

Product datasheet for **RG202135**

ASAH1 (NM_177924) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ASAH1 (NM_177924) 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:	>RG202135 representing NM_177924 Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GGCGGCC**

ATGCCGGGCCGGAGTTGCGTGCCTTAGTCCTCCTGGCTGCCGCCGTCAGCTGTGCCGTCGCGCAGCAGC
CGCCGCCGTGGACAGAGGACTGCAGAAATCAACCTATCCTCCTCAGGACCAACGTACAGAGGTGCAGT
TCCATGGTACACCATAAATCTTGACTTACCACCCTACAAAAGATGGCATGAATTGATGCTTGACAAGGCA
CCAATGCTAAAGTTATAGTGAATCTCTGAAGAATATGATAAATACATTCGTGCCAAGTGAAAAGTTA
TGCAGGTGGTGGATGAAAATTGCCTGGCCTACTTGGCAACTTTCCTGGCCCTTTGAAGAGGAAATGAA
GGGTATTGCCGCTGTTACTGATATACCTTTAGGAGAGATTATTTCAATCAATTTTTATGAATTTT
ACCATTTGTACTTCAATAGTAGCAGAAGACAAAAAGGTCATCTAATACATGGGAGAAAACATGGATTTT
GAGTATTTCTGGGTGGAACATAAATAATGATACCTGGGTCACTGAGCAACTAAAACCTTTAACAGT
GAATTTGGATTTCAAAGAAACAACAAACTGTCTTCAAGGCTTCAAGCTTTGCTGGCTATGTGGGCATG
TTAACAGGATTCAAACCAGGACTGTTCACTTCACTGAATGAACGTTTCAAGTATAAATGGTGGTTATC
TGGGTATTCTAGAATGGATTCTGGGAAAGAAAGATGCCATGTGGATAGGGTTCCTACTAGAACAGTTCT
GGAAAAAGCACAAAGTTATGAAGAAGCCAAGAATTTATGACCAAGACCAAGATATTGGCCCCAGCCTAC
TTATCCTGGGAGCAACCAGTCTGGGAAAGTTGTGTGATTACACGAGACAGAAAGGAATCATTGGATG
TATATGAACTCGATGCTAAGCAGGTAGATGGTATGTGGTACAAACAAATTATGACCGTTGGAAACATCC
CTTCTCCTTGATGATCGCAGAACGCTGCAAAGATGTGTCTGAACCGCACCAAGGAGAAATATCTCA
TTTGAACCATGTATGATGTCCTGTCAACAAACCTGTCTCAACAGCTGACCGTATACACAACCTTGA
TAGATGTTACCAAGGTCAATTCGAAACTTACCTGCGGGACTGCCTGACCCTTGATAGGTTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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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_177924.2](#), [NP_808592.1](#)

RefSeq Size: 2609 bp

RefSeq ORF: 1188 bp

Locus ID: 427

UniProt ID: [Q13510](#)

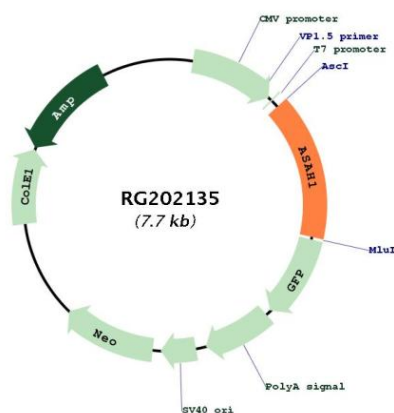
Cytogenetics: 8p22

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]

Product images:



Circular map for RG202135