

Product datasheet for MR218750

Adh4 (NM_011996) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Adh4 (NM_011996) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Adh4
Synonyms: Adh2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR218750 representing NM_011996
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCACCCAGGGAAAAGTTATTAATGCAAGGCAGCCATTGCCTGGAAAAGTGGCAGTCCCCTTTGCA
TTGAAGAAATTGAGGTGTCCCCTCTAAAGCTTGTGAGGTTCCGATTGAGGTAATCGCCACGTGTGTGTG
CCCTACTGACATCAATGCCACCGATCCTAAGAAGAAAGCTCTCTCCCGGTAGTCCTTGGTCATGAGTGT
GCAGGAATTGTAGAAAGTGTGGCCGGGAGTGACCAACTCAAACCAGGTGACAAAGTAATCCCATTCT
TTGCACCACAGTGCAAAAGGTGCAAGCTCTGTCTGAGCCCTCTCACAACCTCTGTGAAAAGTCCGAAA
CTTCAAATACCCCACTATTGATCAGGAGCTCATGGAAGACAGAACCAGCAGGTTTACCTGCAAAGGAAGA
TCAATTTACCATTTTCATGGGCGTCAGTTCACTTCTCAATACACTGTGGTTTCAGAGGCCAATCTTGCCA
GAGTCGATGATGAGGCAAACTTGGAGAGAGTGTGTCTGATTGGATGTGGGTTCTCATCAGGCTACGGGGC
TGCCATCAATACTGCCAAGGTCACCCCCAGTCCACTTGTGTCTTTGGCCTGGGGTGTGTAGGTCTT
TCTGCCATAATTGGGTGTAATAAGCAGGTGCTCCAGAATCATAGCTATTGACATCAACGGTGAGAAGT
TCCAAAAGCCAAGGCCCTGGGAGCCACTGACTGCCTGAATCCCAGGGAGCTAGACAAACCTGTCCAGGA
TGTCATCACTGAGCTGACAGCTGGAGGTGTGGATTACTCCCTTGACTGTGCAGGAACAGCTCAGACCTTG
AAAGCAGCTGTGGACTGCAGTGTATTAGGCTGGGGTCTGTCAGTGTGGTCCGAGCAAAGGTTGACAAA
TGACTATACCCACCGTGGACGTTATATTGGGCCGTTCTATAAATGGAACATTCTTTGGTGGTTGAAAAAG
TGTAGACTCTGTCCCAAACCTGGTTTCTGACTACAAGAATAAGAAATTCGATCTGGACTTACTGGTGACC
CATGCCCTACCTTTCGAGAGCATAAATGATGCCATTGACCTGATGAAGGAAGGAAAAAGCATCCGAACAA
TCCTGACCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR218750 representing NM_011996
Red=Cloning site Green=Tags(s)

MGTQGKVIKCKAAIAWKTGSPLCIEEIEVSPPKACEVRIQVIATCVCPTDINATDPKKKALFPVVLGHEC
 AGIVESVGPVGNFKPGDKVIPFFAPQCKRCKLCL SPL NL CGKLRNFKYPTIDQELMEDRTSRFTCKGR
 SIYHFMGVSSFSQYTVVSEANLARVDDEANLERVCLIGCGFSSGYGAAINTAKVTPSSTCAVFLGCVGL
 SAIIGCKIAGASRIIAIDINGEKFPKAKALGATDCLNPRELDKPVQDVITELTAGGVDYSLDCAGTAQTL
 KAAVDCTVLGWGCTVVGAKVDKMTIPTVDVILGRSINGTFFGGWKSVDSPNLVSDYKNNKFDLDDLVT
 HALPFESINDAIDLMKEGKSIRTILTF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9058_h04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_011996

ORF Size: 1131 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_011996.2](#), [NP_036126.2](#)

RefSeq Size: 1312 bp

RefSeq ORF: 1134 bp

Locus ID: 26876

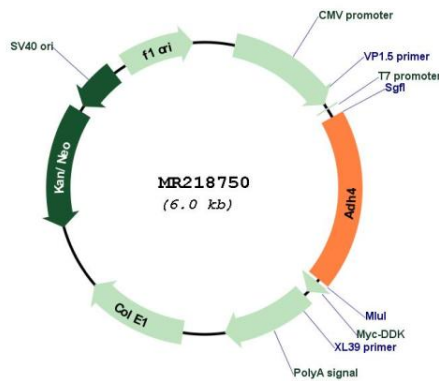
UniProt ID: [Q9QYY9](#)

Cytogenetics: 3 G3

MW: 40.2 kDa

Gene Summary: Involved in the reduction of benzoquinones.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR218750