

## Product datasheet for **TP316224M**

### **TJP1 (NM\_175610) Human Recombinant Protein**

#### **Product data:**

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human tight junction protein 1 (zona occludens 1) (TJP1), transcript variant 2, 100 µg

**Species:** Human

**Expression Host:** HEK293T



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Expression cDNA Clone >RC216224 representing NM\_175610  
or AA Sequence: **Red**=Cloning site **Green**=Tags(s)

MSARAAAAKSTAMEETAIWEQHTVTLHRAPGFGFGIAISGGRDNPHFQSGETSIVISDVLKGGPAEGQLQ  
ENDRVAMVNGVSMDNVEHAFVQQLRKSGKNAKITIRRRKKVQIPVSRPDPEPVSNDNEEDSYDEEIHDP  
SGRSGVNRSEKIWPRDRSASRERSLSPRRSVASSQPAKPTKVTLVKSRKNEEYGLRLASHIFVKE  
ISQDSLAARDGNIQEGDVVLKINGTVTENMSLTDAKTLIERSKGKLMVQVQRDERATLLNVPDLSDSIHS  
ANASERDDISEIQSLASDHSGRSHDRPPRRSRSPDQRSEPSDHSRHSPPQPSNGSLRSRDEERISKPG  
AVSTPVKHADDHTPKTVEEVTVERNEKQTPSLPEPKPVYAQVGPDPDLPVSPSDGVLPNSTHEDGILRP  
SMKLVKFRKGDSVGLRLAGGNDVGFVAGVLEDSPAAKEGLEEGDQILRVNNVDFTNIIREEAVLFLDL  
PKGEEVTLAQKKKDVYRRIVESDVGDSFYIRTHFEYEKESPYGLSFNKGEVFRVWDTLYNGKLGSLWAI  
RIGKNHKEVERGIIPKNRAEQLASVQYTLPKTAGGDRADFWFRGLRSSKRNLRSREDLSAQPVQTKF  
PAYERVVLREAGFLRPVTIFGPIADVAREKLAREEPIYQIAKSEPRDAGTDQRSSGIIRLHTIKQIIDQ  
DKHALLDVTNPAVDRLNYAQWYPIVFLNPDSKQGVKTMRLCPESRKSARKLYERSHKLKNNHHLFT  
TTINLNSMNDGWYGALKEAIQQQNQLVWVSEGKADGATSDDLHLDDRLSYLSAPGSEYSMYSTDSRHT  
SDYEDTDEGGAYTDQELDETLNDEVGTPPEAITRSSEPVREDSSGMHHEENQTYPPYSPQAQPPIHRI  
DSPGFKPASQQVYRKDPYPEEMMRQNHVLKQPAVSHPGHRPDKEPNLTYEPQLPYVEKQASRDLEQPTYR  
YESSYTDQFSRNYEHLRYEDRVPYEEQWSYDDKQPYSPRPPFDNQHSQDLDSRQHPEESSERGYFP  
RFEPPAPLSYDSRPRYEQAPRASALRHEEQPAPGYDTHGRLRPEAQPHPSAGPKPAESKQYFEQYSRSYE  
QVPPQGFTSRAGHFELHGAAVPLIPSSQHKEALPSNTKPLPPPPTQTEEEEDPAMKQSVLTRVKM  
FENKRSASLETKKDVNDTGSFKPPEVASKPSGAPIIGPKPTSQNQFSEHDKTLYRIPEPQKPKLPKPPEDI  
VRSNHYPDEEDEEYRKQLSYFDRRSFENKPPAHIAASHLSEPAKPAHSQNSQSNFSSYSSKGPPEADGV  
DRSFGEKRYEPIQATPPPPPLPSQYAQPSQPVTSASLHIHSGAHGEGNSVSLDFQNSLVSKPDPSPSN  
KPATFRPPNREDAQAAYFPQKSPDKAPVNGTEQTQKTVPAYNRFTPKPYTSSARPFERKFESPKFNH  
NLLPSETAHKPDLSSTPTSPKTLVKSHSLAQPFEDSGVETFSIHAEKPKYQINNISTVPAIPVSPSA  
VEEDEDEDGHTVATARGIFNSNGGLSSIETGVSIIPQGAIPGVEQEYFKVCRDNSILPPLDKEKG  
ETLLSPLVMCGPHGLKFLKPVLELRLPHCDPKTWQNKCLPGDPNYLVGANCVSVLIDHF

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 186.8 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

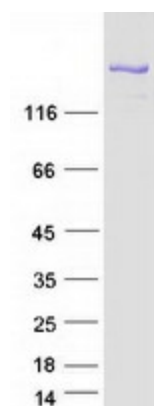
**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**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.

<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_783297</a>
<b>Locus ID:</b>	7082
<b>UniProt ID:</b>	<a href="#">Q07157</a> , <a href="#">B4DZK4</a> , <a href="#">Q6MZU1</a>
<b>RefSeq Size:</b>	6925
<b>Cytogenetics:</b>	15q13.1
<b>RefSeq ORF:</b>	5004
<b>Synonyms:</b>	ZO-1
<b>Summary:</b>	<p>This gene encodes a member of the membrane-associated guanylate kinase (MAGUK) family of proteins, and acts as a tight junction adaptor protein that also regulates adherens junctions. Tight junctions regulate the movement of ions and macromolecules between endothelial and epithelial cells. The multidomain structure of this scaffold protein, including a postsynaptic density 95/disc-large/zona occludens (PDZ) domain, a Src homology (SH3) domain, a guanylate kinase (GuK) domain and unique (U) motifs all help to co-ordinate binding of transmembrane proteins, cytosolic proteins, and F-actin, which are required for tight junction function. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Aug 2017]</p>
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Adherens junction, Epithelial cell signaling in Helicobacter pylori infection, Gap junction, Tight junction, Vibrio cholerae infection

### Product images:



Coomassie blue staining of purified TJP1 protein (Cat# [TP316224]). The protein was produced from HEK293T cells transfected with TJP1 cDNA clone (Cat# [RC216224]) using MegaTran 2.0 (Cat# [TT210002]).