

Product datasheet for MR205805

Adh7 (NM_009626) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Adh7 (NM_009626) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Adh7
Synonyms:	Adh-3; Adh-3e; Adh-3t; Adh3; Adh3-e; Adh3-t; Adh4; Adt-1; AI325182
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205805 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCACCGCTGGAAAAGTTATTAAGTGCAAAGCGGCTGTCCTATGGGGAGTGAACCAGCCTTTCTCCA
TTGAGGAAATCGAGGTGGCCCCACCAAAGGCTAAGGAAGTCCGTGTTAAGATTTTGGCCACAGGAATCTG
TCGCACAGATGACCATAAATAAAGGATCGATGGTGTCTAAGTTCCAGTGATTGTGGGACATGAAGCA
GTTGGGGTTGTGGAGAGTGTGGAGAAGGGTCACTACAGTGAGACCAGGTGACAAAGTCATCCCCCTCT
TTCTACCACAGTGTAGAGAATGCAACGCCTGCCTGAACCCAGAGGCAATCTCTGCATTAGGAGCGATCT
GACAGGCCGTGGAGTATTGGCTGATGGCACTACCAGATTCACCTGCAAGGGCAAACCGGTCCAGCACTTC
ATGAACACCAGCACCTTCACTGAGTACACGGTGTGGACGAATCCTCCGTAGCGAAGGTTGACGGTGC GG
CTCCGCCCTGAGAAAAGCTGCTTGATCGGCTGTGGATTTTCCACGGGTTATGGAGCTGCTGTTAAACTGC
CAAGGTCAACCCCTGGCTCCACTTGTGTTGCTTTGGCCTGGGAGGAGTTGGCCTGTCACTCATCATGGGC
TGTAAGCAGCTGGTGCCTCCAGGATCATTGGAATCGACATCAACAAAGACAAATTCAGAAAGCTCTGG
CCGTAGGTGCCACAGAGTGTATCAGTCCCAAGGACTCTACCAAGCCCATCAGTGAGGTGCTATCCGACAT
GACAGGCAACACCATAACAGTATACTTTTGAAGTTATTGGCGTCTTGAGACCATGGTTGATGCCCTCTCA
TCTTGCCATATGAACATGGGACCAGTGTGGTGGTTGGTCTCCTCCGTACAGCAAGATGCTCACCTATG
ACCCAATGCTGCTTCACTGGGCGTACGTGGAAGGGCTGCGTCTTTGGAGGGTGAAGAGCAGAGATGA
TGTACCTAAACTGGTACTGAGTTCCTGAAAAAGAAAGTTTACCTGGACAGTTGATAACCCACACCTTG
CCTTTTAATAACATCAATGAAGGATTTGAATTGCTGTATTGGGGAAAAGCATTCCGACTGTCCTGACAT
TT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205805 protein sequence
Red=Cloning site Green=Tags(s)

MGTAGKVIKCKAAVLWGVNQPFSEIEVAPPKAKEVRVKILATGICRTDDHIIKGSMSKFPVIVGHEA
 VGVVESVGEVTTVRPGDKVIPLFLPQCRECNACLNPEGNLCIRSDLTGRGVLADGTTTRFTCKGKPVQHF
 MNTSTFTEYTVLDESSVAKVDGAAPPEKAACLI GCGFSTGYGAAVKAKVTPGSTCVVFLGGVGLSVIMG
 CKAAGASRIIGIDINKDKFKALAVGATECISPKDSTKPISEVLSDMTGNTIQYTFEVIQRLETMVDALS
 SCHMNYGTSVVVGAPPSAKMLTYDPMLLFTGRTWKGCVF GGWKS RDDVPKLVTEFLEKFDLDQLITHTL
 PFNNINEGFELLYSGKSIRTVLTF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_009626

ORF Size: 1125 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).

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_009626.4](#)

RefSeq Size: 2079 bp

RefSeq ORF: 1125 bp

Locus ID: 11529

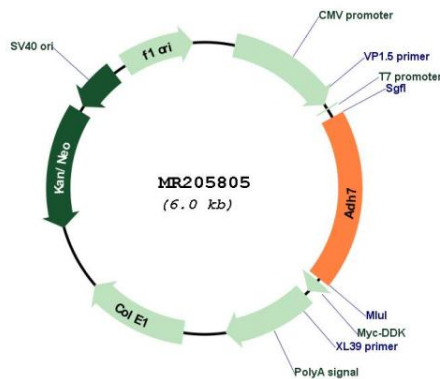
UniProt ID: [Q64437](#)

Cytogenetics: 3 64.13 cM

MW: 39.9 kDa

Gene Summary: Could function in retinol oxidation for the synthesis of retinoic acid, a hormone important for cellular differentiation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205805