

Product datasheet for **RG221837**

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:	TurboGFP
Symbol:	DGAT2L3
Synonyms:	DGA2; DGAT2L3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG221837 representing NM_001013579 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTCATTCCAAGCAGCCTAGTCACTTCCAGAGTCTGATGCTTCTGCAGTGGCCTTTGAGCTACCTTG
 CCATCTTTTGGATCTTGAGCCATTGTTCTGCTACCTGCTGTTTACATCCTTGTGGCCGCTACCACTGCT
 TTACTTTGCCTGGTTGTTCTGGACTGGAAGACCCAGAGCGAGGTGGCAGGCGTTCCGGCTGGGTAAGG
 AACTGGTGTGTCTGGACCCACATCAGGGACTATTTCCCATACGATCCTGAAGACAAAGGACCTATCAC
 CTGAGCACAACCTCATGGGGTTTACCCCATGGCCTCTGACCTTTGGCGCTTCTGCAACTTCTG
 CACTGAGGCCACAGGCTTCTCGAAGACCTTCCAGGCATCACTCCTCACTTGGCCACGCTGCTCTGGTTC
 TTCAAGATCCCCTTTGTTAGGGAGTACCTCATGGCCAAAGGTGTGTGCTCTGTGAGCCAGCCAGCCATCA
 ACTATCTGCTGAGCCATGGCACTGGCAACCTCGTGGGCATTGTAGTGGGAGGTGTGGGTGAGGCCCTGCA
 AAGTGTGCCAACACCACCCTCATCTCCAGAAGCGCAAGGGGTTCTGTGCGCACAGCCCTCCAGCAT
 GGGGCTCATCTGGTCCCACTTCACTTTTGGGAAACTGAGGTGTATGATCAGGTGCTGTTCCATAAGG
 ATAGCAGGATGTACAAGTCCAGAGCTGCTCCGCCGTATCTTTGGTTTCTACTGTTGTGCTTCTATGG
 ACAAAGCTTCTGTCAAGGCTCCACTGGGCTCCTGCCATACTCCAGGCCTATTGTCACTGTGGTTGGGGAG
 CCTCTGCCACTGCCCAAATTGAAAAGCCAAGCCAGGAGATGGTGGACAAATACCATGCACCTTTATATGG
 ATGCTCTGCACAACTGTTTCGACCAGCATAAGACCCACTATGGCTGCTCAGAGACCCAAAAGCTGTTTTT
 CCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG221837 representing NM_001013579
 Red=Cloning site Green=Tags(s)

MAHSKQPSHFQSLMLLQWPLSYLAIFWILQPLFVYLLFTSLWPLPVL YFAWLFLDWKTPERGGRRSAWVR
 NWCVWTHIRDYFPITILKTKDLSPEHNYLMGVHPHGLLTFGAFCNFCTEATGFSKTFPGITPHLATLSWF
 FKIPFVREYLMAGVCSVSQPAINYLLSHGTGNLVGIVGGVGEALQSVNNTTLLILQKRKGFVRTALQH
 GAHLVPTFTFGETEVYDQVLFHKDSRMKYFQSCFRRIFGFYCCVFYQGQSFQCGSTGLLPYSRPIVTVVGE
 PLPLPQIEKPSQEMVDKYHALYMDALHKLFDQHKTHYGCSETQKLFFL

TRTRPLE – GFP Tag – V

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001013579.3](#)

RefSeq Size: 987 bp

RefSeq ORF: 987 bp

Locus ID: 158833

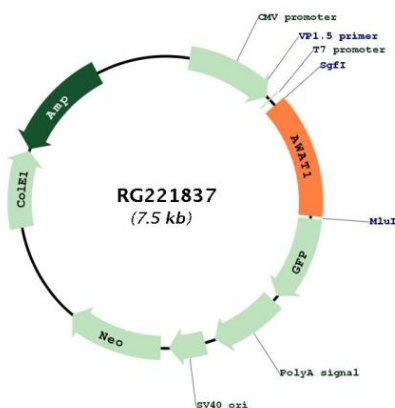
UniProt ID: [Q58HT5](#)

Cytogenetics: Xq13.1

Protein Families: Transmembrane

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 RG221837