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Product datasheet for RC206188

AADACL1 (NCEH1) (NM_020792) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AADACL1 (NCEH1) (NM_020792) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AADACL1
Synonyms:	AADACL1; NCEH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC206188 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCAGCTGCCGCGGGCAGAAAGTTGCCGGAGGTCTCCGGGTGGTATCGCCCTTTCCTCTTTGCCAGC
CCGCTGGCGAGCCGAGCCGGGGCAAGATGAGGTCGTCCTGTGTCCTGCTCACCGCCCTGGTGGCGCTGGC
CGCCTATTACGTCTACATCCCGCTGCCTGGCTCCGTGTCCGACCCCTGGAAGCTGATGCTGCTGGACGCC
ACTTTCCGGGGTGCACAGCAAGTGAGTAACCTGATCCACTACCTGGGACTGAGCCATCACCTGCTGGCAC
TGAATTTTATCATTGTTTCTTTTGGCAAAAAAAGCGCGTGGTCTTCTGCCCAAGTGAAGGTGACCGACAC
AGACTTTGATGGTGTGGAAGTCAGAGTGTTTGAAGGCCCTCCGAAGCCCGAAGAGCCACTGAAACGCAGC
GTCGTTTATATCCACGGAGGAGGCTGGGCCTTGGCAAGTGCAAAAATCAGGTATTATGATGAGCTGTGTA
CAGCAATGGCTGAGGAATTGAATGCTGTCATTGTTTCCATTGAATACAGGCTAGTTCCAAAGGTTTATTT
TCCTGAGCAAATTCATGATGTTGTACGGGCCACAAAGTATTTCCTGAAGCCAGAAGTCTTACAGAAGTAT
ATGGTTGATCCAGGCAGAATTTGCATTTCTGGTGACAGTGCTGGTGGAAATCTGGCTGCTGCCCTTGGAC
AACAGTTTACTCAAGATGCCAGCCTAAAAAATAAGCTCAAACTACAAGCTTTAATTTATCCAGTTCTTCA
AGCTTTAGATTTTAACACACCATCTTATCAGCAAAATGTGAACACCCCAATCCTGCCCCGCTATGTCATG
GTGAAGTATTGGGTGGACTACTTCAAAGGCAACTATGACTTTGTGCAGGCAATGATCGTTAACAATCACA
CTTCACTTGATGTGGAAGAGGCTGCTGCTGTCAGGGCCCGTCTAAACTGGACATCCCTCTTGCCTGCATC
CTTCACAAAGAACTACAAGCCTGTTGTACAGACCACAGGCAATGCCAGGATTGTCCAGGAGCTTCCTCAG
TTGCTGGATGCCCGCTCCGCCCCACTCATTGCAGACCAGGCAGTGCTGCAGCTCCTCCCAAAGACCTACA
TTCTGACGTGTGAGCATGATGTCCTCAGAGACGATGGCATCATGTATGCCAAGCGTTTGGAGAGTGCCGG
TGTGGAGGTGACCCTGGATCACTTTGAGGATGGCTTTCACGGATGTATGATTTTCACTAGCTGGCCCACC
AACTTCTCAGTGGGAATCCGGACTAGGAATAGTTACATCAAGTGGCTAGATCAAAACCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206188 protein sequence
Red=Cloning site Green=Tags(s)

