

## Product datasheet for SC323014

### ASAH1 (NM\_001127505) Human Untagged Clone

#### Product data:

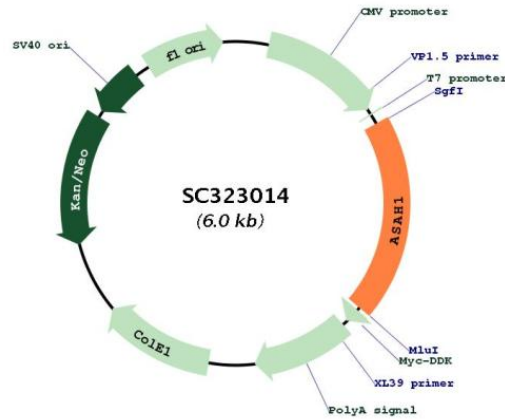
Product Type:	Expression Plasmids
Product Name:	ASAH1 (NM_001127505) Human Untagged Clone
Tag:	Tag Free
Symbol:	ASAH1
Synonyms:	AC; ACDase; ASAH; PHP; PHP32; SMAPME
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC323014 representing NM_001127505. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGAAGTCTGCATCGGGCTGGGAGAGAAAGCTCGCGGGTCCCACCGGGCCTCCTACCCAAGTCTCAGC
GCGCTTTTACCGAGGCCTCAATTCTGGGATTTGGCAGCTTTGCTGTGAAAGCCCAATGGACAGAGGAC
TGCAGAAAATCAACCTATCCTCCTTCAGGACCAACTGTCTTCCCTGCTGTATAAGGTACAGAGGTGCA
GTTCCATGGTACACCATAAATCTTGACTTACCACCCTACAAAAGATGGCATGAATTGATGCTTGACAAG
GCACCAGTGCCTGGCCTACTTGGCAACTTTCCTGGCCCTTTTGAAGAGGAAATGAAGGGTATTGCCGCT
GTTACTGATATACCTTTAGGAGAGATTATTTCAATATTTTTTATGAATTATTTACCATTTGACT
TCAATAGTAGCAGAAGACAAAAAGGTCACTAATACATGGGAGAAACATGGATTTTGGAGTATTTCTT
GGTGGAACATAAATAATGATACCTGGGTCAACTGAGCAACTAAAACCTTTAACAGTGAATTTGGAT
TTCCAAAGAAACAACAAAAGTCTTCAAGGCTTCAAGCTTTGCTGGCTATGTGGGCATGTTAACAGGA
TTCAAACAGGACTGTTCACTTACACTGAATGAACGTTTCAAGTATAAATGGTGGTTATCTGGGTATT
CTAGAATGGATTCTGGGAAAGAAAGATGTCATGTGGATAGGGTTCCTCACTAGAACAGTTCTGGAAAAT
AGCACAAGTTATGAAGAAGCCAAGAATTTATTGACCAAGACCAAGATATTGGCCCCAGCCTACTTTATC
CTGGGAGGCAACCAGTCTGGGAAAGTTGTGTGATTACACGAGACAGAAAGGAATCATTGGATGTATAT
GAATCGATGCTAAGCAGGGTAGATGGTATGGGTACAAAATAATGACCGTTGGAAACATCCCTTC
TTCTTGATGATCGCAGAACGCTGCAAAGATGTGTCTGAACCGCACCAGCCAAGAGAATATCTCATTT
GAAACCATGTATGATGCTGTCAACAAAACCTGTCTCAACAAGCTGACCGTATACACAACCTTGATA
GATGTTACCAAAGGTCAATTCGAAACTTACCTGCGGGACTGCCCTGACCTTGTATAGGTTGGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
```

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001127505

**Insert Size:** 1170 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:**

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\\_001127505.2](#)

**RefSeq Size:** 2602 bp

**RefSeq ORF:** 1170 bp

**Locus ID:** 427

**UniProt ID:** [Q13510](#)

<b>Cytogenetics:</b>	8p22
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Lysosome, Metabolic pathways, Sphingolipid metabolism
<b>MW:</b>	44 kDa
<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 (3) contains an alternate in-frame exon and lacks another alternate in-frame exon compared to variant 2. The resulting isoform (c) has the same N- and C-termini but is shorter compared to isoform b.</p>