

## Product datasheet for MR227561

### Tjp1 (NM\_009386) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tjp1 (NM_009386) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tjp1
Synonyms:	ZO1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR227561 representing NM_009386 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCGCCAGGGCCGCGCCGCTAAGAGCACAGCAATGGAGGAAACAGCTATATGGGAACAGCACACAG  
TGACGCTTCACAGGGCTCCTGGTTTGGATTTGGAATTGCAATCTCTGGTGAAGAGATAATCCTCATT  
TCAGAGTGGGAAACCTCCATAGTGATTTCTGATGTGTTAAAAGGAGGGCCAGCTGAAGGACAGCTACAG  
GAAAATGACCGAGTTGCAATGGTTAACGGAGTTTCAATGGATAACGTTGAACATGCTTTTGTGTTCCAGC  
AGCTAAGGAAGAGTGGGAAAAACGCAAAAATTACTATCCGAAGGAAGAAGAAAGTTTCAGATCCCTGTAAG  
TCACCCAGATCCTGAGCCGGTGTCTGATAATGAAGACGATAGTTATGACGAAGAAGTGCATGACCCAAGA  
GCTGGCCGCGGTGCTTTAGCGAACAGAAAGGAGCGAGAAGAGCTGGGCAAGGGATAGGAGTGAAGCAGGG  
AGAGGAGCCTGTCCCCTCGCTCGGACAGGCGGTCCGTGGCCTCCAGTCAGCCCGCAAAGCCACCAAGGT  
CACACTGGTGAAGTCTCGGAAAAATGAAGAATATGGTCTTCGATTGGCCAGCCATATATTTGTAAGGAA  
ATTTCAACAAGATAGTTTGGCAGCAAGAGATGGTAACATTCAAGAAGGGGATGTTGTCTTGAAGATAAATG  
GTACTGTGACAGAAAATATGTCATTGACAGATGCAAAAACACTGATAGAAAGGTCTAAAGGCAAGTTAAA  
AATGGTAGTGCAAAGAGATGAGCGGGCTACCTTACTGAACGTCCTGACCTTTCCGATAGTATCCATTCT  
GCTAATGCCTCGGAAAGAGATGACATTTAGAAAATTCAGTCACTAGCATCAGACCCATTGAGTCCGTCGC  
ATGACAGGCCACCCCGCCGAGCCAGTCAGATCTCCTGACCAACGTTTCAGAGCCCTCCGATCATTCCAC  
GAGTCTCCACAGCAGCCAGCAATGGCAGTCTCCGGAGCAGAGAGGAAGAGCGAATGTCTAAACCTGGG  
GCCATCTCAACTCCTGTA AAAACATGTAGACGATCATCCACCCAAAGCAGTGAAGAAGTTACAGTTGAGA  
AAAATGAGAAGCAGACGCCCACTCTCCAGAACC GAAACCTGTGTATGCTCAAGTTGGACAACCAGATGT  
GGATTTACCCGTGAGCCCTTCTGATGGTCTCTGCCTAATTCAGCTCATGAAGACGGGATACTTAGGCC  
AGCATGAAACTGGTAAAATTCAGAAAAGGAGATAGTGTGGGTTTGGCGACTAGCTGGTGGAAATGATGTCG  
GAATTTTGTAGCTGGCGTTCTAGAAGATAGCCCTGCAGCCAAAGAAGGCTTAGAGGAAGGTGATCAAT  
TCTCAGGGTGAACAATGTAGATTTCAAAATATCATAAGGGAAGAGGCCGTCCTTTCTCCTTGACCTC



[View online »](#)

