

Product datasheet for RC219627

OLAH (NM_018324) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OLAH (NM_018324) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OLAH
Synonyms:	AURA1; SAST; TE2; THEDC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC219627 representing NM_018324 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGAGAGGAGACCAACCTAAGAGAACCAGGAATGAAAACATTTTCAACTGCTTATACAAAAACCCTG
AGGCAACTTTTAAGCTGATTTGCTTTCCCTGGATGGGAGGTGGCTCCACTCATTTTGCCAAATGGGGCCA
AGATACTCATGATTTGCTGGAAGAGACAGCATCTCACCATGTTGCCAAGGCTGGTCTCAAACCTCCGGCGC
TCAAGTGATCCTCCTGCTTCAGCCTACCCATGTGCTGGCGTGAGCCACCGTAGGGCTGAGCCACCGTGCC
TGCCAAAATTCTTGGTCTATTCTGGATTCTAATTTTTTTATGCACTCCTTAAGGCTTCTGGAAGAGA
AAGCAGAGTTGAAGAACCTCTTAAAAATGACATCTCCCAGTTAGTTGATGAAGTTGTTGTGCTCTGCAG
CCAGTCATCCAGGATAAAACCATTTGCATTTTTTGGCCACAGTATGGGATCCTACATTGCTTTTAGGACTG
CACTAGGTCTAAAAGAAAACAATCAACCAGAACCATTGCATTTATTTTTGTCAAGTGCAACTCCTGTACA
TTCAAAGGCTGGCATCGCATTCCCAAAGATGATGAATTGTCAGAAGAACAATAAGTCATTACCTTATG
GAATTTGGAGGCACCCCAAGCATTGCTGAAGCAAGGAATTTGTGAAACAATGTAGTCCCATCATAA
GGCAGATCTGAACATTGTTAGAAGTTGCACCTAACGTACCATCTAAGGCTGTCTTTCTGTGACTT
GACATGTTTTGTTGGATCTGAAGACATAGCAAAGGACATGGAAGCCTGAAAGATGTAACCAAGTGGAAAT
GCTAAAATTTACCAGCTCCAGGGGTCACTTTTATCTTCTGGATCCTGCGAACGAGAAATTAATCAAGA
ACTACATAATCAAGTGTCTAGAAGTATCATCGATATCCAATTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC219627 representing NM_018324
Red=Cloning site Green=Tags(s)

MERGDQPKRTRNENIFNCLYKNPEATFKLICFPWMGGGSTHFAKWGDTHDLEETASHHVAKAGLKLRR
 SSDPPASAYPCAGVSHRRREPPCLAKILGLFWILIFFMHSLRPLGRESRVEEPLENDISQLVDEVVALQ
 PVIQDKPF AFFGHSMGSYIAFR TALGLKENNQPEPLHLFLSSATPVHASKAWHRI PKDDELSEEQISHYLM
 EFGGTPKHFAEAK EFKQCSP IIRADLN IVR SCTSNVPSKAVL SCDLTCFVGSEDI AKDMEAWKDVTSGN
 AKIYQLPGGHFYLLDPANEKLIKNYIIKCLEVSSISNF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8051_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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:

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](#)

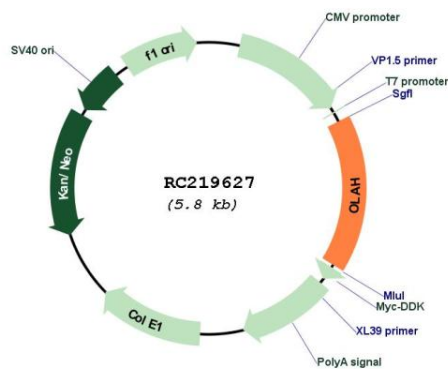
Cytogenetics: 10p13

Protein Pathways: Fatty acid biosynthesis, Metabolic pathways

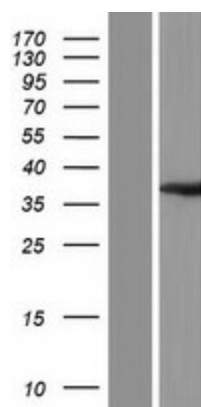
MW: 35.6 kDa

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 RC219627



Western blot validation of overexpression lysate (Cat# [LY413121]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219627 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).