

Product datasheet for **MC226766**

Awat2 (NM_001290395) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Awat2 (NM_001290395) Mouse Untagged Clone
Tag: Tag Free
Symbol: Awat2
Synonyms: 9430062J17Rik; ARAT; Dgat2l4; WS
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC226766 representing NM_001290395
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTCACCTGGCTGGCTTTTGACTGGAAGACCCCTGAGCGAGGTGGCCGAGGTTACCTGTGTGAGGA
 AGTGGCGTCTGTGAAACACTATAGCGACTACTCCCCTCAAGATGGTGAAGACGAAAGATATTTCACT
 TGACCGCAACTACATCCTTGTCTGCCATCCTCATGGGCTCATGGCCATTCATGTTTTGGTCACTTTGCC
 ACTGACACAACAGGCTTTTCCAAGACCTTCTCTGGTATCACTCCTTATATGCTCACACTAGGAGCCTTTT
 TCTGGGTACCTTTCCTCAGAGATTATGTAATGTCTACAGGGTCTGTCTGTGAGTAGATCCTCCATGGA
 CTTTTTGCTTACCCAGAAGGGCACAGGCAACATGCTTGTGGTGGTGGTGGTGGCCCTGGCTGAGTGCAGA
 TACAGCACGCCAGGCTCTACCACCCTGTTCTTGAAGAAGCGGCAAGGCTTTGTGCGCACAGCCCTAAAC
 ATGGGGTGTCTCTAATCCCAGCTTATGCCTTTGGAGAGACAGACCTCTATGACCAGCACATTTTCACTCC
 TGGGGCTTTGTCAATCGCTTCCAGAAGTGGTCCAGAAGATGGTACACATCTACCCCTGTGCTTCTAT
 GGGCGTGGCTCACCAAGAACTCCTGGGCCTTCTGCCCTATTCTCAGCCAGTAACCACTGTTGTGGAG
 AACCTCTACCATTGCCAAAGATTGAGAATCCGAGCGAGGAGATTGTGGCCAAATACCACACTCTATAT
 TGATGCCCTACGAAAATTGTTTGATCAGCATAAGACCAAGTTTGGCATCTCAGAGACCCAGGAGCTGGTG
 ATAGTTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001290395
Insert Size: 849 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001290395.1 , NP_001277324.1
RefSeq Size:	2002 bp
RefSeq ORF:	849 bp
Locus ID:	245532
UniProt ID:	Q6E1M8
Cytogenetics:	X C3
Gene Summary:	<p>Acyltransferase that predominantly esterify long chain (wax) alcohols with acyl-CoA-derived fatty acids to produce wax esters. Wax esters are enriched in sebum, suggesting that it plays a central role in lipid metabolism in skin. Has no activity using decyl alcohol and significantly prefers the C16 and C18 alcohols. May also have 2-acylglycerol O-acyltransferase (MGAT) and acyl-CoA:retinol acyltransferase (ARAT) activities, to catalyze the synthesis of diacylglycerols and retinyl esters; however this activity is unclear in vivo (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus than isoform 1.</p>