

Product datasheet for **RG201125**

ALDH3B2 (NM_001031615) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ALDH3B2 (NM_001031615) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ALDH3B2
Synonyms: ALDH8
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG201125 representing NM_001031615
 Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGGCGGCC

ATGAAGGATGAACCACGGTCCACGAACCTGTTTCATGAAGCTGGACTCGGTCTTCATCTGGAAGGAACCTT
 TTGGCCTGGTCTCATCATCGCACCTGGAACCTACCCACTGAACCTGACCCTGGTCTCTGGTGGGCGC
 CCTCGCCCGAGGGAGTTGCGTGGTCTGAAGCCGTGAGAAATCAGCCAGGGCACAGAGAAGGTCCTGGCT
 GAGGTGCTGCCCCAGTACCTGGACCAGAGCTGCTTTGCCGTGGTCTGGGCGGACCCAGGAGACAGGGC
 AGCTGCTAGAGCACAAGTTGGACTACATCTTCTCACAGGGAGCCCTCGTGTGGCAAGATTGTCATGAC
 TGCTGCCACCAAGCACCTGACGCTGTACCCCTGGAGCTGGGGGCAAGAACCCCTGCTACGTGGACGAC
 AACTGCGACCCCCAGACCGTGGCCAACCGCGTGGCCTGTTCTGCTACTTCAATGCCGGCCAGACCTGCG
 TGGCCCTGACTACGTCTGTGCAGCCCCGAGATGCAGGAGAGGCTGCTGCCCGCCTGCAGAGCACCAT
 CACCCGTTTCTATGGCGACGACCCCCAGAGCTCCCCAACCTGGGCCGCATCATCAACCAGAAACAGTTC
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 ACATCGCCCCACGGTGTGGTGGACGTGCAGGAGACGGAGCCTGTGATGCAGGAGGAGATCTTCGGGCC
 CATCCTGCCCATCGTGAACGTGCAGAGCGTGGACGAGGCCATCAAGTTCATCAACTGGCAGGAGAAGCCC
 CTGGCCCTGTACGCTTCTCCAACAGCAGCCAGGTTGTGAACAGATGCTGGAGCGGACCCAGCAGCGGCA
 GCTTTGGAGGCAATGAGGGCTTACCTACATATCTCTGCTGCTGCCATTGGGGGAGTCGGCCACAG
 TGGGATGGGCCGGTACCACGGCAAGTTCACCTTCGACACCTTCTCCACCACCGCACCTGCCTGCTCGCC
 CCCTCCGGCCTGGAGAAATTAAGGAGATCCACTACCCACCTATACCGACTGGAACCAGCAGCTGTTAC
 GCTGGGCATGGGCTCCAGAGCTGTACCCTCCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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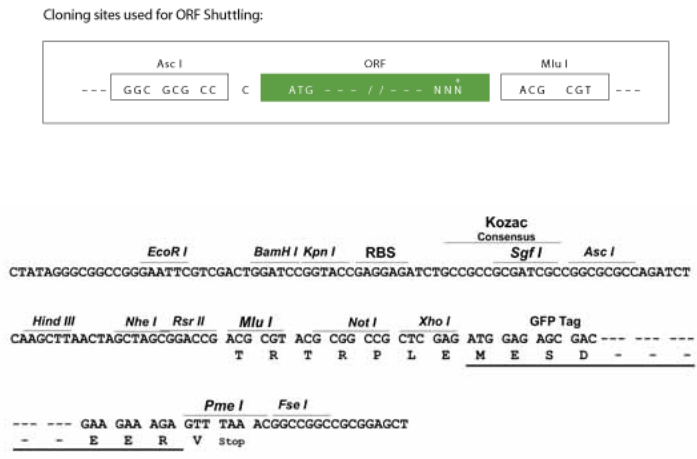
Protein Sequence: >RG201125 representing NM_001031615
 Red=Cloning site Green=Tags(s)

MKDEPRSTNLFMKLDSVFIWKEPFGLVLIAPWNYPLNLTLLVLLVGALAAGSCVVLKPEISQGTEKVLAEVLPQYLDQSCFAVVLGGPQETGQLLEHKLDYIFFTGSPRVGKI VMTAATKHLTPVTLELGGKNPCYVDDNCDPQTVANRVAWFCYFNAGQTCVAPDYVLCSPEMQERLLPALQSTITRFYGDDPQSSPNLGRINQKQFQRLRALLGCGRVAIGGQSNESDRYIAPTVLVDVQETEPVMQEEIFGPILPIVNVQSVDEAIKFINWQEKPLALYAFSNSSQVVNQLERTSSGSFGGNEGFTYISLLSVPFGGVGHSGMGRYHGKFTFDTFSHHRTCLLAPSGLEKLKEIHYPPTYDWNQQLLRWGMGSQSCTLL

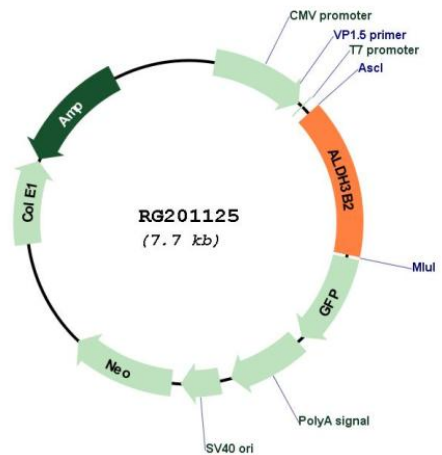
TRTRPLE - GFP Tag - V

Restriction Sites: AscI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001031615

ORF Size:	1155 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_001031615.1 , NP_001026786.1
RefSeq Size:	2504 bp
RefSeq ORF:	1158 bp
Locus ID:	222
Cytogenetics:	11q13.2
Protein Families:	Druggable Genome
Protein Pathways:	Drug metabolism - cytochrome P450, Glycolysis / Gluconeogenesis, Histidine metabolism, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Phenylalanine metabolism, Tyrosine metabolism
Gene Summary:	This gene encodes a member of the aldehyde dehydrogenase family, a group of isozymes that may play a major role in the detoxification of aldehydes generated by alcohol metabolism and lipid peroxidation. The gene of this particular family member is over 10 kb in length. Altered methylation patterns at this locus have been observed in spermatozoa derived from patients exhibiting reduced fecundity. [provided by RefSeq, Aug 2017]