

Product datasheet for **SC300419**

DGAT2L4 (AWAT2) (NM_001002254) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGAT2L4 (AWAT2) (NM_001002254) Human Untagged Clone
Tag:	Tag Free
Symbol:	DGAT2L4
Synonyms:	ARAT; DC4; DGAT2L4; MFAT; WS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001002254 edited
 CACAATGCTCTTGCCCTCTAAGAAGGACCTCAAGACTGCCCTGGATGCTTTGCTGTTTT
 CCAGTGGTCCCTCAGTGCCTTGCTTATCACAACTGTGATTGCTGCAACCTCTACCT
 GGTGGTGTTCACACCATACTGGCCTGTCACTGTGCTTATTCTTACCTGGCTGGCTTTTGA
 CTGGAAGACCCCTCAGCGAGGCGCCGCGGTTTACCTGTGTGAGGCACTGGCGCCTGTG
 GAAACTACAGCGATTATTTCCCTCTCAAGCTTCTGAAGACTCATGACATCTGCCCCAG
 CCGCAACTACATCCTCGTCTGCCACCCTCATGGGCTCTTTGCCCATGGATGGTTGGCCA
 CTTTGCCACAGAGGCTCAGGCTTCTCCAAGATATTTCTGGCATCACCCCTTACATACT
 CACTGGGAGCCTTTTTCTGGATGCCTTCTCAGAGAATATGTAATGTCTACAGGGGC
 CTGCTCTGTGAGTCGATCCTCCATTGACTTTCTGCTGACTCATAAAGGCACAGGCAACAT
 GGTCAATTGGTATTGGTGGACTGGCTGAGTGCAGATACAGCCTGCCAGTTCTTCTAC
 CCTGGTGTGAAGAACCCTGCTGGCTTTGTGCGCATGGCCCTTACAGATGGGGTGCCTCT
 AATACCTGCCTATGCCTTTGGGGAGACGACCTCTATGATCAGCACAATTTCACTCCTGG
 TGGCTTTGTCAACCGCTTCCAGAAGTGGTTCCAGAGCATGGTACACATCTACCCTGTGC
 TTTCTATGGACGTGGCTTACCAAGAATCCTGGGGCCTTCTGCCCTATAGTCGGCCTGT
 AACCACCATCGTCGGGGAGCCTTACCAATGCCAAGATTGAGAAATCCAAGCCAGGAGAT
 CGTGGCTAAATATCACACTCTATATTGATGCCCTACGTAACCTGTTTGACCAGCATAA
 GACCAAGTTGGTATCTCAGAGACCCAGGAGCTGGAGATAATTTGACAGACATCCCCAGT
 AGCCTTCA



