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Product datasheet for RC226789

ASAH2 (NM_001143974) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ASAH2 (NM_001143974) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ASAH2
Synonyms:	BCDase; HNAC1; LCDase; N-CDase; NCDase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC226789 representing NM_001143974
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCAAACGCACCTTCTCTAACTTGGAGACATTCCTGATTTTCCTCCTTGTAATGATGAGTGCCATCA
CAGTGGCCCTTCTCAGCCTCTTGTTTATCACCAGTGGGACCATTGAAAACCACAAAGATTTAGGAGGCCA
TTTTTTTTCAACCACCCAAAGCCCTCCAGCCACCCAGGGCTCCACAGCTGCCCAACGCTCCACAGCCACC
CAGCATTCCACAGCCACCCAGAGCTCCACAGCCACTCAAACTTCTCCAGTGCCTTTAACCCCAGAGTCTC
CTCTATTTCAGAACTTCAGTGGCTACCATATTGGTGTTGGACGAGCTGACTGCACAGGACAAGTAGCAGA
TATCAATTTGATGGGCTATGGCAAATCCGGCCAGAATGCACAGGGCATCCTCACCAGGCTATACAGTCGT
GCCTTCATCATGGCAGAACCTGATGGGTCCAATCGAACAGTGTTTGTCAGCATCGACATAGGCATGGTAT
CACAAAGGCTCAGGCTGGAGGTCCTGAACAGACTGCAGAGTAAATATGGCTCCCTGTACAGAAGAGATAA
TGTCATCCTGAGTGGCACTCACACTCATTCAGGTCCTGCAGGATATTTCCAGTATACCGTGTTTGTAATT
GCCAGTGAAGGATTTAGCAATCAAACTTTTCAGCACATGGTCACTGGTATCTTGAAGAGCATTGACATAG
CACACACAAATATGAAACCAGGCAAAATCTTCATCAATAAAGGAAATGTGGATGGTGTGCAGATCAACAG
AAGTCCGTATTCTTACCTTCAAAATCCGCAGTCAGAGAGAGCAAGGTATTCTTCAAATACAGACAAGGAA
ATGATAGTTTTGAAAATGGTAGATTTGAATGGAGATGACTTGGGCCTTATCAGCTGGTTTGCCATCCACC
CGGTCAGCATGAACAACAGTAACCATCTTGTAAACAGTGACAATGTGGGCTATGCATCTTACCTGCTTGA
GCAAGAGAAGAACAAAGGATATCTACCTGGACAGGGGCCATTTGTAGCAGCCTTTGCTTCATCAAACCTA
GGAGATGTGTCCCCCAACATTCTTGGACCACGTTGCATCAACACAGGAGAGTCCTGTGATAACGCCAATA
GCACTTGTCCCATTGGTGGGCCTAGCATGTGCATTGCTAAGGGACCTGGACAGGATATGTTTGACAGCAC
ACAAATTATAGGACGGGCCATGTATCAGAGAGCAAAGTCAAAAACATGTAAACCAGCATTGGGCTACAGT
TTTGCAGCTGGCACTATTGATGGAGTTGGAGGCCTCAATTTTACACAGGGGAAAACAGAAGGGGATCCAT
TTTGGGACACCATTCGGGACCAGATCCTGGGAAAGCCATCTGAAGAAATTAAAGAATGTCATAAACCAAA
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TTCGAGAGGCAGTTCAAGCAGAATTTGCATCTCATGGGATGCAGAACATGACTGTTGTTATTTCAGGTCT
ATGCAACGTCTATACACATTACATTACCACTTATGAAGAATACCAGGCTCAGCGATATGAGGCAGCATCG
ACAATTTATGGACCGCACACATTATCTGCTTACATTCAGCTCTTCAGAAACCTTGCTAAGGCTATTGCTA
CGGACACGGTAGCCAACCTGAGCAGAGGTCCAGAACCTCCCTTTTTCAAACAATTAATAGTTCCATTAAT
TCCTAGTATTGTGGATAGAGCACCAAAAGGCAGAACTTTCGGGGATGTCCTGCAGCCAGCAAAACCTGAA
TACAGAGTGGGGGAAGTTGCTGAAGTTATATTTGTAGGTGCTAACCCGAAGAATTCAGTACAAAACCAGA
CCCATCAGACCTTCCTCACTGTGGAGAAATATGAGGCTACTTCAACATCGTGGCAGATAGTGTGTAATGA
TGCCTCCTGGGAGACTCGTTTTTATTGGCACAAGGGACTCCTGGGTCTGAGTAATGCAACAGTGGAATGG
CATATTCCAGACACTGCCCAGCCTGGAATCTACAGAATAAGATATTTTGGACACAATCGGAAGCAGGACA
TTCTGAAGCCTGCTGTCATACTTTCATTTGAAGGCACTTCCCCGGCTTTTGAAGTTGTAACTATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC226789 representing NM_001143974
Red=Cloning site Green=Tags(s)

