OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR226867

Tjp1 (NM_001163574) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tjp1 (NM_001163574) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tjp1
Synonyms:	ZO1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR226867 representing NM_001163574 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTCCGCCAGGGCCGCGGCCGCTAAGAGCACAGCAATGGAGGAAACAGCTATATGGGAACAGCACACAG TGACGCTTCACAGGGCTCCTGGGTTTGGATTTGGAATTGCAATCTCTGGTGGAAGAGATAATCCTCATTT TCAGAGTGGGGAAACCTCCATAGTGATTTCTGATGTGTTAAAAGGAGGGCCAGCTGAAGGACAGCTACAG GAAAATGACCGAGTTGCAATGGTTAACGGAGTTTCAATGGATAACGTTGAACATGCTTTTGCTGTTCAGC AGCTAAGGAAGAGTGGGAAAAACGCAAAAATTACTATCCGAAGGAAGAAGAAAGTTCAGATCCCTGTAAG TCACCCAGATCCTGAGCCGGTGTCTGATAATGAAGACGATAGTTATGACGAAGAAGTGCATGACCCAAGA GCTGGCCGCGGTGCTTTAGCGAACAGAAGGAGCGAGAAGAGCTGGGCAAGGGATAGGAGTGCAAGCAGGG AGAGGAGCCTGTCCCCTCGCTCGGACAGGCGGTCCGTGGCCTCCAGTCAGCCCGCAAAGCCCACCAAGGT CACACTGGTGAAGTCTCGGAAAAATGAAGAATATGGTCTTCGATTGGCCAGCCATATATTTGTAAAGGAA ATTTCACAAGATAGTTTGGCAGCAAGAGATGGTAACATTCAAGAAGGGGATGTTGTCTTGAAGATAAATG GTACTGTGACAGAAAATATGTCATTGACAGATGCAAAAACACTGATAGAAAGGTCTAAAGGCAAGTTAAA AATGGTAGTGCAAAGAGATGAGCGGGCTACCTTACTGAACGTCCCTGACCTTTCGGATAGTATCCATTCT GCTAATGCCTCGGAAAGAGATGACATTTCAGAAATTCAGTCACTAGCATCAGACCATTCAGGTCGCTCGC ATGACAGGCCACCCCGCCGCAGCCAGTCACGATCTCCTGACCAACGTTCAGAGCCCTCCGATCATTCCAC GCAGTCTCCACAGCAGCCCAGCAATGGCAGTCTCCGGAGCAGAGAGGAAGAGCGAATGTCTAAACCTGGG GCCATCTCAACTCCTGTAAAACATGTAGACGATCATCCACCCAAAGCAGTGGAAGAAGTTACAGTTGAGA AAAATGAGAAGCAGACGCCCACTCTTCCAGAACCGAAACCTGTGTATGCTCAAGTTGGACAACCAGATGT GGATTTACCCGTCAGCCCTTCTGATGGTGCTCTGCCTAATTCAGCTCATGAAGACGGGATACTTAGGCCC AGCATGAAACTGGTAAAATTCAGAAAAGGAGATAGTGTGGGTTTGCGACTAGCTGGTGGAAATGATGTCG GAATATTTGTAGCTGGCGTTCTAGAAGATAGCCCTGCAGCCAAAGAAGGCTTAGAGGAAGGTGATCAAAT TCTCAGGGTGAACAATGTAGATTTCACAAATATCATAAGGGAAGAGGCCGTCCTTTTCCTCCTTGACCTC CCTAAAGGTGAAGAAGTGACCATACTGGCTCAGAAGAAGAAGGACGTTTATCGCCGCATTGTAGAATCAG

View online »

ATGTAGGAGATTCATTCTATATTAGAACGCATTTTGAATATGAAAAAGAATCTCCTTACGGACTTAGTTT
