

## Recombinant Mouse Fasn protein, His/Myc-tagged

**Cat. No.** Fasn-596M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Mouse Fasn(2201-2504aa) fused with N-terminal His tag and C-terminal Myc tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | 2201-2504aa                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</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. |
| <b>Form</b>             | Tris-based buffer,50% glycerol                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purity</b>           | >90% ( SDS-PAGE )                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage</b>          | Store at -20 centigrade, for extended storage, conserve at -20 centigrade or -80 centigrade. Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.                                                                                                                                                                                                                 |

### GENE INFORMATION

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | Fasn fatty acid synthase [ Mus musculus ]                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Official Symbol</b>     | Fasn                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>            | FASN; fatty acid synthase; FAS; A630082H08Rik;                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Gene ID</b>             | 14104                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>mRNA Refseq</b>         | NM_007988                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Protein Refseq</b>      | NP_032014                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>MIM</b>                 |                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>UniProt ID</b>          | P19096                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Chromosome Location</b> | 11 E2; 11 84.56 cM                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Pathway</b>             | ChREBP activates metabolic gene expression, organism-specific biosystem; Fatty Acid Biosynthesis, organism-specific biosystem; Fatty Acyl-CoA Biosynthesis, organism-specific biosystem; Fatty acid biosynthesis, organism-specific biosystem; Fatty acid biosynthesis, conserved biosystem; Fatty acid biosynthesis, elongation, organism-specific biosystem; Fatty acid biosynthesis, elongation, conserved biosystem; |
| <b>Function</b>            | 3-hydroxypalmitoyl-[acyl-carrier-protein] dehydratase activity; 3-oxoacyl-[acyl-carrier-protein] reductase (NADPH) activity; 3-oxoacyl-[acyl-carrier-protein] synthase activity; [acyl-carrier-protein] S-acetyltransferase activity; [acyl-carrier-protein] S-                                                                                                                                                          |

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