

## Product datasheet for **SC329302**

### TJP2 (NM\_001170415) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TJP2 (NM_001170415) Human Untagged Clone
Tag:	Tag Free
Symbol:	TJP2
Synonyms:	C9DUPq21.11; DFNA51; DUP9q21.11; FHCA1; PFIC4; X104; ZO2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001170415, the custom clone sequence may differ by one or more nucleotides

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ATGAAGACTGCTCAAGCCCTACATAGGATGTGGATCCAGGCTGTTAAAAAGTTGAGGAGA
TGGAAAGGCCGTGCCCCAGGCATGGAAGAGCTGATATGGGAACAGTACACTGTGACCCTA
CAAAAGGATTCCAAAAGAGGATTTGGAATTGCAGTGTCCGGAGGCAGAGACAACCCCCAC
TTTGAAAATGGAGAAACGTCAATTGTCATTTCTGATGTGCTCCCGGGTGGGCCTGCTGAT
GGGCTGCTCCAAGAAAATGACAGAGTGGTCAATGGCACCCCATGGAGGATGTG
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AAGAGGCCCGGAAGGTCAGGTGGCCGCACTTCAGGCCAGCCCTCCCCTGGATCAGGAT
GACCGGGCTTTTGGGTGATGGACGAGTTTGTATGCAGAAGTTTCCGGAGTGGCTACAGC
GAGAGGAGCCGGCTGAACAGCCATGGGGGGCGCAGCCGAGCTGGGAGGACAGCCGGAA
AGGGGGCGTCCCATGAGCGGGCCCGAGCCGGGAGCGGGACCTCAGCCGGGACCGGAGC
CGTGGCCGGAGCCTGGAGCGGGGCTGGACCAAGACCATGCGCGCACCCGAGACCGCAGC
CGTGGCCGGAGCCTGGAGCGGGGCTGGACCACGACTTTGGGCCATCCCGGGACCGGGAC
CGTGACCCGAGCCCGCGCCGGAGCATTGACCAGGACTACGAGCGAGCCTATCACCGGGCC
TACGACCCAGACTACGAGCGGGCTACAGCCGGAGTACAGGCGCGGGGCCCGCCACGAT
GCCCGTCTCGGGGACCCCGAAGCCGAGCCGCGAGCACCCTCAGCTCACGGAGCCCGCAGC
CCCGAGCCTAGGGGGCGGCCGGGGCCATCGGGGTCTCTCTGATGAAAAGCAGAGCGAAC
GAAGATATGGTCTCCGGCTTGGGAGTCAGATCTTCGTAAGGAAATGACCCGAACGGGT
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GTAAGTGAACAATGTCTTTAACGGATGCTCGAAAATTGATAGAAAAGTCAAGAGAAAA
CTACAGCTAGTGGTGTGAGAGACAGCCAGCAGACCCTCATCAACATCCCGTCATTAAAT
GACAGTGACTCAGAAATAGAAGATATTTTCAGAAATAGAGTCAAACCGATCATTTTCTCCA
GAGGAGAGACGTCATCAGTATTCTGATTATGATTATCATTCTCAAGTGAGAAGCTGAAG
GAAAGGCCAAGTCCAGAGAGGACACGCCGAGCAGATTGTCCAGGATGGGTGCGACCC
ACTCCCTTAAAGTCCACAGGGGATATTGCAGGCACAGTTGTCCAGAGACCAACAAGGAA
CCCAGATACCAAGAGACCCCCAGCTCCTCAACCAAAAAGCAGCCCGAGAACTTTTCTT

