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Product datasheet for RC228360

AADACL1 (NCEH1) (NM_001146276) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AADACL1 (NCEH1) (NM_001146276) 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:

>RC228360 representing NM_001146276
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCAGCTGCCGCGGGCAGAAAGTTGCCGGAGGTCTCCGGGTGGTATCGCCCTTTCCTCTTTGCCAGC
CCGCTGGCGAGCCGAGCCAGGGCAAGATGAGGTCGTCCTGTGTCCTGCTCACCGCCCTGGTGGCGCTGGC
CGCCTATTACGTCTACATCCCGCTGCCTGGCTCCGTGTCCGACCCCTGGAAGCTGATGCTGCTGGACGCC
ACTTTCCGGGGTGCACAGCAAGTGAGTAACCTGATCCACTACCTGGGACTGAGCCATCACCTGCTGGCAC
TGAATTTTATCATTGTTTCTTTTGGCAAAAAAAGCGCGTGGTCTTCTGCCCAAGTGAAGGTGACCGACAC
AGACTTTGATGGTGTGGAAGTCAGAGTGTTTGAAGGCCCTCCGAAGCCCGAAGAGCCACTGAAACGCAGC
GTCGTTTATATCCACGGAGGAGGCTGGGCCTTGGCAAGTGCAAGTGCGTCCTGGTCACCTTCAGATGAAA
TCAGGTATTATGATGAGCTGTGTACAGCAATGGCTGAGGAATTGAATGCTGTCATTGTTTCCATTGAATA
CAGGCTAGTTCCAAAGGTTTATTTTCCTGAGCAAATTCATGATGTTGTACGGGCCACAAAGTATTTCCTG
AAGCCAGAAGTCTTACAGAAGTATATGGTTGATCCAGGCAGAATTTGCATTTCTGGTGACAGTGCTGGTG
GAAATCTGGCTGCTGCCCTTGGACAACAGTTTACTCAAGATGCCAGCCTAAAAAATAAGCTCAAACTACA
AGCTTTAATTTATCCAGTTCTTCAAGCTTTAGATTTTAACACACCATCTTATCAGCAAAATGTGAACACC
CCAATCCTGCCCCGCTATGTCATGGTGAAGTATTGGGTGGACTACTTCAAAGGCAACTATGACTTTGTGC
AGGCAATGATCGTTAACAATCACACTTCACTTGATGTGGAAGAGGCTGCTGCTGTCAGGGCCCGTCTAAA
CTGGACATCCCTCTTGCCTGCATCCTTCACAAAGAACTACAAGCCTGTTGTACAGACCACAGGCAATGCC
AGGATTGTCCAGGAGCTTCCTCAGTTGCTGGATGCCCGCTCCGCCCCACTCATTGCAGACCAGGCAGTGC
TGCAGCTCCTCCCAAAGACCTACATTCTGACGTGTGAGCATGATGTCCTCAGAGACGATGGCATCATGTA
TGCCAAGCGTTTGGAGAGTGCCGGTGTGGAGGTGACCCTGGATCACTTTGAGGATGGCTTTCACGGATGT
ATGATTTTCACTAGCTGGCCCACCAACTTCTCAGTGGGAATCCGGACTAGGAATAGTTACATCAAGTGGC
TAGATCAAAACCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC228360 representing NM_001146276
Red=Cloning site Green=Tags(s)

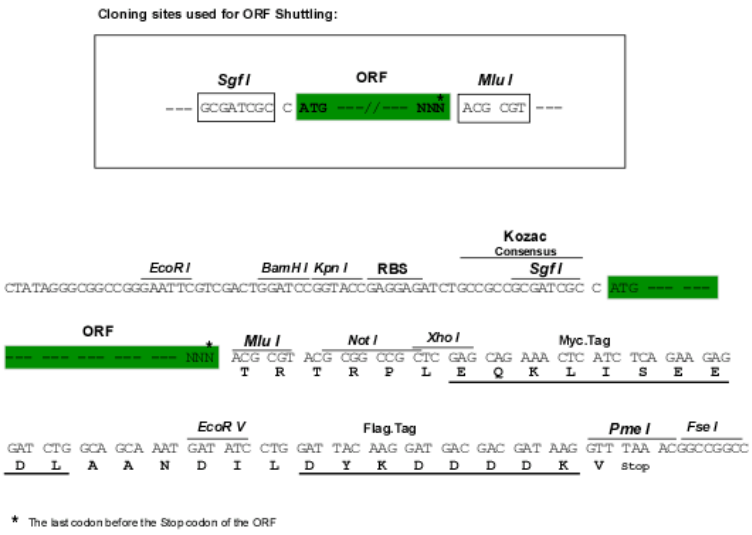
MSSCRGQKVAGGLRVVSPFPLCQPAGEPSQGKMRSSCVLLTALVALAAYYVYIPLPGSVSDPWKLMLLDA
TFRGAQQVSNLIHYLGLSHHLLALNFIIVSFGKKSAWSSAQVKVTDTDFDGVEVRVFEGPPKPEEPLKRS
VVYIHGGGWALASASASWSPSDEIRYYDELCTAMAEELNAVIVSIEYRLVPKVYFPEQIHDVVRATKYFL
KPEVLQKYMVDPGRICISGDSAGGNLAAALGQQFTQDASLKNKLKLQALIYPVLQALDFNTPSYQQNVNT
PILPRYVMVKYWVDYFKGNYDFVQAMIVNNHTSLDVEEAAAVRARLNWTSLLPASFTKNYKPVVQTTGNA
RIVQELPQLLDARSAPLIADQAVLQLLPKTYILTCEHDVLRDDGIMYAKRLESAGVEVTLDHFEDGFHGC
MIFTSWPTNFSVGIRTRNSYIKWLDQNL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8060_f11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001146276

ORF Size: 1344 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_001146276.1, NP_001139748.1

RefSeq ORF: 1251 bp

Locus ID: 57552

UniProt ID: Q6PIU2

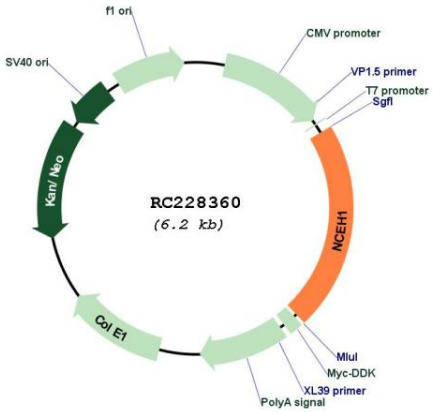
Cytogenetics: 3q26.31

Protein Families: Transmembrane

MW: 49.7 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 RC228360