

## Product datasheet for **RR202914**

### Aadac (NM\_020538) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Aadac (NM_020538) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aadac
Synonyms:	Aada
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR202914 representing NM_020538 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGGAAGAACTATTTTTCTTCTCATCTCTGTGGTGCTTGTAGCTTATTATATTTATATACCTCTCCCAG  
ATGATATTGAAGAGCCTTGGAAAATAATATTGGGAAATACACTTCTAAAAGTTGGAGGAGATTTGGCTTC  
TTTTGGTGAACCTTTGGGACTCAATCATTTTCATGGACACGGTACAGTTATTTATGAGATTTCAAGTTGTC  
CCACCCACTTCTGATGAGAATGTCACTGTGATGGAGACAGATTTCAACAGTGTTCCCTGTTCCGATATATA  
TACCCAAAAGGAAGTCAACGACGCTCAGGAGGGGCTTGTTTTTTATTCATGGTGGTGGCTGGTGTCTGGG  
GAGTGTGCTTACTTTCATGTATGACACTCTGTCAAGACGGACTGCCCATAGACTTGATGCCGTTGTTGTG  
TCAACTGACTATGGCTTAGCCCCAAAATACCATTTTCCAAAACAGTTTGAAGATGTATATCATAGTTTAC  
GATGGTCTTACAAGAGGACATTCTTGA AAAATATGGTGTAGATCCTAGAAGAGTTGGTGTGTCTGGGGA  
CAGTGTGGTGGAACTTAACAGCAGCTGTGACACAACAGATTCTACAGGATCCAGATGTCAAGATCAAA  
CTCAAGGTCCAAGCTTTAATATATCCTGCCCTTCAGGCTCTTGATGAATGTACCATCACAAACAAGAAA  
ATTCACAATACCCACTTTTAACAGGTCATTATTGATCCGTTTCTGGAGTGAATACTTTACTACAGACCG  
AGACCTTGAGAAAAGCCATGCTTCTCAACCAACATGTACCTGGGAATTCAGCCATTTGTTACAATTTGTG  
AATTGGAGTTCCTTGCTCCCTCAGAGATATAAGAAAGTTACTTTTATAAAACTCCCACTCCTGGTAGTT  
TGGAGCTGGCTCAAAAGTACCCAGGGTTCACAGATGTAAGGCATGCCCTCTGTTGGCCAATGACAGTAT  
ATTACATCATTTACCTATGACCTATATTACACTTGTGTCAGTATGATGTTCTAAGAGATGACGGACTCATG  
TATGTCAAGCGGCTTCAGAATACTGGAGTTCATGTGACTCATCCCATATTGAAGATGGATTCCATGGAG  
CACTTACCTTACCTGGTTTGA AAATTACATACAGGATGCAAAATCAGTACTTGAATTGGCTTCACAAAA  
TCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR202914 representing NM\_020538  
 Red=Cloning site Green=Tags(s)

MGRITIFLLISVVLVAYYYIPLPDDIEEPWKIILGNTLLKGGDLASFGELLGLNHFMDTVQLFMRFQVV  
 PPTSDENVTVMETDFNSVPVRIYIPKRKSTTLRRLFFIHGGGWCLGSAAYFMYDTLSRRTAHRLDVVV  
 STDYGLAPKYHFPKQFEDVYHSLRWFLQEDILEKYGVDPRRVGVSGDSAGGNLAAVTQQILQDPDVKIK  
 LKVQALIYPALQALDMNVPSQQENSQYPLLTRSLIRFWSEYFTTDRDLEKAMLLNQHVPEFVSHLLQFV  
 NWSLLPQRYKKGYFYKTPGSLAQAQYPGFTDVKACPLLANDSILHHLPMTYIITCQYDVLRDDGLM  
 YVKRLQNTGVHVTTHHIEDGFHGALTLPLKITYRMQNQYLNWLHKNL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

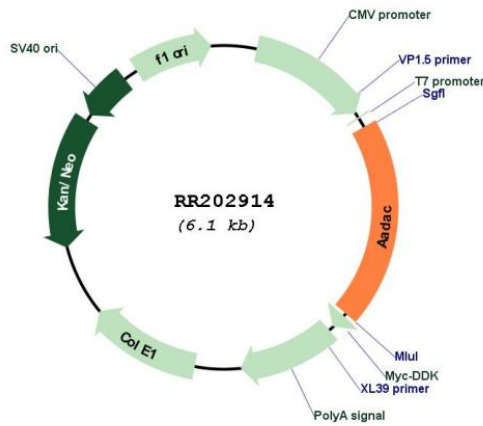
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_020538

<b>ORF Size:</b>	1194 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_020538.1</a> , <a href="#">NP_065413.1</a>
<b>RefSeq Size:</b>	1645 bp
<b>RefSeq ORF:</b>	1197 bp
<b>Locus ID:</b>	57300
<b>UniProt ID:</b>	<a href="#">Q9QZH8</a>
<b>Cytogenetics:</b>	2q31
<b>MW:</b>	45.7 kDa
<b>Gene Summary:</b>	Displays cellular triglyceride lipase activity in liver, increases the levels of intracellular fatty acids derived from the hydrolysis of newly formed triglyceride stores and plays a role in very low-density lipoprotein assembly (By similarity). Displays serine esterase activity in liver. Deacetylates a variety of arylacetamide substrates, including xenobiotic compounds and procarcinogens, converting them to the primary arylamide compounds and increasing their toxicity.[UniProtKB/Swiss-Prot Function]