

Product datasheet for RC222974

AS AHL (NAAA) (NM_001042402) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AS AHL (NAAA) (NM_001042402) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AS AHL
Synonyms:	AS AHL; PLT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222974 representing NM_001042402 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGACCGGGACCGGGAGGCGCCCGGGGCTTCCGTCCCTGCTGCTGCTGCTGGCCGGGGCCG
GGCTGTCAGCCGCTCGCCCCAGCAGCGCCGCGCTTCAACGTGAGCCTGGACTCGGTCCCCGAGCTGCG
CTGGCTGCCCGTGTGCGGCACTACGACTTGGACTTGGTGC GCGCCGCGATGGCGCAAGTCATCGGGGAC
AGAGTCCCAAGTGGGTGCACGTGTTAATCGGAAAAGTGGTCTGGAGCTGGAGCGCTTCTGCCCCAGC
CCTTACC GCGGAGATCCGCGGCATGTGTGACTTCATGAACCTCAGCCTGGCGGACTGCCTTCTGGTCAA
CCTGGCCTACGAGTCTCGTGTTCGACCAAGTATTGTGGCTCAAGACTCCAGAGGCCACATTTACCAT
GGTCGGAATTTGGATTATCCTTTTGGAATGTCTTACGCAAGCTGACAGTGGATGTGCAATTCCTAAAGA
ATGGGCAGATTGCATTCACAGGAACACTTTTATTGGCTATGTAGGATTATGGACTGGCCAGAGCCACA
CAAGTTTACAGTTTCTGGTGATGAACGAGATAAAGGCTGGTGGTGGGAGAATGCTATCGTCCCTGTTT
CGGAGACACATTTCCGTCAGTGGCTGATCCGCGCTACCTGAGTGAGTCGGAACCTCGAAGCAGCTG
TTGGCAAGTTGGCCAAGACTCCCCTTATTGCTGATGTTTATTACATTGTTGGTGGCACGTCCCCCGGGA
GGGGTGGTCATCAGAGAACAGAGATGGCCAGCAGACATTTGGCCTCTAGATCCTTTGAATGGAGCG
TGGTCCGAGTTGAGACAAATTACGACCACTGGAAGCCAGCACCAAGGAAGATGACCGGAAACATCTG
CCATCAAGGCCCTAATGCTACAGGACAAGCAAACCTCAGCCTGGAGGCATTTTCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC222974 representing NM_001042402
Red=Cloning site Green=Tags(s)

MRTADREARPLPSLLLLLLAGAGLSAASPPAAPRFNVSLDSVPELRWLPVLRHYDLDLVRAAMAQVIGD
 RVPKWVHVLIGKVLELERFLPQPFTGEIRGMCFMNLADCLLVNLAYESSVFCTSIVAQDSRGHIYH
 GRNLDPYFGNVLKRLTVDVQFLKNGQIAFTGTTFIGYVGLWTGQSPHKFTVSGDERDKGWWENAI AALF
 RRHIPVSWLIRATLSESENFEEAVGKLAKTPLIADVYIYVGGTSPREGVITRNRDGPADIWPLDPLNGA
 WFRVETNYDHWKPAPKEDDRRTSAIKALNATGQANLSLEALFQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8052_b07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_001042402

ORF Size: 969 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_001042402.2](#)

RefSeq Size: 1738 bp

RefSeq ORF: 972 bp

Locus ID: 27163

UniProt ID: [Q02083](#)

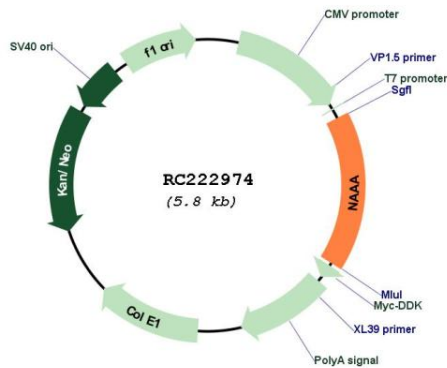
Cytogenetics: 4q21.1

Protein Families: Transmembrane

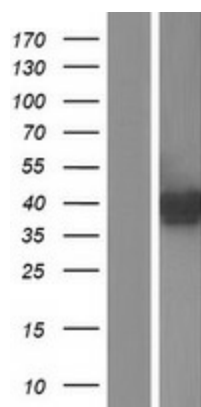
MW: 35.96 kDa

Gene Summary: This gene encodes an N-acylethanolamine-hydrolyzing enzyme which is highly similar to acid ceramidase. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC222974



Western blot validation of overexpression lysate (Cat# [LY420880]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222974 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).