

Product datasheet for **RG212434**

ASAH1 (NM_004315) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ASAH1 (NM_004315) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ASAH1
Synonyms:	AC; ACDase; ASAH; PHP; PHP32; SMAPME
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212434 representing NM_004315 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGTCTGCATCGGGCTGGGAGAGAAAGCTCGCGGTCCCACGGGCCTCTACCAAGTCTCAGCG
CGCTTTTCACCGAGGCCTCAATTCTGGGATTTGGCAGCTTTGCTGTGAAAGCCCAATGGACAGAGGACTG
CAGAAAATCAACCTATCCTCCTCAGGACCAACGTACAGAGGTGCAGTTCATGGTACACCATAAATCTT
GACTTACCACCCTACAAAAGATGGCATGAATTGATGCTTGACAAGGCACCAATGCTAAAGTTATAGTGA
ATTCTCTGAAGAATATGATAAAATACATTCGTGCCAAGTGGAAAAGTTATGCAGGTGGTGGATGAAAAATT
GCCTGGCCTACTTGGCACTTTCTGGCCCTTTTGAAGAGGAAATGAAGGGTATTGCCGCTGTTACTGAT
ATACCTTTAGGAGAGATTATTTCAATATTTTTTATGAATTTTACCATTTGACTTCAATAGTAG
CAGAAGACAAAAAGTCACTAATACATGGGAGAAACATGGATTTTGGAGTATTTCTGGGTGGAACAT
AAATAATGATACCTGGTCACTGAGCACTAAAACCTTTAACAGTGAATTTGGATTTCCAAAGAAAC
AACAAAAGTGTCTTCAAGGCTTCAAGCTTTGCTGGCTATGTGGCATGTTAACAGGATTCAAACCAGGAC
TGTTCACTTACTGAATGAACGTTTCAGTATAAATGGTGGTATCTGGGTATCTAGAATGGATTCT
GGGAAAGAAAGATGCCATGTGGATAGGGTTCCTCACTAGAACAGTCTGGAAAATAGCACAAAGTTATGAA
GAAGCCAAGAATTTATTGACCAAGACCAAGATATTGGCCCAAGCCTACTTTATCCTGGGAGCAACCAGT
CTGGGGAAGTTGTGATTACACGAGACAGAAAGGAATCATTGGATGTATGAACCTCGATGCTAAGCA
GGGTAGATGGTATGTGGTACAAACAAATATGACCGTTGGAAACATCCCTTCTCCTTGATGATCGCAGA
ACGCTGCAAAGATGTGTCTGAACCGCACCAGCCAAGAGAATATCTCATTGAAACCATGTATGATGTCC
TGTCAACAAAACCTGTCTCAACAAGCTGACCGTATACACAACCTTGATAGATGTTACCAAAGGTCAATT
CGAAACTTACCTGCGGGACTGCCTGACCTTGTATAGGTTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG212434 representing NM_004315
 Red=Cloning site Green=Tags(s)

MNCCIGLGEKARGSHRASYPSSLALSALFTEASILGFGSFAVKAQWTEDCRKSTYPPSGPTYRGAVPWYTINL
 DLPPYKRWHELMMLDKAPMLKVIIVNSLKNMINTFVPSGKVMQVVDEKLPGLLGNFPGPFEEMKGIAAVTD
 IPLGEIISFNIFYELFTICTSIVAEDKKGHLIHGRNMDFGVFLGWNINNDTWVITEQLKPLTVNLDFQRN
 NKTVFKASSFAGYVVGMLTGFKPGLFSLTLNERFSINGGYLGILEWILGKKDAMWIGFLTRTVLENSTSYE
 EAKNLLTKTKILAPAYFILGGNQSGEGCVITRDRKESLDVYELDAKQGRWYVYVQTNVDRWKHPFFLDDRR
 TPAKMCLNRTSQENISFETMYDVLSTKPVLNKLTVYTTLIDVTKGQFETYLRDCPDPCIGW

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004315

ORF Size: 1233 bp

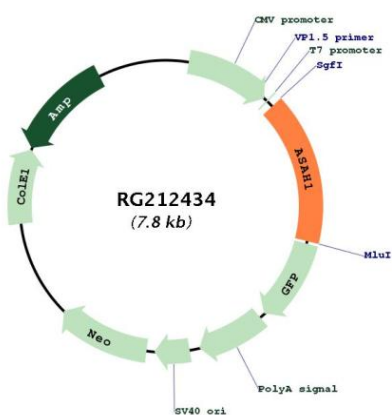
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_004315.3
RefSeq Size:	2503 bp
RefSeq ORF:	1236 bp
Locus ID:	427
UniProt ID:	Q13510
Cytogenetics:	8p22
Domains:	CBAH
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>

Product images:



Circular map for RG212434