

Product datasheet for **TP502768**

Cldn2 (NM_016675) Mouse Recombinant Protein

Product data:

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|---------------------------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | Purified recombinant protein of Mouse claudin 2 (Cldn2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug |
| Species: | Mouse |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >MR202768 protein sequence Red =Cloning site Green =Tags(s) |
| | MASLGVQLVGYILGLLGLLGTSIAMLLPNWRTSSYVGASIVTAVGFSKGLWMECATHSTGITQCDIYSTL LGLPADIQAAQAMMVTSSAMSSLACIISVGMRICTVFCQDSRAKDRVAVVGGVFFILGGILGFIPVAVNWL HGILRDFYSPLVPDSMKFEIGEALYLGIIISALFSLVAGVILCFSCSPQGNRTNYYDGYQAQPLATRSSPR SAQQPKAKSEFNYSYSLTGYV TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| Tag: | C-MYC/DDK |
| Predicted MW: | 24.5 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C after receiving vials. |
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | NP_057884 |
| Locus ID: | 12738 |
| UniProt ID: | O88552 |
| RefSeq Size: | 3079 |



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Cytogenetics: X F1

RefSeq ORF: 693

Synonyms: AL022813

Summary: 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, and also play critical roles in maintaining cell polarity and signal transductions. The knockout mice lacking this gene display normal appearance, activity, growth and behavior, but are defective in the leaky and cation-selective paracellular permeability properties of renal proximal tubules. The proteins encoded by this gene and another family member Cldn12 are also critical for vitamin D-dependent Ca²⁺ absorption between enterocytes. [provided by RefSeq, Aug 2010]