

## Product datasheet for **RC228954**

### **TJAP1 (NM\_001146018) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TJAP1 (NM_001146018) 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)



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**ORF Nucleotide Sequence:**

>RC228954 representing NM\_001146018  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACTAGTGCCGCCCTGCTAAGAAACCTACCCTAAGGCACCACCAGAGCATCGGGAGCTGCGTTTGG  
 AAATTCCTGGATCCCGGCTTGGCAGGAGGAACCCCTGACTGATGCAGAAAGGATGAAGCTTTACAGGA  
 GGAGAATGAAGAGCTTCGCCGGCCTGGCCTCCGCCACCAGACGCACTGAGGCCCTGGAACGTGAGCTG  
 GAAATTGGGCAGGACTGCCTGGAGCTGGAGCTGGGCCAGAGCCGCGAGGAGCTGGACAAATTTAAGGATA  
 AGTTCCGAGGCTGCAGAACAGCTACACGGCTTCCAGCGGACCAACCAGGAGTTGGAGGACAAGCTGCA  
 CACTGATCAAGAAGGCTGAGATGGATAGGAAGACGCTGGACTGGGAGATTGTGGAGCTGACCAACAAG  
 CTGCTGGATGCCAAGAACCATCAACAAGCTGGAAGAGCTCAATGAGCGGTACCGGCTGGACTGCAACC  
 TGGCTGTACAGCTCCTCAAGTCAACAAGTCCCACTTCCGAAACCACAAGTTTCCGATCTGCCCTGTGA  
 GCTACAGGACATGGTTTCGAAACATTTGCACAGTGGTCAAGAGGCCGCCAGCCAGTCTGCTCCCAGC  
 CTAGCCCCAGGGCTGTGGTGCCTACCTCAGTCATTGCCCGAGTGTAGAGAAGCCGGAGTCTACTGC  
 TCAATTACGCCAGCTCAGGCAGCGCCGGCGCCCTTGGCTGAGGATGTCTTTGTGCATGTGGACATGAG  
 TGAGGGTGTCCCAGGTGATCCAGCCAGTCCCCGGCCCCCTGGCAGCCCCACCCACAACCAATGGGGAG  
 TGCCACTCTCTGGTACTGCCAGGGCTCCCCGGAGGAAGAGCTGCCCTGCCAGCCTTTGAGAAGCTGA  
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 TAAGTTTCGGATCCCCGCAACAGCCCCCTGCCAACTGCACTTACGCTACCCGCCAGGCCATTTCCCTG  
 AGCTGGTAGAGGAGGGGAGTGAAGGGGCCGCCAGCCAGTCCCAAGCACCCTGCCAGCCAGG  
 CCTCACCCACCAGCCAGCCAGCCAGCCCTAACACTCAGTGCCCCAGCTAGCTCTGCCAGCTCTGA  
 AGAGGACCTGCTGGTCACTGGCAGCGGCATTTGTGGACCGTACTCCACCACCTGCTGCTGTGGCCAG  
 CGCACAGCCTTTGGACGCGATGCCCTCCCTGAGCTGCAGCGCCATTTTGGCCATAGCCCCGCTGACAGAG  
 ATGAGGTGGTCCAGGCACCTTCTGCCGACCCGAAGAGAGTGAAGCTTTTGTACCCACAGAACCTGACTC  
 TGGCTTTCCAGGGAGGAAGAAGAGCTGAACCTGCCTATCAGTCTGAGGAAGAGCGCCAGAGCCTGCTG  
 CCCATTAACAGGGGCACAGAGGAGGGGCCAGGCACTTCCACACCCAGGGCAGGGCTGGCCACTCCCCA  
 GCTCCAGTCGCCCCAGCGCAGCCCAAGAGGATGGGGTTTACCACCTGCACCGCAAGGACAGCCTGAC  
 CCAGGCCAGGAGCAGGGCAACCTGCTCAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

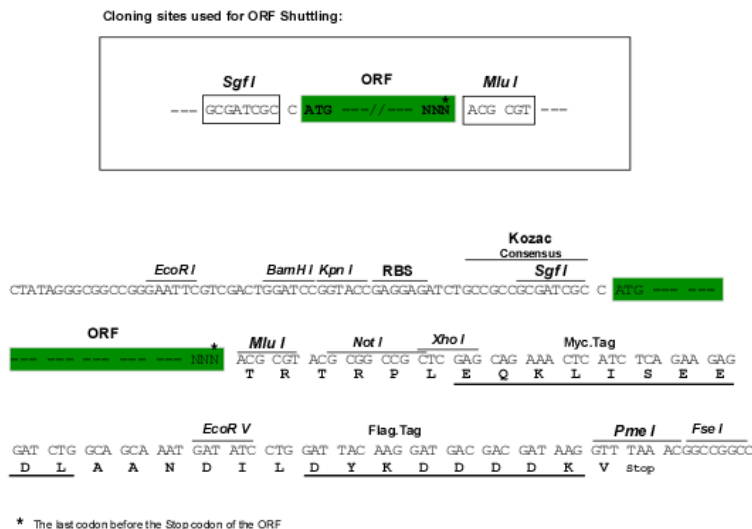
>RC228954 representing NM\_001146018  
 Red=Cloning site Green=Tags(s)

MTSAAPAKKPYRKAPPEHRELRLLEIPGSRLEQEEPLTDAERMKLLQEENEELRRRLASATRRTEALEREL  
 EIQDCLLELELQGSREELDKFKDKFRRLQNSYASQRTNQLEDKLHTLIKKAEMDRKTLDWEIVELTNK  
 LLDKNTINKLEELNERYRLDCNLAVQLKCNKSHFRNHKFADLPCELQDMVRKHLHSGQEAAASPGPAPS  
 LAPGAVVPTSVIARVLEKPELLLLNSAQSGSAGRPLAEDVFVHVDMSEGVPGDPASPPAPGSPTQPNGE  
 CHSLGTARGSPPEELPLPAFEKLNPYPTSPPHPLYPGRRVIEFSEDKVRIPRNSPLPNCTYATRQAI  
 SLVEEGSERARSPVPSTPASAQASPHHQSPAPLTLAPASSASSEEDLLVSWQRAFVDRTPPPAAVAQ  
 RTAFGRDALPELQRHFAHSPADRDEVVQAPSARPEESELLLPTEPDSGFPREEEELNLPISPEEERQSL  
 PINRGTEEGPGTSHTEGRAWPLPSSSRPQRSKRMGVHHLHRKDSLTAQAEQGNLLN

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001146018

**ORF Size:** 1641 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\\_001146018.1](#), [NP\\_001139490.1](#)

**RefSeq ORF:** 1644 bp

**Locus ID:** 93643

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

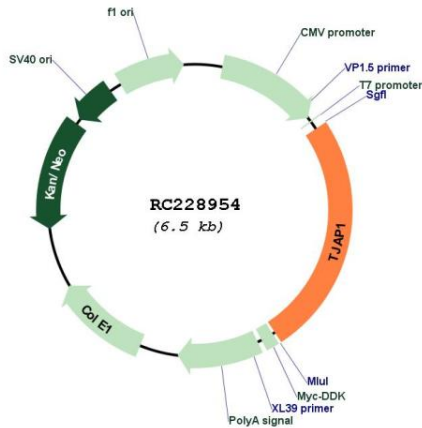
**Cytogenetics:** 6p21.1

**Protein Pathways:** Tight junction

**MW:** 60.5 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 RC228954