

## Product datasheet for **SC112772**

### **TJAP1 (NM\_080604) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TJAP1 (NM_080604) Human Untagged Clone
Tag:	Tag Free
Symbol:	TJAP1
Synonyms:	PILT; TJP4
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC112772 sequence for NM\_080604 edited (data generated by NextGen Sequencing)

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ATGACTAGTGCCGCCCTGCTAAGAAACCCTACCGTAAGGCACCACCAGAGCATCGGGAG
CTGCGTTTGAAATTCCTGGATCCCGGCTTGAGCAGGAGGAACCCCTGACTGATGCAGAA
AGGATGAAGCTCTTACAGGAGGAGAATGAAGAGCTTCGCCGGCGCCTGGCCTCCGCCACC
AGAGCCTGAGGCCCTGGAACGTGAGCTGGAATTTGGCAGGACTGCCTGGAGCTGAGAAC
CTGGGCCAGAGCCGCGAGGAGCTGGACAAATTTAAGGATAAGTTCCGCAGGCTGCAGAAC
AGCTACACGGCTTCCCAGCGGACCAACCAGGAGTTGGAGGACAAGCTGCACACACTGATC
AAGAAGGCTGAGATGGATAGGAAGACGCTGGACTGGGAGATTGTGGAGCTGACCAACAAG
CTGCTGGATGCCAAGAACACCATCAACAAGCTGGAAGAGCTCAATGAGCGGTACCGGCTG
GACTGCAACCTGGCTGTACAGCTCCTCAAGTGAACAAGTCCCACTTCCGAAACCACAAG
TTTGCCGATCTGCCCTGTGAGCTACAGGACATGGTTTCGAAACATTTGCACAGTGGTCAA
GAGGCCGACGCCAGGTCTGCTCCAGCCTAGCCCCAGGGGCTGTGGTGCCTACCTCA
GTCATTGCCCGAGTGTTAGAGAAGCCGGAGTCTCTACTGCTCAATTCAGCCCAGTCAGGC
AGCGCCGGGCGCCCTTGGCTGAGGATGCTTTTGTGCATGTGGACATGAGTGAGGGTGTG
CCAGGTGATCCAGCCAGTCCCCCGGCCCTGGCAGCCCCACCCACAACCCAATGGGGAG
TGCCACTCTCTGGTACTGCCAGGGCTCCCCGGAGGAAGAGCTGCCCTGCCAGCCTTT
GAGAAGCTGAACCCCTACCCAACCCGCTCCACCACACCCACTGTATCCTGGCCGAGG
GTAATAGAGTTCTCTGAGGATAAGGTTCCGGATCCCCCGCAACAGCCCCCTGCCAACTGC
ACTTACGTACCCGCCAGGCCATTTCCCTGAGCCTGGTAGAGGAGGGGAGTGAGCGGGCC
CGCCCCAGCCAGTGCCAGCACCCCTGCCTCAGCCCAGGCCCTCACCCACCACCAGCCC
AGCCCAGCACCCCTAACACTCAGTGCCCCAGCTAGCTCTGCCAGCTCTGAAGAGGACCTG
CTGGTCAGCTGGCAGCGGCATTTGTGGACCGTACTCCACCACCTGCTGCTGTGGCCGAC
CGCACAGCCTTTGGACGGATGCCCTCCCTGAGCTGCAGCGCCATTTTGCATAGCCCC
GCTGACAGAGATGAGGTGGTCCAGGCACCTTCTGCCCGACCCGAAGAGAGTGAGTTTTG
CTACCCACAGAACCTGACTCTGGCTTTCCAGGGAGGAAGAAGAGCTGAACCTGCCTATC
AGTCTGAGGAAGAGCGCCAGAGCTGCTGCCATTAACAGGGGCACAGAGGAGGGGCCA
GGCACTTCCACACCGAGGGCAGGGCCTGGCCACTCCCCAGCTCCAGTCGCCCCAGCGC
AGCCCCAAGAGGATGGGGTTTACCACCTGCACCGCAAGGACAGCCTGACCCAGGCCAG
GAGCAGGGCAACCTGCTCAACTAG
    
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Clone variation with respect to NM\_080604.2

