

## Product datasheet for MC227065

### Alad (NM\_001276446) Mouse Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
Product Name: Alad (NM\_001276446) Mouse Untagged Clone  
Tag: Tag Free  
Symbol: Alad  
Synonyms: ALADH; Lv  
Vector: pCMV6-Entry (PS100001)  
E. coli Selection: Kanamycin (25 ug/mL)  
Cell Selection: Neomycin  
Fully Sequenced ORF: >MC227065 representing NM\_001276446  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGC**C

ATGCCACCACAGTCTGTTCTGCACAGCGGCTACTTTCACCCACTGCTTCGGAGCTGGCAGACTGCTGCCT  
CCACCGTCAGTGCCTCCAACCTCATCTATCCCATCTTTGTACGGATGTTCTGATGATGCCAGCCTAT  
CGCCAGCCTCCCAGGAGTGGCCAGGTATGGCGTAAACCAGCTAGAAGAGATGCTGAGACCTCTGGTGAA  
GCTGGCCTGCGCTGTGTCTGATCTTTGGCGTCCCAGCAGAGTCCCAAGGATGAACAGGGCTCTGCAG  
CTGACTCTGAGGACTCCCAACTATTGAGGCTGTCCGTCTGCTGAGGAAGACCTTCCCTTCCCTCCTAGT  
GGCCTGTGACGTCTGCTTGTGCCCTACACCTCCCATGGCCACTGTGGCCTCCTGAGTAAAAATGGAGCA  
TTCCTAGCAGAGGAGAGCCGACAGCGGTTGGCAGAGGTGGCACTGGCCTATGCCAAGGCAGGCTGTCAGG  
TTGTAGTCCGTGACATGATGGACGGACGAGTTGAGGCCATCAAGGCTGCCCTGCTAAAAATGGACT  
TGGCAACAGGGTCTCTGTGATGAGCTATAGTGCCAAATTTGCCTCCTGTTTCTACGGTCTTTCCGGGAT  
GCAGCTCAGTCAAGCCCAGCTTTTGGAGACCGACGCTGTTATCAGCTGCCTCCTGGTGCCCGTGGCCTGG  
CCCTCCGAGCAGTGGCCCGAGACATTCAAGAAGGAGCTGACATGCTCATGGTGAAGCCGGGATTGCCCTA  
CCTGGACATGGTGCAGAGGTGAAGGACAAGCACCCCGAGCTCCCCTCGCAGTATACCAGGTGTCTGGA  
GAGTTTGCATGTTGTGGCACGGAGCCAGCCGGGGCCTTTGATCTCAGGACTGCTGACTGGAGACCA  
TGACGGCCTTCCGACAGCCGGTCCGACATCATCACCTACTTTGCCCGCAGCTGTTGAAGTGGCT  
GAAGGAAGAA**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI  
ACCN: NM\_001276446



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<b>Insert Size:</b>	993 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<u><a href="#">NM_001276446.1</a></u> , <u><a href="#">NP_001263375.1</a></u>
<b>RefSeq Size:</b>	4447 bp
<b>RefSeq ORF:</b>	993 bp
<b>Locus ID:</b>	17025
<b>UniProt ID:</b>	<u><a href="#">P10518</a></u>
<b>Cytogenetics:</b>	4 33.17 cM
<b>Gene Summary:</b>	<p>Catalyzes an early step in the biosynthesis of tetrapyrroles. Binds two molecules of 5-aminolevulinate per subunit, each at a distinct site, and catalyzes their condensation to form porphobilinogen (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript from the same strain was available for the full length of the gene. The extent of this transcript is supported by transcript alignments and orthologous data.</p>