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Product datasheet for MR228796

Adh5 (NM_001288578) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adh5 (NM_001288578) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adh5
Synonyms:	Adh-5; Adh3; GSNOR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>MR228796 representing NM_001288578
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCAGATGGGACTAGCAGATTTACCTGCAAAGGAAAGTCTGTTTTTCACTTCATGGGGACTAGCACAT
TTTCCGAGTACACAGTTGTGGCTGACATCTCTGTTGCTAAAATCGATCCTTCGGCCCCTTTGGATAAAGT
CTGCCTTCTCGGCTGTGGTATTTCAACTGGCTACGGGGCTGCTGTGAACACTGCCAAGGTGGAGCCTGGT
TCTACTTGTGCCGTCTTTGGCCTGGGAGGAGTTGGACTGGCAGTGATCATGGGCTGTAAGGTGGCTGGTG
CATCCCGGATCATTGGTATCGACATCAATAAAGATAAATTCGCAAAGGCCAAAGAATTTGGAGCCTCTGA
ATGTATTAGCCCCCAAGACTTCAGTAAATCCATCCAGGAAGTCCTCGTTGAGATGACAGATGGGGGCGTG
GATTACTCCTTTGAGTGCATTGGCAACGTGAAGGTCATGAGATCAGCCCTTGAGGCAGCCCACAAAGGCT
GGGGTGTCAGTGTGGTAGTGGGAGTAGCTGCTTCAGGGGAAGAAATCTCCACTCGTCCATTCCAGCTGGT
GACAGGACGCACATGGAAAGGCACCGCCTTTGGAGGATGGAAGAGTGTGGAGAGTGTCCCAAAGCTGGTG
TCTGAATATATGTCCAAAAAGATAAAAGTTGACGAATTTGTGACCGGCAATCTCTCCTTCGACCAAATTA
ACCAAGCCTTTGATCTGATGCACTCGGGAGACAGCATTCGAACTGTTCTAAAGATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

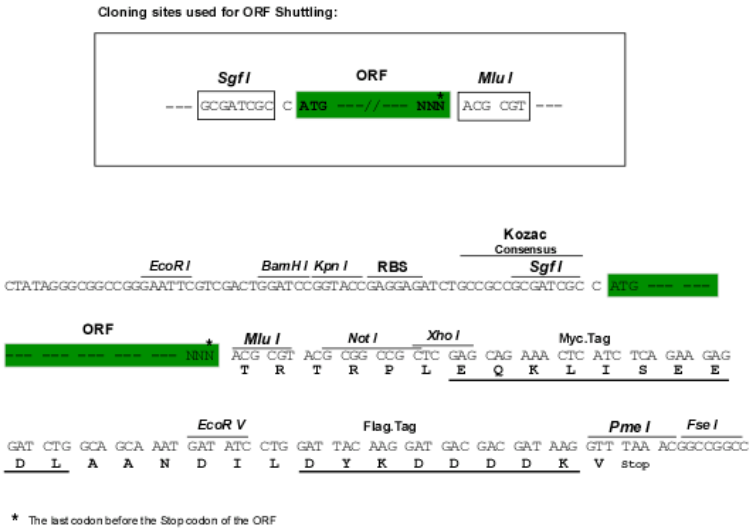
>MR228796 representing NM_001288578
Red=Cloning site Green=Tags(s)

MPDGTSRFTCKGKSVFHFMGTSTFSEYTVVADISVAKIDPSAPLDKVCLLGCGISTGYGAAVNTAKVEPG
STCAVFGLGGVGLAVIMGCKVAGASRIIGIDINKDKFAKAKEFGASECISPQDFSKSIQEVLVEMTDGGV
DYSFECIGNVKVMRSALEAAHKGWGVSVVVGVAASGEEISTRPFQLVTGRTWKGTAFGGWKSVESVPKLV
SEYMSKKIKVDEFVTGNLSFDQINQAFDLMHSGDSIRTVLKM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001288578

ORF Size: 756 bp

OTI Disclaimer: 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).

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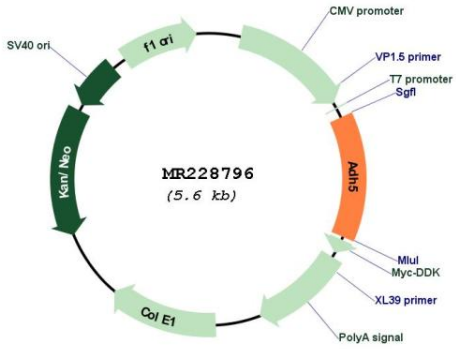
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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:	NM_001288578.1, NP_001275507.1
RefSeq Size:	1586 bp
RefSeq ORF:	759 bp
Locus ID:	11532
UniProt ID:	P28474
Cytogenetics:	3 G3
MW:	27.1 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]

Product images:



Circular map for MR228796

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