CCTAAAGGTGAAGAAGTGACCATACTGGCTCAGAAGAAGAAGGACGTTTATCGCCGATTGTAGAATCAG  
 ATGTAGGAGATTCATTCTATATTAGAACGCATTTTGAATATGAAAAAGAATCTCCTTACGGACTTAGTTT  
 TAACAAAGGAGAGGTGTTCCGGGTCTGGTACTTTATACAATGGAAAGCTGGGCTCTTGGCTTGCCATT  
 CGAATTGGCAAAAATCATAAGGAGGTAGAACGAGGCATCATCCCTAATAAGAACAGAGCTGAACAGTTAG  
 CCAGTGTACAGTACACACTTCCAAGACAGCGGGTGGTATCGGGCAGACTTCTGGAGGTTTCGAGGTCT  
 TCGCAGCTCCAAGAGAAATCTTCGAAAAAGCAGAGAGGACTTGTACAGTCAAGCAGTTCAAATAGTTT  
 CCAGCTTATGAAAGGGTGTCTTCGGAAGCTGGATTCTAAGACCTGAACCATCTTTGGACCAATAG  
 CTGATGTTGCCAGAGAAAAGTTGGCAAGAGAGGAGCCAGATATCTATCAGATTGCAAAAAGTGAACCAG  
 AGATGCTGGGACTGACCATCGTAGCTCTGGCATATTGCGCTTACATAAATAAGCAAATCATAGATCAG  
 GATAAACATGCTTTATTAGATGTAACGCCAAATGCGGTTGATCGTCTTAATTATGCGCAGTGGTATCCAA  
 TTGTTGTGTTCTTAACCCTGACTCTAAGCAAGGTGTA AAAACAATGAGGATGAGGTTGTGTCGGGAGTC  
 TCGGAAAAGCGCCAGGAAGCTATATGACGCTCTCATAAGCTTCGTAAGAACAATCACCATCTTTCACA  
 ACTACAATTAACCTAACTCAATGAATGATGGTTGGTACGGTGCCTGAAAGAAGCGATTACGACGCAAC  
 AGAACCAGCTGGTGTGGTCTCTGAGGGGAAGGCGGATGGTGTACAAGTATGACCTTGATTTGCATGA  
 CGATCGTCTGCTACCTGTCAGCCCCAGTAGTGAGTACTCAATGTATAGCACGGACAGTAGACACACT  
 TCTGACTATGAAGACACAGATACAGAAGCGGGGCTACACTGATCAAGAACTAGATGAAACTCTTAATG  
 ATGAGGTGGGACTCCCCGGAGTCTGCCATTACACGGTCTCTGAGCCTGTAAGAGAGGATTCTCTGG  
 AATGCATCATGAAAACCAGACATACCCTCTTACTCACCACAAGCGCAGCCACAAGCTATTCATAGAATA  
 GACTCCCTGGACTTAAGCCAGCCTCTCAACAGAAAGCAGAAGCCTCATCTCCAGTCCCTTACCTTTCGC  
 CTGAAACAACCCAGCATCATCAGCCTCTGCAGTTAATCATAATGTCAGTGAACATGTCAGCCTGGA  
 GGAGCTGCCCGAGCCCTCCACCTCGCACGCATCACAGCCTGGTTGTTTAGGAGCACCAGTGTGAG  
 GCAGTCAAGTGTGCTCAGAGGTGAAGGACCACCATGCGCCGCATGCAGACCCAGCAAAGGTGTACA  
 GGAAGGAGCCGTATTCTGAAGAAATGATGAGCAAAAACCATATTTTAAAACAACCCAGCTTGGTCAACC  
 AGGGCAGAGGCCAGATAAAGAGCCAAATCTAGCCTATGAACCCCAACTTCCATATATAGAAAAACAAGCC  
 AGCAGAGACCTTGAGCAGCCGTCATACAGGTATGAGGTCTCAAGCTACACAGACCAGTTTTCTCGGAACT  
 ATGACCATCGCTACGGTTTGAAGATCGAATCCCTACCTATGAAGACCAGTGGTCAATTTATGATGACAA  
