

Product datasheet for **RR206456**

Tjp1 (NM_001106266) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tjp1 (NM_001106266) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Tjp1
Synonyms: ZO-1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR206456 representing NM_001106266
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGGAAACAGCTATATGGGAACAGCACACAGTGACGCTTACAGGGCTCCTGGGTTGGATTGGAA
TTGCAATATCTGGTGAAGAGATAATCCTCATTTTCAGAGTGGGAAACCTCCATAGTGATTCTGATGT
GCTAAAAGGAGGGCCAGCTGAAGGACAGCTACAGGAAAATGACCGAGTCGCAATGGTTAACGGAGTTTCA
ATGGATAATGTTGAACATGCTTTTGCTGTTTCAGCAGCTAAGGAAAAGTGGGAAAAACGAAAAATTACCA
TCCGAAGAAAGAAGAAAGTTTCAGATTCTGTAAGTCACCCAGACCCTGACCCAGTGTCTGATAATGAAGA
TGATAGCTATGACGAGGATGTGCACGATCCAAGAAGTGGCCGAGGTGCCCTAGCTAACAGAAGGGGTGAG
AAGAGCTGGGCAAGGGATAGAAGCGCAAGCAGGGACCGGAGCCTGTCCCTCGCTCAGACAGGCGATCAG
TGGCCTCCAGTCAGCCCACCAACCCACCAAGGTACATTGGTGAAGTCTCGGAAAAATGAAGAATATGG
TCTTCGATTGGCCAGCCATATATTTGTAAGGAAATTTACAAGATAGTTTGGCAGCAAGAGATGGTAAC
AATCAAGAAGGGGATGTTGTCTGAAGATAAATGGTACTGTGACAGAAAAATGCTACTGACAGATGCAA
AAACATTGATAGAAAGGCTAAAGGCAAGTTAAAAATGGTAGTGCAAAGAGATGAGCGGGCTACCTTATT
GAATGTCCTGATCTTTCAGATAGTATCCATTCTGCTAATGCCTCTGAAAGAGATGACATTTACAGAAAT
CAGTCACTAGCATCAGACCATTAGTTCGCTCCCATGACAGGCCTCCCGCCGAAGCCAGTCACGATCTC
CCGACCAACGTTTCAGAGCCCTCTGATCATTCCACACAGTCTCCACAGCAGCCAGCAATGGCAGTCTCCG
GAGCAGAGAGGAAGAGCGCATGTCTAAACCCGGGGCTGTCTCAACTCCTGTAACATGTAGATGATCAT
ACACCCAAAGCAGTGAAGAAGTTACAGTTGAAAAACATGAGAAGCAGACACCCACTCTTCCAGAACCAA
AACCTGTATATGCTCAAGTCGGACAGCCAGATGTGGATTTACCTGTCAGCCCTTCTGATGGTGTCTGCC
AAATTCACACATGAAGATGGGATCTTAGGCCAGCATGAAACTGGTAAAATTCAGAAAAGGAGATAGT
GTGGGTTTGCAGTACTGGTGGAAATGATGTCGGAATATTTGTAGCTGGCCTTCTAGAAGATAGCCCTG
CAGCCAAAGAAGGCTTAGAGGAAGGTGATCAAATTTCTCAGGGTGAACAATGTAGATTTACAAAATATCAT
AAGAGAAGAAGCTGTTCTTTCTCCTCGACCTCCCTAAAGGTGAAGAAGTGACCATATTGGCTCAGAAG
AAAAAGGACGTTTATCGCCGATTGTAGAGTCAGATGTAGGAGACTCGTTCTATATTAGAACACATTTTG



[View online >](#)

