

Product datasheet for **RR211769**

Adh5 (NM_001126120) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adh5 (NM_001126120) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adh5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR211769 representing NM_001126120 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAACCAGGTGATCAGGTGTAAGGCTGCAGTCGCCTGGGAGCCGAAAGCCTCTCTCCATAGAGG
AGATAGAGGTGGCCCTCCACAGGCTCATGAAGTTCGAATTAAGATCATTGCCACTGCTGTTTGCCACAC
CGATGCCATACCCTGAGTGGAGCTGATCCTGAGGGGTGTTCCCGTGATCTTAGGACATGAAGGCGCT
GGCATTGTGGAGAGTGTTGGCGAAGGGTTACTAAGCTGAAGGCAGGTGATACCGTCATCCCGCTGTACA
TCCCACAGTGTGGAGAATGCAAGTCTGTCTGAATCCTAAAACAAACCTTTGCCAGAAAATAGAGTCAC
TCAGGGGAAAGGTTGATGCCCGATGGGACCAGCAGGTTACCTGCAAAGGGAAGCCTATTCTCACTTC
ATGGGAACCAGCACGTTTTCCGAGTACACAGTGGTGGCAGACATCTGTGCTAAAATTGACCCTCCG
CCCCTTTGGATAAAGTCTGCCTTCTCGGTTGTGGCATTCAACTGGCTACGGGGCCGCTGTGAACACTGC
CAAGGTGGAGCCTGGTTCTACCTGTGCCGCTTTGGCCTGGGAGGAGTTGGATTGGCGGTGATCATGGGC
TGTAAGTGGCTGGTGCCTCCCGATCATTGGTATTGACATCAATAAAGATAAATTCGCGAAGGCCAAAAG
AATTTGGAGCCACTGAATGTATTAACCCCAAGATTTTCAGTAAATCCATCCAGGAAGTCTCATCGAGAT
GACAGATGGCGGAGTGGACTTCTCCTTTGAGTGTATCGGTAACGTGAAGGTCATGAGATCAGCCCTCGAG
GCAGCCCAAAAGGCTGGGGTGTAGTGTGGTGGTGGTGGCCGCTTCAGGTGAAGAAATCTCCACTC
GTCCGTTCCAACCTGGTGACAGGACGCACGTGGAAGGCACTGCCTTTGGAGGCTGGAAGAGTGTGGAGAG
TGTCGCGAAGCTGGTGTCTGAATATATGTCCAAAAGATAAAAGTTGACGAATTTGTGACTGGCAATCTG
TCCTTCGACCAGATTACAAAGCCTTTGATCTGATGCACTCGGGAACAGCATTCCGAAGTGTCTAAAGA
TG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR211769 representing NM_001126120
Red=Cloning site Green=Tags(s)

MANQVIRCKAAVAWEAGKPLSIEEIEVAPPQAHEVRIKIIATAVCHTDAYTL SGADPEGCFPVILGHEGA
 GIVESVGEVTKLKAGDVIPL YIPQCGECKFCLNPKTNLCQKIRVTQGKGLMPDGTSRFTCKGKPI LHF
 MGTSTFSEYTVVADISVAKIDPSAPLDKVCLLGGCISTGYGAAVNTAKVEPGSTCAVFLGGVGLAVIMG
 CKVAGASRIIGIDINKDKFAKAKEFGATECINPQDFSKSIQEVLIEMTDGGVDFSFECIGNVKVMRSALE
 AAHKGWGSVVVVAASGEEISTRPFQLVTGRTWKGTAFGGWKSVESVPKLVSEYMSKKIKYDEFVTGNL
 SFDQINKAFDLMHSGNSIRTVLKM

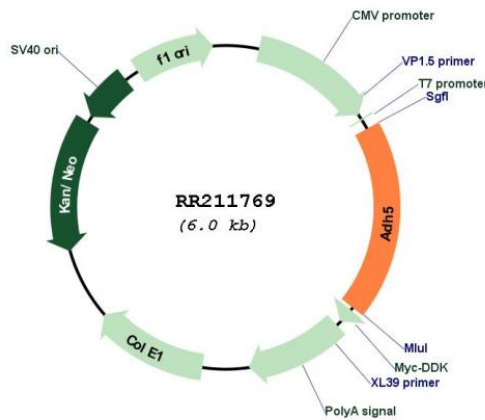
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001126120

ORF Size:	1122 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<u>NM_001126120.1</u> , <u>NP_001119592.1</u>
RefSeq Size:	1413 bp
RefSeq ORF:	1125 bp
Locus ID:	100145871
UniProt ID:	<u>P12711</u>
Cytogenetics:	2q44
MW:	39.6 kDa
Gene Summary:	Class-III ADH is remarkably ineffective in oxidizing ethanol, but it readily catalyzes the oxidation of long-chain primary alcohols and the oxidation of S-(hydroxymethyl) glutathione. [UniProtKB/Swiss-Prot Function]