

Recombinant Full Length Human TJP2 Protein, C-Flag-tagged

Cat. No. TJP2-2188HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human TJP2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a zonula occluden that is a member of the membrane-associated guanylate kinase homolog family. The encoded protein functions as a component of the tight junction barrier in epithelial and endothelial cells and is necessary for proper assembly of tight junctions. Mutations in this gene have been identified in patients with hypercholanemia, and genomic duplication of a 270 kb region including this gene causes autosomal dominant deafness-51. Alternatively spliced transcripts encoding multiple isoforms have been observed for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	133.8 kDa
AA Sequence	MPVRGDRGFPPRRELSGWL RAPGMEELIWEQYTVTLQKDSKRGFGIAVSGGRDNP HFENGETSIVISDVL PGGPADGLLQENDRVVMVNGTPMEDVLHSFAVQQLRKSGKV AAIVVKRPRKVQVAALQASPPLDQDDRAF EVMDEFDGRSFRSGYSERSRLNSHGG RSRSWEDSPERGRPHERARSRERDL SRDRSRGRSLERGLDQDHA RTRDRSRGR SLERGLDHDFGPSRDRDRDRSRGRSIDQDYERAYHRAYDPDYERAYSPEYRRGAR HDARSR GPRSRSRREHPHSRSPSPEPRGRPGPIGVLLMKSRANEEYGLRLGSQIFV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

KEMTRTGLATKDGNLHEGDII LKINGTVTENMSLTDARKLIEKSRGKLQLVVLRRDSQ
 QTLINIPSLNDSSEIEDISEIESNRSFSPEERR HQYSDYDYHSSSEKLKERPSSRED
 TPSRLSRMGATPTPFKSTGDIAGTVVPETNKEPRYQEDPPAPQPKA APRTFLRPSP
 EDEAIYGPNTKMVRFFKGDSVGLRLAGGNDVGIFVAGIQEGTSAEQEGLQEGDQILK
 VNT QDFRGLVREDAVLYLLEIPKGEMVTILAQSRADVYRDILACGRGDSFFIRSHFE
 CEKETPQSLAFTTRGEV FRVVDTLYDGKLGWLAVRIGNELEKGLIPNKSRAEQMAS
 VQNAQRDNAGDRADFWRMRGQRSGVKKNLR KSREDLTAVVSVSTKFPAYERVLL
 REAGFKRPVVLFGPIADIAMEKLANELPDWFQTAKTEPKDAGSEKS TGVVRLNTRV
 QIIEQDKHALLDVTPKAVDLLNYTQWFPIVFFNPDSRQGVKTMQRNLNPTSNNKSSRK
 LF DQANKLKKTC AHLFTATINLNSANDSWFGSLKDTIQHQQGEAVVWVSEGKMEGM
 DDDPEDRMSYLTAMGAD YLSCDSRLISDFEDTDGEGGAYTDNELDEPAEEPLVSSI
 TRSSEPVQHEESIRKPSPEPRAQMRRRAASSD QLRDNSPPPAFKPEPPKAKTQNK
 ESYDFSYSYKSNPSAVAGNETPGASTKGYPPPVAAKPTFGRSIL KPSTPIPPQEG
 EEVGESSEEQDNAPKSVLGKVKIFEKMDHKARLQRMQELQEAQNARIEIAQKHPDIY
 AV PIKTHKPDGTPQHTSSRPPEPQKAPSRPYQDTRGSYGSDAESEEEYRQQLSEH
 SKRGYYGQSARYRDEL TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	Tight junction, Vibrio cholerae infection

Full Length Full L.

GENE INFORMATION

Gene Name TJP2 tight junction protein 2 [Homo sapiens (human)]

Official Symbol TJP2

Synonyms ZO2; X104; FHCA1; PFIC4; DFNA51; DUP9q21.11; C9DUPq21.11

Gene ID 9414

mRNA Refseq NM_004817.4

Protein Refseq NP_004808.2

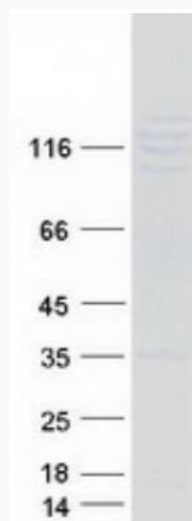
MIM 607709

UniProt ID Q9UDY2

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Coomassie blue staining of purified TJP2 protein.

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