TAACAAAGGAGAGGTGTTCCGGGTCGTGGATACTTTATACAATGGAAAGCTGGGCTCTTGGCTTGCCATT
CGAATTGGCAAAAATCATAAGGAGGTAGAACGAGGCATCATCCCTAATAAGAACAGAGCTGAACAGTTAG
CCAGTGTACAGTACACACTTCCAAAGACAGCGGGTGGTGATCGGGCAGACTTCTGGAGGTTTCGAGGTCT
TCGCAGCTCCAAGAGAAATCTTCGAAAAAGCAGAGAGGACTTGTCAGCTCAGCCAGTTCAAACTAAGTTC
CCAGCTTATGAAAGGGTTGTTCTTCGAGAAGCTGGATTCCTAAGACCTGTAACCATCTTTGGACCAATAG
CTGATGTTGCCAGAGAAAAGTTGGCAAGAGAGGAGCCAGATATCTATCAGATTGCAAAAAGTGAACCACG
AGATGCTGGGACTGACCATCGTAGCTCTGGCATCATTCGCCTTCATACAATAAAGCAAATCATAGATCAG
GATAAACATGCTTTATTAGATGTAACGCCAAATGCGGTTGATCGTCTTAATTATGCGCAGTGGTATCCAA
TTGTTGTGTTCCTTAACCCTGACTCTAAGCAAGGTGTAAAAACAATGAGGATGAGGTTGTGTCCGGAGTC
TCGGAAAAGCGCCAGGAAGCTATATGAACGCTCTCATAAGCTTCGTAAGAACAATCACCATCTCTTCACA
ACTACAATTAACTTAAACTCAATGAATGATGGTTGGTACGGTGCCCTGAAAGAAGCGATTCAGCAGCAAC
AGAACCAGCTGGTGTGGGTCTCTGAGGGGAAGGCGGATGGTGCTACAAGTGATGACCTTGATTTGCATGA
CGATCGTCTGTCCTACCTGTCAGCCCCAGGTAGTGAGTACTCAATGTATAGCACGGACAGTAGACACACT
TCTGACTATGAAGACACAGATACAGAAGGCGGGGCCTACACTGATCAAGAACTAGATGAAACTCTTAATG
ATGAGGTGGGGACTCCCCCGGAGTCTGCCATTACACGGTCCTCTGAGCCTGTAAGAGAGGATTCCTCTGG
AATGCATCATGAAAACCAGACATACCCTCCTTACTCACCACAAGCGCAGCCACAAGCTATTCATAGAATA
GACTCCCCTGGACTTAAGCCAGCCTCTCAACAGGTGTACAGGAAGGAGCCGTATTCTGAAGAAATGATGA
GACAAAACCATATTTTAAAACAACCAGCTCTTGGTCACCCAGGGCAGAGGCCAGATAAAGAGCCAAATCT
AGCCTATGAACCCCAACTTCCATATATAGAAAAACAAGCCAGCAGAGACCTTGAGCAGCCGTCATACAGG
TATGAGGTCTCAAGCTACACAGACCAGTTTTCTCGGAACTATGACCATCGCCTACGGTTTGAAGATCGAA
TCCCTACCTATGAAGACCAGTGGTCATATTATGATGACAAACAGCCCTACCAACCTCGGCCTTTTGAGAA
TCAGCATCCCCGAGACCTGGACTCCAGACAACATCCCGAAGAGGCTTCAGAACGAGGTTATTTCCAGCGT
TTTGAAGAGCCAGCCCCTCTGTCGTACGACAGTAGAACACGCTATGAGCAGCTGCCTCGAACCTCTACTC
TACGACATGAAGAGCAGCCAGCCCCTGCATATGAGGTGCACAACAGGTACAGGCCAGAGGCACAGCCCTA
TTCTTCAACAGGCCCTAAGTCATCTGAGCCCAAGCAGTACTTTGACCAGTACCCGCGAAGTTATGAGCAA
GTTCCACCACCAGGCTTTACCTCCAAAACAGGCCATTACGAGCCTCTCCATGGTGCTGCAGTTGTCCCTC
CTCTGATACCTTCCTCTCAACAAAAGCCAGAAGTCCTGCCCTCGGCTACCAAACCACAGCCTCCACCCCC
AACCCTAACTGAGGAGGAGGAGGATCCAGCAATGAAACCACAGTCTGTGCTCACCAGAGTCAAAATGTTT
