

## Product datasheet for **TP527561**

### **Tjp1 (NM\_009386) Mouse Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Mouse tight junction protein 1 (Tjp1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
<b>Species:</b>	Mouse
<b>Expression Host:</b>	HEK293T



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Expression cDNA Clone >MR227561 representing NM\_009386  
 or AA Sequence: **Red**=Cloning site **Green**=Tags(s)

MSARAAAAKSTAMEETAIWEQHTVTLHRAPGFGFGIAISGGRDNPHFQSGETSIVISDVLKGGPAEGQLQ  
 ENDRVAMVNGVSMDNVEHAFVQQLRKSGKNAKITIRRRKKVQIPVSHPDPEPVSNDNEDDSYDEEVHDP  
 AGRGALANRRSEKSWARDRSASRERSLSPRRSRRSVASSQPAKPTKVTLVKSRKNEEYGLRLASHIFVKE  
 ISQDSLAAARDGNIQEGDVVLKINGTVTENMSLTDAKTLIERSKGKLMVQQRDERATLLNVPDLSDSIHS  
 ANASERDDISEIQSLASDHSGRSHDRPPRRSQSRSPDQRSEPSDHSTQSPQQPSNGSLRSREERMSKPG  
 AISTPVKHVDDHPPKAVEEVTVEKNEKQTPTLPEPKPVYAQVGGQPDVDLPVSPSDGALPNSAHEDGILRP  
 SMKLVKFRKGDVGLRLAGGNDVGFVAGVLEDSPAAKEGLEEGDQILRVNNVDFTNIIREEAVLFLDL  
 PKGEEVTLAQKKKDVYRRIVESDVGDSFYIRTHFEYEKESPYGLSFNKGEVFRVWDTLYNGKLGSLWAI  
 RIGKNHKEVERGIIPKNRAEQLASVQYTLPKTAGGDRADFWFRGLRSSKRNLRSRELDLSAQPVQTKF  
 PAYERVVLREAGFLRPVTFIPIADVAREKLAREEPDIYQIAKSEPRDAGTDHRSSGIIRLHTIKQIIDQ  
 DKHALLDVTNPAVDRLNYAQWYPIVFLNPDSKQGVKTMRMRLCPESRKSARKLYERSHKLKRNHHLFT  
 TTINLNSMNDGWYGALKEAIQQQNQLVWVSEGKADGATSDDLHLHDDRLSYLSAPGSEYSMYSTDSRHT  
 SDYEDTDEGGAYTDQELDELNDEVGTPPEAITRSSEPVREDSSGMHHEENQTYPPYSPQAQPQAIHRI  
 DSPGLKPASQQKAEASSPVYLSPETTPASSASAVNHVSVTNVSLEEPAPAPPTSHASQPGCLGAPSAE  
 AAHWLVRGEGPPLPPHADPAKVYRKEPYSEEMMRQNHILKQPALGHPGQRPDKEPNLAYEPQLPYIEKQA  
 SRDLEQPSYRYEVSSYTDQFSRNYDHRLRFEDRIPTYEDQWSYDDKQPYQPRPFENQHPRDLDSRQHPE  
 EASERGYFQRFEEPAPLSYDSRTRYELPRTSTLRHEEQPAPAYEVHNRYRPEAQPYSSTGPKSSEPKQY  
 FDQYPRSYEQVPPPGFTSKTGHYEPLHGAAVPPLIPSSQKQKPEVLPATKQPPPPPTLTEEEEDPAMKP  
 QSVLTRVKMFENKRSASLENKKDVNDTASFKPPEVASKPPGASLAGPKVPVQSQFSEHDKTLYRLPEPQK  
 PQVKPPEDIVRSNHYPDEEEDYRQKLSYFDRRSFESKPSAHLPAAGHHSEPAKPVHSQSQPNFSSYSSK  
 GKPETDAVDRSFSEKRYDPAQATPPPPPLPSQYSQPAPPLSSSLHIHSGKAQGEGNSVSLDFQNSYMSK  
 PDPPPSQSKPATFRPPTREDPPQTFYPQKSFDPKAPVNGAEQTQKTITPVYNRFTPKPYTSSARPFERKF  
 ESPKFNHNLPLSETVHKPELSSKTPTSPKTLMKAHSSQPPPEFDSGVETFSVHTDKPKYQMNNISTMPKA  
 VPVSPSAVEEDEDGHTVATARGIFNSNGGVLSSIIETGVSIIIPQGAIEGIEQEYFKVCRDINSILP  
 PLDKKEGETLLSPLVMCGPHGLKFLKPVELRLPHCDPKTWQNKCLPGDPNYLVGANCVSVLIDHF

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

- Tag:** C-MYC/DDK
- Predicted MW:** 195.2 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\\_033412](#)  
Locus ID: 21872  
UniProt ID: [P39447](#)  
RefSeq Size: 7054  
Cytogenetics: 7 35.02 cM  
RefSeq ORF: 5235  
Synonyms: ZO1

**Summary:** Tjp1, Tjp2, and Tjp3 are closely related scaffolding proteins that link tight junction (TJ) transmembrane proteins such as claudins, junctional adhesion molecules, and occludin to the actin cytoskeleton (By similarity). The tight junction acts to limit movement of substances through the paracellular space and as a boundary between the compositionally distinct apical and basolateral plasma membrane domains of epithelial and endothelial cells. Necessary for lumenogenesis, and particularly efficient epithelial polarization and barrier formation (By similarity). Plays a role in the regulation of cell migration by targeting Cdc42bpb to the leading edge of migrating cells (By similarity). Plays an important role in podosome formation and associated function, thus regulating cell adhesion and matrix remodeling (By similarity). With Tjp2 and Tjp3, participates to the junctional retention and stability of the transcription factor Dbpa, but is not involved in its shuttling to the nucleus (By similarity).[UniProtKB/Swiss-Prot Function]