

## Product datasheet for **RN211769**

### Adh5 (NM\_001126120) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Adh5 (NM\_001126120) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Adh5  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN211769 representing NM\_001126120  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGAACCAGGTGATCAGGTGTAAGGCTGCAGTCGCCTGGGAGGCCGAAAGCCTCTCTCCATAGAGG  
AGATAGAGGTGGCCCTCCACAGGCTCATGAAGTTCGAATTAAGATCATTGCCACTGCTGTTTGCCACAC  
CGATGCCTATACCCTGAGTGGAGCTGATCCTGAGGGGTGTTCCCGTGATCTTAGACATGAAGGCGCT  
GGCATTGTGGAGAGTGTGGCGAAGGGTTACTAAGCTGAAGGCAGGTGATACCGTCATCCCGCTGTACA  
TCCACAGTGTGGAGAATGCAAGTCTGTCTGAATCCTAAAACAAACCTTTGCCAGAAAATAGAGTCAC  
TCAGGGGAAAGGTTGATGCCCGATGGGACCAGCAGGTTACCTGCAAAGGGAAGCCTATTCTCACTTC  
ATGGGAACCAGCACGTTTTCCGAGTACACAGTGGTGGCAGACATCTGTGGTAAAATTGACCCTCCG  
CCCCTTTGGATAAAGTCTGCCTTCTCGTTGTGGCATTCAACTGGCTACGGGGCCGCTGTGAACACTGC  
CAAGGTGGAGCCTGGTTCTACCTGTGCCGCTTTGGCCTGGGAGGAGTTGGATTGGCGGTGATCATGGGC  
TGTAAGTGGCTGGTGCCTCCCGATCATTGGTATTGACATCAATAAAGATAAATTCGCGAAGGCCAAAAG  
AATTTGGAGCCACTGAATGTATTAACCCCAAGATTTTCAGTAAATCCATCCAGGAAGTCTCATCGAGAT  
GACAGATGGCGGAGTGGACTTCTCCTTTGAGTGTATCGGTAACGTGAAGGTCATGAGATCAGCCCTCGAG  
GCAGCCCAAAAGGCTGGGGTGTAGTGTGGTGGTGGTGGCCGCTTCAGGTGAAGAAATCTCCACTC  
GTCCGTTCCAACCTGGTGACAGGACGCACGTGGAAGGCACTGCCTTTGGAGGCTGGAAGAGTGTGGAGAG  
TGTCGGAAGCTGGTGTCTGAATATATGTCCAAAAGATAAAAGTTGACGAATTTGTGACTGGCAATCTG  
TCCTTCGACCAGATTACAAAGCCTTTGATCTGATGCACTCGGGAACAGCATTCCGAAGTGTCTAAAGA  
TGTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001126120



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<b>Insert Size:</b>	1125 bp
<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001126120.1</a> , <a href="#">NP_001119592.1</a>
<b>RefSeq Size:</b>	1413 bp
<b>RefSeq ORF:</b>	1125 bp
<b>Locus ID:</b>	100145871
<b>UniProt ID:</b>	<a href="#">P12711</a>
<b>Cytogenetics:</b>	2q44
<b>Gene Summary:</b>	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]