

Product datasheet for **RG228954**

TJAP1 (NM_001146018) Human Tagged ORF Clone

Product data:

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

>RG228954 representing NM_001146018
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACTAGTGCCGCCCTGCTAAGAAACCTACCGTAAGGCACCACCAGAGCATCGGGAGCTGCGTTTGG
 AAATTCCTGGATCCCGGCTTGAGCAGGAGGAACCCCTGACTGATGCAGAAAGGATGAAGCTTTACAGGA
 GGAGAATGAAGAGCTTCGCCGGCCTGGCCTCCGCCACCAGACGCACTGAGGCCCTGGAACGTGAGCTG
 GAAATTGGGCAGGACTGCCTGGAGCTGGAGCTGGGCCAGAGCCGCGAGGAGCTGGACAAATTTAAGGATA
 AGTTCCGAGGCTGCAGAACAGCTACACGGCTTCCAGCGGACCAACCAGGAGTTGGAGGACAAGCTGCA
 CACTGATCAAGAAGGCTGAGATGGATAGGAAGACGCTGGACTGGGAGATTGTGGAGCTGACCAACAAG
 CTGCTGGATGCCAAGAACCATCAACAAGCTGGAAGAGCTCAATGAGCGGTACCGGCTGGACTGCAACC
 TGGCTGTACAGCTCCTCAAGTCAACAAGTCCCACTTCCGAAACCACAAGTTTCCCGATCTGCCCTGTGA
 GCTACAGGACATGGTTTCGAAACATTTGCACAGTGGTCAAGAGGCCGCCAGCCAGCTCCTGCTCCAGC
 CTAGCCCCAGGGCTGTGGTGCCTACCTCAGTCATTGCCCGAGTGTTAGAGAAGCCGGAGTCTCTACTGC
 TCAATTACGCCAGCTCAGGCAGCGCCGGCGCCCTTGGCTGAGGATGTCTTTGTGCATGTGGACATGAG
 TGAGGGTGTCCCAGGTGATCCAGCCAGTCCCCGGCCCCGTCAGCCCCACCAACCAATGGGGAG
 TGCCACTCTCTGGTACTGCCAGGGCTCCCCGGAGGAAGAGCTGCCCTGCCAGCCTTTGAGAAGCTGA
 ACCCTACCAACCCCTCTCCACCACACCCACTGTATCTGGCCGAGGGTAATAGAGTTCTCTGAGGA
 TAAGTTTCGGATCCCCGCAACAGCCCCCTGCCAACTGCACTTACGCTACCCGCCAGGCCATTTCCCTG
 AGCCTGGTAGAGGAGGGGAGTGAGCGGGCCGCCAGCCAGTCCACAGCACCCTGCCAGCCAGGCTGTA
 CCTACCCACCACCAGCCAGCCAGCCAGCCCTAACACTCAGTCCCCAGCTAGCTCTGCCAGCTCTGA
 AGAGGACCTGCTGGTCACTGGCAGCGGGCATTGTGGACCGTACTCCACCACCTGCTGCTGTGGCCAG
 CGCACAGCCTTTGGACGCGATGCCCTCCCTGAGCTGCAGCGCCATTTTGGCCATAGCCCCGCTGACAGAG
 ATGAGGTGGTCCAGGCACCTTCTGCCGACCCGAAGAGAGTGGCTTTTGTACCCACAGAACCTGACTC
 TGGCTTTCCAGGGAGGAAGAAGAGCTGAACCTGCCTATCAGTCTGAGGAAGAGCGCCAGAGCCTGCTG
 CCCATTAACAGGGGCACAGAGGAGGGGCCAGGCACTTCCACACCCAGGGCAGGGCTGGCCACTCCCCA
 GCTCCAGTCGCCCCAGCGCAGCCCAAGAGGATGGGGTTTACCACCTGCACCCGAAGGACAGCCTGAC
 CCAGGCCAGGAGCAGGGCAACCTGCTCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG228954 representing NM_001146018
 Red=Cloning site Green=Tags(s)

MTSAAPAKKPYRKAPPEHRELRLLEIPGSRLEQEEPLTDAERMKLLQEENEELRRRLASATRRTEALEREL
 EIGQDCLLELELQGSREELDKFKDKFRRLQNSYASQRTNQLEDKHLHLIKKAEMDRKTLDWEIVELTNK
 LLDANKNTINKLEELNERYRLDCNLAVQLLKNKSHFRNHKFADLPCELQDMVRKHLHSGQEAAASPGPAPS
 LAPGAVVPTSVIARVLEKPESELLNSAQSGSAGRPLAEDVFVHVDMSEGVPGDPASPPAPGSPTQPNGE
 CHSLGTARGSPPEELPLPAFEKLNYPYTPSPPHLYPGRRVIEFSEDKVRIPRNSPLPNCTYATRQAIISL
 SLVEEGSERARSPVPSTPASAQASPHHQSPAPLTLAPASSASSEEDLLVSWQRAFVDRTPPPAAVAQ
 RTAFGRDALPELQRHFAHSPADRDEVVQAPSARPEESELLLPTEPDSGFPREEEELNLPISPEEERQSL
 PINRGTEEGPGTSHTEGRAWPLPSSSRPQRSKRMGVHHLHRKDSLTAQAEQGNLLN

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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:	<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:	NM_001146018.1 , NP_001139490.1
RefSeq Size:	2788 bp
RefSeq ORF:	1644 bp
Locus ID:	93643
UniProt ID:	Q5JTD0
Cytogenetics:	6p21.1
Protein Pathways:	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]