

Product datasheet for **MR228977**

Awat2 (NM_001290395) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Awat2 (NM_001290395) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Awat2
Synonyms: 9430062J17Rik; ARAT; Dgat2l4; WS
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR228977 representing NM_001290395
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCTCACCTGGCTGGCTTTTGACTGGAAGACCCCTGAGCGAGGTGGCCGAGGTTACCTGTGTGAGGA
AGTGGCGTCTGTGAAACACTATAGCGACTACTCCCCTCAAGATGGTGAAGACGAAAGATATTTCACT
TGACCGCAACTACATCCTTGTCTGCCATCCTCATGGGCTCATGGCCATTCATGTTTTGGTCACTTTGCC
ACTGACACAACAGGCTTTTCCAAGACCTTCTCTGGTATCACTCCTTATATGCTCACACTAGGAGCCTTTT
TCTGGGTACCTTTCCTCAGAGATTATGTAATGTCTACAGGGTCTGCTCTGTGAGTAGATCCTCCATGGA
CTTTTTGCTTACCCAGAAGGGCACAGGCAACATGCTTGTGGTGGTGGTGGTGGCCTGGCTGAGTGCAGA
TACAGCACGCCAGGCTCTACCACCCTGTTCTTGAAGAAGCGGCAAGGCTTTGTGCGCACAGCCCTAAAC
ATGGGGTGTCTAATCCCAGCTTATGCCTTTGGAGAGACAGACCTCTATGACCAGCACATTTTCACTCC
TGGGGCTTTGTCAATCGCTTCCAGAAGTGGTCCAGAAGATGGTACACATCTACCCCTGTGCTTCTAT
GGGCGTGGCCTACCAAGAACTCCTGGGCCTTCTGCCCTATTCTCAGCCAGTAACCACTGTTGTGGAG
AACCTCTACCATTGCCAAAGATTGAGAATCCGAGCGAGGAGATTGTGGCCAAATACCACACTCTATAT
TGATGCCCTACGAAAATTGTTTGATCAGCATAAGACCAAGTTTGGCATCTCAGAGACCCAGGAGCTGGTG
ATAGTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR228977 representing NM_001290395
 Red=Cloning site Green=Tags(s)

MLTWLAFDVKTPERGRRFTCVRKWRLWKHYSDYFPLKMVKT KDISPDRNYILVCHPHGLMAHSCFGHFA
 TDTTGFSKTFPGITPYMLTLGAFFWVPFLRDYVMSTGSCSVSRSSMDFLLTQKGTGNMLVVVVGGLAECR
 YSTPGSTTLFLKKRQGFVRTALKHGVSLIPAYAFGETDLVDQHIFTPGGFVNRFAQWFKMVIHIYPCAFY
 GRGLTKNSWGLLPYSQPVTTVVGEPLPLPKIENPSEEIVAKYHTLYIDALRKLFDQHKTKFGISETQELV
 IV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

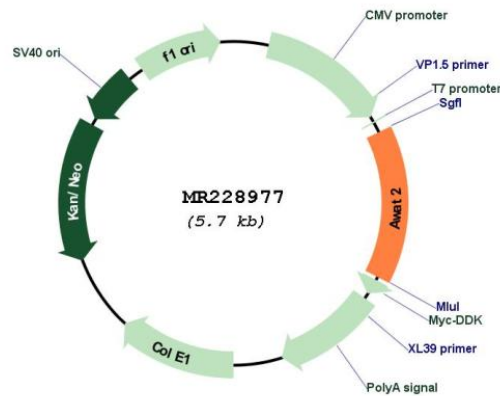
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001290395

ORF Size: 846 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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
MW:	32.7 kDa
Gene Summary:	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]