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 SC309955

TJP2 (NM_004817) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TJP2 (NM_004817) Human Untagged Clone
Tag:	Tag Free
Symbol:	TJP2
Synonyms:	C9DUPq21.11; DFNA51; DUP9q21.11; FHCA1; PFIC4; X104; ZO2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_004817 edited
AGCGGAGGGGCCACGCTCGGGTCGGGGGCGGGCTGACGCCGCCGCCGCCGCGGGAGGAGG
GACAAAGGGGTGGGTCCCCGCGGGTCGGCACCCCGGCGGTTGGGCTGCGGGTCAGAGCAC
TGTCCGGTGGTGCCCAGGAGGAGTAGGAGCAGGAGCAGAAGCAGAAGCGGGGTCCGGAGC
TGCGCGCCTACGCGGGACCTGTGTCCGAAATGCCGGTGCGAGGAGACCGCGGGTTTCCAC
CCCGGCGGGAGCTGTCAGGTTGGCTCCGCGCCCCAGGCATGGAAGAGCTGATATGGGAAC
AGTACACTGTGACCCTACAAAAGGATTCCAAAAGAGGATTTGGAATTGCAGTGTCCGGAG
GCAGAGACAACCCCCACTTTGAAAATGGAGAAACGTCAATTGTCATTTCTGATGTGCTCC
CGGGTGGGCCTGCTGATGGGCTGCTCCAAGAAAATGACAGAGTGGTCATGGTCAATGGCA
CCCCCATGGAGGATGTGCTTCATTCGTTTGCAGTTCAGCAGCTCAGAAAAAGTGGGAAGG
TCGCTGCTATTGTGGTCAAGAGGCCCCGGAAGGTCCAGGTGGCCGCACTTCAGGCCAGCC
CTCCCCTGGATCAGGATGACCGGGCTTTTGAGGTGATGGACGAGTTTGATGGCAGAAGTT
TCCGGAGTGGCTACAGCGAGAGGAGCCGGCTGAACAGCCATGGGGGGCGCAGCCGCAGCT
GGGAGGACAGCCCGGAAAGGGGGCGTCCCCATGAGCGGGCCCGGAGCCGGGAGCGGGACC
TCAGCCGGGACCGGAGCCGTGGCCGGAGCCTGGAGCGGGGCCTGGACCAAGACCATGCGC
GCACCCGAGACCGCAGCCGTGGCCGGAGCCTGGAGCGGGGCCTGGACCACGACTTTGGGC
CATCCCGGGACCGGGACCGTGACCGCAGCCGCGGCCGGAGCATTGACCAGGACTACGAGC
GAGCCTATCACCGGGCCTACGACCCAGACTACGAGCGGGCCTACAGCCCGGAGTACAGGC
GCGGGGCCCGCCACGATGCCCGCTCTCGGGGACCCCGAAGCCGCAGCCGCGAGCACCCGC
ACTCACGGAGCCCCAGCCCCGAGCCTAGGGGGCGGCCGGGGCCCATCGGGGTCCTCCTGA
TGAAAAGCAGAGCGAACGAAGAGTATGGTCTCCGGCTTGGGAGTCAGATCTTCGTAAAGG
AAATGACCCGAACGGGTCTGGCAACTAAAGATGGCAACCTTCACGAAGGAGACATAATTC
TCAAGATCAATGGGACTGTAACTGAGAACATGTCTTTAACGGATGCTCGAAAATTGATAG
AAAAGTCAAGAGGAAAACTACAGCTAGTGGTGTTGAGAGACAGCCAGCAGACCCTCATCA
ACATCCCGTCATTAAATGACAGTGACTCAGAAATAGAAGATATTTCAGAAATAGAGTCAA
ACCGATCATTTTCTCCAGAGGAGAGACGTCATCAGTATTCTGATTATGATTATCATTCCT
CAAGTGAGAAGCTGAAGGAAAGGCCAAGTTCCAGAGAGGACACGCCGAGCAGATTGTCCA

