

Product datasheet for **RG209616**

ADH1C (NM_000669) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADH1C (NM_000669) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ADH1C
Synonyms:	ADH3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209616 representing NM_000669 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCACAGCAGGAAAAGTAATCAAATGCAAAGCAGCTGTGCTATGGGAGTTAAAGAAACCCCTTTTCCA
TTGAGGAGGTAGAGGTTGCACCTCCTAAGGCTCATGAAGTTCGCATTAAGATGGTGGCTGCAGGAATCTG
TCGTTTCAGATGAGCATGTGGTTAGTGGCAACCTGGTGACCCCTTCTGTGATTTTAGGCCATGAGGCA
GCCGGCATCGTGGAAAGTGTGGAGAAGGGGTGACTACAGTCAAACCAGGTGATAAAGTCATCCCGCTCT
TTACTCCTCAGTGTGAAAATGCAGAATTTGCAAAAACCCAGAAAGCACTACTGCTTAAAAATGATCT
AGGCAATCCTCGGGGACCTGCAGGATGGCACCAGGAGGTTACCTGCAGCGGGAAGCCATCCACCAC
TTCGTCGGCGTCAGCACCTTCTCCAGTACACAGTGGTGGATGAGAATGCAGTAGCCAAAATGATGCAG
CCTCGCCCTGGAGAAAGTCTGCCTCATTGGCTGTGGATTTTCGACTGGTTATGGGTCTGCAGTCAAAGT
TGCCAAGGTCACCCAGGGTCTACCTGTGCTGTGTTTGGCCTGGGAGGGTTCGGCCTATCTGTTGTTATG
GGCTGTAAGCAGCTGGAGCAGCCAGAATCATTGCTGTGGACATCAACAAGGACAAAATTTGCAAAGGCTA
AAGAGTTGGGTGCCACTGAATGCATCAACCCTCAAGACTACAAGAAACCCATTGAGGAAGTGCTAAAGGA
AATGACTGATGGAGGTGTGGATTTTTCGTTTGAAGTCATCGGTCAGCTTGACACCATGATGGCTTCCCTG
TTATGTTGTCATGAGGCATGTGGCACAAGTGTGCTATTGTAGGGGTACCTCCTGATCCGAAACCTCTCAA
TAAACCCTATGCTGCTACTGACTGGACGACGTCGAAAGGAGCTATTTTGGAGGCTTAAAGAGTAAAGA
ATCTGTCCCAAACCTGTGGCTGACTTTATGGCTAAGAAGTTTTCACTGGATGCATTAATAACAAATGTT
TTACCTTTTGA AAAAATAAATGAAGATTTGACCTGCTTCGCTCTGGAAAGAGTATCCGTACCGTCTCTGA
CGTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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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_000669.3](#), [NP_000660.1](#)

RefSeq Size: 1497 bp

RefSeq ORF: 1128 bp

Locus ID: 126

UniProt ID: [P00326](#)

Cytogenetics: 4q23

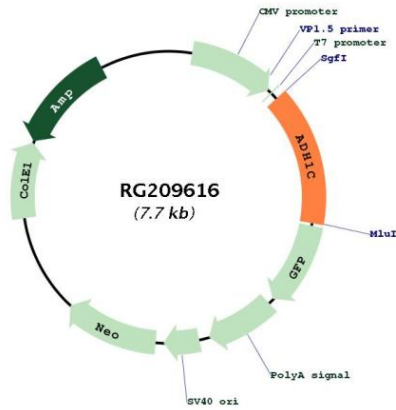
Domains: ADH_zinc_N

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

Gene Summary: This gene encodes class I alcohol dehydrogenase, gamma subunit, which 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. Class I alcohol dehydrogenase, consisting of several homo- and heterodimers of alpha, beta, and gamma subunits, exhibits high activity for ethanol oxidation to acetaldehyde, thus playing 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. An association between ADH1C polymorphism and alcohol dependence has not been established. [provided by RefSeq, Sep 2019]

Product images:



Circular map for RG209616