

## Product datasheet for **RC228959**

### **TJAP1 (NM\_001146017) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TJAP1 (NM_001146017) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TJAP1
Synonyms:	PILT; TJP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC228959 representing NM\_001146017  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACTAGTGCCGCCCTGCTAAGAAACCTACCGTAAGGCACCACCAGAGCATCGGGAGCTGCGTTTGG  
 AAATTCCTGGATCCCGCTTGAGCAGGAGGAACCCCTGACTGATGCAGAAAGGATGAAGCTTTACAGGA  
 GGAGAATGAAGAGCTTCGCCGGCCTGGCCTCCGCCACCAGACGCACTGAGGCCCTGGAACGTGAGCTG  
 GAAATTGGGCAGGACTGCCTGGAGCTGGAGCTGGGCCAGAGCCGCGAGGAGCTGGACAAATTTAAGGATA  
 AGTTCCGAGGCTGCAGAACAGCTACACGGCTTCCAGCGGACCAACCAGGAGTTGGAGGACAAGCTGCA  
 CACTGGCTCTCTTAGCCACAGCTGGATTTTGAATCAAGAAGGCTGAGATGGATAGGAAGACGCTG  
 GACTGGGAGATTGTGGAGCTGACCAACAAGCTGCTGGATGCCAAGAACCACCAACAAGCTGGAAGAGC  
 TCAATGAGCGGTACCGGCTGGACTGCAACCTGGCTGTACAGCTCCTCAAGTGAACAAGTCCCCTCCG  
 AAACCACAAGTTGCCGATCTGCCCTGTGAGCTACAGGACATGGTTCGGAACATTTGCACAGTGGTCAA  
 GAGGCCGCCAGCCAGGTCTGCTCCAGCCTAGCCCCAGGGGCTGTGGTGCCTACCTCAGTCATTGCC  
 GAGTGTTAGAGAAGCCGAGTCTCTACTGCTCAATTCAGCCCAGTCAGGCAGCGCCGGGCCCCCTTGGC  
 TGAGGATGCTTTGTGCATGTGGACATGAGTGAGGGTGTCCAGGTGATCCAGCCAGTCCCCCGGCCCT  
 GGCAGCCCCACCCACAACCCAAATGGGGAGTGCCACTCTCTGGTACTGCCAGGGGCTCCCCGGAGGAAG  
 AGCTGCCCTGCCAGCCTTTGAGAAGCTGAACCCCTACCAACCCCGTCTCCACCACCCCACTGTATCC  
 TGGCCGAGGGTAATAGAGTTCTCTGAGGATAAGGTTCCGATCCCCGCAACAGCCCCCTGCCAACTGC  
 ACTTACGCTACCCGCCAGGCCATTTCCCTGAGCCTGGTAGAGGAGGGGAGTGAGCGGGCCCGCCCCAGCC  
 CAGTGCCACAGCCCTGCCTCAGCCAGGCCTCACCCACCAGCCAGCCAGCCAGCCCAACTAACACT  
 CAGTGCCCCAGCTAGCTCTGCCAGCTCTGAAGAGGACCTGCTGGTCAAGTGGCAGCGGGGCAATTTGGAC  
 CGTACTCCACCACCTGCTGCTGTGGCCAGCGCACAGCCTTTGGACGCGATGCCCTCCCTGAGCTGCAGC  
 GCCATTTTGCCATAGCCCCGCTGACAGAGATGAGGTGGTCCAGGCACCTTCTGCCCGACCCGAAGAGAG  
 TGAGCTTTTGTACCCACAGAACCTGACTCTGGCTTTCCAGGGAGGAAGAAGAGCTGAACCTGCCTATC  
 AGTCTGAGGAAGAGCGCCAGAGCCTGCTGCCATTAACAGGGGCACAGAGGAGGGGCCAGGCATTCCC  
 ACACCGAGGGCAGGGCCTGGCCACTCCCAGCTCCAGTCGCCCCAGCGCAGCCCAAGAGGATGGGGT  
 TCACCACCTGCACCGCAAGGACAGCCTGACCCAGGCCAGGAGCAGGGCAACCTGCTCAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC228959 representing NM\_001146017  
 Red=Cloning site Green=Tags(s)

MTSAAPAKKPYRKAPPEHRELRLLEIPGSRLEQEEPLTDAERMKLLQEENEELRRRLASATRRTEALERE  
 EIGQDCLELELQGSREELDKFKDKFRRLQNSYASQRTNQELEDKHLTLASLSHWIFAIKKAEMDRKTL  
 DWEIVELTNKLLDAKNTINKLEELNERYRLDCNLAVQLLKNKSHFRNHKFADLPCELQDMVRKHLHSGQ  
 EAASPGPAPSLAPGAVVPTSVIARVLEKPESELLNSAQSGSAGRPLAEDVFVHVDMSEGVPGDPASPAP  
 GSPTPQPNGECHSLGTARGSPPEELPLPAFEKLNYPYTPSPHPLYPGRRVIEFSEDKVRIPRNSPLPNC  
 TYATRQAIISLSLVEEGSERARSPVPSTPASAQASPHHQSPAPLTLAPASSASSEEDLLVSWQRAFVD  
 RTPPPAAVAQRTAFGRDALPELQRHFAHSPADRDEVVQAPSARPEESELLLPTEPDSGFPREEEELNLP  
 SPEERQSLLPINRGTEEGPGTSHTEGRAWPLPSSSRPQRSPKRMGVHHLHRKDSLTAQAEQGNLLN

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja3253\\_h02.zip](https://cdn.origene.com/chromatograms/ja3253_h02.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001146017

**ORF Size:** 1671 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001146017.1](#), [NP\\_001139489.1](#)

**RefSeq Size:** 2726 bp

**RefSeq ORF:** 1674 bp

**Locus ID:** 93643

**UniProt ID:** [Q5JTD0](#)

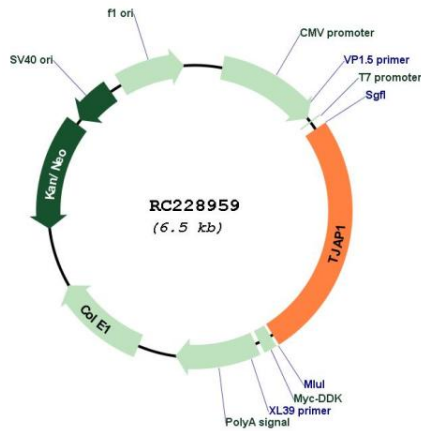
**Cytogenetics:** 6p21.1

**Protein Pathways:** Tight junction

**MW:** 61.8 kDa

**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]

**Product images:**



Circular map for RC228959