

Product datasheet for **RN205989**

Auh (NM_001108407) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Auh (NM_001108407) Rat Untagged Clone
Tag: Tag Free
Symbol: Auh
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN205989 representing NM_001108407
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGC**C

ATGAGCATTGTGGTGCTTGAATTAACAGAGCTTATGGGAAAAATTCAGTCAGTAAAAATCTTCTCAAAA
TGTTATCAAAAAGCGGTGGACGCATTAATAATCGGATAAGAAAGTTCGGACCATTATCATCAGAAGCGAAGT
CCCTGGGATATTCTGTGCTGGCGCTGACCTTAAGGAAAGAGCCAAGATGCATTCCAGTGAAGTCGGTCCC
TTTGTCTCCAAGATCCGAGCAGTGATCAATGACATCGCTAACCTTCTGTGCCACCATCGCTGCCATAG
ATGGCCTGGCCCTAGGAGGGGGCCTGGAGCTGGCTTTAGCGTGTGACATTTCGAGTAGCAGCTTCTTCTGC
AAAAATGGGCCTGGTGGAAACGAAGTTGGCGATTATCCCTGGTGGAGGAGGGACACAGAGATTACCACGT
GCCATCGGGATGGCCCTGGCAAAGGAGCTCATTTCTCTGCACGCGTTCTTGACGGTCAGGAGGCCAAAG
CCGTGGGCTTGATCAGCCACGTGTTAGAACAGAACAGGAAGGGGATGCTGCCTACAGGAAGGCGCTGGA
CCTGGCAAGAGAGTTTACCTCAGGGGCTGTTGCCATGAGAGTGGCCAACTAGCAATTAACCAAGGC
ATGGAGTTGACTTAGTGACAGGGTTAGCCATAGAAGAAGCCTGCTATGCTCAGACCATCTCAACGAAGG
ACAGACTGGAAGGTCTTCTTGTCTTCAAGGAGAAAAGACCCCTCGCTACAAGGGAGAG**TAG**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII
ACCN: NM_001108407
Insert Size: 762 bp



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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_001108407.1</u> , <u>NP_001101877.1</u>
RefSeq Size:	1246 bp
RefSeq ORF:	762 bp
Locus ID:	361215
Cytogenetics:	17p14
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 (PubMed:13783048). The C5-dicarboxylate catabolism pathway is required to detoxify itaconate, a vitamin B12-poisoning metabolite (PubMed:13783048). Has very low enoyl-CoA hydratase activity (By similarity). Was originally identified as RNA-binding protein that binds in vitro to clustered 5'-AUUUA-3' motifs (By similarity).[UniProtKB/Swiss-Prot Function]