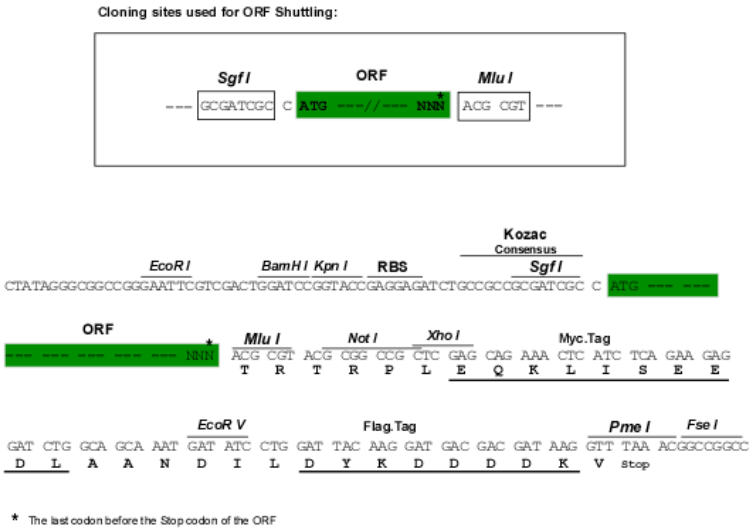
MAKRTFSNLETFLIFLLVMMSAITVALLSLLFITSGTIENHKDLGGHFFSTTQSPPATQGSTAAQRSTAT
QHSTATQSSTATQTSPVPLTPESPLFQNFSGYHIGVGRADCTGQVADINLMGYGKSGQNAQGILTRLYSR
AFIMAEPDGSNRTVFVSIDIGMVSQRLRLEVLNRLQSKYGSLYRRDNVILSGTHTHSGPAGYFQYTVFVI
ASEGFSNQTFQHMVTGILKSIDIAHTNMKPGKIFINKGNVDGVQINRSPYSYLQNPQSERARYSSNTDKE
MIVLKMVDLNGDDLGLISWFAIHPVSMNNSNHLVNSDNVGYASYLLEQEKNKGYLPGQGPFVAAFASSNL
GDVSPNILGPRCINTGESCDNANSTCPIGGPSMCIAKGPGQDMFDSTQIIGRAMYQRAKSKTCKPALGYS
FAAGTIDGVGGLNFTQGKTEGDPFWDTIRDQILGKPSEEIKECHKPKPILLHTGELSKPHPWHPDIVDVQ
IITLGSLAITAIPGEFTTMSGRRLREAVQAEFASHGMQNMTVVISGLCNVYTHYITTYEEYQAQRYEAAS
TIYGPHTLSAYIQLFRNLAKAIATDTVANLSRGPEPPFFKQLIVPLIPSIVDRAPKGRTFGDVLQPAKPE
YRVGEVAEVIFVGANPKNSVQNQTHQTFLTVEKYEATSTSWQIVCNDASWETRFYWHKGLLGLSNATVEW
HIPDTAQPGIYRIRYFGHNRKQDILKPAVILSFEGTSPAFEVVTI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2111_h04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



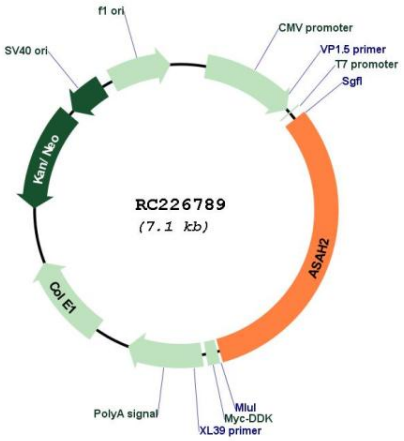
ACCN: NM_001143974

ORF Size: 2235 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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_001143974.2
RefSeq Size:	2327 bp
RefSeq ORF:	2238 bp
Locus ID:	56624
UniProt ID:	Q9NR71
Cytogenetics:	10q11.23
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, Sphingolipid metabolism
MW:	82.2 kDa

Gene Summary: Ceramidases (EC 3.5.1.23), such as ASAH2, catalyze hydrolysis of the N-acyl linkage of ceramide, a second messenger in a variety of cellular events, to produce sphingosine. Sphingosine exerts both mitogenic and apoptosis-inducing activities, and its phosphorylated form functions as an intra- and intercellular second messenger (see MIM 603730) (Mitsutake et al., 2001 [PubMed 11328816]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RC226789