

Product datasheet for **SC304103**

Zonula occludens protein 3 (TJP3) (NM_014428) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zonula occludens protein 3 (TJP3) (NM_014428) Human Untagged Clone
Tag:	Tag Free
Symbol:	Zonula occludens protein 3
Synonyms:	ZO-3; ZO3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_014428 edited
 ATGAACCTGTGTGGCCTCATGCCATCTTCCCCGCTCCCCCTCGACCAGGTGGCTGACATG
 GAGGAGCTGACCATCTGGGAACAGCACACGGCCACACTGTCCAAGGACCCCCACCGGGC
 TTTGGCATTGCGATCTCTGGAGGCCGAGACCGGCCGGTGGATCCATGGTTGTATCTGAC
 GTGGTACCTGGAGGGCCGGCGGAGGGCAGGCTACAGACAGGCGACCACATTGTATGGTG
 AACGGGGTTTCCATGGAGAATGCCACCTCCGCGTTTGCATTTCAGATACTCAAGACCTGC
 ACCAAGATGGCCAACATCACAGTGAACGTCCTCCGGAGGATCCACCTGCCCGCCACAAA
 GCCAGCCCTCCAGCCCAGGGCGCCAGGACTCGGATGAAGACGATGGGCCCCAGCGGGTG
 GAGGAGGTGGACCAGGGCCGGGGCTATGACGGGACTCATCCAGTGGCTCCGGCCCTCC
 TGGGACGAGCGCTCCCGCCGGCCGAGGCCTGGTCGCCGGGGCCGGCCGGCAGCCATGGG
 CGTAGGAGCCCAGGTGGTGGCTCTGAGGCCAACGGGTGGCCCTGGTGTCCGGCTTAAAG
 CGGCTGCCACGGCAGGACGTGCAGATGAAGCCTGTGAAGTCAGTGTGGTGAAGAGGAGA
 GACAGCGAAGAGTTTGGCGTCAAGCTGGGCAGTCAGATCTTCATCAAGCACATTACAGAT
 TCAGGCCTGGCTCCCGGCACCGTGGGCTGCAGGAAGGAGATCTCATTCTACAGATCAAC
 GGGGTGTCTAGCCAGAACCTGTCACTGAACGACACCCGGCGACTGATTGAGAAGTCAGAA
 GGGAAAGCTAAGCCTGCTGGTGTGAGAGATCGTGGGCAGTTTCTGGTGAACATCCCGCT
 GCTGTCAAGTACAGCGACAGCTCGCCATTGGAGGAAGGCGTGACCATGGCTGATGAGATG
 TCCTCTCCCCCTGCAGACATCTCGGACCTCGCCTCGGAGCTATCGCAGGCACCACCATCC
 CACATCCCACCACCACCCCGGCATGCTCAGCGGAGCCCCGAGGCCAGCCAGACCGACTCT
 CCCGTGGAGAGTCCCGGCTTCGGCGGGAAAGTTTCAGTAGATTCCAGAACCATCTCGGAA
 CCAGATGAGCAACGGTCAGAGTTGCCAGGAAAGCAGCTATGACATCTACAGAGTGCC
 AGCAGTCAGAGCATGGAGGATCGTGGGTACAGCCCCGACACCGGTGTGGTCCGCTTCTC
 AAGGGCAAGAGCATCGGGCTGCGGCTGGCAGGGGCAATGACGTGGGCATCTTCGTGTCC
 GGGGTGCAGGCGGCAGCCCGGCCGACGGCAGGGCATCCAGGAGGAGATCAGATTCTG
 CAGGTGAATGACGTGCCATTCCAGAACCCTGACACGGGAGGAGGCAGTGCAGTTCTGCTG
 GGGCTGCCACCAGGCGAGGAGATGGAGCTGGTGACGCAGCGGAAGCAGGACATTTTCTGG
 AAAATGGTGCAGTCCCGCTGGGTGACTCCTTCTACATCCGCACTCACTTTGAGCTGGAG
 CCCAGTCCGCGTCTGGCTGGGCTTACCCGTGGCGACGTCTTCCACGTGCTGGACACG
 CTGACCCCGGCCCGGGCAGAGCCACGCACGAGGAGGCCACTGGCTGGCGGTGCGCATG
 GGTGCTGACCTGCGGGAGCAAGAGCGGGGCATCATTCCCAACCAGAGCAGGGCGGAGCAG
 CTGGCCAGCCTGGAAGCTGCCAGAGGGCCGTGGGAGTGGGCCCGGCTCCTCCGCGGGC
 TCCAATGCTCGGGCCGAGTTCTGGCGGCTGCGGGGTCTGCGTCCAGGAGCCAAGAAGACC