GAAAACAAAAGATCTGCGTCTTTGGAGAACAAGAAAGATGTGAATGACACTGCCAGCTTTAAGCCTCCGG
AAGTAGCATCTAAACCTCCAGGTGCTTCTCTTGCTGGCCCTAAACCTGTCCCTCAGAGTCAGTTTAGTGA
GCACGACAAAACGCTCTACAGGCTCCCAGAGCCTCAGAAACCTCAAGTGAAGCCACCCGAAGATATTGTT
CGATCAAATCATTACGACCCTGAAGAGGATGAAGAATATTACCGGAAACAGCTCTCCTACTTTGACCGAA
GAAGTTTTGAGAGCAAGCCTTCTGCACATCTTCCTGCTGGCCATCACTCAGAGCCTGCTAAGCCAGTCCA
TTCTCAGAGCCAGCCCAACTTCTCTAGTTACTCTTCAAAGGGAAAACCCGAAACTGATGCTGTGGATAGA
TCATTCAGTGAGAAACGTTATGATCCAGCCCAGGCCACGCCTCCTCCTCCTCCGTTGCCCTCACAGTACA
GCCAGCCAGCTCCACCTCTGTCCAGCTCTTCTCTCCACATACATTCCAAGGGCGCCCAGGGTGAAGGCAA
CTCAGTATCATTGGATTTTCAGAACTCATATATGTCCAAACCAGACCCACCCCCATCTCAGAGTAAACCA
GCAACTTTCAGACCACCAACTCGAGAAGACCCCCCTCAGACTTTCTATCCGCAGAAAAGTTTCCCAGACA
AAGCTCCAGTTAACGGAGCTGAGCAGACTCAGAAAACCATCACTCCGGTGTACAATCGATTCACACCAAA
GCCGTACACAAGTTCTGCCCGGCCATTTGAACGCAAATTTGAAAGTCCGAAGTTCAACCATAATCTTCTG
CCAAGTGAAACTGTACATAAACCTGAATTGTCTTCAAAAACTCCCACTTCCCCAAAAACTCTTATGAAAG
CTCATAGTTCAACACAGCCTCCAGAGTTTGACAGTGGAGTTGAAACTTTCTCTGTTCACACAGATAAGCC
TAAATATCAAATGAATAATATCAGCACCATGCCTAAAGCTGTCCCTGTGAGTCCTTCAGCTGTGGAAGAA
GATGAAGATGAGGATGGTCATACTGTAGTGGCTACAGCTCGTGGCATTTTTAACAGCAATGGTGGTGTGT
TGAGTTCCATAGAAACCGGTGTTAGTATAATTATCCCACAAGGAGCCATTCCTGAAGGAATTGAGCAAGA
AATCTATTTCAAAGTCTGCAGAGACAATAGCATTCTCCCACCTTTAGATAAAGAGAAAGGTGAAACTCTG
CTGAGCCCCCTAGTGATGTGTGGGCCCCATGGCCTCAAGTTCCTGAAGCCCGTGGAGCTACGCTTGCCAC
ACTGTGCGTCCATGACTCCTGACGGTTGGTCTTTTGCTCTAAAATCATCCGACTCCTCGTCGGGTGACCC
TAAAACCTGGCAAAACAAGTGTCTTCCTGGAGATCCGAATTACCTTGTTGGAGCCAACTGTGTTTCTGTC
CTGATTGACCACTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

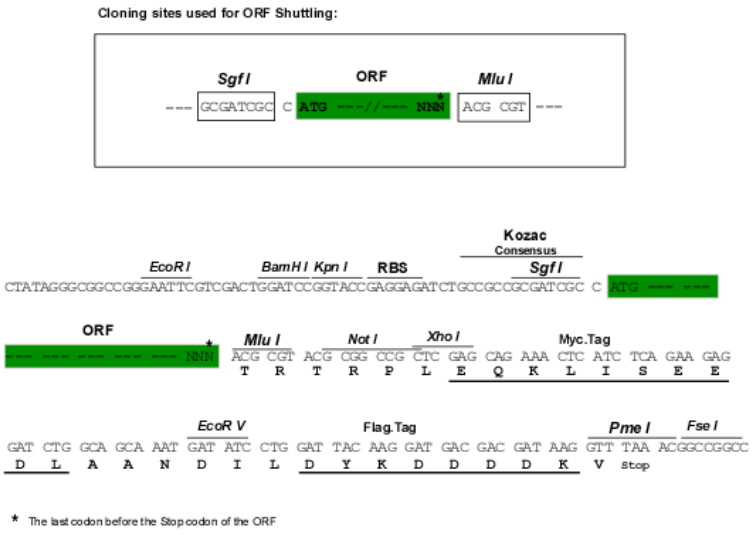
>MR226867 representing NM_001163574
Red=Cloning site Green=Tags(s)

MSARAAAAKSTAMEETAIWEQHTVTLHRAPGFGFGIAISGGRDNPHFQSGETSIVISDVLKGGPAEGQLQ
ENDRVAMVNGVSMDNVEHAFAVQQLRKSGKNAKITIRRKKKVQIPVSHPDPEPVSDNEDDSYDEEVHDPR
AGRGALANRRSEKSWARDRSASRERSLSPRSDRRSVASSQPAKPTKVTLVKSRKNEEYGLRLASHIFVKE
ISQDSLAARDGNIQEGDVVLKINGTVTENMSLTDAKTLIERSKGKLKMVVQRDERATLLNVPDLSDSIHS
