

Product datasheet for RN205471

Adh7 (NM_134329) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Adh7 (NM_134329) Rat Untagged Clone
 Tag: Tag Free
 Symbol: Adh7
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >RN205471 representing NM_134329
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGGACACTGCTGGAAAAGTTATTAAGTGCAAAGCAGCTGTCCTATGGGGGACGAAACCAGCCCTTCTCCA
 TTGAGGACATTGAAGTGGCCCCACCAAAGGCTAAGGAAGTTCGTGTTAAGATTTGGCCACGGGAATCTG
 TGGCACAGATGACCAGTGCATCAAGGGAACGATGGTGTCTAAGTCCCAGTGATTGTGGGACACGAAGCA
 GTTGGGATTGTGGAGAGTGTGGAGAAGAGGTCCTACAGTGAGACCAGGTGACAAAGTGATCCCCCTCT
 TTCTACCACAGTGTAGAGAATGCAACCCCTGCCGCAACCCGGAGGAAAATCTCTGCATTAGGAGCGACCT
 GACAGGCCGTGGAGTATTGGCTGACGGCAGCAGGTTACATGCAAGGGCAAACCAGTCCAGCACTTT
 ATGAACACCAGCACCTTCACTGAGTACACGGTCTGGATGAATCCTCCGTAGCTAAGATTGATGCCGAGG
 CTCCTCCCGAGAAAGCCTGCTTGATTGGCTGTGGATTTTCCACTGGTTATGGGGCTGCTGTTAAACTGC
 CAAGGTCAGCCCTGGCTCCACCTGTGCTGTGTTTGGCCTGGGAGGAGTTGGCCTGTCAGTCGTATGGGC
 TGTAAGCGGCCCGCCCTCCCGGATCATCGGAATTGACATCAACAAGGACAAAATTCAGAAAGCCCTGG
 ATGTAGGGGCCACAGAGTATCAATCCCAGGGACTTCACCAAGCCATCAGTGAGGTGCTGTCAGACAT
 GACAGGCAACACTGTCCAGTATACTTTTGAAGTTATCGGGCGCCTTGAGACCATGTTGATGCCCTCTCA
 TCTTGCCATATGAACTATGGGACCAGCGTGGTGGTTCGGGGCTCCTCCGTAGCCAAAGATGCTCAGCTATG
 ACCCAATGCTGCTTTTCACTGGACGGACATGGAAGGGCTGCGTCTTTGGTGGTTGGAAGAGCAGAGATGA
 TGTTCCCAAATTTGGTGAATTCCTGGAAAAGAAATTTGACCTGGGCCAGTTGATAACCCACACCTTG
 CCTTTTCATAACATCAGTGAAGGATTTGAATTGCTTTATTCAGGGCAAAGCATTCCGGACTGTCCTGACAT
 TTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_134329



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Insert Size:	1125 bp
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).
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_134329.1</u> , <u>NP_599156.1</u>
RefSeq Size:	2048 bp
RefSeq ORF:	1125 bp
Locus ID:	171178
UniProt ID:	<u>P41682</u>
Cytogenetics:	2q44
Gene Summary:	Catalyzes the NAD-dependent oxidation of all-trans-retinol, alcohol, aldehyde and omega-hydroxy fatty acids and their derivatives. Oxidizes preferentially all trans-retinol, all-trans-4-hydroxyretinol, 9-cis-retinol, 2-hexenol, and long chain omega-hydroxy fatty acids such as juniperic acid. In vitro can also catalyzes the NADH-dependent reduction of all-trans-retinal and aldehydes and their derivatives. Reduces preferentially all trans-retinal, all-trans-4-oxoretinal and hexanal. Catalyzes in the oxidative direction with higher efficiency. Therefore may participate in retinoid metabolism, fatty acid omega-oxidation, and elimination of cytotoxic aldehydes produced by lipid peroxidation.[UniProtKB/Swiss-Prot Function]