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Product datasheet for RC217746

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:	Myc-DDK
Symbol:	ASAH3L
Synonyms:	ALKCDase2; ASAH3L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC217746 representing NM_001010887
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCGCCCCGCACTGGTGGGACCAGCTGCAGGCTGGTAGCTCGGAGGTGGACTGGTGCGAGGACAACT
ACACCATCGTGCCTGCTATCGCCGAGTTCTACAACACGATCAGCAATGTCTTATTTTTCATTTTACCGCC
CATCTGCATGTGCTTGTTTCGTCAGTATGCAACATGCTTCAACAGTGGCATCTACTTAATCTGGACTCTT
TTGGTTGTAGTGGGAATTGGATCCGTCTACTTCCATGCAACCCTTAGTTTCTTGGGTCAGATGCTTGATG
AACTTGCAGTCCTTTGGGTTCTGATGTGTGCTTTGGCCATGTGGTTCCCCAGAAGGTATCTACCAAAGAT
CTTTCGGAATGACCGGGGTAGGTTCAAGGTGGTGGTCAGTGTCCTGTCTGCGGTTACGACGTGCCTGGCA
TTTGTCAAGCCTGCCATCAACAACATCTCTCTGATGACCCTGGGAGTTCCTTGCACTGCACTGCTCATCG
CAGAGCTAAAGAGGTGTGACAACATGCGTGTGTTTAAGCTGGGCCTCTTCTCGGGCCTCTGGTGGACCCT
GGCCCTGTTCTGCTGGATCAGTGACCGAGCTTTCTGCGAGCTGCTGTCATCCTTCAACTTCCCCTACCTG
CACTGCATGTGGCACATCCTCATCTGCCTTGCTGCCTACCTGGGCTGTGTATGCTTTGCCTACTTTGATG
CTGCCTCAGAGATTCCTGAGCAAGGCCCTGTCATCAAGTTCTGGCCCAATGAGAAATGGGCCTTCATTGG
TGTCCCCTATGTGTCCCTCCTGTGTGCCAACAAGAAATCATCAGTCAAGATCACG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC217746 representing NM_001010887
Red=Cloning site Green=Tags(s)

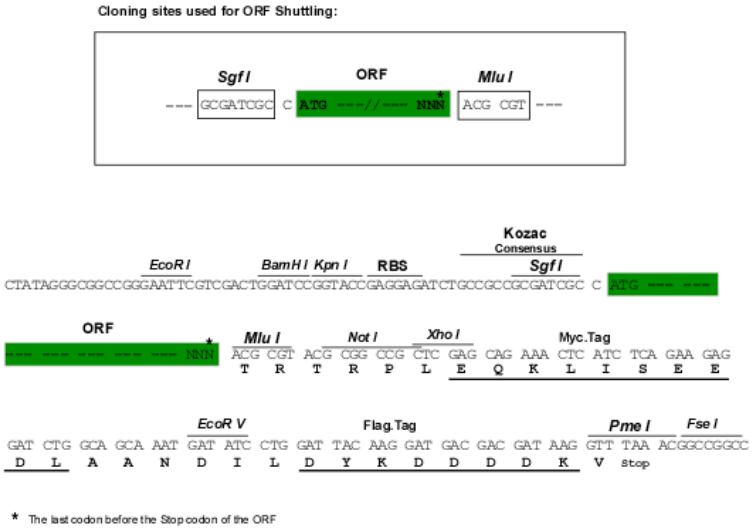
MGAPHWWDQLQAGSSEVDWCEDNYTIVPAIAEFYNTISNVLFFILPPICMCLFRQYATCFNSGIYLIWTL
LVVVGIGSVYFHATLSFLGQMLDELAVLWVLMCALAMWFPRRYLPKIFRNDRGRFKVVVSVLSAVTTCLA
FVKPAINNISLMTLGVPCTALLIAELKRCDNMRVFKLGLFSGLWWTLALFCWISDRAFCELLSSFNFPYL
HCMWHILICLAAYLGCVCFAYFDAASEIPEQGPVIKFWPNEKWAFIGVPYVSLLCANKKSSVKIT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3468_h03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001010887

ORF Size: 825 bp

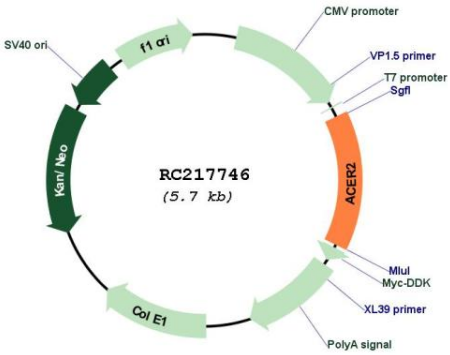
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
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
MW:	31.1 kDa
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 RC217746