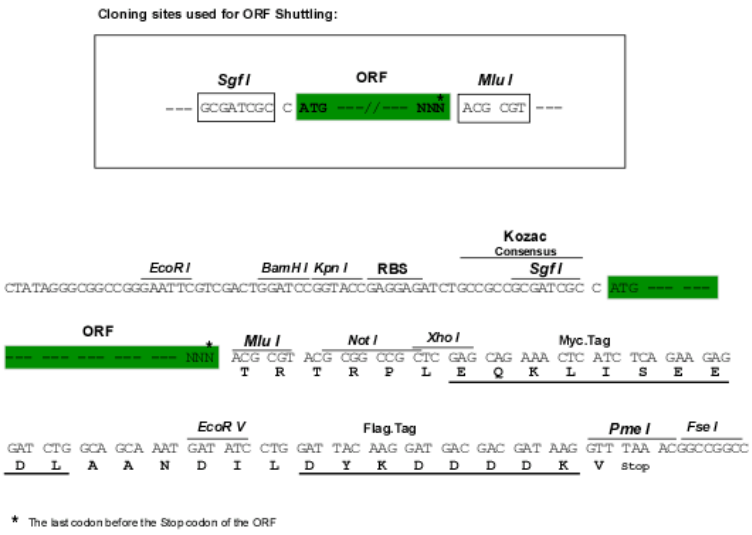
MSSCRGQKVAGGLRVVSPFPLCQPAGEPSRGKMRSSCVLLTALVALAAYYVYIPLPGSVSDPWKLMLLDA
TFRGAQQVSNLIHYLGLSHHLLALNFIIVSFGKKSAWSSAQVKVTDTDFDGVEVRVFEGPPKPEEPLKRS
VVYIHGGGWALASAKIRYYDELCTAMAEELNAVIVSIEYRLVPKVYFPEQIHDVVRATKYFLKPEVLQKY
MVDPGRICISGDSAGGNLAAALGQQFTQDASLKNKLKLQALIYPVLQALDFNTPSYQQNVNTPILPRYVM
VKYWVDYFKGNYDFVQAMIVNNHTSLDVEEAAAVRARLNWTSLLPASFTKNYKPVVQTTGNARIVQELPQ
LLDARSAPLIADQAVLQLLPKTYILTCEHDVLRDDGIMYAKRLESAGVEVTLDHFEDGFHGCMIFTSWPT
NFSVGIRTRNSYIKWLDQNL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6270_a04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020792

ORF Size: 1320 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_020792.4

RefSeq Size: 4294 bp

RefSeq ORF: 1227 bp

Locus ID: 57552

UniProt ID: Q6PIU2

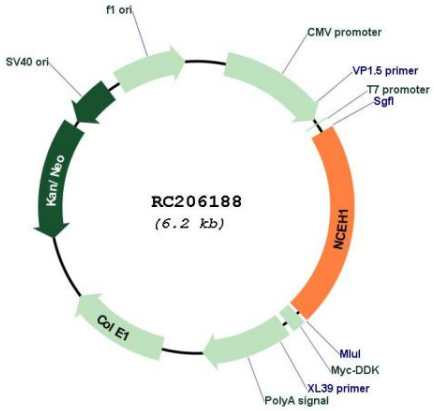
Cytogenetics: 3q26.31

Protein Families: Transmembrane

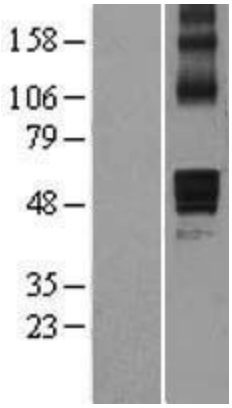
MW: 49.1 kDa

Gene Summary: Hydrolyzes 2-acetyl monoalkylglycerol ether, the penultimate precursor of the pathway for de novo synthesis of platelet-activating factor. May be responsible for cholesterol ester hydrolysis in macrophages, thereby contributing to the development of atherosclerosis. Also involved in organ detoxification by hydrolyzing exogenous organophosphorus compounds. May contribute to cancer pathogenesis by promoting tumor cell migration.[UniProtKB/Swiss-Prot Function]

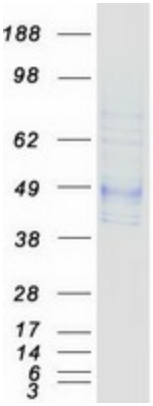
Product images:



Circular map for RC206188



Western blot validation of overexpression lysate (Cat# [LY412304]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206188 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NCEH1 protein (Cat# [TP306188]). The protein was produced from HEK293T cells transfected with NCEH1 cDNA clone (Cat# RC206188) using MegaTran 2.0 (Cat# [TT210002]).