

# Recombinant Human TJP3 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** TJP3-3077H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Product Overview</b> | TJP3 MS Standard C13 and N15-labeled recombinant protein (NP_055243) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | The protein encoded by this gene is a member of the membrane-associated guanylate kinase-like (MAGUK) protein family which is characterized by members having multiple PDZ domains, a single SH3 domain, and a single guanylate kinase-like (GUK)-domain. In addition, members of the zonula occludens protein subfamily have an acidic domain, a basic arginine-rich region, and a proline-rich domain. The protein encoded by this gene plays a role in the linkage between the actin cytoskeleton and tight-junctions and also sequesters cyclin D1 at tight junctions during mitosis. Alternative splicing results in multiple transcript variants encoding distinct isoforms. This gene has a partial pseudogene on chromosome 1. |
| <b>Molecular Mass</b>   | 104.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>AA Sequence</b>      | MNLCGLMPIFPAPLDQVADMEELTIWEQHTATLSKDPRRGFGIAISGGRDRPGGSM<br>VVSDVVPGGPAEGRQLTGDHIVMVNGVSMENATSAFAIQILKTCTKMANITVKRPRR<br>IHLPATKASPSSPGRQDSDEDDGPQRVEEVDQGRGYDGDSSSGSGRSWDESSRR<br>PRPGRRGRAGSHGRRSPGGGSEANGLALVSGFKRLPRQDVQMKPVKSVLVKRRD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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SEEFQVKGSGQIFIKHITDSGLAARHRGLQEGDLILQINGVSSQNLSLNDTRRLIEKSE  
 GKLSLLVLRDRGQFLVNIPPAVSDSDSSPLEEGVTMADEMSSPPADISDLASELSQA  
 PPSHIPPPRHAQRSPEASQTDSPVESPRRLRESSVDSRTISEPDEQRSELPRESSY  
 DIYRVPSQSMEDRGYSPDTRVVRFLKGKSGISGLRLAGGNDVGIFVSGVQAGSPADG  
 QGIQEGDQILQVNDVPFQNLTRREEAVQFLLGLPPGEEMELVTQRKQDIFWKMVQSR  
 VGDSFYIRTHFELEPSPPSGLGFTRGDVFHVLDTLHPGPGQSHARGGHWLAVRMG  
 RDLREQERGIIPNQSRAEQLASLEAAQRAVGVGPGSSAGSNARAEFWRLRGLRRG  
 AKKTTQRSRELDLSALTRQGRYPYERVVLREASFVRPVILGPVADIAMQKLTAEMP  
 DQFEIAETVSRDTPSKIIKLDTVRVIAEKDKHALLDVTPSAIERLNYVQYYPIVVFFIPE  
 SRPALKALRQWLAPASRRSTRRLYAQAQKLKHHSHLFTATIPNGTSDTWYQELK  
 AIIREQQTRPIWTAEDQLDGSLEDNLDLPHHGLADSSADLSCDSRVNSDYETDGEG  
 GAYTDGEGYTDGEGGPYTDVDEPPAPALARSEPVADESQSPRDRGRISAHQG  
 AQVDSRHPQGQWRQDSMRTYEREALKKKFMRVHDAESSDEDGYDWGPATDLSG  
 PTRTRRLEQKLISEEDLAANDILDYKDDDDKV

**Purity**

> 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability**

Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage**

Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration**

50 µg/mL as determined by BCA

**Storage Buffer**

100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

**Gene Name**

TJP3 tight junction protein 3 [ Homo sapiens (human) ]

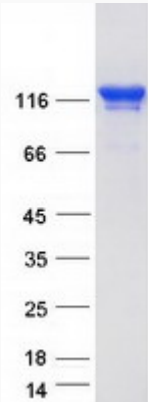
**Official Symbol**

TJP3

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|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>       | TJP3; tight junction protein 3 (zona occludens 3); tight junction protein ZO-3; ZO 3; zona occludens protein 3; zonula occludens protein 3; ZO3; ZO-3; MGC119546; |
| <b>Gene ID</b>        | 27134                                                                                                                                                             |
| <b>mRNA Refseq</b>    | NM_014428                                                                                                                                                         |
| <b>Protein Refseq</b> | NP_055243                                                                                                                                                         |
| <b>MIM</b>            | 612689                                                                                                                                                            |
| <b>UniProt ID</b>     | O95049                                                                                                                                                            |
| <b>SDS-PAGE</b>       |                                                                                |