 ACAGCCCTACCAACCTCGGCCTTTTGAAGATCAGCATCCCGAGACCTGGACTCCAGACAACATCCCGAA  
 GAGGCTTCAGAACGAGGTTATTTCCAGCGTTTGAAGAGCCAGCCCTCTGTCGACGACAGTAGAACAC  
 GCTATGAGCAGTGCCTCGAACCTCTACTCTACGACATGAAGAGCAGCCAGCCCTGCATATGAGGTGCA  
 CAACAGGTACAGGCCAGAGGCACAGCCCTATTCTTCAACAGGCCCTAAGTCACTGAGCCCAAGCAGTAC  
 TTTGACCAGTACCCGGAAGTTATGAGCAAGTCCACCACCAGGCTTTACCTCCAAAACAGGCCATTACG  
 AGCCTCTCCATGTTGCTGCAAGTGTCCCTCTGATACCTTCTCTCAACAAAAGCCAGAAAGTCTGCC  
 CTGCGCTACCAAACACAGCCTCCACCCCAACCTAAGTGAAGGAGGAGGATCCAGCAATGAAACCA  
 CAGTCTGTGCTACCCAGAGTCAAATGTTTGA AAAACAAGATCTGCGTCTTTGGAGAACAAGAAAGATG  
 TGAATGACACTGCCAGCTTAAAGCTCCGGAAGTAGCATCTAAACCTCCAGGTGCTTCTCTTGTGGCCC  
 TAAACCTGTCCCTCAGAGTCAAGTTAGTGAAGCAGCAAAAACGCTCTACAGGCTCCAGAGCCTCAGAAA  
 CCTCAAGTGAAGCCACCCGAAGATATTGTTTCGATCAAAATCATTACGACCTGAAGAGGATGAAGAATATT  
 ACCGAAAACAGCTCTCTACTTTGACCGAAGAAGTTTGAAGAGCAAGCCTTCTGCACATCTTCTGCTGG  
 CCATCACTCAGAGCCTGCTAAGCCAGTCCATTCTCAGAGCCAGCCCAACTTCTCTAGTTACTTCAAAG  
 GGAAAACCCGAAAAGTATGCTGTGGATAGATCATTCAAGTGAAGAACGTTATGATCCAGCCAGGCCACGC  
 CTCTCTCTCTCCGTTGCCCTCACAGTACAGCCAGCCAGCTCCACCTCTGTCCAGCTCTTCTCTCCACAT  
 ACATTCCAAGGGCGCCAGGTTGAAGGCAACTCAGTATCATTGGATTTTTCAGAACTCATATATGTCCAAA  
 CCAGACCCACCCCATCTCAGAGTAAACCAGCAACTTTTCCAGACCACCAACTCGAGAAGACCCCTCAGA  
 CTTTCTATCCGCAGAAAAGTTTCCAGACAAAAGCTCCAGTTAACGGAGCTGAGCAGACTCAGAAAACCAT  
 CACTCCGGTGTACAATCGATTACACCAAAGCCGTACACAAGTTCTGCCGGCCATTTGAACGCAAAATTT  
 GAAAGTCCGAAGTTCAACCATAATCTTCTGCCAAGTGAAGTGTACATAAACCTGAATTGTCTTCAAAAA  
 CTCCCCTTCCCAAAAAGCTTATGAAAGCTCATAGTTCAACACAGCCTCCAGAGTTTACAGTGGAGT  
 TGAACCTTCTCTGTTTACACAGATAAGCCTAAATATCAAATGAATAATATCAGCACCATGCCTAAAGCT  
 GTCCCTGTGAGTCTTACGCTGTGGAAGAAGATGAAGATGAGGATGGTCACTACTGTAGTGGCTACAGCTC  
 GTGGCATTTTTAACAGCAATGGTGGTGTGTTGAGTTCCATAGAAAACCGGTGTTAGTATAATTATCCACA  
 AGGAGCCATTCTGAAGGAATTGAGCAAGAAATCTATTTCAAAGTCTGCAGAGACAATAGCATTCTCCCA  
 CCTTTAGATAAAGAGAAAGGTGAAACTCTGCTGAGCCCCCTAGTGATGTGTGGGCCCCATGGCCTCAAGT

