

## Product datasheet for **MG220608**

### **Aldh18a1 (NM\_019698) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Aldh18a1 (NM_019698) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Aldh18a1
Synonyms:	2810433K04Rik; AI429789; Pycs
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG220608 representing NM\_019698  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGAGACACATGCACCGCTCTGGGGTCCAGCCCTTCAGGCAACGTCTTCTACCATGGGTCCAGTCCA  
 TAGCTGTGCCAGATCAAATCGTGTCCAGCCCTCAGCTATTAGACATGTTGTTCTTGGAGCAACATCCC  
 CTTTATCACGGTACCCCTCAGTCGTGCCACGGCAAGCCCTTTGCCACCGAAGTGAGCTGAAGCACGCC  
 AAGAGAATTGTAGTAAAACCGCAGTGGCGTGGTGACCAGAGGAGATGAGTGTGGCCTGGCACTGGGAC  
 GCCTGGCATCTATTGTTGAACAGGTCTCGGTGCTGCAGAATCAGGGCCGAGAGATGATGCTGGTACCAG  
 TGGAGCCGTCGCCTTCGGCAAACAGCGCTGCGCCATGAGATCCTTCTGTCTCAGAGCGTGGGCAAGCC  
 CTGCACTCAGGACAGAACCATCTGAAGGAGATGGCAATTCGGTCTTAGAGGCCGAGCCTGTGCAGCTG  
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 CTTGGTGACCAACCTGGATTTCCACGACGAGCAGAAGCGCAGAAATCTCAACGGCACCCCTCCACGAGCTG  
 CTCGCGATGAACATCGTCCCATCGTCAACACAAACGATGCCGTGTCCTCCAGCCGAGCCCAACAGTG  
 ATCTTCAGGGGGTAAATGTGATTAGTGTTAAGGATAATGATAGCCTGGCTGCCCGCTGGCCGTGGAGAT  
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 TGCCAACGGGACCCCAAAGGTGTCTGGGCAGTCAACACAGACATCGTGGAGGAAAGAAAGTTGGC  
 ACCTTCTTTTTCAGAAAGTGAAGCCTGTGGTCTACAGTGGAGCAGCAGGGGGAGATGGCTCGATCTGGTG  
 GGAGAATGCTGGCTACCTTAGAGCCTGAACAGAGAGCTGAAATTATCAATCATCTGGCTGACCTGTGAC  
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 CAGCCTCCTCACAGAGAGTGTAGGCCGCTCCTGCGCCGACTCGGATTGCCAAAAACCTGGAGTTAGA  
 ACAAGTACTGTCCCAATAGGTGTTTTACTGGTATCTTTGAGTCTCGCCCTGACTGTCTACCCAGGTG  
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 GCATTCTTACCTCCTGACCCAGGAGGCCCTCTCCATCCACGGAGTCAAGGAGGCCATACAGCTGGTAAA  
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 ATACCCAGCCGCCTGTAATGCCCTGGAGACGTTGCTTATCCACCGAGATCTGCTGAGAACACCCCTATTT  
 GACCAGATCATTGACATGCTCCGAGTGGAAACAGGTAAAAATTACGCAGGCCCAAGTTTGCCTCTACC  
 TGACCTTCAGCCCTCAGAAGTGAAGTCACTCCGACGGAGTACGGGACCTGGAAGTGTGATTGAAGT  
 GGTGGACAGCGTCCAGGAAGCCATTGATCACATCCATAAGTACGGCAGCTCTCACACAGATGTCATCGTC  
 ACCGAGAACGAGAAAACAGCGGAGTTCTTCTCCAGCATGTGGACAGCGCCTGTGTCTTCTGGAACGCCA  
 GTACTCGTCTCTGATGGTACCGCTTTGGACTGGGAGCTGAAGTTGGAATCAGCACATCTCGAATCCA  
 CGCCCGGGGACCAGTAGGACTTGAGGGATTGCTAACTACAAAGTGGTTGCTTCGAGGGCAAGACCAGCTG  
 GTCTCGGACTTCTCCGAGCACGGAAGCCTCAAGTATCTTACGAGAATCTCCCTGTTCCCCAGAGAAATT  
 TCAGC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >MG220608 representing NM\_019698  
 Red=Cloning site Green=Tags(s)

```
MLRHMHRSGVQPFQRLLPWVQSIAPRSNRVQPSAIRHVRWSNIPFITVPLSRAHGKPFahrSELKHA
KRIVVKLGSAVVTRGDEGLALGRLASIVEQVSVLQNGREMMLVTSGAVAFGKQRLRHEILLSQSVRQA
LHSGQNHLKEMAIIPVLEARACAAAGQSGLMALYEAMFTQYSICAAQILVTNLDHFDEQKRRNLNGTLHEL
LRMNIPIVNTNDVAVPPAEPNSDLQGVNVISVKDNDLSAARLAVEMKTDLLIVLSDVEGLFDSPPGSDD
AKLIDIFYPGDQQSVTFGTKSRVGLGGMEAKVKAALWALQGGTSVVIANGTHPKVSGHVITDIVEGKKVG
TFFSEVKPAGPTVEQQGEMARSGGRMLATLEPEQRAEIIINHLADLLTDQREEILLANKKDLEEAEGLAS
PLLKRLSLSTSKLNSLAIGLRQIAASSQESVGRVLRRTRIAKNLELEQVTVPVIGVLLVIFESRPDCLPQV
AALAIASGNGLLLKGGKEAAHSNRILHLLTQEALSIHGVEAIQLVNTREEVEDLCRLDKIIDLIIPRGS
SQLVRDIQKAAGIPVMGHSEGIChMYVDSEASVDKVTRLVRDSKCEYPAACNALETLIIHRDLLRTPLF
DQIIDMLRVEQVKIHAGPKFASYLTFSPSEVKSRLRTEYGDLEVCIEVVDSVQEAIDHIIHKYGSSTHDVIV
TENEKTAEFFLQHVDSACVFNASTRFSDGYRFLGAEVGIStSRIHARGPVGLEGLLTTKWLRLRGQDHV
VSDFSEHGSLKYLHENLPVQRNFS
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI



**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\\_019698.2](#), [NP\\_062672.2](#)

**RefSeq Size:** 3544 bp

**RefSeq ORF:** 2388 bp

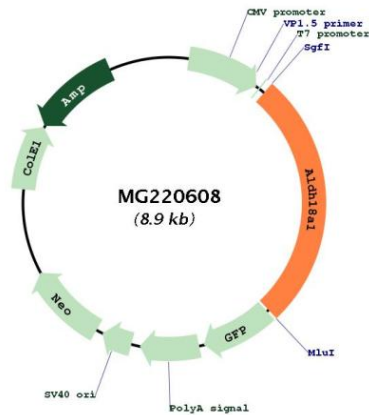
**Locus ID:** 56454

**UniProt ID:** [Q9Z110](#)

**Cytogenetics:** 19 C3

**Gene Summary:** Bifunctional enzyme that converts glutamate to glutamate 5-semialdehyde, an intermediate in the biosynthesis of proline, ornithine and arginine.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG220608