

Product datasheet for **MG211117**

Aldh1l1 (NM_027406) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aldh1l1 (NM_027406) 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:

>MG211117 representing NM_027406
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGATTGCAGTAATCGGGCAGAGCCTGTTTGCCAGGAGTTTACTGCCAGCTAAGGAAGGAGGGCC
 ATGAGGTGGTGGGTGTGTTACCCATCCCAGACAAGGATGGGAAAGCAGATCCCCTGGGCCTGGAGGCCGA
 GAAGGATGGCGTGCCCGTGTAAAGTTCCTCGGTGGCGGGCTCGAGGACAGGCTCTGCCGAGGTCGTG
 GCCAAGTACCAGGCTCTGGGTGCAGAACTCAACGTGCTCCCTTCTGCAGCCAGTTCATACCCATGGAGG
 TCATCAATGCCCCCGGCATGGCTCCATCATCTACCATCCATCTCTGCTGCCAGGCACCGAGGGCCCTC
 AGCCATCAACTGGACCCTCATTTCATGGAGATAAGAAAGGAGGCTTCACTATCTTCTGGGCTGATGACGGT
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 GGACAGAGGCTTGTGGGAGAAGCTGACGTTTTTCAACTCGACACTCAACTTCAAGACTGGTGGCTCA
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 CCTACCAGCTCTTATAGGCGCGAGTTTGTGGATGCTGAGGGCGCAAGACCTACAGTACCATAAACC
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 AAGGAACCTGTTGGGGTCTGTGGTATTGTATCCCTGGAATATCCCTAATGATGCTGTCTTGAAGA
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 ACAAGACCGATGTGGCCGACCTTTTGGAGGATTCAAGCAGTCTGGATTTGGCAAAGACCTGGGAGAGGC
 GGCCTGAATGAGTACCTGCGGATCAAGACTGTGACTTTTGTAGTAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – **GTTTAA**

Protein Sequence: >MG211117 representing NM_027406
 Red=Cloning site Green=Tags(s)

MKIAVIGQSLFGQEVYQCQRKEGHEVVGVTIPDKDGKADPLGLEAEKDGVPVFKFPRWRARGQALPEVV
 AKYQALGAELNVLPFCSQFIPMEVINAPRHGSIYHPSLLPRHRGASAINWTLIHGDKKGGFTIFWADDG
 LDTGDLQLQKCEDVLPDDTVSTLYNRFLFPEGIKGMVQAVRLIAEGTAPRRPQPEEGATYEGIQKKEAM
 INWDQPAEAIHNWIRGNDKVPGAWTEACGQKLTFFNSTLNTSGLVAQGEALPIPGAHRPGLVTKAGLILF
 GNDDRMLLVKNIQLEDGKMMPASQFFKGSASSALEL TEEELATAEAVRSSWMRILPNVPEVEDSTDFFKS
 GAASVDVVRVVEEVKELCDGLELENEDVYMATTFGDFIQLLVRKLRGEDGESECVINYVEKAVKKLTLQM
 PYQLFIGGEFVDAEGAKTYSTINPTDGSVICQVSLAQVSDVDKAVAAAKEAFENGLWGKINARDGRLLY
 RLADLMEHQEELATIEALDAGAVYTLALKTHVGMISITFRYFAGWCDKIQGATIPINQARPNRNLTLTK
 KEPVGVCGIIVIPWNYPLMMLSWKTAACLAAGNTVVIKPAQVTPLTALKFAELTLKAGIPKGVNINILPGSG
 SLVGQRLSDHPDVRKIGFTGSTEVGKHIMKSCALSNVKKVSELELGGKSPLIIFADCDLNKAVQMGMSVF
 FNKGENCIAAGRLFVEDSIHQFVQKVVEEVGKMKIGNPLDRDNTNHPQNHEAHLRKLVEYQGRVKEGA
 TLVCGGNQVPRPGFFQPTVFTDVEDHMYIAKEESFGPIMIISRFADGDVDAVLSRANATEFGLASGVFT
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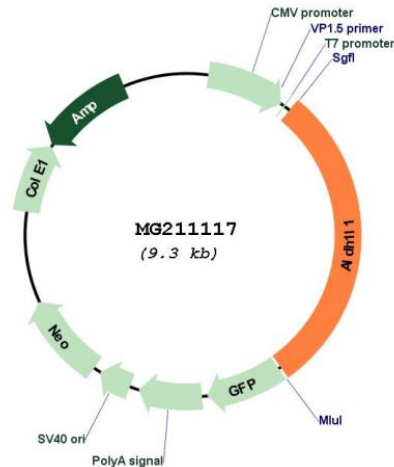
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_027406

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: [NM_027406.2](#)

RefSeq Size: 3098 bp

RefSeq ORF: 2709 bp

Locus ID: 107747

UniProt ID: [Q8R0Y6](#)

Cytogenetics: 6 D1