

Product datasheet for **MR204476**

Auh (NM_016709) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Auh (NM_016709) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Auh
Synonyms: C77140; W91705
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR204476 representing NM_016709
Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCGCGGCTCCAGGCGCTCTGGGCGCCTTGAGAACGGTTGGCGTCCGCCTGGTGGCCGCGTGCT
GCGCGCGGCTCGGCCCGCGGCTGGGCTAGGGGTACCGCCCGAGGAGGGGCTACAGCTCGGAGGTGAA
GACGGAGGATGAGTTGCGCGTGCAGCACCTGGAGGAGGAGAACCAGGCATTGTGGTGTCTGGGATTAAC
AGAGCTTATGGGAAAAATGCACTCAGTAAAAATCTCCTCAAGATGTTATCAAAGCGGTGGATGCATTAA
AGTCAGATAAGAAAGTTCGGACCATTATCATCAGAAGTGAAGTCCCTGGGATATTCTGTGCTGGTGTGTA
CCTTAAGGAACGAGCCAAGATGCATTCCAGTGAAGTTGGTCCCTTTGTCTCCAAGATCCGATCGGTGATC
AATGACATTGCAAACCTCCCGGTGCCACCATCGCAGCCATAGACGGCCTTGCCCTCGGAGGGGGTCTGG
AGCTGGCTCTAGCGTGTGACATTCGAGTAGCAGCTTCTCTGCAAAAATGGGCTGGTTGAAACAAAGTT
GGCAATTATTCCTGGCGGAGGAGGGACACAGAGATTACCACGTGCCATCGGGATGTCCCTGGCTAAGGAA
CTCATCTTCTGCCCCGAGTTCTTGACGGTCAAGAAGCCAAAGCTGTGGGCTTGATCAGCCATGTGTTAG
AACAGAACCAGGAAGGGGATGCAGCCTACAGGAAGGCGCTGGACCTGGCAGAGAGTTTCTACCTCAGGG
GCCTGTTGCAATGAGAGTGGCCAACTAGCAATTAACCAAGGGATGGAGGTCGACTTAGTAACAGGGTTA
GCCATAGAAGAAGCCTGCTATGCTCAGACCATCTCAACAAAGGACAGACTGGAAGGCTCTTCTGCTTTTA
AGGAGAAAAGACCTCCTCGCTACAAGGGAGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204476 representing NM_016709
Red=Cloning site Green=Tags(s)

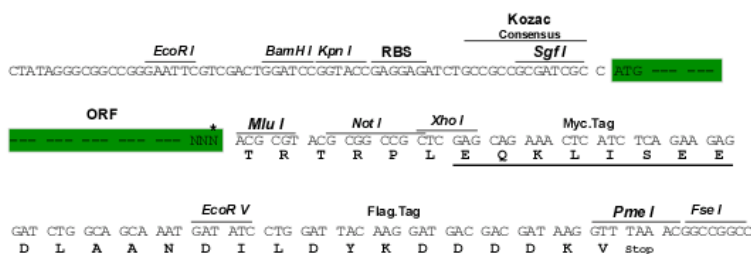
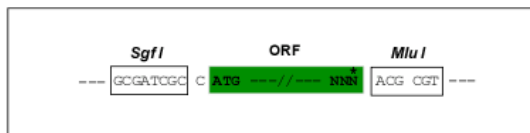
MAAAPGALGALRTVGVRLVAACCARLGPAAWARGTAPRRGYSSEVKTEDELVRVHLEENRGIVVLGIN
 RAYGKNALSKNLLKMLSKAVDALKSDKKVRTIIIRSEVPGIFCAGADLKERAKMHSEVGPVFSKIRSVI
 NDIANLPVPTIAAIDGLALGGLELALACDIRVAASSAKMGLVETKLAIIPGGGGTQRLPRAIGMSLAKE
 LIFSARVLDGQEAKAVGLISHVLEQNQEGDAAYRKALDLAREFLPQGPVAMRVAKLAINQGMVDLVTGL
 AIEEACYAQTISTKDRLEGLLAFKEKRPPRYKGE

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_016709

ORF Size: 942 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_016709.2](#), [NP_057918.2](#)

RefSeq Size: 1345 bp

RefSeq ORF: 945 bp

Locus ID: 11992

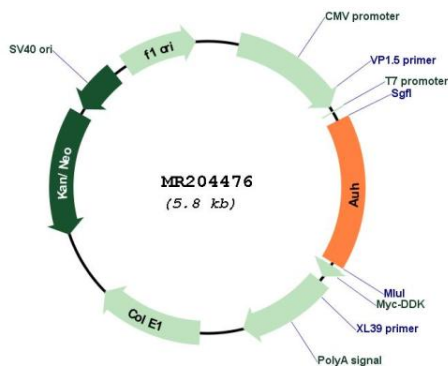
UniProt ID: [Q9JLZ3](#)

Cytogenetics: 13 B1

MW: 33.8 kDa

Gene Summary: Catalyzes the conversion of 3-methylglutaconyl-CoA to 3-hydroxy-3-methylglutaryl-CoA (By similarity). Also has itaconyl-CoA hydratase activity by converting itaconyl-CoA into citramalyl-CoA in the C5-dicarboxylate catabolism pathway (By similarity). The C5-dicarboxylate catabolism pathway is required to detoxify itaconate, a vitamin B12-poisoning metabolite (By similarity). Has very low enoyl-CoA hydratase activity (PubMed:10072761). Was originally identified as RNA-binding protein that binds in vitro to clustered 5'-AUUUA-3' motifs (PubMed:10072761).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204476