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CGTCCTAGTCCTGAAGATGAAGCAATATATGGCCCTAATACCAAAATGGTAAGGTCAAG
AAGGGAGACAGCGTGGGCTCCGGTTGGCTGGTGGCAATGATGTCGGGATATTTGTTGCT
GGCATTCAAGAAGGGACCTCGGCGGAGCAGGAGGGCCTTCAAGAAGGAGACCAGATTCTG
AAGGTGAACACACAGGATTTAGAGGATTAGTGCGGGAGGATGCCGTTCTCTACCTGTTA
GAAATCCCTAAAGGTGAAATGGTGACCATTTTCTAGCTCAGAGCCGAGCCGATGTGTATAGA
GACATCCTGGCTTGTGGCAGAGGGGATTCGTTTTTATAAGAAGCCACTTTGAATGTGAG
AAGGAACTCCACAGAGCCTGGCCTTACCAGAGGGGAGGTCTTCCGAGTGGTAGACACA
CTGTATGACGGCAAGCTGGGCAACTGGCTGGCTGTGAGGATTGGGAACGAGTTGGAGAAA
GGCTTAATCCCCAACAGAGCAGAGCTGAACAAATGGCCAGTGTTCAAAATGCCAGAGA
GACAACGCTGGGGACCGGCAGATTTCTGGAGAATGCGTGGCCAGAGGTCTGGGGTGAAG
AAGAACCTGAGGAAAAGTCGGAAGACCTCACAGCTGTTGTGTCTGTCAGACCAAGTTC
CCAGCTTATGAGAGGGTTTTGCTGCGAGAAGCTGGTTTCAAGAGACCTGTGGTCTTATTC
GGCCCCATAGCTGATATAGCAATGGAAAAATTGGCTAATGAGTTACCTGACTGGTTTCAA
ACTGCTAAAACGGAACCAAAAAGATGCAGGATCTGAGAAATCCACTGGAGTGGTCCGGTTA
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TCCAGACAAGGTGTCAAACCATGAGACAAGGTTAAATCCAACGTCCAACAAAAGTTCT
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ACAATCAACCTAAATTCAGCCAATGATAGCTGGTTTGGCAGCTTAAAGGACACTATTCAG
CATCAGCAAGGAGAAGCGGTTTGGGTCTCTGAAGGAAAGATGGAAGGGATGGATGATGAC
CCCGAAGACCGCATGTCTACTTAACCGCCATGGGCGCGGACTATCTGAGTTGCGACAGC
CGCCTCATCAGTGACTTTGAAGACACGGACGGTGAAGGAGGCCCTACACTGACAATGAG
CTGGATGAGCCAGCCGAGGAGCCGCTGGTGTGTCATCACCCGCTCCTCGGAGCCGGTG
CAGCACGAGGAGCCAAAACCCAGAACAAGAAGAAATCCTATGACTTCTCCAAATCCTAT
GAATATAAGTCAAACCCCTCTGCGTGGTAAATGAACTCCTGGGGCATCTACCAAAA
GGTTATCCTCCTCTGTTGCAGCAAAACCTACCTTTGGGCGGTCTATACTGAAGCCCTCC
ACTCCCATCCCTCCTCAAGAGGGTGAGGAGGTGGGAGAGAGCAGTGAGGAGCAAGATAAT
GCTCCCAAATCAGTCTGGGCAAAGTCAAATATTTGAGAAGATGGATCACAAGGCCAGG
TTACAGAGAATGCAGGAGCTCCAGGAAGCACAGAATGCAAGGATCGAAATGCCAGAAAG
CATCCTGATATCTATGCAGTTCCAATCAAACGCACAAGCCAGACCTGGCACGCCCCAG
CACACGAGTTCAGACCCCTGAGCCACAGAAAGCTCCTTCCAGACCTTATCAGGATACC
AGAGGAAGTTATGTCAGTGATGCCGAGGAGGAGTACCGCCAGCAGCTGTGAGAACAC
TCCAAGCGCGTTACTATGGCCAGTCTGCCGATACCGGGACACAGAATTATAG

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- Restriction Sites:** Please inquire
- ACCN:** NM\_001170415
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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\\_001170415.1](#), [NP\\_001163886.1](#)

**RefSeq Size:** 4459 bp

**RefSeq ORF:** 3474 bp

**Locus ID:** 9414

**UniProt ID:** [Q9UDY2](#)

**Cytogenetics:** 9q21.11

**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 (4) has multiple differences, compared to variant 1. These differences include a distinct 5' UTR and translation initiation at a downstream start codon, compared to variant 1. The encoded isoform (4) is shorter and has a distinct N-terminus compared to 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.