

Product datasheet for **RC208251**

OLAH (NM_001039702) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OLAH (NM_001039702) 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:	>RC208251 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGAGAGGAGACCAACCTAAGAGAACCAGGAATGAAAACATTTTCAACTGCTTATACAAAAACCTG
AGGCAACTTTTAAGCTGATTTGCTTCCCTGGATGGGAGGTGGCTCCACTCATTTTGCCAAATGGGGCCA
AGATACTCATGATTTGCTGGAAGTGCACCTTAAGGCTTCTGGAAGAGAAAGCAGAGTTGAAGAACCT
CTTGAAAATGACATCTCCAGTTAGTTGATGAAGTTGTTTGTGCTCTGCAGCCAGTCATCCAGGATAAAC
CATTTGCATTTTTGGCCACAGTATGGGATCCTACATTGCTTTTAGGACTGCACTAGGTCTAAAAGAAAA
CAATCAACCAGAACCATTGCATTTATTTTTGTCAAGTGAACCTCTGTACATTCAAAGGCCTGGCATCGC
ATTCCCAAAGATGATGAATTGTCAGAAGAACAATAAGTCATTACCTTATGGAATTTGGAGGCACCCCCA
AGCATTTTGTGAAGCCAAGGAATTTGTGAAACAATGTAGTCCCATCATAAGGGCAGATCTGAACATTGT
TAGAAGTTGCACCTCTAACGTACCATCTAAGGCTGTTCTTTCCTGTGACTTGACATGTTTTGTTGGATCT
GAAGACATAGCAAAGGACATGGAAGCCTGGAAAGATGTAACCAGTGGAATGCTAAAATTTACCAGCTTC
CAGGGGTCACTTTTATCTTCTGGATCCTGCGAACGAGAAATTAATCAAGAACTACATAATCAAGTGTCT
AGAAGTATCATCGATATCCAATTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC208251 protein sequence
Red=Cloning site Green=Tags(s)

MERGDQPKRTRNENIFNCLYKNPEATFKLICFPWMGGGSTHFAKWGDTHDLLEVHSLRPLPGRESRVEEP
 LENDISQLVDEVVICALQPIQDKPFAFFGHSMGSYIAFRTALGLKENNQPEPLHLFLSSATPVHASKAWHR
 IPKDDELSEEQISHYLMFEGGTPKHFAEAKFVKQCSPPIRADLNIVRSCTSNVPSKAVLSCDLTFCFVGS
 EDIAKDMEAWKDVTSGNAKIYQLPGGHFYLLDPANEKLIKNYIIKCLEVSSISNF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6090_e09.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_001039702

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:

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_001039702.3](#)

RefSeq Size: 1675 bp

RefSeq ORF: 798 bp

Locus ID: 55301

UniProt ID: [Q9NV23](#)

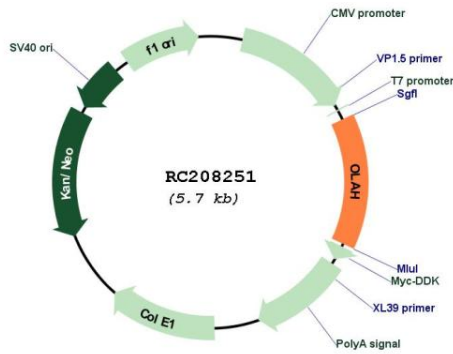
Cytogenetics: 10p13

Protein Pathways: Fatty acid biosynthesis, Metabolic pathways

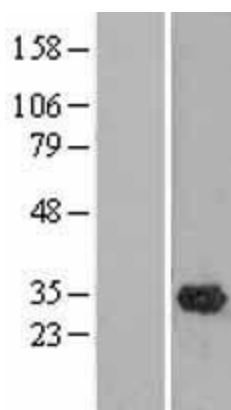
MW: 29.9 kDa

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]

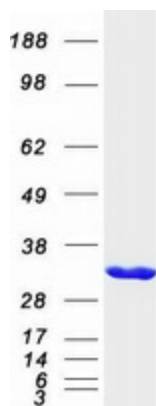
Product images:



Circular map for RC208251



Western blot validation of overexpression lysate (Cat# [LY400421]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208251 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified OLAH protein (Cat# [TP308251]). The protein was produced from HEK293T cells transfected with OLAH cDNA clone (Cat# RC208251) using MegaTran 2.0 (Cat# [TT210002]).