

## Product datasheet for MC213222

### Awat1 (NM\_001081136) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Awat1 (NM_001081136) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Awat1
Synonyms:	Dgat2l3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC213222 representing NM_001081136 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTCTTGCTCTATGAAGACTGAACACTTACAGAGTCTGAGCCTTCTGCAGTGGCCCTTGAGCTACGTTG  
 CCATGTTTTGGATTGTGCAGCCATTGTTAATTTGCCTATTGTTTCACACCCTTGCGCCGCTACCAACAGT  
 TTAATTTGCTGGTTACTTCTCGACTGGAAGACTCCAGATAAAGGTGGCAGGCGTTCAGACTGGGTACGG  
 AACTGGAATGTCTGGAACCATCAGGGACTATTTCCCATTACAATCCTGAAGACTAAGGACCTGTCAC  
 CTTGAGAGAACTACATCATGGGGGTCCACCCCATGGTCTCCTGACCTTCGGTGCCTTCTGCAACTTCTG  
 CACTGAGGCCACAGGCTTCTCGAAGACCTTCCCAGGCATCACTCCTCACTTGGCCCACTGTCCTGGTTC  
 TTCAAGATCCCCATTATTAGGGACTACATCATGGCCAAAGGATTGTGTTCTGTGAGCCAGGCATCCATCG  
 ACTACCTGCTGAGCCATGGCACTGGAAACCTCGTGGGCATTGTCTGTTGGGAGGAGTGGGAGAGGCCCTACA  
 GAGTGTGCCTAACACCACCACCTCCTCCTCAAGAAACGCAAAGGGTTTGTGCGCACAGCCCTCCAACAT  
 GGGGCTCATCTGGTCCCTACCTTCAGTTCGGAGAAACAGAGGTATATGACCAGGTACTGTTTCATGAGG  
 ATAGCCGGATGTTCAAGTTCCAAAGCCTCTTTCGCCGGATCTTTGGTTTCTATTGCTGTGCTTCTATGG  
 ACAAGGTTTCCATCAAGACTGCAAGGGACTCCTACCATAACCACAAACCCATCATCACTGTAGTTGGGGAA  
 GCTTTGCCACTGCCCCAGGTTAAAAACCAAGCCAGAGATAGTGGACAAATACCATGCACTCTACATGG  
 ACGCCCTGTACAAGCTGTTTGAGCAGCACAAAGGTCCAGTATGGCTGCTCCAACACCCAGAAGCTGATATT  
 CTT**GTGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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<b>ACCN:</b>	NM_001081136
<b>Insert Size:</b>	987 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001081136.1</a></u> , <u><a href="#">NP_001074605.1</a></u>
<b>RefSeq Size:</b>	1395 bp
<b>RefSeq ORF:</b>	987 bp
<b>Locus ID:</b>	245533
<b>UniProt ID:</b>	<u><a href="#">A2ADU9</a></u>
<b>Cytogenetics:</b>	X C3
<b>Gene Summary:</b>	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 a preference for arachidyl alcohol as well as decyl alcohol, demonstrating its relatively poor activity using saturated long chain alcohols (C16, C18, and C20) (By similarity).[UniProtKB/Swiss-Prot Function]