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Product datasheet for MR204863

Alad (NM_008525) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Alad (NM_008525) 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:

>MR204863 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCACCACCAGTCTGTTCTGCACAGCGGCTACTTTCACCCACTGCTTCGGAGCTGGCAGACTGCTGCCT
CCACCGTCAGTGCCTCCAACCTCATCTATCCCATCTTTGTCACGGATGTTCCTGATGATGTCCAGCCTAT
CGCCAGCCTCCCAGGAGTGGCCAGGTATGGCGTAAACCAGCTAGAAGAGATGCTGAGACCTCTGGTGGAA
GCTGGCCTGCGCTGTGTCCTGATCTTTGGCGTCCCCAGCAGAGTTCCCAAGGATGAACAGGGCTCTGCAG
CTGACTCTGAGGACTCCCCAACTATTGAGGCTGTCCGTCTGCTGAGGAAGACCTTCCCTTCCCTCCTAGT
GGCCTGTGACGTCTGCTTGTGCCCCTACACCTCCCATGGCCACTGTGGCCTCCTGAGTGAAAATGGAGCA
TTCCTAGCAGAGGAGAGCCGACAGCGGTTGGCAGAGGTGGCACTGGCCTATGCCAAGGCAGGCTGTCAGG
TTGTAGCTCCGTCAGACATGATGGACGGACGAGTTGAGGCCATCAAGGCTGCCCTGCTAAAACATGGACT
TGGCAACAGGGTCTCTGTGATGAGCTATAGTGCCAAATTTGCCTCCTGTTTCTACGGTCCTTTCCGGGAT
GCAGCTCAGTCAAGCCCAGCTTTTGGAGACCGACGCTGTTATCAGCTGCCTCCTGGTGCCCGTGGCCTGG
CCCTCCGAGCAGTGGCCCGAGACATTCAAGAAGGAGCTGACATGCTCATGGTGAAGCCGGGATTGCCCTA
CCTGGACATGGTGCGAGAGGTGAAGGACAAGCACCCCGAGCTCCCCCTCGCAGTATACCAGGTGTCTGGA
GAGTTTGCCATGTTGTGGCACGGAGCCCAGGCCGGGGCCTTTGATCTCAGGACTGCTGTACTGGAGACCA
TGACGGCCTTCCGCAGAGCCGGTGCCGACATCATCATCACCTACTTTGCACCGCAGCTGTTGAAGTGGCT
GAAGGAAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

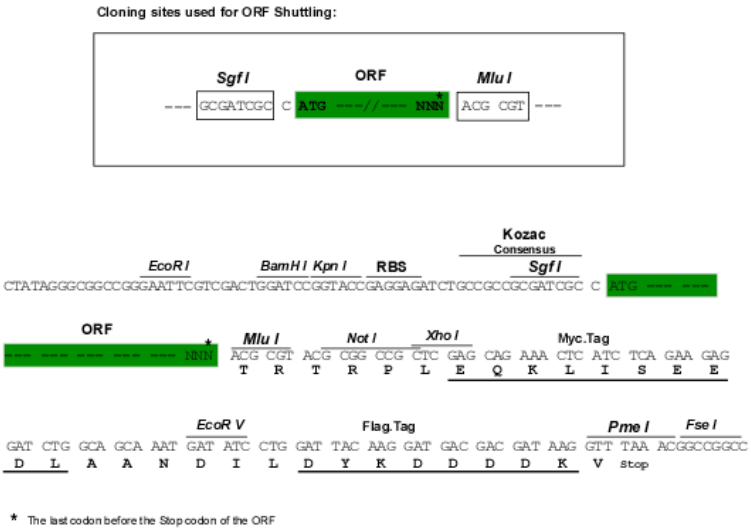
>MR204863 protein sequence
Red=Cloning site Green=Tags(s)

MHHQSVLHSGYFHPLLRSWQTAASTVSASNLIYPIFVTDVPDDVQPIASLPGVARYGVNQLEEMLRPLVE
AGLRCVLIFGVPSRVPKDEQGSAADSEDSPTIEAVRLLRKTFPSLLVACDVCLCPYTSHGHCGLLSENGA
FLAEESRQRLAEVALAYAKAGCQVVAPSDMMDGRVEAIKAALLKHGLGNRVSVMSYSAKFASCFYGPFRD
AAQSSPAFGDRRCYQLPPGARGLALRAVARDIQEGADMLMVKPGLPYLDMVREVKDKHPELPLAVYQVSG
EFAMLWHGAQAGAFDLRTAVLETMTAFRRAGADIIITYFAPQLLKWLKEE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008525

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_008525.4

RefSeq Size: 4536 bp

RefSeq ORF: 993 bp

Locus ID: 17025

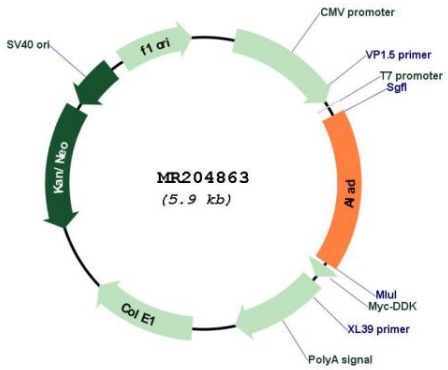
UniProt ID: P10518

Cytogenetics: 4 33.17 cM

MW: 36 kDa

Gene Summary: Catalyzes an early step in the biosynthesis of tetrapyrroles. Binds two molecules of 5-aminolevulinate 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 MR204863