

Product datasheet for **SC127829**

Fatty Acid Synthase (FASN) (NM_004104) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fatty Acid Synthase (FASN) (NM_004104) Human Untagged Clone
Tag:	Tag Free
Symbol:	Fatty Acid Synthase
Synonyms:	FAS; OA-519; SDR27X1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127829 sequence for NM_004104 edited (data generated by NextGen Sequencing)

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ATGGAGGAGGTGGTGATTGCCGGCATGTCCGGGAAGCTGCCAGAGTCGGAGAACTTGCAG
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Clone variation with respect to NM_004104.4

2522 c=>n;2523 c=>n;2524 t=>n;2525 g=>n;2648 g=>n;2649 c=>n;2650 g=>n;2651 t=>n;2652

c=>n;2653 c=>n;2654 t=>n;2655 c=>n;2656 t=>n;2657 t=>n;3452 a=>c;5593 c=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004104 unedited
CACGCACTATAGGGCGGCCGGAATCCCGGGATATCGTCGACCCACGCGTCCGGAGAGA
CGGCAGCGGCCCGGCCCTCCCTCTCCGCCGCGCTTCAGCCTCCCGCTCCGCCGCGCTCCA
GCCTCGCTCTCCGCCCGCCGACCGCCCGCCGCGCCCTACCAGAGCAGCCATGGAGGAG
GTGGTGATTGCCGCGATGTCCGGAAGCTGCCAGAGTCGGAGAATTGCAGGAGTTCTGG
GACAACCTCATCGGCGGTGTGGACATGGTCACGGACGATGACCGTCGCTGGAAGGCGGGG
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AGCCTGATGGCCCTGCAGAACGCCCTACCAGGCCATCCACAGCGGCGAGTGCCTGCCGCC
ATCGTGGGGGCATCAATGTCCTGCTGAAN

Restriction Sites:

Please inquire

ACCN:

NM_004104

Insert Size:

9000 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_004104.4](#), [NP_004095.4](#)

RefSeq Size:

8481 bp

RefSeq ORF:

7536 bp

Locus ID:

2194

UniProt ID:

[P49327](#)

Cytogenetics:

17q25.3

Protein Families:

Druggable Genome

Protein Pathways:

Fatty acid biosynthesis, Insulin signaling pathway, Metabolic pathways

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]