGACTGTTTCATTTTAGATCTAAAAGCCAGCCTGT GGAAAGAAAACACCTCCACCCGGCC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for AK025211 unedited CTTGCCCGCGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGGATGGAGTCTG GCTCTGTATCCCAAGCTGCAGTGCAGTGGCGGATCTCGGCTCACTGCAACCTCCGCCTC GCAGGTTCAAAAAGTCTCTGCCTCAGGCTCCCAAGTAGCCGGGATTACAGATGCCACC ACCATGCCTGGCTAATTTTTATGTTTTTAGTAGAGACGGGGTTTACCATCTTGGCCAGG CTGGTCTTGAACCTCTGACCTCGTGATCCACCCGTGCAGCTCCAAAAGCTGGGATT ACAGGCGTGAACCACCATGCCTGACCCTTTGTTCTTTACTTACCAAGAAATACTCCAAA ATCCATGTTTCTCCCATGTATTAGATGACCTATTTGAAGGTAGACAGAAGAGACGTGAA TAGCAGTTAAGATTCTAAATCAAAGCTGGACAATTAGTTTTGATTAATTTATTTATTTT GAGACAGAGTCTCGTTCTGTTGGCCAGACTGGAGTGCAGTGGTGGCATCTCAGCTCACTG CGACCTCTGCCTCCAGGTTCAAGCAATCTTGTGCCTCAGCCTCCACGTAGTTGGGAT TACAGACATGTGCGACCCGACCTGGCTACTTTTTTTTTTTTTTTTTTGTATTTTCTTTTAGT AGAGAAGGGGTTTTACCATGTTGGCCAGTCTGGTGTCAAACCTCCCAACCTCAGATGATTC GCCCCCTCGGCCTCGCAAAGTGTGGCATTACAGGTGTAAGCCACTGTGCCTGGCCCTC TAATTTGATTAATTTTATTCAAACCTGTTTCTTCAAACCATAGAGTNAGAACATNCTATAT CCTAAGCTTCACANAGGGACTGTTGCACCATCTTCTGCAGATAACCACAAATCTGAAACC GGGTTTCCAGTAGATCAATATTGGAAAGGATCATGGCATGGTTGGTCTATCCCG</p>
Restriction Sites:	NotI-NotI
ACCN:	AK025211
Insert Size:	2590 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).

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:	AK025211.1 , BAB15085.1
RefSeq Size:	1774 bp
RefSeq ORF:	417 bp
Locus ID:	427
Cytogenetics:	8p22
Protein Families:	Druggable Genome
Protein Pathways:	Lysosome, Metabolic pathways, Sphingolipid metabolism
Gene Summary:	<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>