

Product datasheet for **RG230605**

TJP2 (NM_001170630) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TJP2 (NM_001170630) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TJP2
Synonyms:	C9DUPq21.11; DFNA51; DUP9q21.11; PFIC4; X104; ZO2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG230605 representing NM_001170630
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCGGTGCAGGAGACCGCGGTTTCCACCCCGCGGGAGCTGTCAGTTGGCTCCGCGCCCCAGGCA
 TGGAAAGCTGATATGGGAACAGTACACTGTGACCTACAAAAGGATTCCAAAAGAGGATTTGGAATTGC
 AGTGTCCGGAGGCAGAGACAACCCCACTTTGAAAATGGAGAAACGTCAATTGTCAATTTCTGATGTGCTC
 CCGGGTGGCCTGCTGATGGGCTGCTCCAAGAAAATGACAGAGTGGTCAATGGCACCCCATGG
 AGGATGTGCTTCAATTCGTTTGCAGTTACAGCTCAGAAAAAGTGGGAAGTTCGCTGCTATTGTGGTCAA
 GAGGCCCGGAAGGTCCAGGTGGCCGCACTTCAGGCCAGCCCTCCCTGGATCAGGATGACCGGGCTTTT
 GAGGTGATGGACGAGTTTATGGCAGAAGTTCCGGAGTGGCTACAGCGAGAGGAGCCGGCTGAACAGCC
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 TGGACAGCTGTGTTCAGGGTGTGTGGAAGGCATTCC

ACCGGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG230605 representing NM_001170630
 Red=Cloning site Green=Tags(s)

MPVVRGDRGFPPREL SGWLRAPGMEELIWEQYTVTLQKDSKRGFGIAVSGGRDNPHFENGETSIVISDVL
 PGGPADGLLQENDRVVMVNGTPMEDVLHSFAVQQLRKSGKVAAI VVKRPRKVQVAALQASPPLDQDDRAF
 EVMDEFDGRSFRSGYSERSRLNSHGGRSRSWEDSPERGRPHERARSRERDL SRDRSRGRSLERGLDQDHA
 RTRDRSRGRSLERGLDHDFGPSRDRDRDRSRGRSIDQDYERAYHRAYPDYERAYSPEYRRGARHDARSR
 GPRSRSRHPSRSPSPEPRGRPGPIGVLLMKSRANEEYGLRLGSQIFVKEMTRTGLATKDGNLHEGDII
 LKINGTVTENMSLTDARKLIEKSRGKLQLVVL RDSQQT LINIPSLNDS DSEIEDISEIESNRSFSPEERR
 HQYSDYDYHSSSEKLERPSSREDTPSRLSRMGATPTPFKSTGDIAGTVVPETNKEPRYQEDPPAPQPKA
 APRTFLRPSPEDEAIYGPNTKMVRFKKGDSVGLRLAGGNDVGFVAGIQEGTSAEQEGLQEGDQILKVNT
 QDFRGLVREDAVLYLLEIPKGEMVTILAQSRADVYRDILACGRGDSFFIRSHFECEKETPQSLAFTRGEV
 FRVVDTL YDGKLGWLA VRIGNELEKGLIPNKSRAEQMASVQNAQRDNAGDRADFWRMRGQRSGVKKNL R
 KSREDL TAVVSVSTKFPAYERVLLREAGFKRPVVLFGPIADIAMEKLANELPDWFQTAKTEPKDAGSEKS
 TGVVRLN TVRQIIEQDKHALLDVTPKAVDLLNYTQWFPVIVIFFNPDSRQGVKTMQRNLNPTS NKSSRKL F
 DQANKLKKTCAHLFTATINLNSANDSWFGSLKDTIQHQQGEAVVWSEGKMEGMDDDPEDRMSYLTAMGAD
 YLSCDSRLISDFEDTDGEGGAYTDNELDEPAEEPLVSSI TRSSEP VQHEEVRRGRPRAGTGEPGVFLALS
 WTAVCSGCCGRHS

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

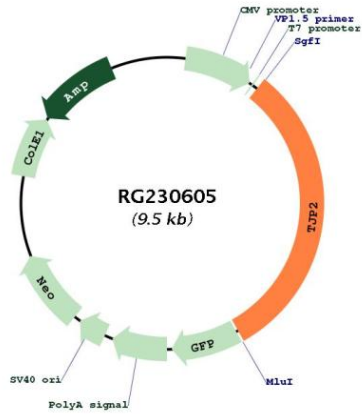


ACCN: NM_001170630

ORF Size: 2979 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_001170630.1 , NP_001164101.1
RefSeq Size:	4720 bp
RefSeq ORF:	2982 bp
Locus ID:	9414
Cytogenetics:	9q21.11
Protein Pathways:	Tight junction, Vibrio cholerae infection
Gene Summary:	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. [provided by RefSeq, Nov 2011]

Product images:



Circular map for RG230605