

Product datasheet for RC225593

ASAH1 (NM_001127505) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ASAH1 (NM_001127505) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ASAH1
Synonyms: AC; ACDase; ASAH; PHP; PHP32; SMAPME
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC225593 representing NM_001127505
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGTCTGCATCGGGCTGGGAGAGAAAGCTCGCGGTCCCACGGGCCTCTACCCAAGTCTCAGCG
 CGCTTTTCACCGAGGCCTCAATTCTGGGATTTGGCAGCTTTGCTGTGAAAGCCCAATGGACAGAGGACTG
 CAGAAAATCAACCTATCCTCCTCAGGACCAACTGTCTTCCCTGCTGTTATAAGGTACAGAGGTGCAGTT
 CCATGGTACACCATAAATCTTGACTTACCACCCTACAAAAGATGGCATGAATTGATGCTTGACAAGGCAC
 CAGTGCCTGGCCTACTTGGCACTTTCTGGCCCTTTTGAAGAGGAAATGAAGGGTATTGCCGCTGTTAC
 TGATATACCTTTAGGAGAGATTATTTCAATATTTTTATGAATTATTTACCATTTGTACTTCAATA
 GTAGCAGAAGACAAAAAGGTCACTAATACATGGGAGAAACATGGATTTTGGAGTATTTCTGGGTGGA
 ACATAAATAATGATACCTGGGTCACTAAGCAACTAAAACCTTAAACAGTGAATTTGGATTTCCAAAG
 AAACAACAAAAGTCTTCAAGGCTTCAAGCTTTGCTGGCTATGTGGGCATGTTAACAGGATTCAAACCA
 GGACTGTTTCAGTCTTACACTGAATGAACGTTTCAAGTATAAATGGTGGTTATCTGGGTATTCTAGAATGGA
 TTCTGGGAAAGAAAGATGTCATGTGGATAGGGTTCCTCACTAGAACAGTTCTGGAAAATAGCACAAAGTTA
 TGAAGAAGCCAAGAATTTATTGACCAAGACCAAGATATTGGCCCCAGCCTACTTTATCCTGGGAGGCAAC
 CAGTCTGGGGAAGTTGTGTGATTACACGAGACAGAAAGGAATCATTGGATGTATATGAAGTCACTGCTA
 AGCAGGGTAGATGGTATGTGGTACAAACAAATATGACCGTTGGAAACATCCCTTCTTCTTGATGATCG
 CAGAACGCTGCAAAGATGTGTCTGAACCCGACCAAGAGAATATCTCATTTGAAACCATGTATGAT
 GTCCTGTCAACAAAACCTGTCCTCAACAAGCTGACCGTATACACAACCTTGATAGATGTTACCAAAGGTC
 AATTCGAAACTTACCTGCGGGACTGCCCTGACCCTGTATAGGTTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC225593 representing NM_001127505
Red=Cloning site Green=Tags(s)

MNCCIGLGEKARGSHRASYPSSALSALFTEASILGFGSFAVKAQWTEDCRKSTYPPSGPTVFPVAVIRYRGAV
 PWYTINLDLPPYKRWHELMMLDKAPVPGLLGNFPGPFEEEMKGGIAAVTDIPLGEIISFNIFYELFTICTSI
 VAEDKKGHLIHRNMDFGVFLGWNINNDTWITEQLKPLTVNLDQQRNKTQVFKASSFAGYVGMGTGFKP
 GLFSLTLNERFSINGGYLGILEWILGKKDVMWIGFLTRTVLENSTSYEEAKNLLTKTKILAPAYFILGGN
 QSGEGCVITRDRKESLDVYELDAKQGRWYVVTNYDRWKHPFFLDLDRRTPAKMCLNRTSQENISFETMYD
 VLSTKPVLNKLTVYTTLIDVTKGQFETYLRDCPDPCIGW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8056_e07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001127505

ORF Size: 1167 bp

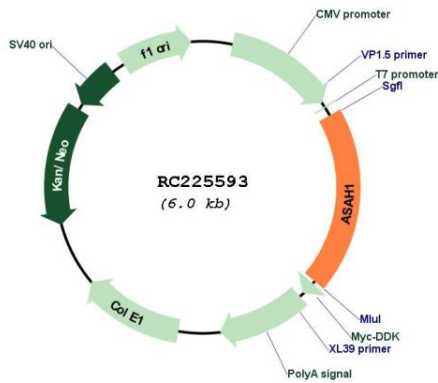
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

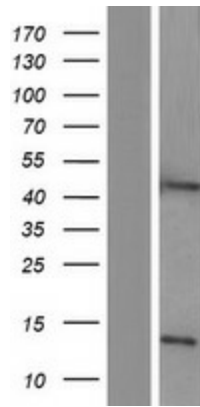
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_001127505.3
RefSeq ORF:	1170 bp
Locus ID:	427
UniProt ID:	Q13510
Cytogenetics:	8p22
Protein Families:	Druggable Genome
Protein Pathways:	Lysosome, Metabolic pathways, Sphingolipid metabolism
MW:	43.9 kDa
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>

Product images:



Circular map for RC225593



Western blot validation of overexpression lysate (Cat# [LY426805]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225593 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).