

Product datasheet for **SC338094**

TJP1 (NM_001301026) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TJP1 (NM_001301026) Human Untagged Clone
Tag:	Tag Free
Symbol:	TJP1
Synonyms:	ZO-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001301026, the custom clone sequence may differ by one or more nucleotides

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ATGGAGAGAAATACGTTTTCAATGGATTGCCACAGTAAGAGCACAGCAATGGAGGAAACAGCTATATGGG
AACACATACAGTGACGCTTCACAGGGCTCCTGGATTTGGATTTGGAATTGCAATATCTGGTGGACGAGA
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TGGACTTAGTTTTAACAAAGGAGAGGTGTTCCGTGTTGTGGATACCTTGTACAATGGAAAACCTGGGCTCT
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 CTGTGGAGCTGCGCTTACCACACTGTGCGTCCATGACTCCTGACGGTTGGTCTTTTGTCTAAAAATCATC
 CGACTCCTCGTCGGGTGATCCTAAAACCTGGCAAAACAAGTGTCTTCCCGGAGATCCAAATTATCTCGTT
 GGAGCAAACTGTGTTTCTGTCCTTATTGACCACCTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001301026
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).
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:	<ol style="list-style-type: none">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:	<u>NM_001301026.1</u> , <u>NP_001287955.1</u>
RefSeq Size:	7570 bp
RefSeq ORF:	5079 bp
Locus ID:	7082
Cytogenetics:	15q13.1
Protein Families:	Druggable Genome
Protein Pathways:	Adherens junction, Epithelial cell signaling in Helicobacter pylori infection, Gap junction, Tight junction, Vibrio cholerae infection
Gene Summary:	<p>This gene encodes a member of the membrane-associated guanylate kinase (MAGUK) family of proteins, and acts as a tight junction adaptor protein that also regulates adherens junctions. Tight junctions regulate the movement of ions and macromolecules between endothelial and epithelial cells. The multidomain structure of this scaffold protein, including a postsynaptic density 95/disc-large/zona occludens (PDZ) domain, a Src homology (SH3) domain, a guanylate kinase (GuK) domain and unique (U) motifs all help to co-ordinate binding of transmembrane proteins, cytosolic proteins, and F-actin, which are required for tight junction function. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Aug 2017]</p> <p>Transcript Variant: This variant (4) contains alternate 5' exon structure and it thus differs in the 5' UTR and 5' coding region, and it lacks an alternate in-frame exon in the central coding region and uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. The encoded isoform (d) has a distinct N-terminus and is shorter than isoform a. 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.</p>