AATATGAGAAAGAATCTCCTTATGGACTCAGTTTTAACAAAGGAGAGGTGTTCCGGGTCGTGGACACCCCT
GTACAACGGGAAGCTGGGCTCCTGGCTGGCCATTGCAATTGGCAAAAATCACAAGGAGGTAGAGCGAGGC
ATCGTTCTTAATAAGAACAGAGCCGAGCAGTTAGCCAGTGTACAGTACACACTTCCAAAGACAGCAGGTG
GCGATCGGGCAGACTTCTGGAGGTTTCGAGGTCTTCGTAGCTCCAAGAGAAAATCTTCGAAAAAGCAGAGA
GGACCTGTCAGCGCAGCCAGTTCAAACAAAGTCCCAGCTTATGAAAGGGTTGTTCTTCGAGAAGCTGGA
TTCCTAAGACCTGAACCATCTTTGGACCGATTGCTGATGTTGCCAGAGAAAAGTTAGCAAGGGAGGAGC
CAGACATTTATCAGATTGCAAAAAGTGAACCACGAGATGCTGAACTGACCATCGGAGCTCGGGCATTAT
TCGCCTTCATACAATAAAGCAAATCATAGATCAAGATAAACATGCTTTATTAGATGTCACACCAAATGCA
GTCGATCGCCTTAATTATGCACAGTGGTATCCGATTGTTGTGTTCCCTAACCCCTGACTCTAAGCAGGGTG
TAAAAACAATGAGGATGAGGCTATGTCCAGAGTCTCGAAAAAGTCCAGGAAGCTATATGAACGGTCTCA
TAAACTTCGTAATAATAATCACCATCTTTTTACAACCACAATTAACCTAAACTCAATGAATGATGGTTGG
TATGGTGCCTGAAAGAAGCGATTACAGCAGCAACAGAACCAGCTGGTGTGGGTCTCTGAGGGGAAGGCGG
ATGGTGTACAAGTATGACCTTGATTTGCATGATGATCGTCTGTCTACCTGTCAGCCCCAGGTAGTGA
GTACTCAATGTATAGCACGGACAGTAGACACACTTCTGACTATGAAGACACAGATACAGAAGGCGGGGCC
TACACTGATCAAGAACTAGATGAACTCTTAATGATGAGGTGGGACTCCACCGAGTCTGCTATTACAC
GGTCTCTGAGCCTGTAAGAGAGGATTCTCTGGAATGCATCATGAAAACCAAACATATCCTCCTTACTC
ACCACAAGCGCAGCCACAAGCTATTCATAGAATAGACTCCCCTGGACTTAAAGACAGCCTCTCAACAGAAA
GCAGAAGCCTCATCTCCAGTCCCTTACCTTTCCGCTGAAACAAACCCAGCATCATCAGCCTCTGCAGTTA
AGCATAATGTAATTTAACTAATGTCAACCTGGAGGAGCCACCCAGCTCCTCCACCTCGCACGTATC
ACAAGCTGATTGTTTAGGAGCACCAAGTCTGAGGCACCTCACACGATGCTCAGAGACGAAGGAGTGTCA
TTGCCGTGCGATGTAGACCCAGCAAAGGTATATAGGAAGGAGCCATATCCTGAGGAAATGATGAGACAAA
ACCATATTTTAAACAGCCAGCTCTTGGTATCCAGGGCAGAGGCTGGATAAAGAGCCAAATCCAGCCTA
TGATCCCCAACTTCCATATGTAGAAAAACAAGCCAGCAGAGACCTTGAAGCAGCCACCATACAGGTATGAG
TCCTCAAGCTACACAGACCAAGTTTTCTCGAACTATGACCATCGCTACGATTTGAAGACCGGCCTTA
CCTATGAAGACCAAGTGGTATATTATGATGACAACAGCCCTACCAACTCGGCCCTTGTACTCAGCA
TCCTCGAGACTTGGACTCCAGACAGCATCCTGAAGAGGCTTCAAGACGAGGCTATTTCCAGCGTTTTGAA
