

Product datasheet for **RC221837**

DGAT2L3 (AWAT1) (NM_001013579) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DGAT2L3 (AWAT1) (NM_001013579) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DGAT2L3
Synonyms:	DGA2; DGAT2L3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC221837 representing NM_001013579 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCATTCCAAGCAGCCTAGTCACTTCCAGAGTCTGATGCTTCTGCAGTGGCCTTTGAGCTACCTTG
CCATCTTTGGATCTTGAGCCATTGTTCTGCTACCTGCTGTTTACATCCTTGTGGCCGCTACCAGTGCT
TTACTTTGCCTGGTTGTTCTGGACTGGAAGACCCAGAGCGAGGTGGCAGGCGTTCGGCCTGGGTAAGG
AACTGGTGTGCTGGACCCACATCAGGGACTATTTCCCATTACGATCCTGAAGACAAAGGACCTATCAC
CTGAGCACAACCTCATGGGGTTTACCCCCATGGCCTCCTGACCTTTGGCGCCTTCTGCAACTTCTG
CACTGAGGCCACAGGCTTCTCGAAGACCTTCCCAGGCATCACTCCTCACTTGGCCACGCTGTCTGGTTC
TTCAAGATCCCCTTTGTTAGGGAGTACCTCATGGCCAAAGGTGTGTGCTCTGTGAGCCAGCCAGCCATCA
ACTATCTGCTGAGCCATGGCACTGGCAACCTCGTGGCATTGTAGTGGGAGGTGTGGGTGAGGCCCTGCA
AAGTGTGCCAACACCACCCTCATCTCCAGAAGCGCAAGGGGTTCTGTGCGCACAGCCCTCCAGCAT
GGGGCTCATCTGGTCCCCACCTTCACTTTTGGGAAACTGAGGTGTATGATCAGGTGCTGTTCCATAAGG
ATAGCAGGATGTACAAGTCCAGAGCTGCTTCCGCCGATCTTTGGTTTCTACTGTTGTGCTTCTATGG
ACAAAGCTTCTGTCAAGGCTCCACTGGGCTCCTGCCATACTCCAGGCCTATTGTCACTGTGGTTGGGGAG
CCTCTGCCACTGCCCCAAATTGAAAAGCCAAGCCAGGAGATGGTGGACAAATACCATGCACCTTTATATGG
ATGCTCTGCACAAACTGTTTCGACCAGCATAAGACCCACTATGGCTGCTCAGAGACCCAAAAGCTGTTTTT
CCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC221837 representing NM_001013579
Red=Cloning site Green=Tags(s)

MAHSKQPSHFQSLMLLQWPLSYLAIFWILQPLFVYLLFTSLWPLPVL YFAWLFLDWKTPERGGRRSAWVR
 NWCVWTHIRDYFPITILKTKDLSPEHNYLMGVHPHGLLTFGAFCNFCTEATGFSKTFPGITPHLATLSWF
 FKIPFVREYLMAGVCSVSQPAINYLLSHGTGNLVGIVGGVGEALQSVNNTTLLILQKRKGFVRTALQH
 GAHLVPTFTFGETEVYDQVLFHKDSRMKFKQSCFRRIFGFYCCVFGQSFQCGSTGLLPYSRPIVTVVGE
 PLPLPQIEKPSQEMVDKYHALYMDALHKLFDQHKTHYGCSETQKLFLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6097_d08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001013579

ORF Size: 984 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:

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_001013579.3](#)

RefSeq Size: 987 bp

RefSeq ORF: 987 bp

Locus ID: 158833

UniProt ID: [Q58HT5](#)

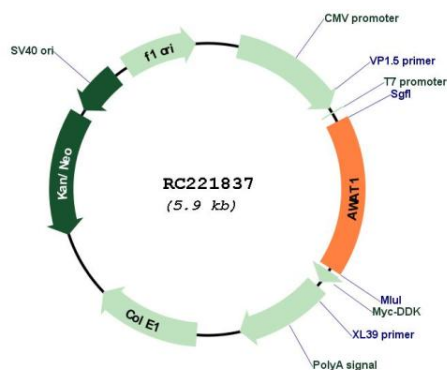
Cytogenetics: Xq13.1

Protein Families: Transmembrane

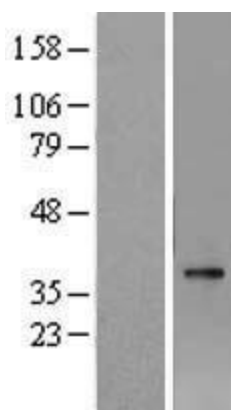
MW: 37.6 kDa

Gene Summary: The protein encoded by this gene belongs to the diacylglycerol acyltransferase family. It esterifies long chain (wax) alcohols with acyl-CoA-derived fatty acids to produce wax esters. Wax esters are enriched in sebum, suggesting that this enzyme plays a central role in lipid metabolism in skin. Consistent with this observation, this protein is predominantly expressed in the sebaceous gland of the skin. [provided by RefSeq, Sep 2009]

Product images:



Circular map for RC221837



Western blot validation of overexpression lysate (Cat# [LY422979]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221837 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).