

Product datasheet for **MC226585**

Adh5 (NM_001288578) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adh5 (NM_001288578) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Adh5
Synonyms:	Adh-5; Adh3; GSNOR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC226585 representing NM_001288578 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAGATGGGACTAGCAGATTTACCTGCAAAGGAAAGTCTGTTTTCACTTCATGGGACTAGCACAT
TTCCGAGTACACAGTTGTGGCTGACATCTCTGTTGCTAAAATCGATCCTTCGGCCCTTTGGATAAAGT
CTGCCTTCTCGGCTGTGGTATTTCAACTGGCTACGGGGCTGCTGTGAACACTGCCAAGGTGGAGCCTGGT
TCTACTTGTGCCGTCTTTGGCCTGGGAGGAGTTGGACTGGCAGTGATCATGGGCTGTAAGGTGGCTGGT
CATCCCGGATCATTGGTATCGACATCAATAAAGATAAATTCGCAAAGGCCAAAGAATTTGGAGCCTCTGA
ATGTATTAGCCCCAAGACTTCAGTAAATCCATCCAGGAAGTCCTCGTTGAGATGACAGATGGGGCGTG
GATTACTCCTTTGAGTGCATTGGCAACGTGAAGGTCATGAGATCAGCCCTTGAGGACGCCACAAAGGCT
GGGGTGTCAAGTGTGGTAGTGGGAGTAGCTGCTTCAGGGGAAGAAATCTCCACTCGTCCATTCAGCTGGT
GACAGGACGCACATGAAAGGCACCGCCTTTGGAGGATGGAAGAGTGTGGAGAGTGTCCAAAGCTGGT
TCTGAATATGTCCAAAAGATAAAAGTTGACGAATTTGTGACCGCAATCTCTCCTTCGACCAAATTA
ACCAAGCCTTTGATCTGATGCACTCGGGAGACAGCATTGCAACTGTTCTAAAGAT**GTAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001288578
Insert Size:	759 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001288578.1</u> , <u>NP_001275507.1</u>
RefSeq Size:	1586 bp
RefSeq ORF:	759 bp
Locus ID:	11532
UniProt ID:	<u>P28474</u>
Cytogenetics:	3 G3
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) has an alternate 5' exon, which results in translation initiation at a downstream AUG start codon, compared to variant 1. The resulting isoform (2) has a shorter N-terminus, compared to isoform 1.</p>