

Product datasheet for **MG203507**

Olah (NM_145921) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Olah (NM_145921) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Olah
Synonyms:	A1607300; E230009B14Rik; Thedc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203507 representing NM_145921 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGACAGCAGTCTATGCTAAGAGTACCAGGAATGAGAAGTTTTGAACTGTTTGTGTCAAAGCCGG
ATGCACTTTTCAAGCTGATCTGCTTTCCCTGGCAGGAGGCGGCTCCACTATTTTGCCAAGTGGGCGC
AAAGATTAATGGCTTATTGGAAGTGCATGCTGTAAGACTGGCTGGGAGAGAAACCCGATTTGAAGAACCT
TTCTCAAATGACATCTACCAGATAGCTGAGGAAGTTGTGACTGCCCTGTTGCCCATCATCCGTGACAAAG
CTTTTGCATTTTTGGCCACAGTTTCGGATCCTACATTGCTTTTATTACTGCACTGCACCTAAAGGAGAA
ATATAAAATGGAGCCGCTGCATATCTTTGTGTCCAGTGCCTCTGCCCTCACTCAGAATTCGGCCTCAA
GTTCTGATATTAACAAATTGTCAGAAGAACAATAAGAGATCACCTTCTGATTTTTGGAGGCACCTCCCA
AGCATCTCATCGAAGACCAGGATTTTCTGAAGCAATGCATTCTTTGCTGAAGGCAGATGTTGACATTGT
GAAAAAATTCATCTTTGACAAACCCTCAAAGCTCCTTTCTCGGGACATCACGTGCTTTATTGGATCT
GAAGATGTAGTAAAGGATATAGAAGGCTGGAAAGACATAACCAGTGGGAAGTTTGATGTCCTCAAGCTGC
CAGGTGACCACTTTTATCTGATGGAACCGAACACGAGGACTTTATCAAGAACTACATAGTCAAGTGT
GGAGCTCTCTCACTTGACTCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203507 representing NM_145921
 Red=Cloning site Green=Tags(s)

METAVYAKSTRNEKVLNCLCQKPDALFKLICFPWAGGGSTHFAKWGRKINGLLELVHAVRLAGRETRFEEP
 FSNDIYQIAEEVVTALLPIIRDKAFVFFGHSFGSYIAFITALHLKEKYKMEPLHIFVSSASAPHSEFRPQ
 VPDINKLSEEQIRDHLLIFGGTPKHLIEDQDFLKQCIPLLKADVIVKKFIFDKPSKALLSRDITCFIGS
 EDVVKDIEGWKDITSGKFDVCLKLPGDHFYLMPEPNNEDFIKNYIVKCLELSSLDYF

TRTRPLE - GFP Tag - V

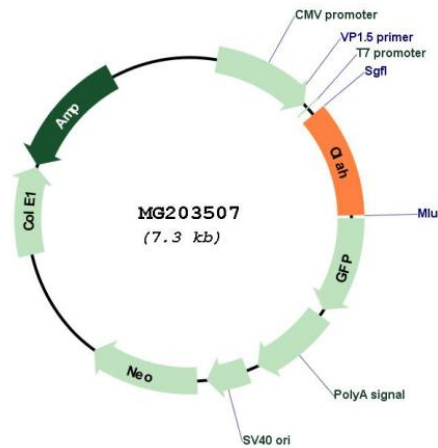
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_145921

ORF Size: 795 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:	<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:	NM_145921.1 , NP_666033.1
RefSeq Size:	1522 bp
RefSeq ORF:	798 bp
Locus ID:	99035
UniProt ID:	Q8R197
Cytogenetics:	2 A1
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]