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GGATGGGTGCGACACCCACTCCCTTTAAGTCCACAGGGGATATTGCAGGCACAGTTGTCC
CAGAGACCAACAAGGAACCCAGATACCAAGAGGACCCCCCAGCTCCTCAACCAAAAGCAG
CCCCGAGAACTTTTCTTCGTCCTAGTCCTGAAGATGAAGCAATATATGGCCCTAATACCA
AAATGGTAAGGTTCAAGAAGGGAGACAGCGTGGGCCTCCGGTTGGCTGGTGGCAATGATG
TCGGGATATTTGTTGCTGGCATTCAAGAAGGGACCTCGGCGGAGCAGGAGGGCCTTCAAG
AAGGAGACCAGATTCTGAAGGTGAACACACAGGATTTCAGAGGATTAGTGCGGGAGGATG
CCGTTCTCTACCTGTTAGAAATCCCTAAAGGTGAAATGGTGACCATTTTAGCTCAGAGCC
GAGCTGATGTGTATAGAGACATCCTGGCTTGTGGCAGAGGGGATTCGTTTTTTATAAGAA
GCCACTTTGAATGTGAGAAGGAAACTCCACAGAGCCTGGCCTTCACCAGAGGGGAGGTCT
TCCGAGTGGTAGACACACTGTATGACGGCAAGCTGGGCAACTGGCTGGCTGTGAGGATTG
GGAACGAGTTGGAGAAAGGCTTAATCCCCAACAAGAGCAGAGCTGAACAAATGGCCAGTG
TTCAAAATGCCCAGAGAGACAACGCTGGGGACCGGGCAGATTTCTGGAGAATGCGTGGCC
AGAGGTCTGGGGTGAAGAAGAACCTGAGGAAAAGTCGGGAAGACCTCACAGCTGTTGTGT
CTGTCAGCACCAAGTTCCCAGCTTATGAGAGGGTTTTGCTGCGAGAAGCTGGTTTCAAGA
GACCTGTGGTCTTATTCGGCCCCATAGCTGATATAGCAATGGAAAAATTGGCTAATGAGT
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CGTCCAACAAAAGTTCTCGAAAGTTATTTGATCAAGCCAACAAGCTTAAAAAAACGTGTG
CACACCTTTTTACAGCTACAATCAACCTAAATTCAGCCAATGATAGCTGGTTTGGCAGCT
TAAAGGACACTATTCAGCATCAGCAAGGAGAAGCGGTTTGGGTCTCTGAAGGAAAGATGG
AAGGGATGGATGATGACCCCGAAGACCGCATGTCCTACTTAACCGCCATGGGCGCGGACT
ATCTGAGTTGCGACAGCCGCCTCATCAGTGACTTTGAAGACACGGACGGTGAAGGAGGCG
CCTACACTGACAATGAGCTGGATGAGCCAGCCGAGGAGCCGCTGGTGTCGTCCATCACCC
GCTCCTCGGAGCCGGTGCAGCACGAGGAGAGCATAAGGAAACCCAGCCCAGAGCCACGAG
CTCAGATGAGGAGGGCTGCTAGCAGCGATCAACTTAGGGACAATAGCCCGCCCCCAGCAT
TCAAGCCAGAGCCGCCCAAGGCCAAAACCCAGAACAAAGAAGAATCCTATGACTTCTCCA
AATCCTATGAATATAAGTCAAACCCCTCTGCCGTTGCTGGTAATGAAACTCCTGGGGCAT
CTACCAAAGGTTATCCTCCTCCTGTTGCAGCAAAACCTACCTTTGGGCGGTCTATACTGA
AGCCCTCCACTCCCATCCCTCCTCAAGAGGGTGAGGAGGTGGGAGAGAGCAGTGAGGAGC
AAGATAATGCTCCCAAATCAGTCCTGGGCAAAGTCAAAATATTTGAGAAGATGGATCACA
AGGCCAGGTTACAGAGAATGCAGGAGCTCCAGGAAGCACAGAATGCAAGGATCGAAATTG
CCCAGAAGCATCCTGATATCTATGCAGTTCCAATCAAAACGCACAAGCCAGACCCTGGCA
CGCCCCAGCACACGAGTTCCAGACCCCCTGAGCCACAGAAAGCTCCTTCCAGACCTTATC
AGGATACCAGAGGAAGTTATGGCAGTGATGCCGAGGAGGAGGAGTACCGCCAGCAGCTGT
CAGAACACTCCAAGCGCGGTTACTATGGCCAGTCTGCCCGATACCGGGACACAGAATTAT
AGATGTCTGAGCACGGACTCTCCCAGGCCTGCCTGCATGGCATCAGACTAGCCACTCCTG
CCAGGCCGCCGGGATGGTTCTTCTCCAGTTAGAATGCACCATGGAGACGTGGTGGGACTC
CAGCTCGTGTGTCCTCATGGAGAACCCAGGGGACAGCTGGTGCAAATTCAGAACTGAGGG
CTCTGTTTGTGGGACTGGGTTAGAGGAGTCTGTGGCTTTTTGTTCAGAATTAAGCAGAAC
ACTGCAGTCAGATCCTGTTACTTGCTTCAGTGGACCGAAATCTGTATTCTGTTTGCGTAC
TTGTAATATGTATATTAAGAAGCAATAACTATTTTTCCTCATTAATAGCTGCCTTCAAGG
ACTGTTTCAGTGTGAGTCAGAATGTGAAAAAGGAATAAAAAAATACTGTTGGGCTCAAAC
TAAATTCAAAGAAGTACTTTATTGCAACTCTTTTAAGTGCCTTGGATGAGAAGTGTCTTA
AATTTTCTTCCTTTGAAGCTTTAGGCAGAGCCATAATGGACTAAAACATTTTGACTAAGT
TTTTATACCAGCTTAATAGCTGTAGTTTTCCCTGCACTGTGTCATCTTTTCAAGGCATTT
GTCTTTGTAATATTTTCCATAATTTTGGACTGTCTATATCATAACTATACTTGATAGTTT
GGCTATAAGTGCTCAATAGCTTGAAGCCCAAGAAGTTGGTATCGAAATTTGTTGTTTGTT
TAAACCCAAGTGCTGCACAAAAGCAGATACTTGAGGAAAACACTATTTCCAAAAGCACAT
GTATTGACAACAGTTTTATAATTTAATAAAAAGGAATACATTACAAAAAAAAAAAAAAAA

Restriction Sites:	Please inquire
ACCN:	NM_004817
Insert Size:	4600 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_004817.2.
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_004817.2, NP_004808.2
RefSeq Size:	4618 bp
RefSeq ORF:	3573 bp
Locus ID:	9414
UniProt ID:	Q9UDY2
Cytogenetics:	9q21.11
Domains:	SH3, PDZ, Guanylate_kin, GuKc
Protein Pathways:	Tight junction, Vibrio cholerae infection

Gene Summary: This gene encodes a zonula occluden that is a member of the membrane-associated guanylate kinase homolog family. The encoded protein functions as a component of the tight junction barrier in epithelial and endothelial cells and is necessary for proper assembly of tight junctions. Mutations in this gene have been identified in patients with hypercholanemia, and genomic duplication of a 270 kb region including this gene causes autosomal dominant deafness-51. Alternatively spliced transcripts encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011]
Transcript Variant: This variant (1) encodes isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.