

# Recombinant Full Length Human CLPS Protein, GST-tagged

**Cat. No.** CLPS-1888HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human CLPS full-length ORF ( AAH07061, 1 a.a. - 112 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | 112 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | The protein encoded by this gene is a cofactor needed by pancreatic lipase for efficient dietary lipid hydrolysis. It binds to the C-terminal, non-catalytic domain of lipase, thereby stabilizing an active conformation and considerably increasing the overall hydrophobic binding site. The gene product allows lipase to anchor noncovalently to the surface of lipid micelles, counteracting the destabilizing influence of intestinal bile salts. This cofactor is only expressed in pancreatic acinar cells, suggesting regulation of expression by tissue-specific elements. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011] |
| <b>Molecular Mass</b>   | 38.06 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>AA Sequence</b>      | MEKILILLVSVAYAAPGPRGIIINLENGELCMNSAQCKSNCCQHSSALGLARCTS<br>MASENSECSVKTLTYGIYYKPCERGLTCEGDKTIVGSITNTNFGICHDAGRSKQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|                       |                                                                            |
|-----------------------|----------------------------------------------------------------------------|
|                       | Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array |
| <b>Notes</b>          | Best use within three months from the date of receipt of this protein.     |
| <b>Storage</b>        | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.   |
| <b>Storage Buffer</b> | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.   |

## GENE INFORMATION

|                        |                                                                                          |
|------------------------|------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CLPS colipase, pancreatic [Homo sapiens]                                                 |
| <b>Official Symbol</b> | CLPS                                                                                     |
| <b>Synonyms</b>        | colipase, pancreatic; colipase; pancreatic colipase preproprotein;<br>OTTHUMP00000016271 |
| <b>Gene ID</b>         | 1208                                                                                     |
| <b>mRNA Refseq</b>     | NM_001832                                                                                |
| <b>Protein Refseq</b>  | NP_001823                                                                                |
| <b>MIM</b>             | 120105                                                                                   |
| <b>UniProt ID</b>      | P04118                                                                                   |

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