

## Recombinant Human ALS2 Protein, His-tagged

**Cat. No.** ALS2-166H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human ALS2, transcript variant 2, fused with His tag at N-terminal was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | The protein encoded by this gene contains an ATS1/RCC1-like domain, a RhoGEF domain, and a vacuolar protein sorting 9 (VPS9) domain, all of which are guanine-nucleotide exchange factors that activate members of the Ras superfamily of GTPases. The protein functions as a guanine nucleotide exchange factor for the small GTPase RAB5. The protein localizes with RAB5 on early endosomal compartments, and functions as a modulator for endosomal dynamics. Mutations in this gene result in several forms of juvenile lateral sclerosis and infantile-onset ascending spastic paralysis. Multiple transcript variants encoding different isoforms have been found for this gene. |
| <b>Form</b>             | 50mM Tris, 8M Urea, pH8.0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Mass</b>   | 42.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

 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

## GENE INFORMATION

|                 |                                                                                                                                                                                                                                                                                                                              |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Name       | ALS2 amyotrophic lateral sclerosis 2 (juvenile) [ Homo sapiens ]                                                                                                                                                                                                                                                             |
| Official Symbol | ALS2                                                                                                                                                                                                                                                                                                                         |
| Synonyms        | ALS2; amyotrophic lateral sclerosis 2 (juvenile); ALS2CR6, amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 6; alsin; amyotrophic lateral sclerosis 2 protein; amyotrophic lateral sclerosis 2 chromosomal region candidate gene 6 protein; ALSJ; PLSJ; IAHSP; ALS2CR6; FLJ31851; KIAA1563; MGC87187; |
| Gene ID         | 57679                                                                                                                                                                                                                                                                                                                        |
| mRNA Refseq     | NM_001135745                                                                                                                                                                                                                                                                                                                 |
| Protein Refseq  | NP_001129217                                                                                                                                                                                                                                                                                                                 |
| MIM             | 606352                                                                                                                                                                                                                                                                                                                       |
| UniProt ID      | Q96Q42                                                                                                                                                                                                                                                                                                                       |

 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