

## Product datasheet for **RG228955**

### **TJAP1 (NM\_001146019) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TJAP1 (NM_001146019) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TJAP1
Synonyms:	PILT; TJP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG228955 representing NM\_001146019  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGACTAGTGCCGCCCTGCTAAGAAACCTACCCTAAGGCACCACCAGAGCATCGGGAGCTGCGTTTGG  
 AAATTCCTGGATCCCGGCTTGGCAGGAGGAACCCCTGACTGATGCAGAAAGGATGAAGCTTTACAGGA  
 GGAGAATGAAGAGCTTCGCCGGCCTGGCCTCCGCCACCAGACGCACTGAGGCCCTGGAACGTGAGCTG  
 GAAATTGGGCAGGACTGCCTGGAGCTGGAGCTGGGCCAGAGCCGCGAGGAGCTGGACAAATTTAAGGATA  
 AGTTCCGAGGCTGCAGAACAGCTACACGGCTTCCAGCGGACCAACCAGGAGTTGGAGGACAAGCTGCA  
 CACTGATCAAGAAGGCTGAGATGGATAGGAAGACGCTGGACTGGGAGATTGTGGAGCTGACCAACAAG  
 CTGCTGGATGCCAAGAACCATCAACAAGCTGGAAGAGCTCAATGAGCGGTACCGGCTGGACTGCAACC  
 TGGCTGTACAGCTCCTCAAGTCAACAAGTCCACTTCCGAAACCACAAGTTTCCCGATCTGCCCTGTGA  
 GCTACAGGACATGGTTTCGAAACATTTGCACAGTGGTCAAGAGGCCGCCAGCCAGCTCTGCTCCAGC  
 CTAGCCCCAGGGCTGTGGTGCCTACCTCAGTCATTGCCCGAGTGTTAGAGAAGCCGGAGTCTCTACTGC  
 TCAATTACGCCAGCTCAGGCAGCGCCGGCGCCCTTGGCTGAGGATGTCTTTGTGCATGTGGACATGAG  
 TGAGGGTGTCCCAGGTGATCCAGCCAGTCCCCGGCCCCCTGGCAGCCCCACCCACAACCAATGGGGAG  
 TGCCACTCTCTGGTACTGCCAGGGCTCCCCGGAGGAAGAGCTGCCCTGCCAGCCTTTGAGAAGCTGA  
 ACCCTACCAACCCCGTCTCCACCACACCCACTGTATCTGGCCGAGGGTAATAGAGTTCTCTGAGGA  
 TAAGTTTCGGATCCCCGCAACAGCCCCCTGCCAACTGCACTTACGCTACCCGCCAGGCCATTTCCCTG  
 AGCCTGGTAGAGGAGGGGAGTGAGCGGGCCCCAGCCAGTCCAGCACCCCTGCCAGCCAGGCTGTA  
 CCTACCCACCACCAGCCAGCCAGCCAGCCCTAACACTCAGTGCCCCAGCTAGCTCTGCCAGCTCTGA  
 AGAGGACCTGCTGGTCACTGGCAGCGGGCATTGTGGACCGTACTCCACCACCTGCTGTGTGGCCAG  
 CGCACAGCCTTTGGACGCGATGCCCTCCCTGAGCTGCAGCGCCATTTTGGCCATAGCCCCGCTGACAGAG  
 ATGAGGTGGTCCAGGCACCTTCTGCCGACCCGAAGAGAGTGGCTTTTGTACCCACAGAACCTGACTC  
 TGGCTTTCCAGGGAGGAAGAAGAGCTGAACCTGCCTATCAGTCTGAGGAAGAGCGCCAGAGCCTGCTG  
 CCCATTAACAGGGGCACAGAGGAGGGGCCAGGCACTTCCACACCCAGGGCAGGGCTGGCCACTCCCCA  
 GCTCCAGTCGCCCCAGCGCAGCCCCAAGAGGATGGGGTTTACCACCTGCACCCGAAGGACAGCCTGAC  
 CCAGGCCAGGAGCAGGGCAACCTGCTCAAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG228955 representing NM\_001146019  
 Red=Cloning site Green=Tags(s)

MTSAAPAKKPYRKAPPEHRELRLLEIPGSRLEQEEPLTDAERMKLLQEENEELRRRLASATRRTEALEREL  
 EIGQDCLLELELQGSREELDKFKDKFRRLQNSYASQRTNQELEDKHLHLIKKAEMDRKTLDWEIVELTNK  
 LLDANKNTINKLEELNERYRLDCNLAVQLLCKNKSHFRNHKFAADLPCELQDMVRKHLHSGQEAAASPGPAPS  
 LAPGAVVPTSVIARVLEKPESELLNSAQSGSAGRPLAEDVFVHVDMSEGVPGDPASPPAPGSPTQPNGE  
 CHSLGTARGSPPEELPLPAFEKLNYPPTSPPHPLYPGRRVIEFSEDKVRIPRNSPLPNCTYATRQAIISL  
 SLVEEGSERARSPVPSTPASAQASPHHQSPAPLTLAPASSASSEEDLLVSWQRAFVDRTPPPAAVAQ  
 RTAFGRDALPELQRHFAHSPADRDEVVQAPSARPEESELLLPTEPDSGFPREEEELNLPISPEEERQSL  
 PINRGTEEGPGTSHTEGRAWPLPSSSRPQRSKRMGVHHLHRKDSLTAQAEQGNLLN

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

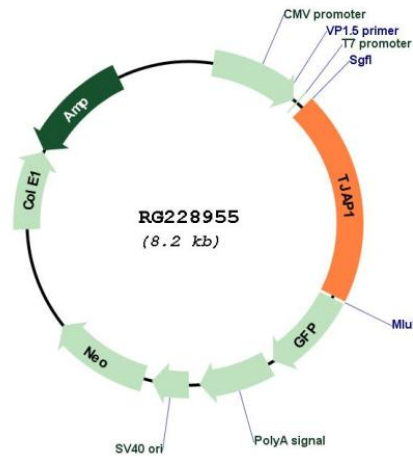
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



<b>ACCN:</b>	NM_001146019
<b>ORF Size:</b>	1641 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001146019.2</a>
<b>RefSeq Size:</b>	2731 bp
<b>RefSeq ORF:</b>	1644 bp
<b>Locus ID:</b>	93643
<b>UniProt ID:</b>	<a href="#">Q5JTD0</a>
<b>Cytogenetics:</b>	6p21.1
<b>Protein Pathways:</b>	Tight junction
<b>Gene Summary:</b>	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]