

## Product datasheet for MR203507

### Olah (NM\_145921) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Olah (NM_145921) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Olah
Synonyms:	A1607300; E230009B14Rik; Thedc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203507 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGACAGCAGTCTATGCTAAGAGTACCAGGAATGAGAAGTTTTGAACTGTTTGTGTCAAAGCCGG  
ATGCACTTTTCAAGCTGATCTGCTTCCCTGGCAGGAGGCGGCTCCACTCATTTTGCCAAGTGGGCGC  
AAAGATTAATGGCTTATTGGAAGTGCATGCTGTAAGACTGGCTGGGAGAGAAACCCGATTTGAAGAACCT  
TTCTCAAATGACATCTACCAGATAGCTGAGGAAGTTGTGACTGCCCTGTTGCCCATCATCCGTGACAAAG  
CTTTTGCATTTTTGGCCACAGTTTCGGATCCTACATTGCTTTTATTACTGCACTGCACCTAAAGGAGAA  
ATATAAATGGAGCCGCTGCATATCTTTGTGTCCAGTGCCTCTGCCCTCACTCAGAATTCGGCCTCAA  
GTTCTGATATTAACAAATTGTCAGAAGAACAATAAGAGATCACCTTCTGATTTTTGGAGGCACTCCCA  
AGCATCTCATCGAAGACCAGGATTTTCTGAAGCAATGCATTCTTTGCTGAAGGCAGATGTTGACATTGT  
GAAAAAATTCATCTTTGACAAACCCTCCAAAGCTCCTTTCTCGGGACATCACGTGCTTTATTGGATCT  
GAAGATGTAGTAAAGGATATAGAAGGCTGGAAAGACATAACCAGTGGGAAGTTTGATGTCCTCAAGCTGC  
CAGGTGACCACTTTTATCTGATGGAACCGAACACGAGGACTTTATCAAGAACTACATAGTCAAGTGT  
GGAGCTCTCCTCACTTGACTACTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR203507 protein sequence  
 Red=Cloning site Green=Tags(s)

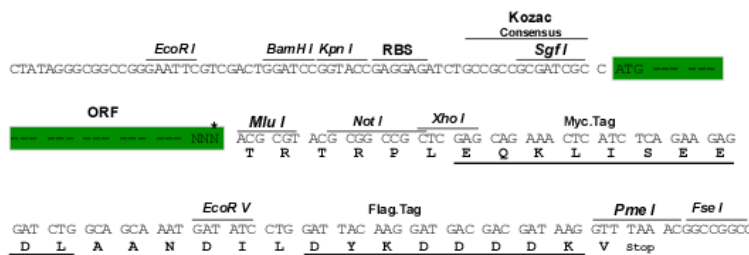
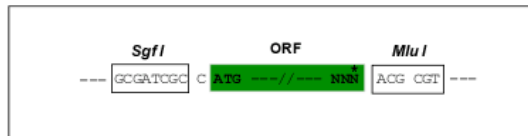
METAVYAKSTRNEKVLNCLCQKPDALFKLICFPWAGGGSTHFAKWGRKINGLLELVHAVRLAGRETRFEEP  
 FSNDIYQIAEEVVTALLPIIRDKAFVFFGHSFGSYIAFITALHLKEYKMEPLHIFVSSASAPHSEFRPQ  
 VPDINKLSEEQIRDHLLIFGGTPKHLIEDQDFLKQCIPLLKADVIVKKFIFDKPSKALLSRDITCFIGS  
 EDVVKDIEGWKDITSGKFDVLKLPGDHFYLMEPNNEDEFIKNYIVKCLELSSLDYF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_145921

**ORF Size:** 798 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\\_145921.1](#), [NP\\_666033.1](#)

**RefSeq Size:** 1522 bp

**RefSeq ORF:** 798 bp

**Locus ID:** 99035

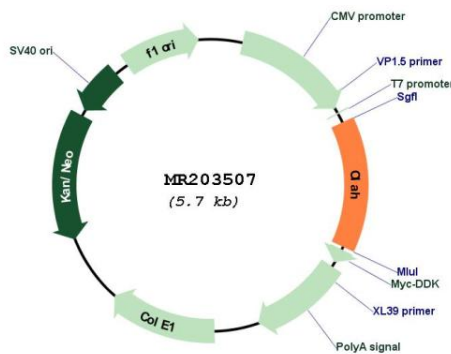
**UniProt ID:** [Q8R197](#)

**Cytogenetics:** 2 A1

**MW:** 30.2 kDa

**Gene Summary:** Contributes to the release of free fatty acids from fatty acid synthase (FASN). Has broad substrate specificity, giving rise to a range of free fatty acids with chain lengths between 10 and 16 carbon atoms (C10 - C16).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR203507