

Product datasheet for **RG217746**

ASAH3L (ACER2) (NM_001010887) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ASAH3L (ACER2) (NM_001010887) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ASAH3L
Synonyms:	ALKCDase2; ASAH3L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217746 representing NM_001010887 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCGCCCCGCACTGGTGGGACCAGCTGCAGGCTGGTAGCTCGGAGGTGGACTGGTGGCAGGACAAC
ACACCATCGTGCCTGCTATCGCCGAGTTCTACAACACGATCAGCAATGTCTTATTTTTCATTTTACCGCC
CATCTGCATGTGCTTGTTCGTCAGTATGCAACATGCTTCAACAGTGGCATCTACTTAATCTGGACTCTT
TTGGTTGTAGTGGGAATTGGATCCGTCTACTTCCATGCAACCCTTAGTTTCTTGGGTGAGATGCTTGATG
AAGTTCAGTCCCTTGGGTTCTGATGTGTGCTTTGGCCATGTGGTCCCCAGAAGGTATCTACCAAAGAT
CTTTCGGAATGACCGGGTAGGTTCAAGGTGGTGGTCAAGTGTCTGCGGTTACGACGTGCCTGGCA
TTGTCAAGCCTGCCATCAACAACATCTCTGATGACCTGGGAGTTCCTTGCCTGCACTGCTCATCG
CAGAGCTAAAGAGGTGTGACAACATGCGTGTGTTAAGCTGGGCCTCTTCTCGGGCCTCTGGTGGACCT
GGCCCTGTTCTGCTGGATCAGTGACCGAGCTTTCTGCGAGCTGCTGTCATCCTTCAACTCCCCTACCTG
CACTGCATGTGGCACATCCTCATCTGCCTTGTGCCTACCTGGGCTGTGTATGCTTTGCCTACTTTGATG
CTGCCTCAGAGATTCTGAGCAAGGCCCTGTATCAAGTCTGGCCCAATGAGAAATGGGCTTCATTGG
TGTCCTCATGTGTCCTCTGTGTGCCAACAAGAAATCATCAGTCAAGATCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG217746 representing NM_001010887
 Red=Cloning site Green=Tags(s)

MGAPHWWDQLQAGSSEVDWCEDNYTIVPAIAEFYNTISNVLFFILPPICMCLFRQYATCFNSGIYLIWTL
 LVVVGIGSVYFHATLSFLGQMLDELAVLWVLMCALAMWFP RRYLPKIFRNDRGRFKVVVSVLSAVTTCLA
 FVKPAINNISLMTLGVPTALLIAELKRCNMRVFKLGLFSGLWWTALFCWISDRAFCELLSSFNFPYL
 HCMWHILICLAAYLGCVCFAFYDAASEIPEQGPVIKFWPNEKWAFIGVPYVSLLCANKKSSVKIT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001010887

ORF Size: 825 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_001010887.3](#)

RefSeq Size: 2852 bp

RefSeq ORF: 828 bp

Locus ID: 340485

UniProt ID: [Q5QJU3](#)

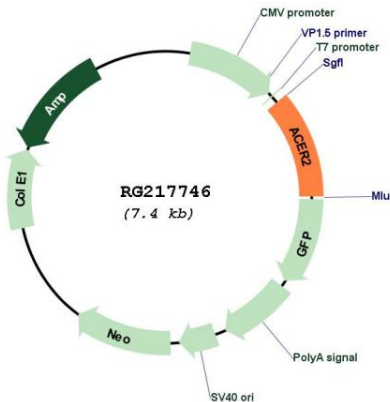
Cytogenetics: 9p22.1

Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, Sphingolipid metabolism

Gene Summary: The sphingolipid metabolite sphingosine-1-phosphate promotes cell proliferation and survival, whereas its precursor, sphingosine, has the opposite effect. The ceramidase ACER2 hydrolyzes very long chain ceramides to generate sphingosine (Xu et al., 2006 [PubMed 16940153]).[supplied by OMIM, Jul 2010]

Product images:



Circular map for RG217746