

# Recombinant Full Length Human CLDN5 Protein, GST-tagged

**Cat. No.** CLDN5-640HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Product Overview</b> | Recombinant full length Human CLDN5(1 a.a. - 218 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 218 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | This gene encodes a member of the claudin family. Claudins are integral membrane proteins and components of tight junction strands. Tight junction strands serve as a physical barrier to prevent solutes and water from passing freely through the paracellular space between epithelial or endothelial cell sheets. Mutations in this gene have been found in patients with velocardiofacial syndrome. Alternatively spliced transcript variants encoding the same protein have been found for this gene. |
| <b>Form</b>             | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Molecular Mass</b>   | 49.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>AA Sequence</b>      | MGSAALEILG LVLCLVGWGG LILACGLPMW QVTAFLDHNI VTAQTTWKGL<br>WMSCVVQSTG HMQCKVYDSV LALSTEVQAA RALTVSALL AFVALFVTLA<br>GAQCTTCVAP GPAKARVALT GGVLYLFCGL LALVPLCWFA NIVVREFYDP<br>SVPVSQKYEL GAALYIGWAA TALLMVGGL LCCGAWVCTG RPDLSFPVKY<br>SAPRRPTATG DYDKKNYV                                                                                                                                                                                                                                                   |

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| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array                                                                                                                                 |
| <b>Storage</b>          | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                    |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                             |
| <b>Gene Name</b>        | CLDN5 claudin 5 [ Homo sapiens ]                                                                                                                                                                                                            |
| <b>Official Symbol</b>  | CLDN5                                                                                                                                                                                                                                       |
| <b>Synonyms</b>         | CLDN5; claudin 5; AWAL, TMVCF, transmembrane protein deleted in velocardiofacial syndrome; claudin-5; BEC1; CPETRL1; TMDVCF; transmembrane protein deleted in VCFS; transmembrane protein deleted in velocardiofacial syndrome; AWAL; TMVCF |
| <b>Gene ID</b>          | 7122                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>      | NM_003277                                                                                                                                                                                                                                   |
| <b>Protein Refseq</b>   | NP_003268                                                                                                                                                                                                                                   |
| <b>MIM</b>              | 602101                                                                                                                                                                                                                                      |
| <b>UniProt ID</b>       | O00501                                                                                                                                                                                                                                      |

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