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Product datasheet for SC119119

AARE (APEH) (NM_001640) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AARE (APEH) (NM_001640) Human Untagged Clone
Tag:	Tag Free
Symbol:	AARE
Synonyms:	AARE; ACPH; APH; D3F15S2; D3S48E; DNF15S2; OPH
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>NCBI ORF sequence for NM_001640, the custom clone sequence may differ by one or more nucleotides

ATGGAACGTCAGGTGCTGCTGAGCGAGCCCGAGGAGGCGGCGGCTCTGTATCGGGGCCTTAGCCGCCAGC
CCGCGCTGAGCGCCGCCTGCCTGGGCCCGGAGGTCACCACGCAGTACGGCGGCCAATACCGGACGGTGCA
CACTGAGTGGACCCAGAGGGACCTGGAACGCATGGAGAACATTCGATTCTGCCGCCAATACCTGGTGTTC
CATGACGGGGACTCAGTGGTGTTTGCAGGACCTGCAGGCAACAGTGTGGAGACCCGGGGGGAACTGCTGA
GCAGAGAGTCTCCTTCAGGCACCATGAAAGCTGTGCTGCGCAAGGCTGGAGGCACGGGCCCTGGGGAAGA
GAAGCAGTTCCTGGAGGTCTGGGAGAAGAACCGGAAGCTCAAGAGCTTCAACCTGTCAGCGCTGGAGAAA
CATGGGCCTGTTTATGAGGATGACTGCTTTGGCTGCCTGTCCTGGTCGCACTCGGAGACACACTTGTTGT
ATGTGGCAGAGAAGAAGCGCCCCAAGGCCGAGTCCTTCTTTCAGACCAAAGCCTTGGACGTCAGTGCCAG
CGATGATGAGATAGCCAGGCTGAAGAAGCCAGACCAAGCCATCAAGGGGGATCAGTTTGTGTTTTATGAA
GACTGGGGAGAAAACATGGTTTCCAAAAGCATCCCTGTGCTCTGCGTGCTGGATGTCGAGAGTGGCAACA
TCTCTGTGCTTGAGGGGGTCCCTGAGAATGTGTCCCCTGGACAGGCATTTTGGGCCCCTGGAGATGCTGG
TGTGGTGTTTGTGGGCTGGTGGCATGAGCCCTTCCGGTTGGGCATCCGCTTTTGCACCAATCGCAGGTCA
GCCCTGTATTATGTGGACCTCATCGGGGGGAAGTGTGAGCTCCTCTCGGATGACTCCCTGGCTGTCTCTT
CTCCCCGGCTGAGCCCAGACCAATGTCGCATTGTCTACCTGCAGTACCCATCTCTGATCCCCCATCACCA
ATGCAGCCAGCTGTGCCTGTATGACTGGTATACCAAGGTTACCTCAGTGGTGGTAGATGTTGTGCCTCGG
CAGCTGGGAGAGAACTTCTCTGGGATCTACTGCAGCCTTCTGCCTTTGGGATGCTGGTCAGCTGACAGCC
AGAGAGTGGTCTTTGACTCGGCTCAGCGCAGCCGGCAGGACCTGTTTGCTGTGGACACCCAAGTGGGCAC
TGTGACCTCCCTCACAGCTGGAGGGTCAGGTGGGAGCTGGAAGTTGCTCACAATTGACCAGGACCTCATG
GTGGCACAGTTTTCCACACCCAGCCTACCTCCAACCCTGAAAGTTGGGTTCCTGCCTTCTGCAGGGAAGG
AGCAGTCAGTGTTGTGGGTGTCCCTGGAGGAGGCCGAGCCCATTCCCGACATCCACTGGGGCATCCGGGT
GCTACAGCCACCCCCAGAGCAAGAGAATGTGCAGTATGCTGGCCTTGACTTTGAAGCAATCCTGCTGCAG
CCTGGCAGCCCTCCAGATAAGACCCAAGTGCCCATGGTGGTCATGCCCCACGGGGGGCCCCATTCATCCT
TTGTCACTGCCTGGATGCTGTTCCCAGCCATGCTTTGCAAGATGGGCTTTGCGGTACTACTAGTGAACTA
TCGTGGCTCCACGGGCTTTGGCCAGGACAGCATCCTCTCCCTCCCAGGCAATGTGGGCCACCAGGATGTG
AAGGATGTCCAGTTTGCAGTGGAACAGGTGCTCCAGGAGGAACACTTTGATGCAAGCCATGTGGCCCTTA
TGGGTGGTTCCCATGGTGGCTTCATTTCCTGCCACTTGATTGGTCAGTACCCAGAGACCTACAGGGCCTG
CGTGGCCCGGAACCCCGTGATCAACATCGCCTCCATGTTGGGCTCCACTGACATCCCTGACTGGTGCGTG
GTGGAGGCTGGCTTTCCTTTCAGCAGTGACTGCCTGCCAGACCTCAGCGTGTGGGCTGAGATGCTGGACA
AATCGCCCATCAGATACATCCCTCAGGTGAAGACACCACTGTTACTGATGTTGGGCCAGGAGGACCGGCG
TGTGCCCTTCAAGCAGGGCATGGAGTATTACCGTGCCCTCAAGACCCGGAATGTGCCTGTTCGGCTCCTG
CTCTATCCCAAAAGCACCCACGCATTATCAGAGGTGGAGGTGGAGTCAGACAGCTTCATGAATGCTGTGC
TCTGGCTACGCACACACTTGGGCAGCTGA

