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Product datasheet for SC329259

TJP2 (NM_001170414) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TJP2 (NM_001170414) 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:	>NCBI ORF sequence for NM_001170414, the custom clone sequence may differ by one or more nucleotides

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ATGGAAGAGCTGATATGGGAACAGTACACTGTGACCCTACAAAAGGATTCCAAAAGAGGA
TTTGGAATTGCAGTGTCCGGAGGCAGAGACAACCCCCACTTTGAAAATGGAGAAACGTCA
ATTGTCATTTCTGATGTGCTCCCGGGTGGGCCTGCTGATGGGCTGCTCCAAGAAAATGAC
AGAGTGGTCATGGTCAATGGCACCCCCATGGAGGATGTGCTTCATTCGTTTGCAGTTCAG
CAGCTCAGAAAAAGTGGGAAGGTCGCTGCTATTGTGGTCAAGAGGCCCCGGAAGGTCCAG
GTGGCCGCACTTCAGGCCAGCCCTCCCCTGGATCAGGATGACCGGGCTTTTGAGGTGATG
GACGAGTTTGATGGCAGAAGTTTCCGGAGTGGCTACAGCGAGAGGAGCCGGCTGAACAGC
CATGGGGGGCGCAGCCGCAGCTGGGAGGACAGCCCGGAAAGGGGGCGTCCCCATGAGCGG
GCCCGGAGCCGGGAGCGGGACCTCAGCCGGGACCGGAGCCGTGGCCGGAGCCTGGAGCGG
GGCCTGGACCAAGACCATGCGCGCACCCGAGACCGCAGCCGTGGCCGGAGCCTGGAGCGG
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AGCATTGACCAGGACTACGAGCGAGCCTATCACCGGGCCTACGACCCAGACTACGAGCGG
GCCTACAGCCCGGAGTACAGGCGCGGGGCCCGCCACGATGCCCGCTCTCGGGGACCCCGA
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GGGCCCATCGGGGTCCTCCTGATGAAAAGCAGAGCGAACGAAGAGTATGGTCTCCGGCTT
GGGAGTCAGATCTTCGTAAAGGAAATGACCCGAACGGGTCTGGCAACTAAAGATGGCAAC
CTTCACGAAGGAGACATAATTCTCAAGATCAATGGGACTGTAACTGAGAACATGTCTTTA
ACGGATGCTCGAAAATTGATAGAAAAGTCAAGAGGAAAACTACAGCTAGTGGTGTTGAGA
GACAGCCAGCAGACCCTCATCAACATCCCGTCATTAAATGACAGTGACTCAGAAATAGAA
GATATTTCAGAAATAGAGTCAAACCGATCATTTTCTCCAGAGGAGAGACGTCATCAGTAT
TCTGATTATGATTATCATTCCTCAAGTGAGAAGCTGAAGGAAAGGCCAAGTTCCAGAGAG
GACACGCCGAGCAGATTGTCCAGGATGGGTGCGACACCCACTCCCTTTAAGTCCACAGGG
GATATTGCAGGCACAGTTGTCCCAGAGACCAACAAGGAACCCAGATACCAAGAGGACCCC
CCAGCTCCTCAACCAAAAGCAGCCCCGAGAACTTTTCTTCGTCCTAGTCCTGAAGATGAA
GCAATATATGGCCCTAATACCAAAATGGTAAGGTTCAAGAAGGGAGACAGCGTGGGCCTC
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CGGTTGGCTGGTGGCAATGATGTCGGGATATTTGTTGCTGGCATTCAAGAAGGGACCTCG
GCGGAGCAGGAGGGCCTTCAAGAAGGAGACCAGATTCTGAAGGTGAACACACAGGATTTC
AGAGGATTAGTGCGGGAGGATGCCGTTCTCTACCTGTTAGAAATCCCTAAAGGTGAAATG
GTGACCATTTTAGCTCAGAGCCGAGCCGATGTGTATAGAGACATCCTGGCTTGTGGCAGA
GGGGATTCGTTTTTTATAAGAAGCCACTTTGAATGTGAGAAGGAAACTCCACAGAGCCTG
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AGAGCTGAACAAATGGCCAGTGTTCAAAATGCCCAGAGAGACAACGCTGGGGACCGGGCA
GATTTCTGGAGAATGCGTGGCCAGAGGTCTGGGGTGAAGAAGAACCTGAGGAAAAGTCGG
GAAGACCTCACAGCTGTTGTGTCTGTCAGCACCAAGTTCCCAGCTTATGAGAGGGTTTTG
CTGCGAGAAGCTGGTTTCAAGAGACCTGTGGTCTTATTCGGCCCCATAGCTGATATAGCA
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GAACAGGATAAGCATGCACTACTGGATGTGACTCCGAAAGCTGTGGACCTGTTGAATTAC
ACCCAGTGGTTCCCAATTGTGATTTTTTTCAACCCAGACTCCAGACAAGGTGTCAAAACC
ATGAGACAAAGGTTAAATCCAACGTCCAACAAAAGTTCTCGAAAGTTATTTGATCAAGCC
AACAAGCTTAAAAAAACGTGTGCACACCTTTTTACAGCTACAATCAACCTAAATTCAGCC
AATGATAGCTGGTTTGGCAGCTTAAAGGACACTATTCAGCATCAGCAAGGAGAAGCGGTT
TGGGTCTCTGAAGGAAAGATGGAAGGGATGGATGATGACCCCGAAGACCGCATGTCCTAC
TTAACCGCCATGGGCGCGGACTATCTGAGTTGCGACAGCCGCCTCATCAGTGACTTTGAA
GACACGGACGGTGAAGGAGGCGCCTACACTGACAATGAGCTGGATGAGCCAGCCGAGGAG
CCGCTGGTGTCGTCCATCACCCGCTCCTCGGAGCCGGTGCAGCACGAGGAGATCGAAATT
GCCCAGAAGCATCCTGATATCTATGCAGTTCCAATCAAAACGCACAAGCCAGACCCTGGC
ACGCCCCAGCACACGAGTTCCAGACCCCCTGAGCCACAGAAAGCTCCTTCCAGACCTTAT
CAGGATACCAGAGGAAGTTATGGCAGTGATGCCGAGGAGGAGGAGTACCGCCAGCAGCTG
TCAGAACACTCCAAGCGCGGTTACTATGGCCAGTCTGCCCGATACCGGGACACAGAATTA
TAG

Restriction Sites: Please inquire

ACCN: NM_001170414

Insert Size: 4129 bp

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_001170414.1, NP_001163885.1
RefSeq Size:	4129 bp
RefSeq ORF:	3063 bp
Locus ID:	9414
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 (5) 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 (5) is shorter than 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.