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Product datasheet for RC228797

AADACL1 (NCEH1) (NM_001146278) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AADACL1 (NCEH1) (NM_001146278) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NCEH1
Synonyms:	AADACL1; NCEH
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC228797 representing NM_001146278 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

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Protein Sequence:

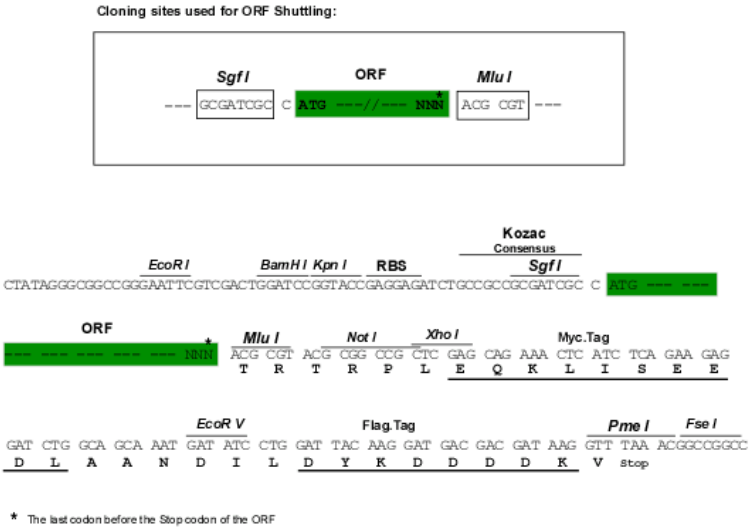
>RC228797 representing NM_001146278
Red=Cloning site Green=Tags(s)

MSSCRGQKVAGGLRVVSPFPLCQPAGEPSRGKMRSSCVLLTALVALAAYYVYIPLPGSVSDPWKLMLLDA
TFRGAQQVSNLIHYLGLSHHLLALNFIIVSFGKKSAWSSAQVKVTDTDFDGVEVRVFEGPPKPEEPLKRS
VVYIHGGGWALASAKIRYYDELCTAMAEELNAVIVSIEYRLVPKVYFPEQIHDVVRATKYFLKPEVLQKY
MVDPGRICISGDSAGGNLAAALGQQFTQDASLKNKLKLQALIYPVLQALDFNTPSYQQNVNTPILPRYVM
VKYWVDYFKGNYDFVQAMIVNNHTSLDVEEAAAVRARLNWTSLLPASFTKNYKPVVQTTGNARIVQELPQ
LLDARSAPLIADQAVLQLLPKTYILTCEHDVLRDDGIMYAKRLESAGVEVTLDHFEDGFHGCMIFTSWPT
NFSVGIRTRNSYIKWLDQNL

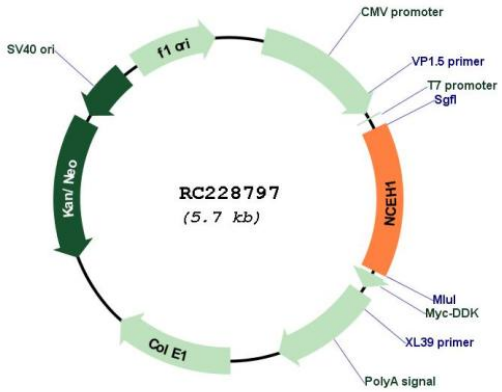
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001146278

ORF Size:	1323 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_001146278.1, NP_001139750.1
RefSeq Size:	4065 bp
RefSeq ORF:	828 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]