

## Product datasheet for **RR204880**

### Alad (NM\_012899) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Alad (NM\_012899) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Alad  
**Synonyms:** ALADR; aminolevulinatedelta-dehydratase  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR204880 representing NM\_012899  
**Red**=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGACCACCAGTCCGTTCTGCACAGTGGCTACTTTCACCCACTGCTTCGGGCCTGGCAGACCACCCCT  
CCACCGTCAGTGCCACCAACCTCATCTATCCCATCTTTGTACGGATGTTCTGATGATGCCAGCCAT  
TGCCAGCCTCCCGGGAGTGGCCAGGTATGGCGTAAACCAGCTAGAGGAGATGCTGAGACCTCTGGTGGAA  
GCCGGCCTTCGCTGTGCTCCTGATCTTTGGCGTCCCAGCAGAGTTCCAAGGATGAACAGGGCTCTGCAG  
CTGACTCAGAGGACTCCCAACTATTGAGGCTGTCCGTCTGCTGAGGAAGACCTTCCCTACCTCCTAGT  
GGCCTGTGATGTCTGCCTGTGCCCTACACCTCCCATGGCCACTGTGGCCTCCTGAGTAAAAATGGAGCC  
TTCCTAGCAGAGGAAAGCCGACAACGGTTGGCAGAGGTGGCACTGGCCTATGCCAAGGCAGGTTGTCAGG  
TTGTAGCTCCATCAGACATGATGGATGGACGAGTTGAAGCCATCAAGGCTGCCCTGCTAAAAATGGACT  
TGGCAACAGGGTCTCTGTGATGAGCTATAGTGCCAAATTTGCCTCCTGTTTCTATGGTCCTTTCCGGGAT  
GCAGCTCAGTCAAGCCCAGCTTTTCGGAGACCGACGCTGTTATCAGCTGCCTCCTGGAGCCCGTGGCCTGG  
CCCTCCGAGCAGTGGCCCGGGACATTCAAGAGGGAGCTGACATACTCATGGTAAAGCCGGGATTACCTTA  
CCTGGATATGGTGCAGGAGGTGAAGGACAAGCACCCCGAGCTCCCCTCGCAGTATACCAGGTGTCCGGA  
GAGTTTGCATGTTGTGGCACGGAGCCAAGGCTGGGGCCTTTGATCTCAGGACTGCTGACTGGAGTCCA  
TGACGGCCTTCCGAGAGCCGGTGTGACATTATCATCACCTACTTTGCACCCAGCTGTTGAAGTGGCT  
GAAGGAAGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR204880 representing NM\_012899  
 Red=Cloning site Green=Tags(s)

MHHQSVLHSGYFHPLLRWQTTTPSTVSATNLIYPIFVTDVDPDDVQPIASLPGVARYGVNQLLEMLRPLVE  
 AGLRCVLIFGVPSRVPKDEQGSAAEDSPTIEAVRLLRKTFTLLVACDVCLCPYTSHGHCGLLENGA  
 FLAEESSRQRLAEVALAYAKAGCQVVAPSDMMDGRVEAIKAALLKHGLGNRVSVMSYSAKFASCFYGFPRD  
 AAQSSPAFGDRRCYQLPPGARGLALRAVARDIQEGADILMVKPGLPYLDMVQEVKDKHPELPLAVYQVSG  
 EFAMLWHGAKAGAFDLRTAVLESMTAFRRAGADIIITYFAPQLLKWLKEE

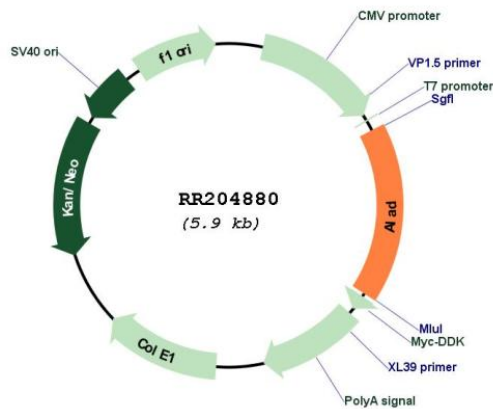
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_012899

**ORF Size:** 990 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_012899.2</a> , <a href="#">NP_037031.1</a>
<b>RefSeq Size:</b>	1278 bp
<b>RefSeq ORF:</b>	993 bp
<b>Locus ID:</b>	25374
<b>UniProt ID:</b>	<a href="#">P06214</a>
<b>Cytogenetics:</b>	5q24
<b>MW:</b>	36 kDa
<b>Gene Summary:</b>	catalyzes the conversion of 5-aminolevulinate to porphobilinogen in heme biosynthesis [RGD, Feb 2006]