

Product datasheet for **RC222836**

TJP1 (NM_003257) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TJP1 (NM_003257) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TJP1
Synonyms:	ZO-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222836 representing NM_003257 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

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Protein Sequence:

>RC222836 representing NM_003257
Red=Cloning site Green=Tags(s)

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Chromatograms:

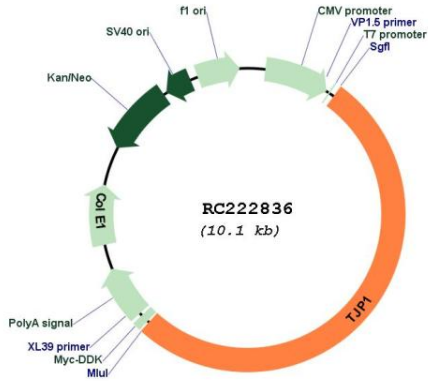
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Restriction Sites:

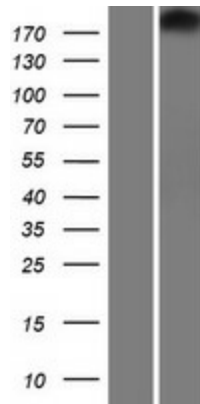
Sgfl-Mlul

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_003257.5
RefSeq Size:	7165 bp
RefSeq ORF:	5247 bp
Locus ID:	7082
UniProt ID:	Q07157
Cytogenetics:	15q13.1
Domains:	ZU5, PDZ, Guanylate_kin, GuKc
Protein Families:	Druggable Genome
Protein Pathways:	Adherens junction, Epithelial cell signaling in Helicobacter pylori infection, Gap junction, Tight junction, Vibrio cholerae infection
MW:	195.3 kDa
Gene Summary:	This gene encodes a member of the membrane-associated guanylate kinase (MAGUK) family of proteins, and acts as a tight junction adaptor protein that also regulates adherens junctions. Tight junctions regulate the movement of ions and macromolecules between endothelial and epithelial cells. The multidomain structure of this scaffold protein, including a postsynaptic density 95/disc-large/zona occludens (PDZ) domain, a Src homology (SH3) domain, a guanylate kinase (GuK) domain and unique (U) motifs all help to co-ordinate binding of transmembrane proteins, cytosolic proteins, and F-actin, which are required for tight junction function. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Aug 2017]

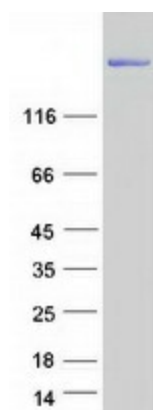
Product images:



Circular map for RC222836



Western blot validation of overexpression lysate (Cat# [LY418804]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222836 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TJP1 protein (Cat# [TP322836]). The protein was produced from HEK293T cells transfected with TJP1 cDNA clone (Cat# RC222836) using MegaTran 2.0 (Cat# [TT210002]).