

Product datasheet for MR212123

Fasn (NM_007988) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fasn (NM_007988) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Fasn
Synonyms: A630082H08Rik; FAS
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR212123 representing NM_007988
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGAGGTGGTGTATAGCCGGTATGTCGGGAAGTTGCCCGAGTCAGAGAACCTACAGGAGTTCTGGG
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Protein Sequence: >MR212123 representing NM_007988
 Red=Cloning site Green=Tags(s)

MEEVVIAGMSGKLPESENLQEFWANLIGGVMVTD DRRWKAGLYGLPKRSGKLDL SKFDASFFGVHPK
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 ANRLSFFFDFKGPSIALDTACSSLLALQNA YQAIRSGECPAALVGGINLLLKPNTSVQFMKLGMLSPDG
 TCRSFDDSGSGYCRSEAVVAVLLTKKSLARRVYATILNAGTNTDGSKEQGVTFPSGEVQEQLICSLYQPA
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 IALIDLLTSVGLKPDG IIGHSLGEVACGYADGCLSQREAVLAAYWRGQC IKDAHLPPG S M A A V L S W E E C
 KQRC P A G V V P A C H N S E D T V T I S G P Q A A V N E F V E Q L K Q E G V F A K E V R T G G L A F H S Y F M E G I A P T L L Q A L K K
 VIREPRRSARWLSTSIPEAQWQSSLARTSSAEYNNVNLVSPVLFQEALWHIPEHAVVLEIAPHALLQAV
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 LKEGGFLLVHTVLKGHALGETLACL PSEVQPAP SLLSQEWESELFSRKALHLVGLKRSFYGTALFLCRRR
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 SNTSHAPKLDPGSPELQQVLK HDLVMNYYRDGAWGAFRHFQLEQDKPKEQT AHAFVNVL TRGD L A S I R W V
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 PAEGLATSVLLSSDFLWDVPSSWTL EEAASVPVYTTAYSLVVRGRIQRGETVL IHS G S G G V G Q A A I S I
 ALSLGRVFTTVGSAEKRAYLQARFPQLDDT SFANSRDT SFEQHVL LHTGGKGV DLV LNSLAE EK L Q A S V
 RCLAQHGRFLEIGKFDL SNNHPLGMAIFLKNVTFHGILLDALFEEANDSWREVAALLKAGIRDG VVKPLK
 CTVFPKAQVEDAFRYMAQGHIGKVLVQVREEEPEAVLPGAQPTLISAIKTFCPAHKSYIITGGLGGFG
 LELARWLVLGAQRLVLSRSGIRTGYQAKHIREWRRQGIQVLVSTSNVSSLEGARALIAEATKLG PVGG
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 SFVLAEEKAVAHGDGDTQRDLVKAVAHILGIRDLAGINLDSTLADLGLDSL MGVEVRQILEREHDLV LPM
 REV R Q L T L R K L Q E M S S K T D S A T D T T A P K S R S D T S L K Q N Q L N L S T L L V N P E G P T L T Q L N S V Q S S E R P L F L V
 HPIEGSTTVFHS LAAKLSVPTYGLQCTQAAPLDSIPNLAAYYIDCIKQVQPEGPYRIAGYSFGACVAFEM
 CSQLQAQGPAPTHNNLFLFDGSHTYVLA Y T Q S Y R A K M T P G C E A E A E A E A L C F F I K Q F L D V E H S K V L E A L
 LPLKSLDRVAASVDLITKSHSLDRREL SFAAVSFYHKLRAADQYKPKAKYHGNVTL LRAKTGGTYGED
 LGADYNLSQVCDGKVSVHIIEGDHRTLLEGSGLESIINI IHSSLAEP R V S V R E G

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:


ACCN: NM_007988

ORF Size: 7512 bp

OTI Disclaimer: 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.

RefSeq: [NM_007988.3](#), [NP_032014.3](#)

RefSeq Size: 9938 bp

RefSeq ORF: 7515 bp

Locus ID: 14104

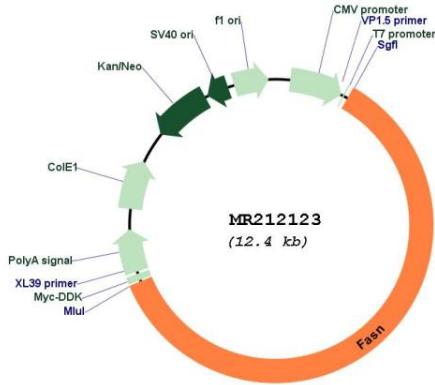
UniProt ID: [P19096](#)

Cytogenetics: 11 84.56 cM

MW: 272.9 kDa

Gene Summary: Fatty acid synthetase catalyzes the formation of long-chain fatty acids from acetyl-CoA, malonyl-CoA and NADPH. This multifunctional protein has 7 catalytic activities as an acyl carrier protein.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR212123