

## Product datasheet for MR202750

### Asah3l (BC059819) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Asah3l (BC059819) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Asah3l
Synonyms:	CRG-L1, Acer2, maCER2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202750 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCGCCCCGCACTGGTGGGACCACCTGCGGGCTGGCAGTTCGGAGGTGGATTGGTGCAGGACAAC  
ACACTATCGTGCCTGCCATTGCCGAGTTCTACAACACGATCAGCAACGTCTTGTTCATTTACCTCC  
CATCTGCATGTGCTTGTCCGCCAGTACGCAACGTGCTTCAACAGCGGCATCTACTTAATATGGACGCTC  
CTAGTTGTAGTGGGATTGGATCTGTCTACTTCCATGCAACGCTGAGTTTCTGGGTGAGATGCTTGATG  
AACTTGCCATTCTGTGGTTCTGATGTGTGCTTTGGCCATGTGGTTTCCAGGAGGTATTTACCAAAGAT  
CTTTCGGAATGACAGGTGTGACAATGTGCGTGTGTTAAGCTGGGCCTCTCTCTGGCCTCTGGTGGACT  
CTGGCTCTCTTCTGCTGGATCAGCGACCAAGCCTTCTGTGAGCTGCTCTCCTCCTTTCACTTCCCCTACC  
TGCACTGTGTGGCATATTCTCATCTGCCTTGCCTTCGTACCTGGGCTGTGTGTGCTTCGCCTACTTTGA  
TGCTGCCTCAGAGATACCTGAGCAAGGTCCAGTCATCAGATTCTGGCCAGCGAGAAATGGGCTTTTATT  
GGTGTCCCTTATGTGTCCCTTCTGTGTGCCACAAGAAGTCGCCAGTCAAGATCACG

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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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:** [BC059819](#), [AAH59819](#)

**RefSeq Size:** 4078 bp

**RefSeq ORF:** 689 bp

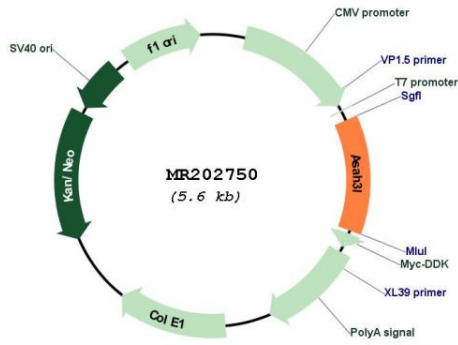
**Locus ID:** 230379

**Cytogenetics:** 4 C4

**MW:** 26.5 kDa

**Gene Summary:** Golgi ceramidase that catalyzes the hydrolysis of ceramides into sphingoid bases like sphingosine and free fatty acids at alkaline pH (PubMed:29401619). Ceramides, sphingosine, and its phosphorylated form sphingosine-1-phosphate are bioactive lipids that mediate cellular signaling pathways regulating several biological processes including cell proliferation, apoptosis and differentiation (PubMed:29401619). Has a better catalytic efficiency towards unsaturated long-chain ceramides, including C18:1-, C20:1- and C24:1-ceramides (By similarity) (PubMed:29401619). Saturated long-chain ceramides and unsaturated very long-chain ceramides are also good substrates, whereas saturated very long-chain ceramides and short-chain ceramides are poor substrates. Also hydrolyzes dihydroceramides to produce dihydrosphingosine (By similarity). It is the ceramidase that controls the levels of circulating sphingosine-1-phosphate and dihydrosphingosine-1-phosphate in plasma through their production by hematopoietic cells (PubMed:29401619). Regulates cell proliferation, autophagy and apoptosis by the production of sphingosine and sphingosine-1-phosphate. As part of a p53/TP53-dependent pathway, promotes for instance autophagy and apoptosis in response to DNA damage. Through the production of sphingosine, may also regulate the function of the Golgi complex and regulate the glycosylation of proteins (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202750