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_001640 unedited
TTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGGGAGACTATGGAAC
GTCAGGTGCTGCTGAGCGAGCCCGAGGAGGCGGCGGCTCTGTATCGGGGCCTTAGCCGCC
AGCCCGCGCTGAGCGCCGCCTGCCTGGGCCCGGAGGTCACCACGCAGTACGGCGGCCAAT
ACCGGACGGTGCACACTGACTGCTGAGCAGAGAGTCTCCTTCAGGCACCATGAAAGCTGT
GCTGCGCAAGGCTGGAGGCACGGGCCCTGGGGAAGAGAAGCAGTTCCTGGAGGTCTGGGA
GAAGAACCGGAAGCTCAAGAGCTTCAACCTGTCAGCGCTGGAGAAACATGGGCCTGTTTA
TGAGGATGACTGCTTTGGCTGCCTGTCCTGGTCGCACTCGGAGACACACTTGTTGTATGT
GGCAGAGAAGAAGCGCCCCAAGGCCGAGTCCTTCTTTCAGACCAAAGCCTTGGACGTCAG
TGCCAGCGATGATGAGATAGCCAGGCTGAAGAAGCCAGACCAAGCCATAAGGGGGGATCA
GGTTTTGTGGTTTATGAAAGACTGGNGGAGAAAACATTGGTTTCCAAAAGCATCCCTGTG
TTCTGCGTGTTTGGAATGTCAAGAGTGGCACATCTCTTGCTGGAGGGGGGGGTCCTGAAA
AATGTGTCCCCTGACAGGCATTTTGGCCCTGAATCTGGGGNGGGGTTTTTGGGGGGGGTG
GGGCATAACCTCTTCCGGGTGGCAATCCGTTTGACAAATCGCAGTAGCCTGGTTTATGGG
ACTATCGGGGGGGGAAAGGGGGACCCTTTGGAGGATCCTGGGCTGGCTTTTTCCCCGTTG
ACCAAACATGGTCCATTGGTACTGAATACCATTTTTGACCCC
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Restriction Sites: NotI-NotI

ACCN: NM_001640

Insert Size: 2920 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

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_001640.3, NP_001631.3

RefSeq Size: 2775 bp

RefSeq ORF:	2199 bp
Locus ID:	327
UniProt ID:	P13798
Cytogenetics:	3p21.31
Domains:	Peptidase_S9
Protein Families:	Druggable Genome, Protease
Gene Summary:	This gene encodes the enzyme acylpeptide hydrolase, which catalyzes the hydrolysis of the terminal acetylated amino acid preferentially from small acetylated peptides. The acetyl amino acid formed by this hydrolase is further processed to acetate and a free amino acid by an aminoacylase. This gene is located within the same region of chromosome 3 (3p21) as the aminoacylase gene, and deletions at this locus are also associated with a decrease in aminoacylase activity. The acylpeptide hydrolase is a homotetrameric protein of 300 kDa with each subunit consisting of 732 amino acid residues. It can play an important role in destroying oxidatively damaged proteins in living cells. Deletions of this gene locus are found in various types of carcinomas, including small cell lung carcinoma and renal cell carcinoma. [provided by RefSeq, Jul 2008]