

Product datasheet for **RC200666**

AARE (APEH) (NM_001640) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AARE (APEH) (NM_001640) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AARE
Synonyms:	AARE; ACPH; APH; D3F15S2; D3S48E; DNF15S2; OPH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC200666 representing NM_001640
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAACGTCAGGTGCTGCTGAGCGAGCCCGAGGAGCGCGGCTCTGTATCGGGCCCTAGCCGCCAGC
 CCGCGCTGAGCGCCGCTGCCTGGGCCCGAGGTCACCACGCAGTACGGCGGCCAATACCGGACGGTGCA
 CACTGAGTGGACCCAGAGGGACCTGGAACGCATGGAGAACATTGATTCTGCCGCCAATACCTGGTGTTT
 CATGACGGGGACTCAGTGGTGTTCGAGGACCTGCAGGCAACAGTGTGGAGACCCGGGGGAACTGCTGA
 GCAGAGAGTCTCCTTCAGGCACCATGAAAGCTGTGCTGCGCAAGGCTGGAGGCACGGGCCCTGGGAAGA
 GAAGCAGTTCCTGGAGGTCTGGGAGAAGAACCGGAAGCTCAAGAGCTTCAACCTGTCAGCGCTGGAGAAA
 CATGGGCTGTTTATGAGGATGACTGCTTTGGCTGCCTGTCTGGTGCCTCGGAGACACACTTGTGT
 ATGTGGCAGAGAAGAAGCGCCCAAGGCCGAGTCTTCTTTCAGACCAAAGCCTTGACGTCAGTGCCAG
 CGATGATGAGATAGCCAGGCTGAAGAAGCCAGACCAAGCCATCAAGGGGGATCAGTTTGTGTTTTATGAA
 GACTGGGAGAAAAACATGGTTTCCAAAAGCATCCCTGTGCTCTGCGTGGATGTGAGAGTGGCAACA
 TCTCTGTGCTTGAGGGGTCCCTGAGAATGTGTCCCTGGACAGGCATTTGGGCCCTGGAGATGCTGG
 TGTGGTGTGTTGGGCTGGTGGCATGAGCCCTCCGGTTGGGCATCCGCTTTTGACCAATCGCAGGTCA
 GCCCTGTATTACGTGGACCTCATCGGGGGAAGTGTGAGCTCCTCTCGGATGACTCCCTGGCTGTCTCTT
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 ATGCAGCCAGCTGTGCCTGTATGACTGGTATACCAAGTTACCTCAGTGGTGGTAGATGTTGTGCCTCGG
 CAGCTGGGAGAGAAGTCTCTGGGATCTACTGCAGCCTTCTGCCTTTGGGATGCTGGTCACTGACAGCC
 AGAGAGTGGTCTTTGACTCGGCTCAGCGCAGCCGGCAGGACCTGTTTGTGAGACACCAAGTGGGCAC
 TGTGACCTCCCTCACAGCTGGAGGGTCAAGTGGGAGCTGGAAGTTGCTCACAATTGACCAGGACCTCATG
 GTGGCACAGTTTTCCACACCCAGCCTACCTCCAACCCTGAAAGTTGGGTTCTGCCTTCTCAGGGAAGG
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 TCGTGGCTCCACGGGCTTTGGCCAGGACAGCATCCTCCTCCAGGCAATGTGGGCCACAGGATGTG
 AAGGATGTCCAGTTTGCAGTGGAAACAGGTGCTCCAGGAGGAACACTTTGATGCAAGCCATGTGGCCCTA
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 AATCGCCCATCAGATACATCCCTCAGGTGAAGACACCACTGTTACTGATGTTGGGCCAGGAGGACCGGCG
 TGTGCCCTTCAAGCAGGGCATGGAGTATTACCGTGCCTCAAGACCCGGAATGTGCCTGTTCCGGCTCCTG
 CTCTATCCAAAAGCACCCACGCATTATCAGAGGTGGAGTGGAGTCAGACAGCTTATGAATGCTGTGC
 TCTGGCTACGCACACACTTGGGCAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC200666 representing NM_001640
 Red=Cloning site Green=Tags(s)

MERQVLLSEPEEAAAALYRGLSRQPALSAACLGPVTTQYGGQYRTVHTEWTQRDLERMENIRFCRQYLVF
 HDGDSVVFAGPAGNSVETRCELLSRESPSGTMKAVLRKAGGTGPGEKQFLEWWEKNRKLKSFNLSALEK
 HGPVYEDDCFGCLSWSHSETHLLYVAEKRPKAESEFFQTKALDVSASDDEIARLKKPDQAIKGDQFVFEY
 DWGENMVSKSIPVLCVLDVSEGNISVLEGVPEENVSPGQAFWAPGDAGVVFVGGWWHEPFRLGIRFCTNRRS
 ALYYVDLIGGKCELLSDDSLAVSSPRLSPDQCRIVYLQYPSLIPHHQCSQLCLYDWTYKVTSSVVVDVPR
 QLGENFSGIYCSLLPLGCWSADSQRVVFDSAQRSRQDLFAVDTQVGTVTSLTAGGSGGSWKLITIDQDLM
 VAQFSTPSLPPTLKVGFLPSAGKEQSVLWVSLEEAEPIDIHGIRVLQPPPEQENVQYAGLDFAILLQ
 PGSPDPKTQVPMVMPHGGPHSSFVTAWMLFPAMLCCKMGFAVLLVNYRGSTGFGQDSILSLPGNVGHQDV
 KDVFQAVEQVLQEEHFDASHVALMGGSHGGFISCHLIGQYPETYRACVARNPVINIASMLGSTDIPDWCV
 VEAGFPFSSDCLPDLVSWAEMLDKSPIRYIPQVKTPLLLMLGQEDRRVPFKQGMYYRALKTRNVPVRL
 LYPKSTHALSEVEVESDSFMNAVLWLRTHLGS

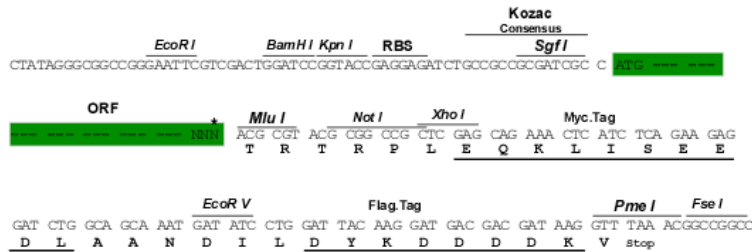
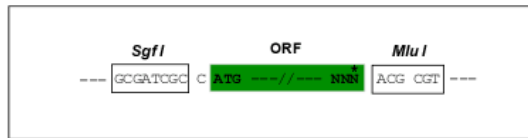
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3950_g02.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

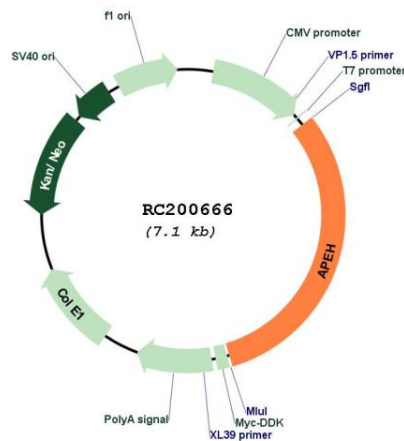
ACCN: NM_001640

ORF Size: 2196 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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
MW:	81 kDa

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]

Product images:


Circular map for RC200666