

Product datasheet for RC208644L1

OriGene Technologies, Inc.

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Fatty Acid Synthase (FASN) (NM_004104) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Fatty Acid Synthase (FASN) (NM_004104) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Fatty Acid Synthase

Synonyms: FAS; OA-519; SDR27X1

Mammalian Cell

Selection:

Vector: pLenti-C-Myc-DDK (PS100064)

None

E. coli Selection: Chloramphenicol (34 ug/mL)

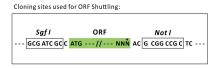
ORF Nucleotide

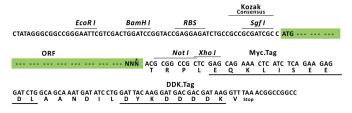
The ORF insert of this clone is exactly the same as(RC208644).

Sequence:

Restriction Sites: Sgfl-Notl

Cloning Scheme:





 $[\]ensuremath{^*}$ The last codon before the Stop codon of the ORF.

ACCN: NM_004104

ORF Size: 7533 bp





OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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. <u>More info</u>

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: <u>NM 004104.4</u>, <u>NP 004095.4</u>

 RefSeq Size:
 8481 bp

 RefSeq ORF:
 7536 bp

 Locus ID:
 2194

 UniProt ID:
 P49327

Cytogenetics: 17q25.3

Protein Families:

Protein Pathways: Fatty acid biosynthesis, Insulin signaling pathway, Metabolic pathways

Druggable Genome

MW: 273.2 kDa

Gene Summary: The enzyme encoded by this gene is a multifunctional protein. Its main function is to catalyze

the synthesis of palmitate from acetyl-CoA and malonyl-CoA, in the presence of NADPH, into long-chain saturated fatty acids. In some cancer cell lines, this protein has been found to be fused with estrogen receptor-alpha (ER-alpha), in which the N-terminus of FAS is fused in-

frame with the C-terminus of ER-alpha. [provided by RefSeq, Jul 2008]



Product images:

