

## Product datasheet for MC213221

### Awat2 (NM\_177746) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Awat2 (NM\_177746) 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:** >MC213221 representing NM\_177746  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTTCTGGCCACCAAGAAGGACCTCAAGACCGCCATGGAGTCTTTGCTCTTTCCAGTGGGCCCTCA  
 GTGCCTTGGTTATAGTACCACCTGTGATCATTGTCAACCTCTACTTGGTGGTGTTCACATCTTACTGGCC  
 TGTCCCGTGTGATGCTCACCTGGCTGGCTTTTACTGGAAGACCCCTGAGCGAGTGGCCGAGGTTCC  
 ACCTGTGTGAGGAAGTGGCGTCTGTGAAACACTATAGCGACTACTTCCCACTCAAGATGGTGAAGACGA  
 AAGATATTTACCTGACCGCACTACATCCTTGTCTGCCATCCTCATGGGCTCATGGCCATTTCATGTTT  
 TGGTCACTTTGCCACTGACACAACAGGCTTTTCCAAGACCTTTCTGGTATCACTCCTTATATGCTCACA  
 CTAGGAGCCTTTTCTGGGTACCTTTCTCAGAGATTATGTAATGTCTACAGGTCGTGCTCTGTGAGTA  
 GATCCTCCATGGACTTTTGGTTACCCAGAAGGGCACAGGCAACATGCTTGTGGTGGTGGTGGTGGCC  
 GGCTGAGTGCAGATACAGCACGCCAGGCTCTACCACCTGTTCTTGAAGAAGCGGCAAGGCTTTGTGCGC  
 ACAGCCCTTAAACATGGGGTGTCTCTAATCCCAGCTTATGCCTTTGGAGAGACAGACCTCTATGACCAGC  
 ACATTTTCACTCCTGGGGCTTTGTCAATCGCTTCCAGAAGTGGTCCAGAAGATGGTACACATCTACCC  
 CTGTGCTTTCTATGGCGTGGCCTCACCAAGAACTCCTGGGGCCTTCTGCCCTATTCTCAGCCAGTAAAC  
 ACTGTTGTTGGAGAACCTCTACCATTGCCCAAGATTGAGAATCCGAGCGAGGAGATTGTGCCAAATACC  
 ACACACTCTATATTGATGCCCTACGAAAATTGTTTGTATCAGCATAAGACCAAGTTTGGCATCTCAGAGAC  
 CCAGGAGCTGGTATAGTT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_177746



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|                               |  |
|-------------------------------|--|
| <b>Insert Size:</b>           | 1002 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>                | <a href="#">NM_177746.4</a> , <a href="#">NP_808414.2</a>  |
| <b>RefSeq Size:</b>           | 1632 bp  |
| <b>RefSeq ORF:</b>            | 1002 bp  |
| <b>Locus ID:</b>              | 245532   |
| <b>UniProt ID:</b>            | <a href="#">Q6E1M8</a>   |
| <b>Cytogenetics:</b>          | X C3   |
| <b>Gene Summary:</b>          | <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 (1) encodes the longer isoform (1).</p> |