

## Product datasheet for **TP308644M**

### Fatty Acid Synthase (FASN) (NM\_004104) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human fatty acid synthase (FASN), 100 µg
Species:	Human
Expression Host:	HEK293T



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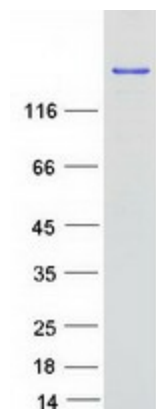
Expression cDNA Clone >RC208644 representing NM\_004104  
 or AA Sequence: Red=Cloning site Green=Tags(s)

MEEVVIAGMSGKLPESENLQEFWDNLIGGVDMMVDDRRWKAGLYGLPRRSGKLDLSRFDASFFGVHPK  
 QAHTMDPQLRLLLEVTYEAIVDGGINPDLSLRGTHGTGVVWGVSGSETSEALS RDPETLVGYSMVGCQRAMM  
 ANRLSFFFDFRGP SIALDTACSSSLMALQNAYQAIHSGQC PAAIVGGINVLKPN TSVQFLRLGMLSPEG  
 TCKAFD TAGNGYCRSEGVAVLLTKKSLARRVYATILNAGTNTDGFKEQGVTFPSGDIQEQLIRSLYQSA  
 GVAPESFEYIEAHGTGTVKVGDPQELNGITRALCATRQEPLLIGSTKSNM GHPEPASGLAALAKVLLSLEH  
 GLWAPNLHFHSPNPEIPALLDGR LQVVDQPLPVRGGNVGINSFGFGGSNVHIILRPNTQPPPAPAPHATL  
 PRLLRASGRTP EAVQKLEQGLRHSQDLAFLSMLNDIAAVPATAMPFRGYAVLGGERRGGPEVQQVPAGER  
 PLWFICSGMGTQWRGMGLSLMRLDRFRDSILRSDEAVKPFGLKVSQ LLLSTDESTFDDIVHSFVSLTAIQ  
 IGLIDLLSCMGLRPDGIVGHSLGEVACGYADGCLSQEEAVLAAYWRGQC IKAHLPPGAMA AVGLSWEEC  
 KQRCPPGVVPACHNSKDTVTISGPQAPVFEFVEQLRKEGVFAKEV RTGGMAFH SYFMEAIAPLLQELKK  
 VIREPKPRSARWLSTSIPEAQWHSSLARTSSAEYNVNNLVSPVLFQEALWHVPEHAVVLEIAPHALLQAV  
 LKRG LKPSCTIIPLMKKDHRDNLEFFLAGIGRLHLSGIDANPNALFPPVEFPAPRGTPLISPLIKWDHSL  
 AWDVPA AEDFPNGSGSPSAIYNIDTSSESP DHYLV DHTLDGRVLPATGYLSIVWKTLARALGLGVEQL  
 PVVFEDWLHQATILPKTGTVSLEVR LLEASRAFEVSENGNLV VSGKVYQWDDDPRLFDHPESPTPNPT  
 EPLFLAQAEVYKELRLRGYDYGPHFQGILEASLEGDSGRLLWKDNWVSFMDTMLQMSILGSAKHGLYLPT  
 RVTAIHIDPATHRQKLYTLQDKAQVADV VSRWLRVTVAGGVHISGLHTESAPRRQEQQVPILEKFCFT  
 PHTEEGCLSERAA LQEELQLCKGLVQALQTTVTQQGLKMVWPGLDGAQIPRDP SQQELPRLLSAACRLQL  
 NGNLQLELAQVLAQERPKLPEDPLLSGLLDSPALKA CLDTAVENMP SLKMKVVEVLAGHGHLYSRIPGLL  
 SPHPLLQLSY TATDRHPQALEAAQAE LQQHDVAQGGWDPADPAPSALGSADLLVCNCAVAALGDPASALS  
 NMVAALREGGFLLH LTLRGHPLGDIVAF LTSTEPQYGGILS QDAWESLFSRVSLRLVGLKKSFGSTL  
 FLCRRPTPQDSPIFLPVDDTSFRWVESLKGILADE DSSRPVWLKAINCATSGV VGLVNLCLRREP GGNRLR  
 CVLLSNLSSTSHVPEVDPGSAELQKVLQGD LVMNVYRDGAWGAFRHF LLEEDKPEEPTAHAFVSTLTRGD  
 LSSIRWVCSSLRHAQPTCPGAQLCTVYYASLNFRDIMLATGK LSPDAIPGKWTSQDSLLGMEFSGRDASG  
 KRVMGLVPAKGLATSVLLSPDFLWDVPSNWTLEEAASVPVY STAYALVVRGRV RPGETLLIHSGSGGV  
 GQAAIAIALSLGCRVFTTVGSAEKRAYLQARFPQLDSTSFANSR DTSFEQHVLWHTGGKGVDLVLSLAE  
 EKLQASVRCLATHGRFLEIGKFDLSQNHPLGMAIFLKNVTFHGVLLDAFFNESSADWREWWALVQAGIRD  
 GVRPLKCTVFHGAQVEDAFRYMAQGHIGKVVVQVLAEEPEAVLKGAKPKLMSAISKTFCPAHKSYIIA  
 GGLGGFGLELAQWLIQRGVQKLVLT SRSGIRTGYQAKQVRRWR RQGVQVQVSTSNISSLEGARGLIAEAA  
 QLGPGVGGVFNLA VLRDGLLENQTP EFFQDVCKPKYSGTLNLD RVTREACPELDYFVVFSSVSCGRGNAG  
 QSNYGFANSAMERICEKRRHEGLPGLAVQWGAIGDV GILVETMSTNDTIVSGTLPQRMASCLEVLDFLNL  
 QPHMVLSSFVLAEKAAAYRDRDSQRDLVEAVAHILGIRDLAAVNLDSSLADLGLDSLMSVEVRQTLEREL  
 NLVLSVREVRQLTLRKLQELSSKADEASELACPTPKEDGLAQQQTQLNLRSLLVNPEGPTLMRLNSVQSS  
 ERPLFLVHPIEGSTTVFHSLASRLSIPTYGLQCTRAAPLDSIHS LAAYYIDCIRQVQPEGPYRVAGYSYG  
 ACVAFEMCSQLQAQQSPAPTHNSLFLFDGSPTYVLAYTQSYRAK LTPGCEAEAEAEICFFVQQFTDMEH  
 NRVLEALLPLKGLEERVA AAVDLIIKSHQGLDRQELSFAARSFY YKLRAAEQYTPKAKYHGNVMLLRAKT  
 GGAYGEDLGADYNLSQVCDGKVSVHVIEGDHRTLLEGGSGLESIIIIHSSLAEP RVS VREG

TRRLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

<b>Predicted MW:</b>	273.2 kDa
<b>Concentration:</b>	>0.1 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_004095</a>
<b>Locus ID:</b>	2194
<b>UniProt ID:</b>	<a href="#">P49327</a>
<b>RefSeq Size:</b>	8481
<b>Cytogenetics:</b>	17q25.3
<b>RefSeq ORF:</b>	7533
<b>Synonyms:</b>	FAS; OA-519; SDR27X1
<b>Summary:</b>	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]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Fatty acid biosynthesis, Insulin signaling pathway, Metabolic pathways

**Product images:**

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]).