

Product datasheet for **RG216192**

MBOAT1 (NM_001080480) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	MBOAT1
Synonyms:	dJ434O11.1; LPEAT1; LPLAT; LPLAT 1; LPSAT; OACT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG216192 representing NM_001080480
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCAGCAGAGCCGACGCGTCCAGCCTTCTACCGACCACGGGCTCCACCTACCTGCACCCGCTCA
 GCGAGCTCCTGGGCATCCCGCTGGACCAGGTGAATTTGTGGTATGCCAGCTTGTGCTCTGTTTGTGC
 TTTCTGGTTTCGCATCTACTTACGTCTGGTACAACAGCTCTGATGTCGGCATGCGGTTGCCACCATT
 TTTGGCATCTATTTGTATCTTTTGTTCGGCTGGTACTCTGTGCATCTTTTGTGCTGGTGTAAATGT
 GCTATGCAATCATGGTCACTGCTAGTGTATCCAATATTCACAGATATTCCTTTTTGTAGCAATGGGATA
 TCTTACAATATGCCACATCAGCCGAATATACATCTTCCACTATGGAATTCTCACTACGGATTTTTCTGGG
 CCTCTGATGATTGTCACTCAGAAGATCACAACCTTGGCATTCCAGGTTTCATGATGGATTAGTTCGAAGAG
 CTGAAGACCTTTCTGCTGAACAACATCGACTTGTATCAAAGTGAAACCTCTTTTTTGAATACTTAAG
 TTACCTTCTCAATTCATGAGTGTATAGCTGGTCTTGTAACAATTTCAAGGACTACATAGCCTTCATT
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 TCATCTGTCTGCTTTTGGCATGGTGTACCTGGATACTATTTACCTTCTTAAGTGAATTTCTGT
 CACATTAGCAGCTAGAGCGGTGAGGAACAACATACAGACATTACTTCTTTCTTCAAGAGCTCTCAAGGCT
 GTGTATGATGCAGGCACCTGGGCCGCTCACTCAGCTGGCTGTCTCTTACACGGTAGCACCTTTGTGATGT
 TGGCAGTTGAACCGACCATCAGCTTATACAAGTCCATGTACTTTTATTTGCACATCATAAGTCTCCTGAT
 AATACTATTTCTGCCAATGAAACCAAGCTCATACGCAAGGCGGCCTCAGACTCTGAACCTCTATTAAT
 AAGAGAAAAACAGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

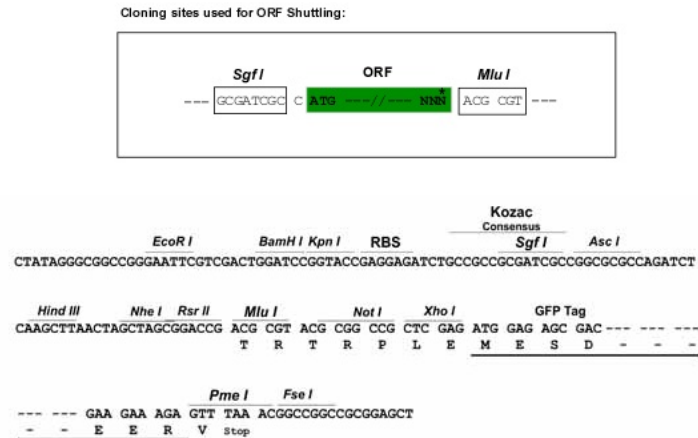
Protein Sequence: >RG216192 representing NM_001080480
 Red=Cloning site Green=Tags(s)

MAAEPPSSLSYRTTGSTYLHPLSELLGIPLDQVNFVVCQLVALFAAFWFRIYLRPGTTSSDVRHAVATI
 FGIYFVIFCFGWYSVHLFVLVLMCYAIMVTASVSNHRYSFVAMGYLTICHISRIYIFHYGILTDFSG
 PLMIVTQKITTAFQVHDGLGRRAEDLSAEQHRLAIKVKPSFLEYLSYLLNFMVSIAGPCNNFKDYIAFI
 EGKHIHMKLLEVNWKRGFHSLEPSPGTGAVIHLGITLVSLLLFLTLTKTFPVTCLVDDWFVHKASFP
 RLCYL YVVMQASKPKYYFAWTLADAVNNAAGFGFSGVDKNGNFCWDLNINLNIWKIETATSFKMYLENWN
 IQTATWLKVCYQRPWPVPTVLTILSALWHGVYPGYFTFLTGLVTLAARAVRNRYRHYFLSSRALKA
 VYDAGTWAVTQLAVSYTVAPFVMLAVEPTISLYKSMFYLHIIISLLIILFLPMKPQAHTQRRPQTLNSIN
 KRKTD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001080480

ORF Size: 1485 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_001080480.3](#)

RefSeq Size: 3275 bp

RefSeq ORF: 1488 bp

Locus ID: 154141

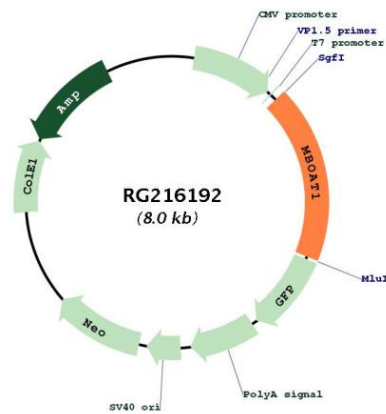
UniProt ID: [Q6ZNC8](#)

Cytogenetics: 6p22.3

Protein Families: Transmembrane

Gene Summary: This gene belongs to the membrane-bound O-acetyltransferase superfamily. The encoded transmembrane protein is an enzyme that transfers organic compounds, preferably from oleoyl-CoA, to hydroxyl groups of protein targets in membranes. A translocation disrupting this gene may be associated with brachydactyly syndactyly syndrome. Alternately spliced transcript variants have been described for this gene. [provided by RefSeq, Nov 2012]

Product images:



Circular map for RG216192