

## Recombinant Mouse Sgta Protein, Myc/DDK-tagged

**Cat. No.** Sgta-5830M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Product Overview</b> | Purified recombinant protein of mouse full-length small glutamine-rich tetratricopeptide repeat (TPR)-containing, alpha (Sgta), with C-terminal MYC/DDK tag, expressed in HEK293T cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | Co-chaperone that binds misfolded and hydrophobic patches-containing client proteins in the cytosol. Mediates their targeting to the endoplasmic reticulum but also regulates their sorting to the proteasome when targeting fails. Functions in tail-anchored/type II transmembrane proteins membrane insertion constituting with ASNA1 and the BAG6 complex a targeting module. Functions upstream of the BAG6 complex and ASNA1, binding more rapidly the transmembrane domain of newly synthesized proteins. It is also involved in the regulation of the endoplasmic reticulum-associated misfolded protein catabolic process via its interaction with BAG6: collaborates with the BAG6 complex to maintain hydrophobic substrates in non-ubiquitinated states. Competes with RNF126 for interaction with BAG6, preventing the ubiquitination of client proteins associated with the BAG6 complex. Binds directly to HSC70 and HSP70 and regulates their ATPase activity. |
| <b>Molecular Mass</b>   | 34.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

 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

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|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>      | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| <b>Storage</b>        | Store at -80 centigrade after receiving vials.                                                                                                |
| <b>Concentration</b>  | >50 µg/mL as determined by microplate BCA method                                                                                              |
| <b>Storage Buffer</b> | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                         |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Sgta small glutamine-rich tetratricopeptide repeat (TPR)-containing, alpha [ Mus musculus (house mouse) ]                                                                                                                                                                                      |
| <b>Official Symbol</b> | Sgta                                                                                                                                                                                                                                                                                           |
| <b>Synonyms</b>        | SGTA; small glutamine-rich tetratricopeptide repeat (TPR)-containing, alpha; small glutamine-rich tetratricopeptide repeat-containing protein alpha; alpha-SGT; small glutamine-rich tetratricopeptide repeat (TPR) containing protein; Sgt; Stg; AI194281; D10Ert190e; MGC6336; 5330427H01Rik |
| <b>Gene ID</b>         | 52551                                                                                                                                                                                                                                                                                          |
| <b>mRNA Refseq</b>     | NM_024499                                                                                                                                                                                                                                                                                      |
| <b>Protein Refseq</b>  | NP_078775                                                                                                                                                                                                                                                                                      |
| <b>UniProt ID</b>      | Q8BJU0                                                                                                                                                                                                                                                                                         |

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