

Product datasheet for **MR229276**

Alad (NM_001276446) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Alad (NM_001276446) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Alad
Synonyms:	ALADH; Lv
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229276 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCACCACCACTCTGTTCTGCACAGCGGCTACTTTCACCCACTGCTTCGGAGCTGGCAGACTGCTGCCT
CCACCGTCAGTGCCTCCAACCTCATCTATCCCATCTTTGTACGGATGTTCTGATGATGTCACGCCTAT
CGCCAGCCTCCCAGGAGTGGCCAGGTATGGCGTAAACCAGCTAGAAGAGATGCTGAGACCTCTGGTGAA
GCTGGCCTGCGCTGTGCTCTGATCTTTGGCGTCCCAGCAGAGTCCCAAGGATGAACAGGGCTCTGCAG
CTGACTCTGAGGACTCCCAACTATTGAGGCTGTCCGTCTGCTGAGGAAGACCTCCCTTCCCTCCTAGT
GGCCTGTGACGTCTGCTTGTGCCCTACACCTCCCATGGCCACTGTGGCCTCCTGAGTGAATGGAGCA
TTCTAGCAGAGGAGAGCCGACAGCGGTTGGCAGAGGTGGCACTGGCCTATGCCAAGGCAGGCTGTCAGG
TTGTAGCTCCGTGAGACATGATGGACGGACGAGTTGAGGCCATCAAGGCTGCCCTGCTAAAAATGGACT
TGGCAACAGGGTCTCTGTGATGAGCTATAGTGCCAAATTTGCCTCCTGTTTCTACGGTCTTTCCGGGAT
GCAGCTCAGTCAAGCCAGCTTTTGGAGACCGACGCTGTTATCAGCTGCCTCCTGGTGCCCGTGGCCTGG
CCCTCCGAGCAGTGGCCCGAGACATTCAAGAAGGAGCTGACATGCTCATGGTGAAGCCGGGATTGCCCTA
CCTGGACATGGTGGCAGAGGTGAAGGACAAGCACCCGAGCTCCCCCTCGCAGTATACCAGGTGTCTGGA
GAGTTTGCATGTTGTGGCAGGAGCCAGGCCGGGCCCTTTGATCTCAGGACTGCTGTACTGGAGACCA
TGACGGCCTTCCGAGAGCCGGTGCCGACATCATCACCTACTTTGCACCGCAGCTGTTGAAGTGGCT
GAAGGAAGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229276 protein sequence
Red=Cloning site Green=Tags(s)

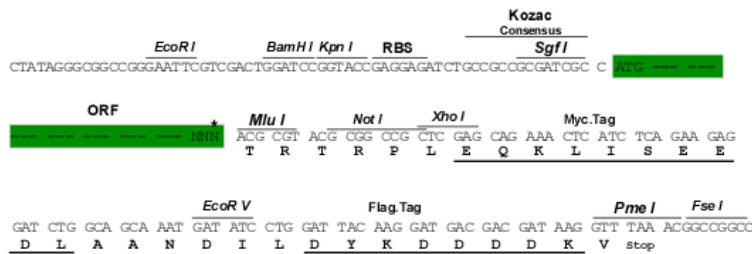
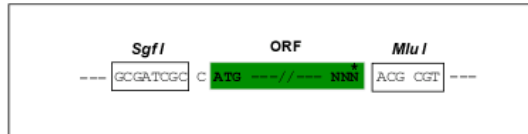
MHHQSVLHSGYFHPLLRWQTAASTVSASNLIYPIFVTDVDDVQPIASLPGVARYGVNQLEEMLRPLVE
 AGLRCVLIFGVPSRVPKDEQGSAAEDSPTIEAVRLLRKTFFSLLVACDVCLCPYTSHGHCGLLENGA
 FLAEE SRQLAEVALAYAKAGCQVVAPSDMMDGRVEAIKAALLKHGLGNRVSVMSYSAKFASCFYGPFRD
 AAQSSPAFGDRRCYQLPPGARGLALRAVARDIQEGADMLMVKPGLPYLDVMREVKDKHPELPLAVYQVSG
 EFAMLWHGAQAGAFDLRTAVLETMTAFRRAGADIITYFAPQLLKWLKEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001276446

ORF Size: 993 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_001276446.1](#), [NP_001263375.1](#)

RefSeq Size: 4447 bp

RefSeq ORF: 993 bp

Locus ID: 17025

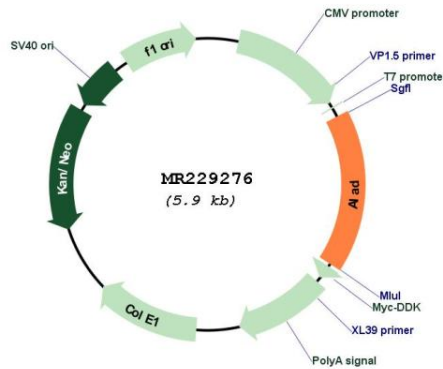
UniProt ID: [P10518](#)

Cytogenetics: 4 33.17 cM

MW: 36 kDa

Gene Summary: Catalyzes an early step in the biosynthesis of tetrapyrroles. Binds two molecules of 5-aminolevulinic acid per subunit, each at a distinct site, and catalyzes their condensation to form porphobilinogen (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR229276