

Product datasheet for TP308644

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

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human fatty acid synthase (FASN), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC208644 representing NM_004104 Red =Cloning site Green =Tags(s)

MEEVIAGMSGKLPESENLQEFWDNLIGGVDMMVTDDRRWKAGLYGLPRRSGLKDLRSRFDASFFGVHP
K
QAHTMDPQLRLLLEVTYEAIVDGGINPDSLGRGHTGVWVGVSSETSEALSRDPETLVGYSMVGCQRAM
M
ANRSLFFFDFRGPISALDTACSSSLMALQNAIQAIHSGQCPAAIVGGINVLKPNSTVQFLRLGMLSPEG
TCKAFDTAGNGYCRSEGWVAVLLTKKSLARRVYATILNAGTNTDGFKEQGVTFPSGDIQEQIRLSLYQSA
GVAPESFEYIEAHGTGTKVGDQPQLNGITRALCATRQEPLIGSTKSNMGHPEPASGLAALAKVLLSLEH
GLWAPNLHFHSPNPEIPALLDGRLQVVDQPLPVRGGNVGINSFGFGGSNVHILRPNTQPPPAPAPHATL
PRLLRASGRTPAVQKLEEQGLRHSQDLAFLSMLNDIAAVPATAMPFRGYAVLGGGERGGPEVQVQVAGER
PLWFCISGMGTQWRGMGLSLMRLDRFRDSILRSDEAVKPFGLKVSQLLLSTDESTFDDIVHSFVSLTAIQ
IGLIDLLSCMGLRPDQVGHSLGEVACGYADGCLSQEEAVLAAYWRGQCIKEAHLPPGAMAAVGLSWEEC
KQRCPPGVVPACHNSKDTVTISGPQAPVFEFVEQLRKEGVFAKEVRTGGMAFHSYFMEAIAPLLQELKK
VIREPKPRSARWLSTSIPEAQWHSSLARTSSAEYNVNNLVSPVLFQEALWHVPEHAVVLEIAPHALLQAV
LKRGLKPSTIIPLMKKDHRDNLEFFLAGIGRLHLSGIDANPNALFPPVEFPAPRGTPPLISPLIKWDHSL
AWDVPAAEFPNGSGSPSAIYNIDTSSSPDHVLDHTLDGRVLPATGYLSIVWKTARALGLGVEQL
PVVFEDVVLHQATILPKTGTVSLEVRLLLEASRAFEVSENGNLVVSQKVVQWDDPDRFLDPHESPTPNPT
EPLFLAQAEVYKELRLRGYDYGPHFQGILEASLEGDSGRLLWKDNWVFMDFMTMLQMSILGSAKHGLYLPT
RVTAIHIDPATHRQKLYTLQDKAQVADVVSRLRVTVAGGVHISGLHTESAPRRQQEQVPILEKFCFT
PHTEEGCLSERAAEQEELQLCKGLVQALQTTVTQQGLKMWVPLDGAQIPRDPSSQQLPRLLSAACRLQL
NGNLQLELAQVLAQERPKLPEDPLLSGLLDSPALKACLDATAVENMPSLKMKVVEVLGHGHLYSRIPGLL
SPHPLLQLSYTATDRHPQALEAAQAEQQHDVAQGGQWDPADPAPSALGSADLLVCNCAVAALGDPASA
LS
NMVAALREGGFLLLHTLLRGHPLGDIVAFLTSTEPQYQGILSQDAWESLFSRVSLRLVGLKKSFGSTL
FLCRRPTQDPIFLPVDDTSFRWVESLKGILADESSRPVWLKAINCATSGVVGLVNCLRREPGENRLR
CVLLSNLSSTSHVPEVDPGSAELQKVLQGDLMNVYRDGAWGAFRHFLLEEDKPEEPTAHAFVSTLTRGD
LSSIRWVCSLRHAQPTCPGAQLCTVYYASLNRDIMLATGKLSPPAIPGKWTSSQDSSLGMEFSGRDASG



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KRVMGLVPAKGLATSVLLSPDFLWDVPSNWTLEEASVPVYSTAYYALVWRGRVRPGETLLIHSGSGGV
GQAAIAIALSLGCRVFTTVGSAEKRAYLQARFPQLDSTSFANSRDTSFEQHVLWHTGGKGVLDLNLAE
EKLQASVRCLATHGRFLEIGKFDLSQNHPLGMAIFLKNVTFHGVLLDAFFNESSADWREVVWALVQAGIRD
GVVRPLKCTVFHGAQVEDAFRYMAQKGKHHGKVVVQVLAEEPEAVLKGAKPKLMSAISKTFCPAHKSYIIA
GGLGGFGLAQLWLIQRGVQKLVLTSRSGIRTGYQAKQVRRWRRQGVQVQVSTSNISLEGARGLIAEAA
QLGPVGGVFNLAVLRDGLLENQTPEFFQDVCKPKYSGTLNLDRTREACPELDYFVVFSSVSCGRGNAG
QSNYGFANSAMERICEKRRHEGLPGLAVQWGAIGDVGILVETMSTNDTIVSGTLPQRMASCLEVLDFLN
QPHMVLSSFVLAEKAAAYRDRDSQRDLVEAVAHLGIRDLAAVNLDSSLADLGLDSLMSVEVRQTLEREL
NLVLSVREVRQLTLRKLQELSSKADEASELACPTPKEDGLAQQQTQLNLRSLLVNPEGPTLMRLNSVQSS
ERPLFLVHPIEGSTTVFHSLASRLSIPTYGLQCTRAAPLDSIHSLAAYYIDCIRQVQPEGPYRVAGYSYG
ACVAFEMCSQLQAQQSPAPTHNSLFLFDGSPTYVLAYTQSYRAKLTGCEAEAEAEICFFVQQFTDMEH
NRVLEALLPLKLEERVAAAVDLIKSHQGLDRQELSFARSFYKLRAAEQYTPKAKYHGNVMLLRAKT
GGAYGEDLGADYNLSQVCDGKVSVHVIEGDHRTLLEGGSGLESIIHSSLAEPVSVREG

TRRLEQKLISEEDLAANDILDYKDDDDKV

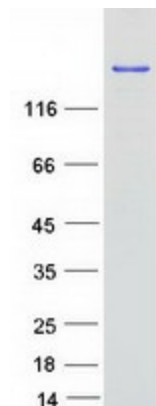
Tag:	C-Myc/DDK
Predicted MW:	273.2 kDa
Concentration:	>0.1 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity 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]).