

Product datasheet for **SC126563**

ASAH1 (NM_177924) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ASAH1 (NM_177924) 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:	>OriGene ORF within SC126563 sequence for NM_177924 edited (data generated by NextGen Sequencing)

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ATGCCGGCCGGAGTTGCGTCGCTTGTGCTCCTGCTGCTGCCCGCTCAGCTGTGCCGTC
GCGCAGCACGCGCCGCTGGACAGAGGACTGCAGAAAATCAACCTATCCTCCTCAGGA
CCAACGTACAGAGGTGCGTTCATGGTACACCATAAATCTTGACTTACCACCCTACAAA
AGATGGCATGAATTGATGCTTGACAAGGCACCAATGCTAAAGGTTATAGTGAATTCTCTG
AAGAATATGATAAATACATTCGTGCCAAGTGAAAAAGTTATGCAGGTGGTGGATGAAAAA
TTGCTGGCCTACTTGGCAACTTCTGGCCCTTTTGAAGAGGAAATGAAGGGTATTGCC
GCTGTTACTGATACCTTTAGGAGAGATTATTCATTCAATATTTTTTATGAATTATTT
ACCATTTGTACTTCAATAGTAGCAGAAGACAAAAAAGGTCATCTAATACATGGGAGAAAC
ATGGATTTTGGAGTATTTCTTGGGTGGAACATAAATAATGATACCTGGGTGATAACTGAG
CAACTAAAACCTTTAACAGTGAATTTGGATTTCCAAAGAAACAACAAAACCTGTCTCAAG
GCTTCAAGCTTTGCTGGCTATGTGGCATGTTAACAGGATTCAAACAGGACTGTTCAAGT
CTTACACTGAATGAACGTTTCAGTATAAATGGTGGTTATCTGGGTATTCTAGAATGGATT
CTGGGAAAGAAAGATGCCATGTGGATAGGGTTCCTCACTAGAACAGTTCTGGAAAATAGC
ACAAGTTATGAAGAAGCCAAGAATTTATTGACCAAGACCAAGATATTGGCCCCAGCCTAC
TTTATCCTGGGAGGCAACCAGTCTGGGGAAGGTTGTGTGATTACACGAGACAGAAAGGAA
TCATTGGATGTATGAACCTCGATGCTAAGCAGGTTAGATGGTATGTGGTACAAACAAAT
TATGACCGTTGGAAACATCCCTTCTTCTTGGATGATCGCAGAACGCTGCAAAGATGTGT
CTGAACCGCACCCAGCCAAGAGAATATCTCATTGAAACCATGTATGATGTCCTGTCAACA
AAACCTGTCCTCAACAAGCTGACCGTATACACAACCTTGATAGATGTTACCAAAGGTCAA
TTCGAACTTACTGCGGGACTGCCCTGACCCTTGATAGGTTGGTGA

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Clone variation with respect to NM_177924.3
214 g=>a;277 a=>g;737 t=>c



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_177924 unedited CAGTAATTTGTAATACGACTCACTTATAGGGCGGCCGGAATTCGCACGAGGCGGGGAGT GGCGTTGGCTGCTAGAGCGATGCCGGGCCGGAGTTGCGTCGCCTTAGTCCTCGGCTGC CGCCGTCAGCTGTGCCGTCGCGCAGCACGCGCCGCCGTGGACAGAGGACTGCAGAAAATC AACCTATCCTCCTCAGGACCAACGTACAGAGGTGCAGTCCATGGTACACCATAAATCT TGACTTACCACCCTACAAAAGATGGCATGAATTGATGCTTGACAAGGCACCAATGCTAAA GGTTATAGTGAATTCCTGAAGAATATGATAAATACATTGCGCAAGTGAAAAGTTAT GCAGGTGGTGGATGAAAATTGCCTGGCCTACTTGGCAACTTTCCTGGCCCTTTTGAAGA GGAAATGAAGGGTATTGCCGCTGTACTGATATACCTTTAGGAGAGATTATTTCAATCAA TATTTTTTATGAATTATTTACCATTTGACTTCAATAGTAGCAGAAGACAAAAAGGTCA TCTAATACATGGGAGAAACATGGATTTTGGAGTATTTCTTGGGTGGAACATAAATAATGA TACCTGNGTCATAACTGAGCAACTAAAACCTTTAACAGTGAATTTGGATTTCCAAAGAAA CAACAAAAGTGTCTTCAAGGCTTCAAGCTNTGCTGGCTATGTGGGCATGTTAACAGGATT CANACCAGGACTTTCAGTCTTACTGAATGAACGTTTCAGTATAAATGGTGGTTATCT GGGTATTCTAGAATGGATTCTGGGAAGAAAGATGCCATGTGGATAGGGTTCCTCACTAC ACAGTTCTGAAAATAGCACAGTTATGAAGAGCCAAGAATTATTGACCAAGACAAGATATT GGCCAGCCTACTTATCCTGTGAGCACCAGTCTGGGAAGGNTGTGTGATACCGAGACGAG
Restriction Sites:	NotI-NotI
ACCN:	NM_177924
Insert Size:	2260 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:	NM_177924.1 , NP_808592.1
RefSeq Size:	2341 bp
RefSeq ORF:	1188 bp
Locus ID:	427
UniProt ID:	Q13510
Cytogenetics:	8p22
Protein Families:	Druggable Genome
Protein Pathways:	Lysosome, Metabolic pathways, Sphingolipid metabolism

Gene Summary:

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]

Transcript Variant: This variant (1) differs in the 5' UTR and coding sequence compared to variant 2. The resulting isoform (a) includes a predicted signal peptide, is shorter and has a distinct N-terminus compared to isoform b.