

## Product datasheet for RC207111

### AADAC (NM\_001086) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AADAC (NM_001086) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AADAC
Synonyms:	CES5A1; DAC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207111 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGAAGAAAATCGCTGTACCTTCTGATTGTGGGGATCCTCATAGCATATTATATTTATACGCCTCTCC  
CAGATAACGTTGAGGAGCCATGGAGAATGATGTGGATAAACGCACATCTGAAAACATAACAAAATTTGGC  
TACATTTGTGGAGCTCCTGGGACTTCACCATTTTATGGATTCTTTAAGGTTGTCGGGAGCTTTGATGAA  
GTCCACCAACCTCAGATGAAAATGTCCTGTGACTGAGACAAAATCAACAACATCTTGTTCGGGTAT  
ATGTGCCAAAGAGAAAAGTCTGAAGCACTAAGAAGGGGTTGTTTTACATCCATGGTGGAGGCTGGTGCCT  
GGGAAGTCTGCTCTAAGTGGTTATGACTTGTCTCAAGATGGACAGCAGACAGACTTGTGCTGTGCTC  
GTATCAACCAACTACAGATTAGCACCTAAGTATCATTTCCTCAATTTGAAGATGTATATAATGCCT  
TAAGGTGGTTCTTACGTAATAAAGTTCTTGCAAAAATATGGTGTGAACCCTGAGAGAATCGGTATTTCTGG  
AGATAGTGCAGGAGGGAATTTAGCTGCAGCAGTGAATCAACAGCTCCTTGATGACCCAGATGTCAAGATC  
AAACTCAAGATCCAGTCTTTAATTTATCCTGCCCTTCAGCCTCTTGATGTAGATTTACCGTCATATCAAG  
AAAATTCAAATTTCTATTTCTATCCAATCACTCATGGTCAGATTCTGGAGTGAATATTTACCACTGA  
TAGACTACTTGAAAAGCCATGCTTTCCAGACAACATGTACCTGTGGAATCAAGTCATCTCTTCAAATTT  
GTTAATGGAGTTCCTGCTCCCTGAGAGGTTTATAAAGGACATGTTTATAACAATCCAATTTATGGCA  
GTTCTGAGCTGGCTAAAAAATATCCAGGGTTCCTAGATGTGAGGGCAGCCCTTTGTTGGCTGATGACAA  
CAAATTACGTGGCTTACCCTGACCTATGTCATCACCTGTCAATATGATCTCTTAAGAGATGATGGACTC  
ATGTATGTACCCGACTTCGCAACTGGGGTTTCAGGTGACTCATAACCATGTTGAGGATGGATTCCATG  
GAGCATTTTCATTTCTGGGACTTAAAAATTAGTCACAGACTTATAAATCAGTATATTGAGTGGCTAAAGGA  
AAATCTA

**ACGGGT**ACGGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC207111 protein sequence  
Red=Cloning site Green=Tags(s)

MGRKSLYLLIVGILIAYYIYTPLPDNVEEPWRMMWINAHLKTIQNLATFVELLGLHHFMSFKVVGSFDE  
 VPPTSDENVTVTETKFNILVRVYVPKRKSEALRRGLFYIHGGWCVGSAAALSGYDLLSRWTADRLDAVV  
 VSTNYRLAPKYHFPIQFEDVYNALRWFLRKKVLAKYGVNPERIGISGDSAGGNLAAAVTQQLDDPDVKI  
 KLKIQSLIYPALQPLDVLPSYQENSNFLFLSKSLMVRWFSEYFTTDRSLEKAMLSRQHVPVESHLEFKF  
 VNWSLLPERFIKGHVYNNPNYGSSELAKKYPGFLDVRAAPLLADDNKLRLPLTYVITCQYDLLRDDGL  
 MYVTRLRNTGVQVTHNHVEDGFHGAFSFLGLKISHRLINQYIEWLKENL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6333\\_g07.zip](https://cdn.origene.com/chromatograms/mk6333_g07.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001086

**ORF Size:** 1197 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\\_001086.3](#)

**RefSeq Size:** 1725 bp

**RefSeq ORF:** 1200 bp

**Locus ID:** 13

**UniProt ID:** [P22760](#)

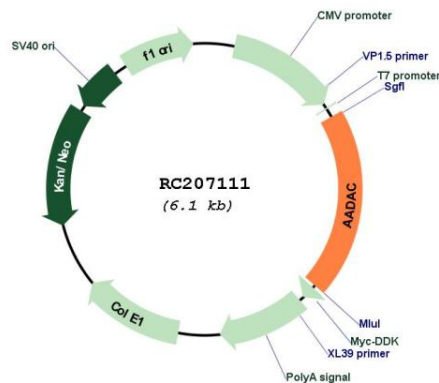
**Cytogenetics:** 3q25.1

**Protein Families:** Druggable Genome, Transmembrane

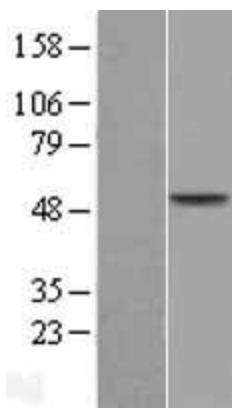
**MW:** 45.7 kDa

**Gene Summary:** Microsomal arylacetamide deacetylase competes against the activity of cytosolic arylamine N-acetyltransferase, which catalyzes one of the initial biotransformation pathways for arylamine and heterocyclic amine carcinogens [provided by RefSeq, Jul 2008]

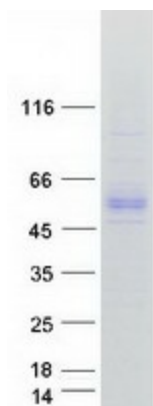
### Product images:



Circular map for RC207111



Western blot validation of overexpression lysate (Cat# [LY421330]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207111 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified AADAC protein (Cat# [TP307111]). The protein was produced from HEK293T cells transfected with AADAC cDNA clone (Cat# RC207111) using MegaTran 2.0 (Cat# [TT210002]).