

Product datasheet for **MG207802**

Aldh8a1 (NM_178713) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh8a1 (NM_178713) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Aldh8a1
Synonyms:	Raldh4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG207802 representing NM_178713
 Red=Cloning site Blue=ORF Green=Tags(s)

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TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGGAAAAAGGAACTTTTGATGTTGGAGAAGTTTATAGGTGGAAAGTTTTTACCCTGTAACATCAT
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CTCGTCTGAACAGGCTGGCTGATGTAAGGAGTCTCTGGAGGAGTTAGCTCAGGCAGAATCTAAAG
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CGTTCCTCCAACCTGCACCACGTATCGGAGTGCACACAGATGAGCCACCTGGGCTGATGCATTACACC
GTTCCGACCCCGTGGGAATTGCTGGTTTGATCAGCCCTTGAATTTACCACTCTACCTGCTGACCTGGA
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CCACAGCTGAACGGATTACCCAGCTCAGTGCCCCCCTGCAAGAAGCTTCCCTGGAGCTGGGAGGCAA
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GCTAACAGGGGGAGATCTGCCTTTGTACCAGTAGAATCTTTGTCCAGAGAAGCATCTACAGTGAATTC
TGAAGAGGTTTGTGGAAGCTACCAGAAAGTGGAAAGTTGGTGTTCCTTCTGACCCATCAGCCAACATGGG
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TTCCCACGGTGATAACAGACATTAAGGATGAGTCCCCTGCATGACGGAAGAGATCTTTGGTCCAGTGC
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AGAAGGAGCCAAGGACTCATATGACTTCTTTACTGAAATAAAAACCATTACCATTAAATAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA
  
```

Protein Sequence:

>MG207802 representing NM_178713
 Red=Cloning site Green=Tags(s)

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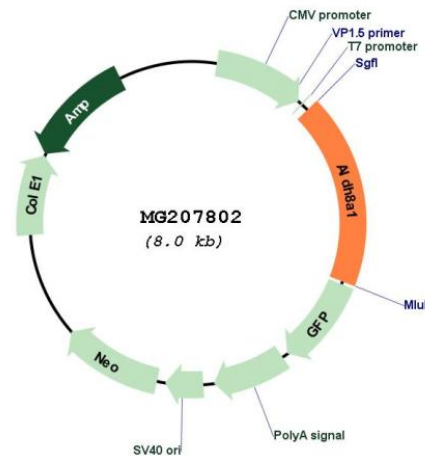
MAGKRELLMLENFIGGKFLPCNSYIDSYPSTGEVYCKVPNSGKEEIEAAVEAAREAFPWSSRSPQERS
LVLNRLADVLEQSLLELAQAESKDQKTLTLARTMDIPRVLNFRFFASSNLHHVSECTQMSHLGCMHYT
VRTPVGIAGLISPWNPLPLYLLTWKIAPAIAAGNTVIKPSSEMTSVTAWMFCKLLDKAGVPPGVINIVFGT
GPRVGEALVSHPEVPLISFTGSQPTAERITQLSAPHCKKLSLELGGKNPAIIFEDANLEECIPATVRSSF
ANQGEICLCTSRIFVQRSIYSEFLKRFVEATRKWKVGVPSDPSANMGALISKAHLEKVRSYVLKAQTGA
RILCGEGVDQLSLPLRNQAGYFMLPTVITDIKDESRCMTTEIFGPVTCVVPFDSEEVITRANSVRYGLA
ATVWSKDVGRIHRVAKKLQSGLVWNTCWLIRELNLPFGGMKSSGIGREGAKDSYDFFTEIKTITIKY
  
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TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_178713

ORF Size: 1461 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_178713.3](#)

RefSeq Size: 2243 bp

RefSeq ORF: 1464 bp

Locus ID: 237320

UniProt ID: [Q8BH00](#)

Cytogenetics: 10 A3

Gene Summary: Catalyzes the NAD-dependent oxidation of 2-aminomuconic semialdehyde of the kynurenine metabolic pathway in L-tryptophan degradation.[UniProtKB/Swiss-Prot Function]