

Product datasheet for **TP308644L**

Fatty Acid Synthase (FASN) (NM_004104) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human fatty acid synthase (FASN), 1 mg
Species:	Human
Expression Host:	HEK293T



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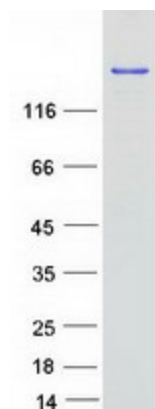
Expression cDNA Clone >RC208644 representing NM_004104
 or AA Sequence: Red=Cloning site Green=Tags(s)

MEEVVIAGMSGKLPESENLQEFWDNLIGGVDMMVDDRRWKAGLYGLPRRSGKLDLSRFDASFFGVHPK
 QAHTMDPQLRLLLEVTYEAIVDGGINPDLSLRGTHGTGVVWGVSGSETSEALS RDPETLVGYSMVGCQRAMM
 ANRLSFFDFRGP SIALDTACSSSLMALQNAYQAIHSGQC PAAIVGGINVLKPN TSVQFLRLGMLSPEG
 TCKAFD TAGNGYCRSEGVAVLLTKKSLARRVYATILNAGTNTDGFKEQGVTFPSGDIQEQLIRSLYQSA
 GVAPESFEYIEAHGTGTVKVGDPQELNGITRALCATRQEPLLIGSTKSNMGHPASGLAALAKVLLSLEH
 GLWAPNLHFHSPNPEIPALLDGR LQVVDQPLPVRGGNVGINSFGFGGSNVHIILRPNTQPPPAPAPHATL
 PRLLRASGRTP EAVQKLEQGLRHSQDLAFLSMLNDIAAVPATAMPFRGYAVLGGERRGGPEVQVPAGER
 PLWFICSGMGTQWRGMGLSLMRLDRFRDSILRSDEAVKPFGLKVSQ LLLSTDESTFDDIVHSFVSLTAIQ
 IGLIDL LSCMLRPDGIVGHSLGEVACGYADGCLSQEEAVLAAYWRGQC KEAHLPPGAMA AVGLSWEEC
 KQRCPPGVVPACHNSKDTVTISGPQAPVFEFVEQLRKEGVFAKEVRTGGMAFH SYFMEAIAPLLQELKK
 VIREPKPRSARWLSTSIPEAQWHSSLARTSSAEYNNVNLVSPVLFQEALWHVPEHAVVLEIAPHALLQAV
 LKRG LKPSCTIIPLMKKDHRDNLEFFLAGIGRLHLSGIDANPNALFPPVEFPAPRGTPLISPLIKWDHSL
 AWDVPA AEDFPNGSGSPSAAIYNIDTSSESP DHYLV DHTLDGRVLPATGYLSIVWKTLARALGLGVEQL
 PVVFEDWLHQATILPKTGTVSLEVR LLEASRAFEVSENGNLVSVGK VYQWDDDPRLFDHPESPTPNPT
 EPLFLAQAEVYKELRLRGYDYGPHFQGILEASLEGDSGRLLWKDNWVSFMDTMLQMSILGSAKHGLYLPT
 RVTAIHIDPATHRQKLYTLQDKAQVADV VSRWLRVTVAGGVHISGLHTESAPRRQEQQVPILEKFCFT
 PHTEEGCLSERAA LQEELQLCKGLVQALQTTVTQQGLKMVWPGLDGAQIPRDP SQQELPRLLS AACRLQL
 NGNLQLELAQVLAQERPKLPEDPLLSGLLDSPALKA CLDTAVENMPSLKMKVVEVLAGHGHLYSRIPGLL
 SPHPLLQLSY TATDRHPQALEAAQAE LQQHDVAQGGWDPADPAPSALGSADLLVCNCAVAALGDPASALS
 NMVAALREGGFL LLHTLLRGHPLGDIVAF L TSTEPQYGGILS QDAWESLFSRVSLRLVGLKKSFGSTL
 FLCRRPTPQDSPIFLPVDDTSFRWVESLKGILADE DSSRPVWLKAINCATSGV VGLVNLCLRREP GGNRLR
 CVLLSNLSSTSHVPEVDPGSAELQKVLQGD LVMNVYRDGAWGAFRHFLL EEDKPEEPTAHAFVSTLTRGD
 LSSIRWVCSSLRHAQPTCPGAQLCTVYYASLNFRDIMLATGK LSPDAIPGKWTSQDSLLGMEFSGRDASG
 KRVMGLVPAKGLATSVLLSPDFLWDVPSNWTLEEAASVPVY STAYALVVRGRV R PGETLLIHSGSGGV
 GQAAIAIALSLGCRVFTTVGSAEKRAYLQARFPQLDSTSFANSR DTSFEQHVLWHTGGKGVLDL VNSLAE
 EKLQASVRCLATHGRFLEIGKFDLSQNHPLGMAIFLKNVTFHGVLLDAFFNESSADWREWWALVQAGIRD
 GVRPLKCTVFHGAQVEDAFRYMAQGHIGKVVVQVLAEEPEAVLKGAKPKLMSAISKTFCPAHKSYIIA
 GGLGGFGLELAQWLIQRGVQKLVLT SRSGIRTGYQAKQVRRWR RQGVQVQVSTSNISSLEGARGLIAEAA
 QLGPGVGGVFNLA VLRDGLLENQTP EFFQDVCKPKYSGLTNLDRVTREACPELDYFV FSSVSCGRGNAG
 QSNYGFANSAMERICEKRRHEGLPGLAVQWGAIGDV GILVETMSTNDTIVSGTLPQR MASCLEVLDFLNL
 QPHMVLSSFVLAEKAAAYRDRDSQRDLVEAVAHILGIRDLAAVNLDSSLADLGLDSLMSVEVRQTLEREL
 NLVLSVREVRQLTLRKLQELSSKADEASELACPTPKEDGLAQQQTQLNLRSLLVNPEGPTLMRLNSVQSS
 ERPLFLVHPIEGSTTVFHSLASRLSIPTYGLQCTRAAPLDSIHS LAAYYIDCIRQVQPEGPYRVAGYSYG
 ACVAFEMCSQLQAQQSPAPATHNSLFLFDGSP TYVLAYTQSYRAKLT PGCEAEAEAEICFFVQQFTDMEH
 NRVLEALLPLKGLEERVA AAVDLIIKSHQGLDRQELSFAARSFY YKLRAAEQYTPKAKYHGNVMLLRAKT
 GGAYGEDLGADYNLSQVCDGKVSVHVIEGDHRTLLEGGSGLESIIIIHSSLAEP RVS VREG

TRRLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

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