

Product datasheet for MC208167

Auh (NM_016709) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Auh (NM_016709) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Auh
Synonyms:	C77140; W91705
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC208167 representing NM_016709 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCGCGGGCTCCAGGCGCTCTGGGCGCCTTGAGAACGGTTGGCGTCCGCCTGGTGGCCGCGTGCT
GCGCGCGGCTCGGCCCGCGGCCGTTGGGTAGGGGTACCGCCCGAGGAGGGGCTACAGCTCGGAGGTGAA
GACGGAGGATGAGTTGCGCGTGCAGCCTGGAGGAGGAGAACCAGGCATTGTGGTGCCTGGGATTAAC
AGAGCTTATGGGAAAAATGCACTCAGTAAAAATCTCCTCAAGATGTTATCAAAGCGGTGGATGCATTAA
AGTCAGATAAGAAAGTTCGGACCATTATCATCAGAAGTGAAGTCCCTGGGATATTCTGTGCTGGTGTGA
CCTTAAGGAACGAGCCAAGATGCATTCCAGTGAAGTTGGTCCCTTGTCTCCAAGATCCGATCGGTGATC
AATGACATTGCAAACCTCCCGGTGCCACCATCGCAGCCATAGACGGCCTTGCCCTCGGAGGGGGTCTGG
AGCTGGCTCTAGCGTGTGACATTCGAGTAGCAGCTTCCTCTGCAAAAATGGGCCTGGTTGAAACAAAGTT
GGCAATTATTCCTGGCGGAGGAGGGACACAGAGATTACCACGTGCCATCGGGATGTCCCTGGCTAAGGAA
CTCATCTTCTGCCCCGAGTCTTGACGGTCAAGAAGCCAAAGCTGTGGGCTTGATCAGCCATGTGTTAG
AACAGAACCAGGAAGGGGATGCAGCCTACAGGAAGGCGCTGGACCTGGCAGAGAGTTTCTACCTCAGGG
GCCTGTTGCAATGAGAGTGGCCAACTAGCAATTAACCAAGGGATGGAGTTCGACTTAGTAACAGGGTTA
GCCATAGAAGAAGCCTGCTATGCTCAGACCATCTCAACAAAGGACAGACTGGAAGTCTTCTTGCCTTTA
AGGAGAAAAGACCTCCTCGCTACAAGGGAGAA**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_016709



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Insert Size:	945 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:	NM_016709.2 , NP_057918.2
RefSeq Size:	1345 bp
RefSeq ORF:	945 bp
Locus ID:	11992
UniProt ID:	Q9JLZ3
Cytogenetics:	13 B1
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]