

## Recombinant Rat Slc44a4 Protein, His-tagged

**Cat. No.** Slc44a4-868R    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>Product Overview</b> | Recombinant Rat Slc44a4 Protein (Trp54-Trp227) with His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>    | Trp54-Trp227                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | Predicted to enable choline transmembrane transporter activity and thiamine pyrophosphate transmembrane transporter activity. Predicted to be involved in several processes, including acetylcholine biosynthetic process; organic cation transport; and sensory organ development. Predicted to be located in apical plasma membrane. Predicted to be active in plasma membrane. Human ortholog(s) of this gene implicated in autosomal dominant nonsyndromic deafness 72. Orthologous to human SLC44A4 (solute carrier family 44 member 4). |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 22.8 kDa; Accurate Molecular Mass: 23 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>           | > 90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Applications</b>     | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

 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>        | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>          | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Storage Buffer</b>   | PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                      |
| <b>Reconstitution</b>   | Reconstitute in PBS or others.                                                                                                                                                                                                                                                                                                               |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                              |
| <b>Gene Name</b>        | Slc44a4 solute carrier family 44, member 4 [ <i>Rattus norvegicus</i> (Norway rat) ]                                                                                                                                                                                                                                                         |
| <b>Official Symbol</b>  | Slc44a4                                                                                                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>         | Slc44a4; solute carrier family 44, member 4; Ng22; choline transporter-like protein 4; thiamine pyrophosphate transporter 1                                                                                                                                                                                                                  |
| <b>Gene ID</b>          | 294255                                                                                                                                                                                                                                                                                                                                       |
| <b>mRNA Refseq</b>      | NM_212541                                                                                                                                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>   | NP_997706                                                                                                                                                                                                                                                                                                                                    |
| <b>UniProt ID</b>       | Q6MG71                                                                                                                                                                                                                                                                                                                                       |

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