

## Recombinant Human ACSBG1, GST-tagged

**Cat. No.** ACSBG1-9315H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                              |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human ACSBG1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                        |
| <b>Source</b>           | E.coli                                                                                                                                                                                       |
| <b>ProteinLength</b>    | 404-686a.a.                                                                                                                                                                                  |
| <b>Description</b>      | The protein encoded by this gene possesses long-chain acyl-CoA synthetase activity. It is thought to play a central role in brain very long-chain fatty acids metabolism and myelinogenesis. |
| <b>Storage</b>          | The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.                                                                                                    |
| <b>Storage Buffer</b>   | 1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.                            |

### GENE INFORMATION

|                        |                                                                       |
|------------------------|-----------------------------------------------------------------------|
| <b>Gene Name</b>       | ACSBG1 acyl-CoA synthetase bubblegum family member 1 [ Homo sapiens ] |
| <b>Official Symbol</b> | ACSBG1                                                                |

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|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>            | ACSBG1; acyl-CoA synthetase bubblegum family member 1; long-chain-fatty-acid--CoA ligase ACSBG1; BG1; BGM; bubblegum; FLJ30320; hBG1; hsBG; KIAA0631; lipidosin; MGC14352; very long chain acyl CoA synthetase; very long-chain acyl-CoA synthetase; BG; LPD; GR-LACS;                                                                                                 |
| <b>Gene ID</b>             | <a href="#">23205</a>                                                                                                                                                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>         | <a href="#">NM_001199377</a>                                                                                                                                                                                                                                                                                                                                           |
| <b>Protein Refseq</b>      | <a href="#">NP_001186306</a>                                                                                                                                                                                                                                                                                                                                           |
| <b>MIM</b>                 | <a href="#">614362</a>                                                                                                                                                                                                                                                                                                                                                 |
| <b>UniProt ID</b>          | <a href="#">Q96GR2</a>                                                                                                                                                                                                                                                                                                                                                 |
| <b>Chromosome Location</b> | 15q23-q24                                                                                                                                                                                                                                                                                                                                                              |
| <b>Pathway</b>             | Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Fatty acid metabolism, organism-specific biosystem; Fatty acid metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; PPAR signaling pathway, organism-specific biosystem; PPAR signaling pathway, conserved biosystem; |
| <b>Function</b>            | ATP binding; ligase activity; long-chain fatty acid-CoA ligase activity; nucleotide binding; very long-chain fatty acid-CoA ligase activity;                                                                                                                                                                                                                           |