

Product datasheet for RC219515

ADH6 (NM_001102470) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADH6 (NM_001102470) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ADH6
Synonyms:	ADH-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC219515 representing NM_001102470 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTACTACAGGCCAAGTCATCAGATGCAAAGCAGCCATACTCTGGAAGCCTGGTGCACCATTTTCTA
TTGAAGAGGTAGAAGTGGCCCCACAAAGGCAAAGGAAGTTCGCATAAAGGTTGTGGCCACCGGACTGTG
TGGTACAGAGATGAAAGTGTGGGGAGTAAACACTTGGACCTCTGTATCCCACCATCTTGGCCATGAA
GGGGCTGGAATCGTTGAGAGTATTGGAGAAGGAGTAAGCACAGTGAACCAGGTGACAAAAGTTATCACAC
TCTTTCTGCCACAGTGTGGAGAATGTACCTCTGCCTGAATTCGAGGGCAATTTTGTATACAATTCAA
ACAGTCAAAAACCAACTGATGTCTGATGGTACCAGCAGTTTACCTGCAAGGGAAAATCAATATATCAC
TTTGTAATACCAGCACCTTCTGTGAATACACAGTGATAAAGGAAATCTCAGTTGCCAAGATTGATGCAG
TCGCTCCTCTAGAGAAAGTATGCCTAATTAGCTGTGGCTTTTCCACTGGGTTTGGTGTGCAATCAATAC
TGCCAAGGTGACTCCAGGTTCTACCTGTGCTGTGTTTGGCCTGGGAGGAGTCGGCTTGTCTGTTGTCATG
GGTTGTAAGCAGCAGGAGCAGCCAGGATCATTGGAGTGGATGTCAACAAGGAGAAATTTAAGAAGGCAC
AGGAATTGGGTGCTACTGAGTGCCTCAACCCTCAGGACTTAAAGAAACCCATTCAAGAAGTTTTATTTGA
TATGACAGATGCTGGTATAGACTTCTGCTTTGAGGCCATTGAAATCTGGACGTTCTGGCAGCTGCCCTC
GCCTCCTGCAATGAGAGCTATGGGTCTGTGTTGTTGGGGTGTGCCTGCCAGTGTCAACTCAAAA
TCAGTGGCCAGTTGTTCTTCTCAGGACGTTCTTTGAAGGTTCTGTTTTGGAGGCTGGAAGAGCAGACA
GCACATCCCTAAACTGGTTGCTGATTATATGGCAGAGAAGTTGAATCTAGATCCACTAATTACTCATACT
CTGAATCTTGATAAAAATCAATGAAGCAGTTGAATTAATGAAAACCTGGAAAATGTATCCGCTGTATCCTGT
TACTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC219515 representing NM_001102470
Red=Cloning site Green=Tags(s)

MSTTGQVIRCKAAILWKPAPFSIEEVEVAPPKAKEVRIKVVATGLCGTEMKVLGSKHLDLLYPTILGHE
 GAGIVESIGEGVSTVKPGDKVITLFLPQCGETSCLNSEGNFCIQFKQSKTQLMSDGTSRFTCKGKSIYH
 FGNTSTFCEYTVIKEISVAKIDAVAPLEKVCLISCGFSTGFGAAINTAKVTPGSTCAVFGGLGGVGLSVVM
 GCKAAGAARIIGVDVNEKEFKKAQELGATECLNPQDLKKPIQEVLFDMTDAGIDFCFEAIGNLDVLAAL
 ASCNESYGVCVVVGVLPAVSLKISGQLFFSGRSLKGSVFGGWKSRQHIPKLVADYMAEKLNDPLITH
 LNLDKINEAVELMKTGKCIRCILL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8019_c06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001102470

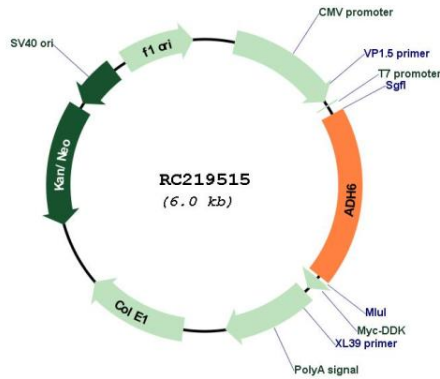
ORF Size: 1125 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

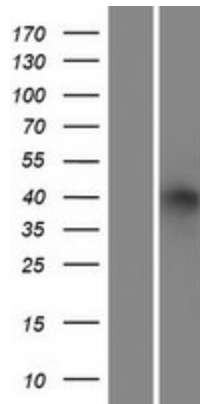
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001102470.2
RefSeq Size:	2803 bp
RefSeq ORF:	1128 bp
Locus ID:	130
UniProt ID:	P28332
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:	39.6 kDa
Gene Summary:	This gene encodes class V alcohol dehydrogenase, which is a member of the alcohol dehydrogenase family. Members of this family metabolize a wide variety of substrates, including ethanol, retinol, other aliphatic alcohols, hydroxysteroids, and lipid peroxidation products. This gene is expressed in the stomach as well as in the liver, and it contains a glucocorticoid response element upstream of its 5' UTR, which is a steroid hormone receptor binding site. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

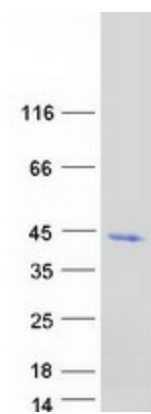
Product images:



Circular map for RC219515



Western blot validation of overexpression lysate (Cat# [LY420155]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219515 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ADH6 protein (Cat# [TP319515]). The protein was produced from HEK293T cells transfected with ADH6 cDNA clone (Cat# RC219515) using MegaTran 2.0 (Cat# [TT210002]).