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_080604 unedited
NGTCGGAATTTGTATACGACTCCTATAGGGCGGCCGGAATTCGCACGAGGCCGCGGCAA
GAGGCGGCCTGAACGCAGCTGGCAGCGGCGGAAAGCTTAGATCAGCCTTTCCACAGCTGT
TAGCAGCATCTGCCCAAATTTTCAGCTGAAGATTACAGGTGCCCCAGGGACTGGAAGAAAT
ACAGTGCCTACTTGGAAAGAAGAAGAGATAGCGACTTGCCCCAGTCCAACCCAGAGCGG
GTACCTGCTGCTACTGACTCCTGAATTCATTCTCGCTGTGTGTCTACTTTTGTCTTTTTG
GAGCTGTGGCTAAAGGAAGTGGAGGGGCGTGGGATGCGGAGAGCCGAGGGCTAACTCCC
GGACAGCGGAACAGAGAGAGCTGCCGACAAACAGACGGCGGAGGAGCCGTACCTCCCAG
AATGACTAGTGCCGCCCTGCTAAGAAACCCTACCGTAAGGCACCACCAGAGCATCGGGA
GCTGCGTTTGAAATTCCTGGATCCCGGCTTGAGCAGGAGGAACCCCTGACTGATGCAGA
AAGGATGAAGCTCTTACAGGAGGAGAATGAAGAGCTTCTCCGGCGCCTGGCCTCCGCCAC
CAGACGCACTGAGGCCCTGGAACGTGAGCTGGAATTTGNGCAGGACTGCCTGGAGCTGGA
GCTGNGCCAGAGCCGCGAGGAGCTGGACANATTTAAGGATAAGTTCCGCAGGCTGCAGAA
CAGCTACACGGCTTCCCAGCGGACCAACCAGGAGTTGGAGGACAAGCTGCACACACTGAT
CAAGAAGGCTGAGATGGATAGGAAGACGCTGGACTGGNGAGATGTGGAGCTGACCAACAA
GCTGCTGGATGCCAGAACACCATCAACAAGCTGGGAGAGCTCAATGAGCGGTACCGGCTG
GNACTGCACCTGNCT
    
```

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_080604 unedited CTATGCCCGCGGCCGCAATCTAGAGTTCGAGTTTTTTTTTTTTTTTTTTTACCAGTAAAATA GTTTTATTTGATTTTAAAATAGTCATCAATGTGAAAATTTCTCAAAGCTTAAGAGTAACA GTCTAGAGCCAAGGTTGGGAGTGGGGGCCAGGCCTCACACAGAGCCCAGCTTGAGGCCCC TGAGCCCCACCCTCCTTTCCAGAGGGAGGGAGGACAGCTGAGGGGGCCCTGAATCAGT CCTCTCCCTCGTCCCCAAGGCCAGCTGTGCCAGGCCCTGGAGGGCAACAGCTCATGCCG AGGACTGGGGGGGAAGCAAACAGGTAGGAAACGAAAATGAGGTTAACAATTACACCATC ACCCCCAAAAAAAAAAATAACAAAACCTTGACTATGAAAGGATGGAAGATGAATAC TGATAAACTCCTCAGCTCCCCAGAAAAGCCAGTCTGGGCTGGGTGGGCTGATTGGAGG AAAGGTCTTGAGACCCAACCTGCATGTTACCTCTGAAGAATAAATATTCTAAGAAAAAGGG AAAACCATGAGGCAAGCTGCTGCAGTCAGTCAACGCAGCTGACAGGCCTGGCATGGCCCA CAACCTGACCCCATCCACACAGGAAACAGCTGTGCGGGTCTGGATAGAGGAGAGGTCAAG GGCTTGACTGGGACCCCTGAGCTGCCAAGGTGTGGGACTCCTTGCAGTCTGGTGCAG CAATGGCAGGAAGCCAGCAGGNGCCCTAGTTGAGCAGGTTGCCCTGCTCTGGGCCCTG GTCAGGCTGTCTTGCNGTGCANGTGGTGAACCCCATCTCTTNGGGCTGNCTGGGGCA CGTNNNNNNNAAAAAAAAAAAGGNNNNNNNNNNNNNNNAANNNAAAAAAAAANNNAAAAAA AAAANNNAAANNNNAAAAAAAAAANAAAAAAAAANNAANNNNAANNNNAANNAAGAAANN NNANNNNNNAANNAANNAANNNNAANNNNA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_080604
<b>Insert Size:</b>	2940 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_080604.1</a></u> , <u><a href="#">NP_542171.1</a></u>
<b>RefSeq Size:</b>	2720 bp
<b>RefSeq ORF:</b>	1644 bp
<b>Locus ID:</b>	93643
<b>UniProt ID:</b>	<u><a href="#">Q5JTD0</a></u>
<b>Cytogenetics:</b>	6p21.1
<b>Protein Pathways:</b>	Tight junction

**Gene Summary:**

This gene encodes a tight junction-associated protein. Incorporation of the encoded protein into tight junctions occurs at a late stage of formation of the junctions. The encoded protein localizes to the Golgi and may function in vesicle trafficking. Alternatively spliced transcript variants have been described. A related pseudogene exists on the X chromosome. [provided by RefSeq, Mar 2009]

Transcript Variant: This variant (4) differs in the 5' UTR and lacks an in-frame portion of the 5' coding region, compared to variant 1. The resulting isoform (b) is shorter than isoform a. Variants 3-6, 16, and 17 all encode the same isoform (b).