

Product datasheet for **MG204863**

Alad (NM_008525) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Alad (NM_008525) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Alad
Synonyms: ALADH; Lv
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG204863 representing NM_008525
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCACCACCAGTCTGTTCTGCACAGCGGCTACTTTCACCCACTGCTTCGGAGCTGGCAGACTGCTGCCT
CCACCGTCAGTGCCTCCAACCTCATCTATCCCATCTTTGTACGGATGTTCTCTGATGATGCCAGCCTAT
CGCCAGCCTCCAGGAGTGGCCAGGTATGGCGTAAACCAGCTAGAAGAGATGCTGAGACCTCTGGTGAA
GCTGGCCTGCGCTGTGCTCTGATCTTTGGCGTCCCAGCAGAGTCCCAAGGATGAACAGGGCTCTGCAG
CTGACTCTGAGGACTCCCAACTATTGAGGCTGTCCGTCTGCTGAGGAAGACCTCCCTTCCCTCCTAGT
GGCCTGTGACGTCTGCTTGTGCCCTACACCTCCCATGGCCACTGTGGCCTCCTGAGTGAATGGAGCA
TTCTAGCAGAGGAGAGCCGACAGCGGTTGGCAGAGGTGGCACTGGCCTATGCCAAGGCAGGCTGTCAGG
TTGTAGCTCCGTGAGACATGATGGACGGACGAGTTGAGGCCATCAAGGCTGCCCTGCTAAAAATGGACT
TGGCAACAGGGTCTCTGTGATGAGCTATAGTGCCAAATTTGCCTCCTGTTTCTACGGTCTTTCCGGAT
GCAGCTCAGTCAAGCCAGCTTTTGGAGACCGACGCTGTTATCAGCTGCCTCCTGGTGCCCGTGGCCTGG
CCCTCCGAGCAGTGGCCGAGACATTCAAGAAGGAGCTGACATGCTCATGGTGAAGCCGGGATTGCCCTA
CCTGGACATGGTGCAGAGGTGAAGGACAAGCACCCGAGCTCCCCCTCGCAGTATACCAGGTGTCTGGA
GAGTTTGCATGTTGTGGCACGGAGCCAGGCCGGGCCCTTTGATCTCAGGACTGCTGTACTGGAGACCA
TGACGGCCTTCCGAGAGCCGGTGCCGACATCATCACCTACTTTGCACCGCAGCTGTTGAAGTGGCT
GAAGGAAGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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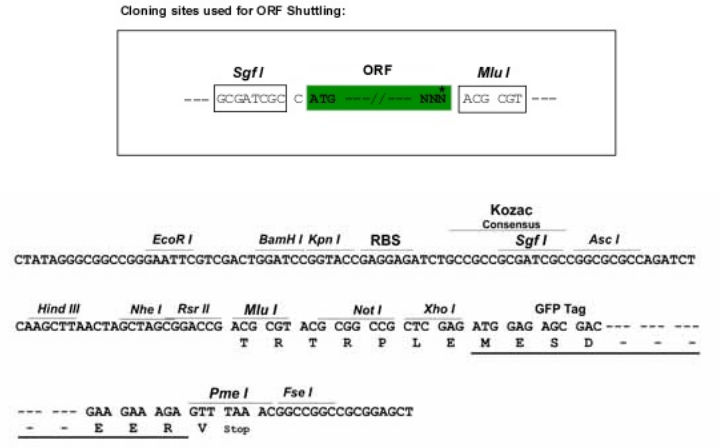
Protein Sequence: >MG204863 representing NM_008525
 Red=Cloning site Green=Tags(s)

MHHQSVLHSGYFHPLLRWQTAASTVVSASNLIIYPIFVTDVDPDDVQPIASLPGVARYGVNQLLEMLRPLVE
 AGLRCLVIFGVPSRVPKDEQGSAAEDSPTIEAVRLLRKTFFSLLVACDVCLCPYTSHGHCGLLSENGA
 FLAEEESRQRLAEVALAYAKAGCQVVAPSDMMDGRVEAIKAALLKHGLGNRVSVMSYSAKFASCFYGPFRD
 AAQSSPAFGDRRCYQLPPGARGLALRAVARDIQEGADMLMVKPLPYLDMVREVKDKHPELPLAVYQVSG
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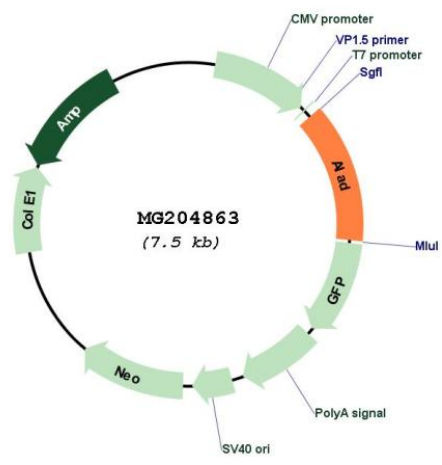
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_008525
ORF Size: 990 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:	<ol style="list-style-type: none">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:	1392 bp
RefSeq ORF:	993 bp
Locus ID:	17025
UniProt ID:	P10518
Cytogenetics:	4 33.17 cM
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]