

## Product datasheet for **MG211118**

### **Aldh1l1 (BC030722) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Aldh1l1 (BC030722) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Aldh1l1
Synonyms:	1810048F20Rik; FDH; Fthfd; Neut2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG211118 representing BC030722  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAGATTGCAGTAATCGGGCAGAGCCTGTTTGCCAGGAGTTTACTGCCAGCTAAGGAAGGAGGGCC  
 ATGAGGTGGTGGGTGTGTTACCCATCCCAGACAAGGATGGGAAAGCAGATCCCCTGGGCCTGGAGGCCGA  
 GAAGGATGGCGTGCCCGTGTAAAGTTCCTCGGTGGCGGGCTCGAGGACAGGCTCTGCCGAGGTCGTG  
 GCCAAGTACCAGGCTCTGGGTGCAGAACTCAACGTGCTCCCCTTCTGCAGCCAGTTCATACCCATGGAGG  
 TCATCAATGCCCCCGGCATGGCTCCATCATCTACCATCCATCTCTGCTGCCAGGCACCGAGGGCCCTC  
 AGCCATCAACTGGACCCTCATTTCATGGAGATAAGAAAGGAGGCTTCACTATCTTCTGGGCTGATGACGGT  
 CTGGACTGGTACCTTCTGCTGCAGAAGGAGTGTGACGTGCTCCAGATGACACCGTGAGCACGCTGT  
 ACAACCGTTTCTTCCAGAGGGCATCAAAGGATGGTTGAGGCTGTGCGACTGATTGCAGAGGGCAC  
 AGCCCCACGCCGTCCCCAGCCTGAGGAAGGAGCCACCTATGAGGGCATTAGAAAAAGGAGACAGCCATG  
 ATCAACTGGGACCAGCCAGCAGAGGCCATTCACAACTGGATCCGTGGGAATGACAAGGTGCCAGGTGCCCT  
 GGACAGAGGCTTGTGGGAGAAGCTGACGTTTTTCAACTCGACACTCAACACTTCAGGACTGGTGGCTCA  
 GGGAGAAGCTCTACCCATCCCAGGAGCCATCGTCCAGGCCTAGTCACCAAAGCGGGACTCATCCTCTTT  
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 AGCGAAGGAGGCCCTTGGAGAATGGACTGTGGGAAAGATAAATGCGCGTGACCGGGGCGGCTCTGTAC  
 AGGTTGGCGGACCTCATGGAGCAGCACCAGGAAGAGCTAGCCACCATTGAGGCCCTGGACGAGGTGCCG  
 TCTACACGCTGGCCCTGAAGACGCATGTGGCATGTCCATCCAGACCTCCGATACTTCGCTGGCTGGT  
 TGATAAGATCCAGGTGCCACCATCCCCATCAACCAGGCTAGACCAACCGCAACCTGACCTTGACCAAG  
 AAGGAACCTGTTGGGGTCTGTGGTATTGTATCCCTGGAATATCCCTAATGATGCTGTCTTGAAGA  
 CAGCAGCCTGCCTGGCTGCCGGGAACACCGTGGTATCAAGCCTGCCAGGTGACCCCACTCACAGCCTT  
 GAAGTTTGCAGAGCTGACACTGAAGGCTGGCATTCCAAGGGTGTGGTCAACATCCTCCCAGGATCTGGC  
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 CGGGATATCAACAAGGCCCTGTATGTGAGTACAACTGCAGGCGGGCACTGTGTTTGTCAACACATACA  
 ACAAGACCGATGTGGCCGACCTTTTGGAGGATCAAGCAGTCTGGATTTGGCAAAGACCTGGGAGAGGC  
 GGCCTGAATGAGTACCTGCGGATCAAGACTGTGACTTTTGTAGTAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - **GTTTAA**

**Protein Sequence:** >MG211118 representing BC030722  
 Red=Cloning site Green=Tags(s)

MKIAVIGQSLFGQEVYQCQRKEGHEVVGVTIPDKDGKADPLGLEAEKDGVPVFKFPRWRARGQALPEVV  
 AKYQALGAELNVLPFCSQFIPMEVINAPRHGSIYHPSLLPRHRGASAINWTLIHGDKKGGFTIFWADDG  
 LDTGDLQLQKCEDVLPDDTVSTLYNRFLFPEGIKGMVQAVRLIAEGTAPRRPQPEEGATYEGIQKKEAM  
 INWDQPAEAIHNWIRGNDKVPGAWTEACGQKLTFFNSTLNTSGLVAQGEALPIPGAHRPGLVTKAGLILF  
 GNDDRMLLVKNIQLEDGKMMPASQFFKGSASSALEL TEEELATAEAVRSSWMRILPNVPEVEDSTDFFKS  
 GAASVDVVRVVEEVKELCDGLELENEVYMATTFGDFIQLLVRKLRGEDGESECVINYEKAVKKLTLQM  
 PYQLFIGGEFVDAEGAKTYSTINPTDGSVICQVSLAQVSDVDKAVAAAKEAFENGLWGKINARDGRLLY  
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 KEPVGVCGIVIPWNYPLMMLSWKTAACLAAGNTVVIKPAQVTPLTALKFAELTLKAGIPKGVNINILPGSG  
 SLVGQRLSDHPDVRKIGFTGSTEVGKHIMKSCALSNVKKVSELELGGKSPILIFADCDLNKAVQMGMSVF  
 FNKGENCIAAGRLFVEDSIHQFVQKVVEEVGKMKIGNPLDRDNTNHPQNHEAHLRKLVEYQGRVKEGA  
 TLVCGGNQVPRPGFFQPTVFTDVEDHMYIAKEESFGPIMIISRFADGDVDAVLSRANATEFGLASGVFT  
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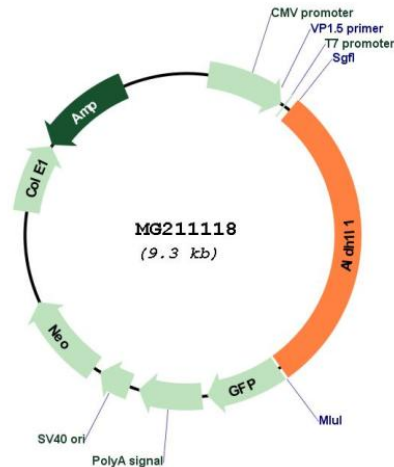
TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** BC030722

**ORF Size:** 2706 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:** [BC030722.1](#)

**RefSeq Size:** 3095 bp

**RefSeq ORF:** 2708 bp

**Locus ID:** 107747

**Cytogenetics:** 6 D1