TCCTGAAGCCCGTGGAGCTACGCTTGCCACACTGTGACCCTAAAACCTGGCAAAACAAGTGTCTTCTCTGG  
AGATCCGAATTACCTTGTGGAGCCAACCTGTGTTTCTGTCCTGATTGACCACTTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR227561 representing NM\_009386  
Red=Cloning site Green=Tags(s)

MSARAAAASTAMEETAWEQHTVTLHRAPGFGFGIAISGGRDNPHFQSGETSIVISDVLKGGPAEQQLQ  
ENDRVAMVNGVSMNDNEHAFVQQLRKSGKNAKITIRKKKVQIPVSHDPPEVSDNEDDSYDEEVHDP  
AGRGALANRRSEKSWARDSASRERSLSPRSDRRSVASSQPAKPTKVTLVKSARKNEEYGLRLASHIFVKE  
ISQDSLAAARDGNIQEGDVLLKINGTVTENMSL TDAKTL IERSKGLKLMVVQDERATLLNVPDLSDSIHS  
ANASERDDISEIQSLASDHSGRSHDRPPRRSQSRSPDQRSEPSDHSTQSPQQPSNGSLRSREERMSKPG  
AISTPVKHVDDHPPKAVEEVTVEKNEKQTPTLPEPKPVYVAVGQPDVDLPVSPSDGALPNSAHEDGILRP  
SMKLVKFRKGDVGLRLAGGNDVGFVAVGLEDSPAAKEGLEEGDQILRVNNDVFTNI IREEAVLFLDL  
PKGEEVTLAQQKKDVYRRIVESDVGDSFYIRTHFEYEKESPYGLSFNKGVFRVVDLTYNGKLGSLWAI  
RIGKNHKEVERGIIPNKNRAEQLASVQYTLPKTAGGDRADFWRFRGLRSSKRNLKRSRELDLSAQPVQTKF  
PAYERVVLRAGFLRPVTIFGPIADVAREKLAREEPDIYQIAKSEPRDAGTDHRS SGIIRLHTIKQIIDQ  
DKHALLDVT PNAVDRLNYAQWYPIVVFLNPD SKQGVKTMRMRLCPESRKSARKLYERSHKLKRNHHLFT  
TTINLSMNDGWYGALKEAIQQQQNLVWVSEKADGATSDDLLDHDRLSYLSAPGSEYSMYSTDSRHT  
SDYEDTDEGGAYTDQELDELNDEVGTPPESAITRSSEPVREDS SGMHHEHQTYPPYSPQAQPAIHRI  
DSPGLKPAASQQAESSPVYLSPETTPASSASAVNHNVSVTNVSLEEPAPAPPTSHASQPGCLGAPSAE  
AAHVVL RGEPPPLPHADPAKVYRKEPYSEEMMRQNHILKQPALGHPGQRPDKEPNLAYEPQLPYIEKQA  
SRDLEQPSYRYEVSSYTDQFSRNYDHLRFEDRIPTYEDQWSYDDKQPYQPRPFENQHPRDLDSRQHP  
EASERGYFQRFEPPAPLSYDSRTRYEQLPRTSTLRHEEQPAPAYEVHNRYRPEAQPYSSSTGPKSSEPKQY  
FDQYPRSYEQVPPPGFTSKTGHYEPLHGAAVVPLIPSSQQKPEVLPSATKQPPPPTL TEEEDPAMKP  
QSVL TRVKMFENKRSASLENKKDVNDTASFKPPEVASKPPGASLAGPKVPQSQFSEHDKTLYRLEPQK  
PQVKPPEDIVRSNHYPDEEYRQQLSYFDRRSFESKPSAHLPAHHSEPAKPVHSQSQPNFSSYSK  
GKPETDAVDRSFSEKRYDPAQATPPPPPLPSQYSQPAPPLSSSSLHIHSGAQQEGNSVSLDFQNSYMSK  
PDPPPSQSKPATFRPPTREDPPQTFYPQKSFDPKAPVNGAEQTQKITIPVYNRFTPKPYTSSARPFERKF  
ESPKFNHLLPSETVHKPELSSKTPTSPKTLMAHSSTQPPEFDSGVETFSVHTDKPKYQMNISTMPKA  
VPVSPSAVEEDEDGHTVVATARGIFNSNGGLSSIETGVSIIIPQGAIPGIEQEYIFKVCRDNSILP  
PLDKEGETLLSPLVMCGPHGLKFLKPVLELRLPHCDPKTWQNKCLPGDPNYLVGANCVSLIDHF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9037\\_c10.zip](https://cdn.origene.com/chromatograms/mm9037_c10.zip)

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_009386

ORF Size: 5235 bp

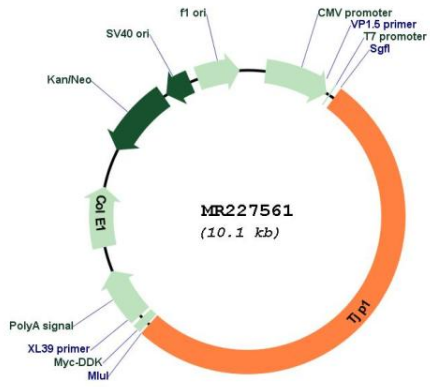
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_009386.2</a> , <a href="#">NP_033412.2</a>
<b>RefSeq Size:</b>	7054 bp
<b>RefSeq ORF:</b>	5238 bp
<b>Locus ID:</b>	21872
<b>UniProt ID:</b>	<a href="#">P39447</a>
<b>Cytogenetics:</b>	7 35.02 cM
<b>MW:</b>	195.2 kDa
<b>Gene Summary:</b>	<p>Tjp1, TjpP2, 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 Cdc42bbp 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 Tjpp3, 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]</p>

Product images:



Circular map for MR227561