

Product datasheet for **RG237520**

ADH1B (NM_001286650) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | ADH1B (NM_001286650) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | ADH1B |
| Synonyms: | ADH2; HEL-S-117 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG237520 representing NM_001286650. Blue=ORF Red=Cloning site Green=Tag(s) |

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GCTCGTTTGTAGTAACCGTCAGAATTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGTGGCTGTAGGAATCTGTACACAGATGACCACGTGGTTAGTGGCAACCTGGTGACCCCTTCTCT
GTGATTTTAGGCCATGAGGCAGCCGGCATCGTGGAGAGTGTGGAGAAGGGGTGACTACAGTCAAACCA
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GGAGGGTTCGGCCTATCTGCTGTTATGGCTGTAAAGCAGCTGGAGCAGCCAGAATCATTGCGGTGGAC
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GGGTACCTCTGCTTCCAGAACCTCTCAATAAACCTATGCTGCTACTGACTGGACGCACCTGGAAG
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AAGTTTTCACTGGATGCGTTAATAACCCATGTTTTACCTTTTGAAAAAATAAATGAAGGATTTGACCTG
CTTCACTCTGGGAAAAGTATCCGTACCGTCCCTGACGTTT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237520
 Blue=ORF Red=Cloning site Green=Tag(s)

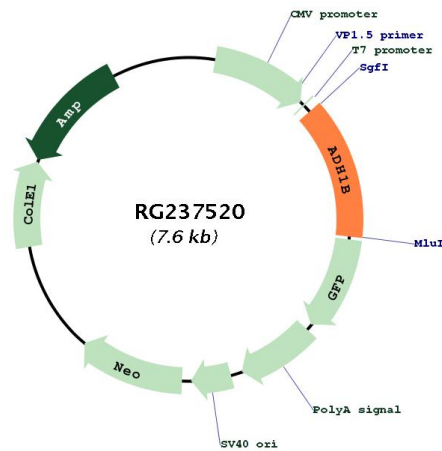
MVAVGICHTDHVVSGNLVTPLPVILGHEAAGIVESVGEVTTVKPGDKVIPLFTPQCGKCRVCKNPES
 NYCLKNDLGNPRGTLQDGTRRFTCRGKPIHHFLGTSTFSQYTVVDENAVAKIDAASPLEKVCLIGCGFS
 TGYGSAVNVAKVTPGSTCAVFLGGVGLSAVMGCKAAGAARIIVDINKDKFAKAKELGATECINPQDY
 KKPIQEVLKEMTDGGVDFSEFVIGRLDTMMASLLCCHEACGTSVIVGVPPASQNLINPMLLLTGRTWK
 GAVYGGFKSKEGIPKLVADFMAKKFSLDALITHVLPFEKINEGFDLLHSGKSIRTVLT
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001286650

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|--------------------------|---|
| ORF Size: | 1005 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). |
| RefSeq: | NM_001286650.2 |
| RefSeq Size: | 2829 bp |
| RefSeq ORF: | 1008 bp |
| Locus ID: | 125 |
| UniProt ID: | P00325 |
| Cytogenetics: | 4q23 |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Drug metabolism - cytochrome P450, Fatty acid metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Retinol metabolism, Tyrosine metabolism |
| MW: | 35.8 kDa |
| Gene Summary: | The protein encoded by this gene is a member of the alcohol dehydrogenase family. Members of this enzyme family metabolize a wide variety of substrates, including ethanol, retinol, other aliphatic alcohols, hydroxysteroids, and lipid peroxidation products. This encoded protein, consisting of several homo- and heterodimers of alpha, beta, and gamma subunits, exhibits high activity for ethanol oxidation and plays a major role in ethanol catabolism. Three genes encoding alpha, beta and gamma subunits are tandemly organized in a genomic segment as a gene cluster. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2013] |