

## Product datasheet for **SC329315**

### TJP2 (NM\_001170416) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TJP2 (NM_001170416) 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_001170416, the custom clone sequence may differ by one or more nucleotides

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ATGAAGACTGCTCAAGCCCTACATAGGATGTGGATCCAGGCTGTAAAAAGTTGAGGAGA
TGGAAAGGCCGTGTGAGTCCCTCTGCAAGCTCTCCCTTGTTCCTCCCAACCTTTCTTCA
TGGGAAGGGGAGGGAAGCAAAACCAATTCTCACAGCCCCAGGCATGGAAGAGCTGATATGG
GAACAGTACACTGTGACCCTACAAAAGGATTCCAAAAGAGGATTTGGAATTGCAGTGTCC
GGAGGCAGAGACAACCCCACTTTGAAAATGGAGAAAACGTC AATTGTCATTTCTGATGTG
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AGCTGGGAGGACAGCCCGAAAGGGGGCTCCCATGAGCGGGCCCGGAGCCGGGAGCGG
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GGGCCATCCCGGACCGGACCGTGACCGCAGCCGCGCCGGAGCATTGACCAGGACTAC
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ATAGAAAAGTCAAGAGGAAAACACAGCTAGTGGTGTGAGAGACAGCCAGCAGACCCCTC
ATCAACATCCCGTCATTAATGACAGTACTCAGAAATAGAAGATATTTAGAAAATAGAG
TCAAACCGATCATTTTCTCCAGAGGAGAGACGTCATCAGTATTCTGATTATGATTATCAT
TCCTCAAGTGAGAAGCTGAAGGAAAGGCCAAGTCCAGAGAGGACACGCCGAGCAGATTG
TCCAGGATGGGTGCGACCCCACTCCCTTAAGTCCACAGGGATATTGCAGGCACAGTT

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GTCCCAGAGACCAACAAGGAACCCAGATACCAAGAGGACCCCCAGCTCCTCAACCAAAA
GCAGCCCCGAGAACTTTTCTTCGTCTAGTCTGAAGATGAAGCAATATATGGCCCTAAT
ACCAAAATGGTAAGGTTCAAGAAGGGAGACAGCGTGGGCCTCCGGTTGGCTGGTGGCAAT
GATGTCGGGATATTTGTTGCTGGCATTCAAGAAGGGACCTCGGCGGAGCAGGAGGGCCTT
CAAGAAGGAGACCAGATTCTGAAGGTGAACACACAGGATTTAGAGGATTAGTGGGGAG
GATGCCGTTCTCTACCTGTTAGAAATCCCTAAAGGTGAAATGGTGACCATTTTAGCTCAG
AGCCGAGCCGATGTGTATAGAGACATCCTGGCTTGTGGCAGAGGGGATTGTTTTTATA
AGAAGCCACTTTGAATGTGAGAAGGAACTCCACAGAGCCTGGCCTTACCAGAGGGGAG
GTCTTCCGAGTGGTAGACACACTGTATGACGGCAAGCTGGGCAACTGGCTGGCTGTGAGG
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GAGTTACCTGACTGGTTTCAAACCTGCTAAAACGGAACCAAAAGATGCAGGATCTGAGAAA
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AGCTTAAAGGACACTATTCAGCATCAGCAAGGAGAAGCGGTTTGGGTCTCTGAAGGAAAG
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CGAGCTCAGATGAGGAGGGCTGCTAGCAGCGATCAACTTAGGGACAATAGCCCGCCCCCA
GCATTCAGCCAGAGCCGCCAAGGCCAAAACCCAGAACAAGAAGAATCCTATGACTTC
TCCAAATCCTATGAATATAAGTCAAACCCCTCTGCCGTTGCTGGTAAATGAAACTCCTGGG
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GAGCAAGATAATGCTCCCAAATCAGTCTGGGCAAAGTCAAAATATTTGAGAAGATGGAT
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ATTGCCAGAAGCATCCTGATATCTATGCAAGTCCAATAAAACGCACAAGCCAGACCCT
GGCACGCCCCAGCACACGAGTTCAGACCCCTGAGCCACAGAAAAGCTCCTTCCAGACCT
TATCAGGATACCAGAGGAAGTTATGGCAGTGATGCCGAGGAGGAGGAGTACCGCCAGCAG
CTGTCAGAACACTCCAAGCGGTTACTATGGCCAGTCTGCCGATACCGGGACACAGAA
TTATAG

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- Restriction Sites:** Please inquire
- ACCN:** NM\_001170416
- 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\\_001170416.1](#), [NP\\_001163887.1](#)

**RefSeq Size:** 4500 bp

**RefSeq ORF:** 3666 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 (3) differs in the 5' UTR and 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (3) has a distinct N-terminus and is longer than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.