

# Recombinant Full Length Human CLDN4 Protein, GST-tagged

**Cat. No.** CLDN4-2058HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Product Overview</b> | Human CLDN4 full-length ORF ( AAH00671, 1 a.a. - 209 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>    | 209 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | The protein encoded by this intronless gene belongs to the claudin family. Claudins are integral membrane proteins that are components of the epithelial cell tight junctions, which regulate movement of solutes and ions through the paracellular space. This protein is a high-affinity receptor for Clostridium perfringens enterotoxin (CPE) and may play a role in internal organ development and function during pre- and postnatal life. This gene is deleted in Williams-Beuren syndrome, a neurodevelopmental disorder affecting multiple systems. [provided by RefSeq, Sep 2013] |
| <b>Molecular Mass</b>   | 48.73 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | MASMG LQVMGIALAVLGWLAVMLCCALPMWRVTAFIGSNIVTSQTIWEG LWMNCVV<br>QSTGQMCKVYDSL LALPQDLQAARALVIISIIVAALGVLLSVVGGKCTNCLEDESAK<br>AKTMIVAGVVFLLAGLMVIVPVSWTAHNIIQDFYNPLVASGQKREMGASLYVGWAAS<br>GLLLLGGGLCCNCPPRTDKPYS AKYSAARSAAASNYV                                                                                                                                                                                                                                                                                                                                                             |

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|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay<br>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.                                                                                                                                                                                                          |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                   |
| <b>Gene Name</b>        | CLDN4 claudin 4 [ Homo sapiens ]                                                                                                                                                                                                                                                  |
| <b>Official Symbol</b>  | CLDN4                                                                                                                                                                                                                                                                             |
| <b>Synonyms</b>         | CLDN4; claudin 4; CPETR, CPETR1; claudin-4; Clostridium perfringens enterotoxin receptor 1; CPE R; hCPE R; WBSCR8; Williams Beuren syndrome chromosomal region 8 protein; CPE-receptor; Williams-Beuren syndrome chromosomal region 8 protein; CPER; CPE-R; CPETR; CPETR1; hCPE-R |
| <b>Gene ID</b>          | 1364                                                                                                                                                                                                                                                                              |
| <b>mRNA Refseq</b>      | NM_001305                                                                                                                                                                                                                                                                         |
| <b>Protein Refseq</b>   | NP_001296                                                                                                                                                                                                                                                                         |
| <b>MIM</b>              | 602909                                                                                                                                                                                                                                                                            |
| <b>UniProt ID</b>       | O14493                                                                                                                                                                                                                                                                            |

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