

## Product datasheet for MR206162

### Asah1 (NM\_019734) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Asah1 (NM_019734) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Asah1
Synonyms:	2310081N20Rik; AC; Asah
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206162 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGGGGCCAAAGTCTTCTCACCTGGGTCTAGCCGCGGCAGTCACCTGCGCCAGGCACAGGATGTGC  
CGCCGTGGACAGAAGATTGCAGAAAATCAACTTATCCTCCTTCTGGACCAACCTATAGAGGACCAGTTCC  
GTGGCACACCATAAATCTTGATTTACCACCCTACAAAAGATGGCATGAATTATTGGCTCAAAGGCCACCA  
GCGTTGAGGATTTAGTGAATTCATAACGAGTTTGTGAATACATTTGTCCAAGTGGAAAATAATGA  
AGATGGTGGATCAAAGCTGCCTGGTATGATTGGCAGCCTTCTGACCCTTTGGAGAGGAAATGAGGGG  
AATTGCAGATGTTACTGGGATTCCTTAGGAGAGATTATTTCAATCAACATTTTCTATGAATTGTTTACC  
ATGTGTACATCAATCATAACTGAAGATGAGAAAGGTCATTTACTACATGGGAGAAACATGGATTTGGAA  
TATTTCTTGGGTGGAATAAATAAATAACACTTGGGTTGTACAGAAAGAAATTAAGCCCTTAACAGTGAA  
TTTGGACTTCAAAGAAACAATAAGACTGTTTTCAAGGCTACAAGTTTGTGGATATGTGGCATGTTG  
ACAGGATCAAACCAGGACTGTTTCAGTCTTCACTAAATGAACGTTTCAGTATAAATGGTGGTATCTGG  
GTATCCTAGAATGGATGTTCCGAAGGAAAGATGCCAGTGGGTAGGGTTTACTCTCGATCAGTTCTGGA  
AAACACCACAAGTTATGAAGAAGCCAAGAACAACACTGACCAAGACCAAGATAATGGCGCCAGTATATTTT  
ATCCTGGGAGGCAAGAAGTCTGGAGAGGGTTGTGTGATCACCGGAAAGAAAAGAGTCTTTGGATGTCT  
ATGAACCTTGATCCTAAGCATGGCAGATGGTATGTGGTACAAACCAATTATGACAGGTGGAAAAACACCTT  
GTTTATTGATGACCGCAGAACACCGGCCAAGAAGTGTCTAAATCACACCACAGAAAGATCTCTCCTTT  
GCTACCATCTATGATGTCTATCAACAAAACCTGTCTCAACAAGCTGACTGTATTCACAACCTTGATGG  
ATGTTACCAAAGGTCAATTTGAAAGTCACCTTCGAGATTGCCAGACCCTTGATAGGCTGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206162 protein sequence  
Red=Cloning site Green=Tags(s)

MRGQSLLTWVLA AAVTCAQAQDVPPWTEDCRKSTYPPSGPTYRGPVPHWTINLDLPPYKRWHELLAQKAP  
 ALRILVNSITSLVNTFVPSGKLMKMDQKLPGMIGSLPDPFGEEMRGIADVTGIPLGEIISFNIFYELFT  
 MCTSII TEDEKGHLLHGRNMDFGIFLGWNINNTWVVTEELKPLTVNLDFQRNNTVFKATSFVGYVGM  
 TGFKPGLFSLSLNERFSINGGYLGILEWMFGRKDAQWVGFITRSVLENTTSYEEAKNTLTKTKIMAPVYF  
 ILGGKSGEGCVITRERKESLDVYELDPKHGRWYVYVQTNVDRWKNTLFIIDRRTPAKKCLNHTTQKNLSF  
 ATIYDVLSTKPVLNKLTVFTTLMDVTKGQFESHRLRDCPDPCIGW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_019734

**ORF Size:** 1185 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:**

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\\_019734.1](#), [NM\\_019734.2](#), [NM\\_019734.3](#), [NP\\_062708.1](#)

**RefSeq Size:** 2251 bp

**RefSeq ORF:** 1185 bp

**Locus ID:** 11886

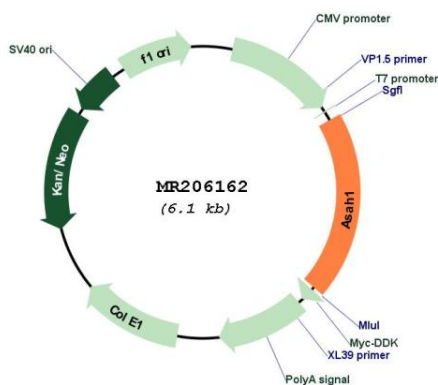
**UniProt ID:** [Q9WW54](#)

**Cytogenetics:** 8 A4

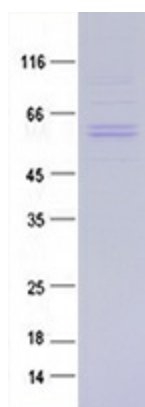
**MW:** 44.7 kDa

**Gene Summary:** This gene encodes acid ceramidase, an enzyme that plays a central role in ceramide metabolism. The encoded protein undergoes proteolytic processing to generate a heterodimeric enzyme comprised of alpha and beta subunits that catalyzes the hydrolysis of sphingolipid ceramide into sphingosine and free fatty acid. The homozygous disruption of this gene leads to embryonic lethality in mice whereas the heterozygous animals exhibit a progressive lipid storage disease phenotype. [provided by RefSeq, Oct 2015]

### Product images:



Circular map for MR206162



Coomassie blue staining of purified Asah1 protein (Cat# [TP506162]). The protein was produced from HEK293T cells transfected with Asah1 cDNA clone (Cat# MR206162) using MegaTran 2.0 (Cat# [TT210002]).