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001002254 unedited</p> <pre>GACAACGTTGTATACGACTCCTATAGGGCGGCCGCGTATCCTCAGATCTTGGTACCGAGC TCGGATCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGCCCTTCACAATGCTCTTGCC CTCTAAGAAGGACCTCAAGACTGCCCTGGATGTCTTTGCTGTTTTCCAGTGGTCTTCAG TGCCTTGCTTATCACAACCACTGTGATTGCTGTCAACCTCTACCTGGTGGTGTTCACACC ATACTGGCCTGTCACTGTGCTTATTCTTACCTGGCTGGCTTTTGACTGGAAGACCCCTCA CGGAGGCCGCCCGCCGTTTACCTGTGTGAGGCACTGGCGCTGTGGAAACACTACAGCGA TTATTTCCCTCTCAAGCTTCTGAAGACTCATGACATCTGCCCCAGCCGCAACTACATCCT CGTCTGCCACCCTCATGGGCTCTTTGCCATGGATGGTTTGCCACTTTGCCACAGAGGC CTCAGGCTTCTCAAGATATTTCTGGCATCACCCCTTACATACTCACACTGGGAGCCTT TTTCTGGATGCCTTCTCAGAGAATATGTAATGTCTACAGGGCCTGCTCTGTGAGTGC ATCCTCCATTGACTTTCTGCTGACTCATAAAGGCACAGGCAACATGGTCATTGTGGTGAT TGGTGGACTGGCTGAGTGCAGATACAGCCTGCCAGTTCTTACCTGGTGGTGAAGAA CCGGTCTGGCTTTGTGCGCATGGCCCTCAGCATGGGGTGCCTAATACCTGCCTATGC CTTTGGGAGACGGACCTCTATGATCAGCACATTTTCACTCCTGGTGGCTTTGTCAACCG CTTCCAGAAGTGTTCCAGAGCATGGTTCACATCTACCCTGTGCTTTCTATGGG</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001002254 unedited</p> <pre>AGGGAGCGGCACTTCCGGGCCGAGAGGCACCTGGGGAGGGTTACAGGGATGCCACC CGGGATCTGTTCCAGAAACAGCTATGACCGCGGCCGAATCTAGATGCATGCTCGAGCGG CCGCCAGTGTGATGGATATCTGCAGAATTCGCCCTTTGAAGGCTACTGGGGATGTCTGTC AAATTATCTCCAGCTCCTGGGTCTCTGAGATACCAAACCTGGTCTTATGCTGGTCAAACA GTTTACGTAGGGCATCAATATAGAGTGTGTGATATTTAGCCACGATCTCCTGGCTTGGAT TCTCAATCTTGGCATTGGTAGAGGCTCCCGACGATGGTGGTTACAGGCCGACTATAGG GCAGAAGGCCCCAGGAGTTCTTGGTGAAGCCACGTCCATAGAAAGCACAAGGGTAGATGT GAACCATGCTCTGGAACCACTTCTGGAAGCGGTTGACAAAGCCACCAGGAGTGAAATGT GCTGATCATAGAGGTCCTCTCCCAAAGGCATAGGCAGGATTAGAGGCCACCCCATGCT GAAGGGCCATGCGCACAAGCCAGACCGGTTCTTCAACACCAGGGTAGAAGAACCTGGCA GGCTGTATCTGCACTCAGCCAGTCCACCAATCACCACAATGACCATGTTGCCTGTGCCTT TATGAGTCAGCAGAAAAGTCAATGGAGGATCGACTCACAGAGCAGGCCCCCTGTAGACATT ACATATTTCTGAGGAAAGGCATCCAGAAAAAGGCTCCAGTGTGAGTATGTAAGGGGT GATGCCAGGAAATATCTTGGAGAAGCCTGAGGCCTCTGTGGCAAAGTGGCCAAACCATCC ATGGGCAAAGAGCCCATGAGGGTGGCAGACGAGGATGTAGTTGCGGCTGGGGCAGATGTC ATGAGTCTTCAGAAGCTTGAAGGAAATAATCGCTGTAGTGTTCACAGGCGCCAGTGC CTCCACACAG</pre>
Restriction Sites:	Please inquire
ACCN:	NM_001002254
Insert Size:	1000 bp
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:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_001002254.1</u> , <u>NP_001002254.1</u>
RefSeq Size:	2124 bp
RefSeq ORF:	1002 bp
Locus ID:	158835
UniProt ID:	<u>Q6E213</u>
Cytogenetics:	Xq13.1
Protein Families:	Transmembrane
Protein Pathways:	Glycerolipid metabolism, Metabolic pathways, Retinol metabolism
Gene Summary:	This gene encodes an enzyme belonging to the diacylglycerol acyltransferase family. This enzyme produces wax esters by the esterification of long chain (or wax) alcohols with acyl-CoA-derived fatty acids. It functions in lipid metabolism in the skin, mostly in undifferentiated peripheral sebocytes. This enzyme may also have acyl-CoA:retinol acyltransferase activities, where it catalyzes the synthesis of diacylglycerols and retinyl esters. [provided by RefSeq, May 2010]