

Product datasheet for **RG219627**

OLAH (NM_018324) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OLAH (NM_018324) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OLAH
Synonyms:	AURA1; SAST; TE2; THEDC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219627 representing NM_018324 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGAGAGGAGACCAACCTAAGAGAACCAGGAATGAAAACATTTTCAACTGCTTATACAAAAACCCTG
AGGCAACTTTTAAGCTGATTTGCTTTCCCTGGATGGGAGGTGGCTCCACTCATTTTGCCAAATGGGGCCA
AGATACTCATGATTTGCTGGAAGAGACAGCATCTCACCATGTTGCCAAGGCTGGTCTCAAACCTCCGGCGC
TCAAGTGATCCTCCTGCTTCAGCCTACCCATGTGCTGGCGTGAGCCACCGTAGGCGTGAGCCACCGTGCC
TGCCAAAATTCTTGGTCTATTCTGGATTCTAATTTTTTTTATGCACTCCTTAAGGCTTCTGGAAGAGA
AAGCAGAGTTGAAGAACCCTTTGAAAATGACATCTCCCAGTTAGTTGATGAAGTTGTTTGTGCTCTGCAG
CCAGTCATCCAGGATAAACCATTTGCAATTTTTGGCCACAGTATGGGATCCTACATTGCTTTTAGGACTG
CACTAGGTCTAAAAGAAAACAATCAACCAGAACCATTGCATTTATTTTTGTCAAGTGCAACTCCTGTACA
TTCAAAGGCCTGGCATCGCATTCCCAAAGATGATGAATTGTCAGAAGAACAATAAGTCATTACCTTATG
GAATTTGGAGGCACCCCAAGCATTGCTGAAGCCAAGGAATTTGTGAAACAATGTAGTCCCATCATAA
GGCAGATCTGAACATTGTTAGAAGTTGCACCTAACGTACCATCTAAGGCTGTCTTTCTGTGACTT
GACATGTTTTGTTGGATCTGAAGACATAGCAAAGGACATGGAAGCCTGAAAGATGTAACCAAGTGGAAAT
GCTAAAATTTACCAGCTCCAGGGGTCACTTTTATCTTCTGGATCCTGCGAACGAGAAATTAATCAAGA
ACTACATAATCAAGTGTCTAGAAGTATCATCGATATCCAATTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219627 representing NM_018324
 Red=Cloning site Green=Tags(s)

MERGDQPKRTRNENIFNCLYKNPEATFKLICFPWMGGGSTHFAKWGDTHDLEETASHHVAKAGLKLRR
 SSDPPASAYPCAGVSHRRREPPCLAKILGLFWILIFFMHSRLRPGRESRVEEPLENDISQLVDEVVCAEQ
 PVIQDKPF AFFGHSMGSYIAFR TALGLKENNQPEPLHLFLSSATPVHSKAWHRI PKDDELSEEQISHYLM
 EFGGTPKHFAEAKFVKQCSP IIRADLNIVRSC TSNVPSKAVL SCDLTCFVGSEDI AKDMEAWKDVTSGN
 AKIYQLPGGHFYLLDPANEKLIKNIYI IKCLEVSSISNF

TRTRPLE - GFP Tag - V

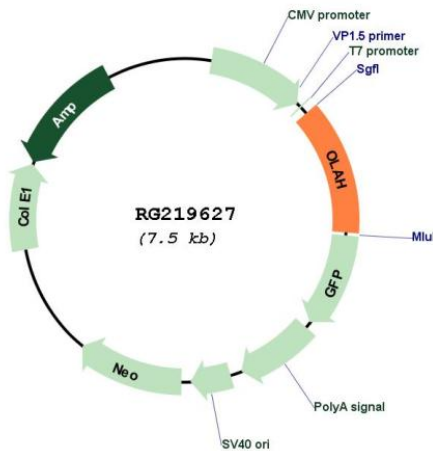
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_018324

ORF Size: 954 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_018324.3
RefSeq Size:	1765 bp
RefSeq ORF:	957 bp
Locus ID:	55301
UniProt ID:	Q9NV23
Cytogenetics:	10p13
Protein Pathways:	Fatty acid biosynthesis, Metabolic pathways
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]