 ACTCAGCGGAGCCGTGAGGACCTCTCAGCTCTGACCCGACAGGGCCGCTACCCGCCCTAC
 GAACGAGTGGTGTGCGAGAAGCCAGTTTCAAGCGCCCGGTAGTGATCCTGGGACCCGTG
 GCCGACATTGCTATGCAGAAGTTGACTGCTGAGATGCCTGACCAGTTTGAATCGCAGAG
 ACTGTGTCAGGACCCGACAGCCCTCCAAGATCATCAAAGTAGACACCGTGCAGGTTGATT
 GCAGAAAAAGACAAGCATGCGCTCCTGGATGTGACCCCTCCGCCATCGAGCGCTCAAC
 TATGTGACAGTACTACCCATTGTGGTCTTCTTCATCCCCGAGAGCCGGCCGGCCCTCAAG
 GCACTGCGCCAGTGGCTGGCGCCTGCCTCCCGCCGACGACCCGTGCGCTCTACGCACAA
 GCCCAGAAGCTGCGAAAACACAGCAGCCACCTTTCACAGCCACCATCCCTCTGAATGGC
 ACGAGTGACACCTGGTACCAGGAGCTCAAGGCCATCATTCCAGAGCAGCAGACGCGGCC
 ATCTGGACGCGGAAGATCAGCTGGATGGCTCCTTGGAGGACAACCTAGACCTCCCTCAC
 CACGGCTGGCCGACAGCTCCGCTGACCTCAGCTGCGACAGCCGCTAACAGCGACTAC
 GAGACGGACGGCAGGGCGGCGGTACACGGATGGCGAGGGCTACACAGACGGCAGGGG
 GGGCCCTACACGGATGTGGATGATGAGCCCCGGCTCCAGCCCTGGCCCGTCTCCGGAG
 CCCGTGCAGGCAGATGAGTCCCAGAGCCCGAGGGATCGTGGGAGAATCTCGGCTCATCAG
 GGGGCCAGGTGGACAGCCGCCACCCAGGGACAGTGGCGACAGGACAGCATGCGAACC
 TATGAACGGGAAGCCCTGAAGAAAAAGTTTACGCGAGTCCATGATGCGGAGTCTCCGAT
 GAAGACGGCTATGACTGGGGTCCGGCCACTGACCTGTGA

Restriction Sites: Please inquire

ACCN:	NM_014428
Insert Size:	2900 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:	The ORF of this clone has been fully sequenced and found to contain 3 SNPs compared with NM_014428.1.
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_014428.1</u> , <u>NP_055243.1</u>
RefSeq Size:	2859 bp
RefSeq ORF:	2859 bp
Locus ID:	27134
Cytogenetics:	19p13.3
Protein Pathways:	Tight junction
Gene Summary:	The protein encoded by this gene is a member of the membrane-associated guanylate kinase-like (MAGUK) protein family which is characterized by members having multiple PDZ domains, a single SH3 domain, and a single guanylate kinase-like (GUK)-domain. In addition, members of the zonula occludens protein subfamily have an acidic domain, a basic arginine-rich region, and a proline-rich domain. The protein encoded by this gene plays a role in the linkage between the actin cytoskeleton and tight-junctions and also sequesters cyclin D1 at tight junctions during mitosis. Alternative splicing results in multiple transcript variants encoding distinct isoforms. This gene has a partial pseudogene on chromosome 1. [provided by RefSeq, May 2012]