

Product datasheet for RC215367

Alcohol Dehydrogenase (ADH1A) (NM_000667) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Alcohol Dehydrogenase (ADH1A) (NM_000667) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Alcohol Dehydrogenase
Synonyms:	ADH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215367 representing NM_000667 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCACAGCAGGAAAAGTAATCAAATGCAAAGCAGCTGTGCTATGGGAGTTAAAGAAACCCCTTTTCCA
TTGAGGAGGTAGAGGTTGCACCTCCTAAGGCTCATGAAGTTCGCATTAAGATGGTGGCTGCAGGAATCTG
TCGTTCCAGATGAGCATGTGGTTAGTGGCAACCTGGTGACCCCTTCTGTGATTTAGGCCATGAGGCA
GCCGGCATCGTGGAAAGTGTGGAGAAGGGGTGACTACAGTCAAACCAGGTGATAAAGTCATCCCGCTCT
TTACTCCTCAGTGTGAAAATGCAGAATTTGTA AAAACCCAGAAAGCAACTACTGCTTAAAAATGATCT
AGGCAATCCTCGGGGACCTGCAGGATGGCACCAGGAGGTTACCTGCAGCGGGAAGCCATCCACCAC
TTCGTCGGCGTCAGCACCTTCTCCAGTACACGGTGGTGGATGAGAATGCAGTGGCCAAAATGATGCAG
CCTCGCCCTGGAGAAAGTCTGCCTCATTGGCTGTGGATTTTCGACTGGTTATGGGTCTGCAGTCAAGGT
TGCCAAGGTACCCCAGGGTCTACCTGTGCTGTGTTTGGCCTGGGAGGGTTCGGCCTATCTGTTGTTATG
GGCTGTAAGCAGCTGGAGCAGCCAGAATCATTGCTGTGGACATCAACAAGGACAAATTTGCAAAGGCTA
AAGAGTTGGGTGCCACTGAATGCATCAACCCTCAAGACTACAAGAAACCCATTGAGGAAGTGCTAAAGGA
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TGTTT

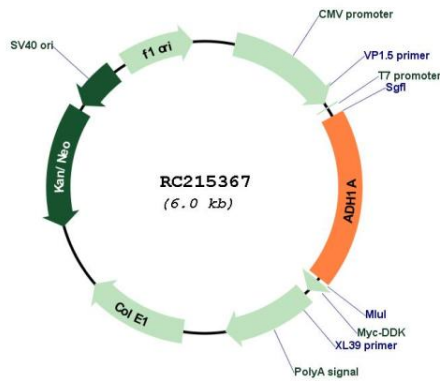
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ACAAGGATGACGACGATAAGGTTTAA



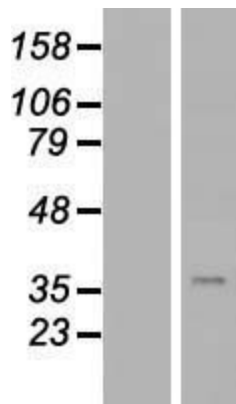
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Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex 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 Size:	1456 bp
RefSeq ORF:	1128 bp
Locus ID:	124
UniProt ID:	P07327
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
MW:	39.7 kDa
Gene Summary:	This gene encodes a member of the alcohol dehydrogenase family. The encoded protein is the alpha subunit of class I alcohol dehydrogenase, which consists of several homo- and heterodimers of alpha, beta and gamma subunits. Alcohol dehydrogenases catalyze the oxidation of alcohols to aldehydes. This gene is active in the liver in early fetal life but only weakly active in adult liver. This gene is found in a cluster with six additional alcohol dehydrogenase genes, including those encoding the beta and gamma subunits, on the long arm of chromosome 4. Mutations in this gene may contribute to variation in certain personality traits and substance dependence. [provided by RefSeq, Nov 2010]

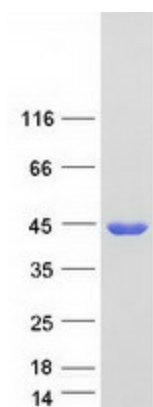
Product images:



Circular map for RC215367



Western blot validation of overexpression lysate (Cat# [LY424579]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215367 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ADH1A protein (Cat# [TP315367]). The protein was produced from HEK293T cells transfected with ADH1A cDNA clone (Cat# RC215367) using MegaTran 2.0 (Cat# [TT210002]).