ANASERDDISEIQSLASDHSGRSHDRPPRRSQSRSPDQRSEPSDHSTQSPQQPSNGSLRSREEERMSKPG
AISTPVKHVDDHPPKAVEEVTVEKNEKQTPTLPEPKPVYAQVGQPDVDLPVSPSDGALPNSAHEDGILRP
SMKLVKFRKGDSVGLRLAGGNDVGIFVAGVLEDSPAAKEGLEEGDQILRVNNVDFTNIIREEAVLFLLDL
PKGEEVTILAQKKKDVYRRIVESDVGDSFYIRTHFEYEKESPYGLSFNKGEVFRVVDTLYNGKLGSWLAI
RIGKNHKEVERGIIPNKNRAEQLASVQYTLPKTAGGDRADFWRFRGLRSSKRNLRKSREDLSAQPVQTKF
PAYERVVLREAGFLRPVTIFGPIADVAREKLAREEPDIYQIAKSEPRDAGTDHRSSGIIRLHTIKQIIDQ
DKHALLDVTPNAVDRLNYAQWYPIVVFLNPDSKQGVKTMRMRLCPESRKSARKLYERSHKLRKNNHHLFT
TTINLNSMNDGWYGALKEAIQQQQNQLVWVSEGKADGATSDDLDLHDDRLSYLSAPGSEYSMYSTDSRHT
SDYEDTDTEGGAYTDQELDETLNDEVGTPPESAITRSSEPVREDSSGMHHENQTYPPYSPQAQPQAIHRI
DSPGLKPASQQVYRKEPYSEEMMRQNHILKQPALGHPGQRPDKEPNLAYEPQLPYIEKQASRDLEQPSYR
YEVSSYTDQFSRNYDHRLRFEDRIPTYEDQWSYYDDKQPYQPRPFENQHPRDLDSRQHPEEASERGYFQR
FEEPAPLSYDSRTRYEQLPRTSTLRHEEQPAPAYEVHNRYRPEAQPYSSTGPKSSEPKQYFDQYPRSYEQ
VPPPGFTSKTGHYEPLHGAAVVPPLIPSSQQKPEVLPSATKPQPPPPTLTEEEEDPAMKPQSVLTRVKMF
ENKRSASLENKKDVNDTASFKPPEVASKPPGASLAGPKPVPQSQFSEHDKTLYRLPEPQKPQVKPPEDIV
RSNHYDPEEDEEYYRKQLSYFDRRSFESKPSAHLPAGHHSEPAKPVHSQSQPNFSSYSSKGKPETDAVDR
SFSEKRYDPAQATPPPPPLPSQYSQPAPPLSSSSLHIHSKGAQGEGNSVSLDFQNSYMSKPDPPPSQSKP
ATFRPPTREDPPQTFYPQKSFPDKAPVNGAEQTQKTITPVYNRFTPKPYTSSARPFERKFESPKFNHNLL
PSETVHKPELSSKTPTSPKTLMKAHSSTQPPEFDSGVETFSVHTDKPKYQMNNISTMPKAVPVSPSAVEE
DEDEDGHTVVATARGIFNSNGGVLSSIETGVSIIIPQGAIPEGIEQEIYFKVCRDNSILPPLDKEKGETL
LSPLVMCGPHGLKFLKPVELRLPHCASMTPDGWSFALKSSDSSSGDPKTWQNKCLPGDPNYLVGANCVSV
LIDHF

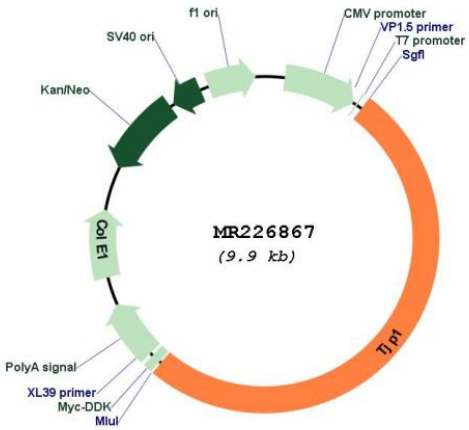
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001163574
ORF Size:	5055 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).
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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.
RefSeq:	NM_001163574.1, NP_001157046.1
RefSeq Size:	6891 bp
RefSeq ORF:	5058 bp
Locus ID:	21872
Cytogenetics:	7 35.02 cM
MW:	189.3 kDa
Gene Summary:	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 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 TJjp3, 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]