

## Recombinant Rat Arc Protein, His-tagged

**Cat. No.** Arc-241R    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Rat Arc Protein (Gln204-Glu396) with N-His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | Gln204-Glu396                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | Enables mRNA binding activity. Involved in several processes, including learning or memory; positive regulation of AMPA receptor activity; and regulation of synaptic plasticity. Located in actin cytoskeleton and extracellular vesicle. Is active in glutamatergic synapse; postsynaptic density membrane; and postsynaptic endosome. Biomarker of middle cerebral artery infarction and visual epilepsy. Orthologous to human ARC (activity regulated cytoskeleton associated protein). |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 26.3 kDa<br>Accurate Molecular Mass: 31 kDa                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>           | > 90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Applications</b>     | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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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> | 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                          |
| <b>Reconstitution</b> | Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                                            |

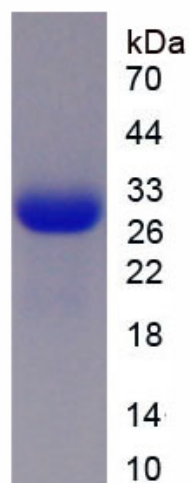
## GENE INFORMATION

|                        |                                                                                                                                                                             |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Arc activity-regulated cytoskeleton-associated protein [ <i>Rattus norvegicus</i> (Norway rat) ]                                                                            |
| <b>Official Symbol</b> | Arc                                                                                                                                                                         |
| <b>Synonyms</b>        | ARC; activity-regulated cytoskeleton-associated protein; arg3.1; ARC/ARG3.1; activity-regulated gene 3.1 protein; activity regulated cytoskeletal-associated protein; rg3.1 |
| <b>Gene ID</b>         | 54323                                                                                                                                                                       |
| <b>mRNA Refseq</b>     | NM_019361                                                                                                                                                                   |
| <b>Protein Refseq</b>  | NP_062234                                                                                                                                                                   |
| <b>UniProt ID</b>      | Q63053                                                                                                                                                                      |

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