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Product datasheet for RC208644

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

Product data:

Product Type:	Expression Plasmids
Product Name:	Fatty Acid Synthase (FASN) (NM_004104) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fatty Acid Synthase
Synonyms:	FAS; OA-519; SDR27X1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC208644 representing NM_004104
Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RC208644 representing NM_004104
Red=Cloning site Green=Tags(s)

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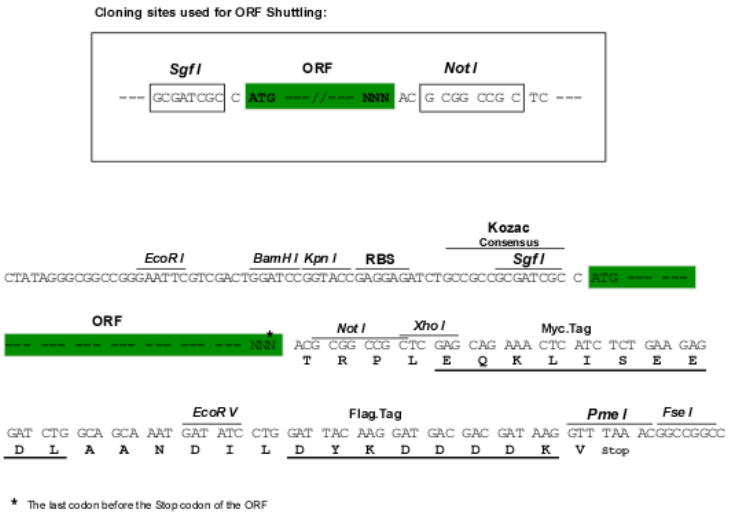
Restriction Sites: SgfI-NotI

Cloning Scheme:



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. 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.

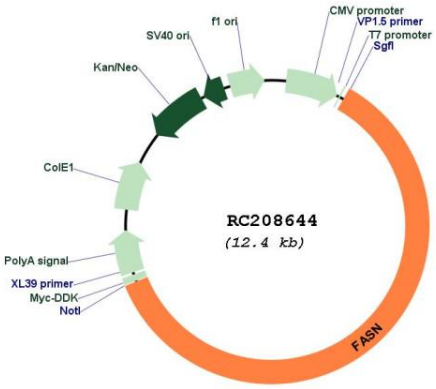
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

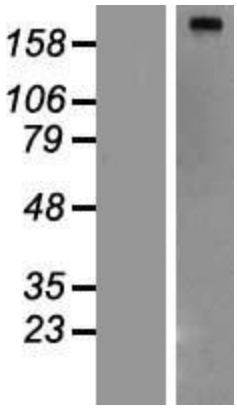
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
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
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]

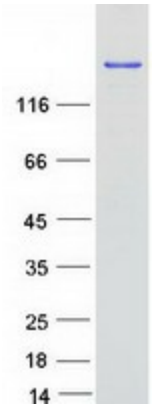
Product images:



Circular map for RC208644



Western blot validation of overexpression lysate (Cat# [LY418211]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208644 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FASN protein (Cat# [TP308644]). The protein was produced from HEK293T cells transfected with FASN cDNA clone (Cat# RC208644) using MegaTran 2.0 (Cat# [TT210002]).