GAGCCCGCCCTCTGCCATATGACAGTAGACCAGCTACGAGCAGCTGCCTCGAACCTCTACTCTCCGAC
ATGAAGAACAGCCAACCAAGTGGATATGAGGTGCACAACAGGTACAGGCCAGAAGCACAGCCCTATGCTCC
AGCAGGTCTAAGTCATCTGAGCCGAAGCAGTACTTTGACCAGTACCCACGAAGTTATGAGCAAGTACCA
CCACCAGGATTTACCTCCAAAACAGGCCATTACGAGCCTCTCCATGGTGTGCAGTTGTTCTCCTCTGA
TACCTTCTCTCAACATAAGCCAGAAGTCTGCCCTCAGCTACCAAGCCACAGCCTCCGCCCCAGCCCT
AACTGAGGAAGAGGAGGATCCAGCAATGAAACCAAGTCTGTGCTCACAGGGGTCAAATGTTTGA AAAAC
AAAAGATCTGCGTCTCTGGAGAACAAGAAGGATGTGAATGACACTGCCAGCTTAAAGCCTCCAGAAGTAG
CATCTAAACCTCCAAGTCTTCTTGTGGCCCTAAACCTGTTTCTCAGACTCAGTTTGTAGTGAAGTGA
CAAAACTCTACAGGCTCCCAGAGCCTCAGAACTCAAGCGAAGCCACCTGAAGATATTGTTTCGATCA
AATCATTACGATCCTGAAGAGGATGAAGAGTATTACCGGAAACAGCTCTTACTTTGACCGGAGAAGTT
TCGAGAGCAAGCCTCTGCACATATTCTGTGGCCATCACTCAGAGCCTGCCAAGCCAGTCCATTCTCA
GAGTCAGCCGAATTTCTCTAGTTATTCTCAAAGGGGAAACCCGAACTGATGCTATGGATAGATCATT
AGTGAGAAAAGTTATGATCCAACCCAGGCCATGCCTCCTCCTCCGTTGCCCTCACAGTACAGCCAGC
CAGTTCCGCCTCTGTCCAACCTTCTCTCCACATACATTCCAAGGCCGCCAGAGTGAAGGCAATTCGCT
ATCGTTGGATTTTCAGAACTCATATATATCCAACCCAGACCCACCCCATCTCAGAGCAAACAGCAACT
TTTAGACCACCAACCCGGGAGGACCCTCCTCAGACCTTCTATCCCAGAAAAGTTTCCCAGACAAAGCTT
CAGTTAATGGAGCTGAGCAGACTCAGAAAACCATCACTCCAGCATACAACCGATTACACCAAAGCCGTA
CACGAGCTCTGCCCGCCATTTGAACGCAAGTTTGAAAGTCCAAAGTTCAACCATAATCTTCTGCCAAGT
GAAACTGTACATAAACCTGAATTGTCTTCAAACCTCCCCCTTCTCCAAAACCTCATGAAGGCTCATA
GTTCCACACAGCCGCCTGAGTTTGACAGTGGAGTCGAGACTTCTCTGTTACACAGATAAGCCTAATA
TCAAATAAATAATATCAGCACCATGCCTAAAGCTGTTCTGTGAGTCTTCCAGCTGTGGAAGAAGATGAA
GATGAGGATGGTCATACTGTAGTGGCTACAGCCCGCGGCAATTTTAAACAGCAATGGCGGTGTGTTGAGTT
CCATAGAAAAGTGGTGTAGTATAATTATCCACAAAGGAGCCATTCTGAAGGAATTGAGCAAGAAATCTA
TTTCAAAGTCTGCAGAGACAATAGCATCCTCCACCTTTAGATAAAGAGAAAAGGTGAAACTCTGCTGAGC
CCCCTAGTGTGTCGGGCCCATGGCCTCAAGTTCTGAAGCCTGTGGAGCTACGCTTGCCACACTGTG
ACCCTAAAACCTGGCAAAAACAAGTGTCTTCTGGAGATCCGAATTACCTGTTGGAGCCAACTGTGTTTC

TGTCCTGATTGACCACTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR206456 representing NM_001106266
Red=Cloning site Green=Tags(s)

MEETAIWEQHTVTLHRAPGFGFIAISGGRDNPHFQSGETSIVISDVLKGGPAEQQLQENDRVAMVNGVS
MDNVEHAFVAVQLRKSGKNAKITIRKKKVQIPVSHPPDPVSDNEDDSYDEDVHDPDRSGRGLANRRGE
KSWARDRSASDRSLSPRSDRRSVASSQPAKPTKVTLVKSrkNEEYGLRLASHIFVKEISQDSLAAARDGN
IQEGDVLKINGTVTENMSLTDAKTLIERSKGLKMMVQRDERATLLNVPDLSDSIHSANASERDDISEI
QSLASDHSVRSHDRPPRRSQSRSPDQRSEPSDHSTQSPQQPNSGLRSREEERMSKPGAVSTPVKHVDDH
TPKAVEEVTVEKHEKQTPTLPEPKPVYAQVGPVDVLPVSPSDGVLPNSTHEDGILRPSMKLVKFRKGD
VGLRLAGGNDVGIFVAGVLEDSPAAKEGLEEGDQILRVNNVDFTNIIREEAVLFLDLPKGEEVTILAQK
KKDHYRIVESDVGDSFYRTHFEYEKESPYGLSFNKGEVFRVVDLTYNGKLGSLAIRIGKNHKEVERG
IVPNKNRAEQLASVQYTLPKTAGGDRADFWRFRGLRSSKRNLRSREDLAQPQVTKFPAYERVVLRAG
FLRPVTIFGPIADVAREKLAREPDIYQIAKSEPRDAGTDHRSSGIIRLHTIKQIIDQDKHALLDVTPNA
VDRLNYAQWYPIVVFLNPDQKQVKTMRMLCPESRKSARKLYERSHKLKNNHHLFTTTINLNSMNDGW
YGALKEAIQQQQNLVWVSEKADGATSDDLHLDDRLSYLSAPGSEYSMYSTDSRHTSDYEDTDEGGA
YTDQELDETLNDEVGTPPESAITRSSEPVREDSSGMHENQTYPPYSPQAQPAIHRIDSPGLKTASQQK
AEASSPVYLPSPETNPASSASAVKHNVNL TNVNLEEPTAPPTSHVSQADCLGAPSPAPHTMLRDEGVS
LP SHVDPAKVYRKEPYPEEMMRQHILKQPALGHGQRLDKEPNPAYDPLPYVEKQASRDLEQPPYRYE
SSSYTDQFSRNYDHRLRFEDRVPTYEDQWSSYYDDKQPYTRPFDTQHPRDLDSRQHPEEASERGYRQFE
EPAPLPYDSRPRYQLPRTSTLRHEEQPTSGYEVHNRYPYAPAGPKSSEPKQYFDQYPRSYEQVP
PPGFTSKTGHYEPLHGAAVVPLIPSSQHKPEVLP SATKQPPPPALTEEEEDPAMKQSVL TRVKMFEN
KRSASLENKKDVNDTASFKPPEVASKPPSASLVGPKPVSQTQFSEHDKTL YRLPEPQKPAKPPEDIVRS
NHYPDEEYRQKLSYFDRRSFESKPPAHIPAGHHSEPAKPVHSQSQPNFSSYSKGPETDAMDRSF
SEKRYDPTQAMPPPPPLPSQYSQVPPLSNSSLHIHSKAAQSEGNVSLDFQNSYISKPDPPPSQSKPAT
FRPPTREDPPQTFYPQKSFDPKASVNGAEQTQKITPAYNRFTPKPYTSSARPFERKFESPKFNHLLPS
ETVHKPELSSKPPSPKTLMKHSSTQPPEFDSGVETFSVHTDKPKYQINNI STMPKAVPVSPSAVEEDE
DEDGHTVVATARGIFNSGGVLSSETGVSIIPQGAIEGIEQEIEYFKVCRDNSILPPLDKEKGETLLS
PLVMCGPHGLKFLKPVLELRLPHCDPKTWQNKCLPGDPNYLVGANCVSVLIDHF

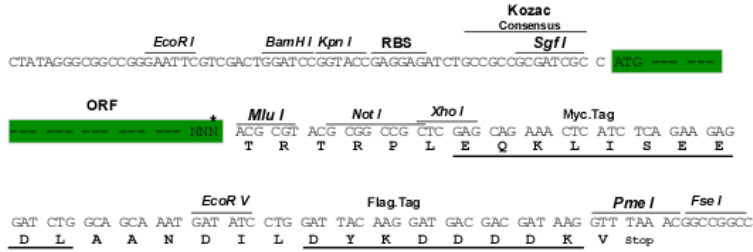
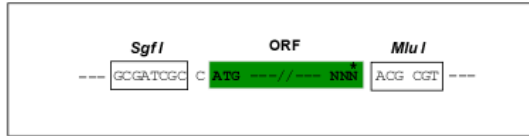
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

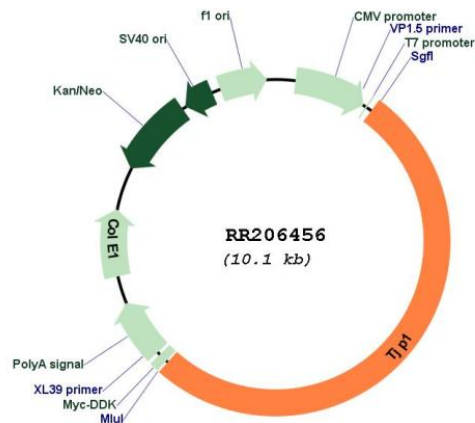
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001106266

ORF Size: 5199 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_001106266.1](#), [NP_001099736.1](#)

RefSeq Size: 6614 bp

RefSeq ORF: 5202 bp

Locus ID: 292994

Cytogenetics: 1q22

MW: 194 kDa