

## Product datasheet for **RC235043**

### Zonula occludens protein 3 (TJP3) (NM\_001267561) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Zonula occludens protein 3 (TJP3) (NM_001267561) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zonula occludens protein 3
Synonyms:	ZO-3; ZO3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>RC235043 representing NM\_001267561  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGTGAGATTCCAGGTGGCTGACATGGAGGAGCTGACCATCTGGGAACAGCACACGGCCACTGT  
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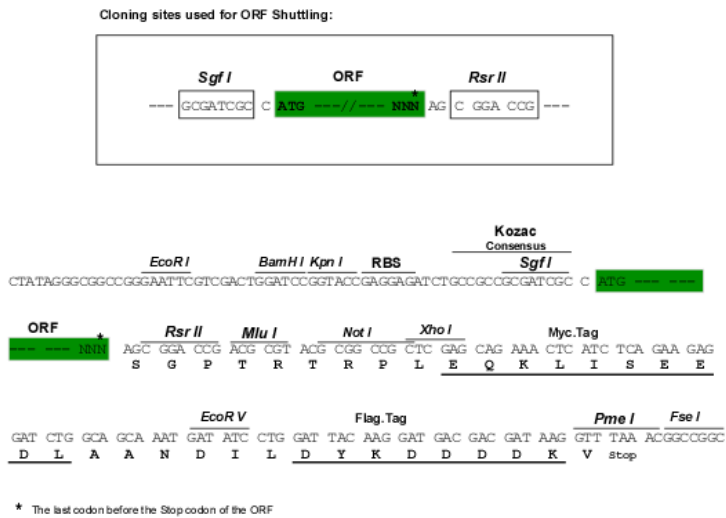
Protein Sequence: >RC235043 representing NM\_001267561  
 Red=Cloning site Green=Tags(s)

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 VILGPVADIAMQKLTAE MPDQFEIAETVSR TDSPSKI I KLDTVRVIAEKDKHALLDVTPSAIERLNYYQY  
 YPIVVFIPESRPALKALRQWLAPASRRSTRRLYAQAQKLRKHSSHLFTATIPLNGTSDTWYQELKAIIR  
 EQQTRPIWTAEDQLDGSLEDNLDLPHHGLADSSADLSCDSRVNSDYETDGE GGA YTDGEGYTDGEGGPYT  
 DVDDEPPAPALARSSEPVADESQSPDRGRISAHQGAQVDSRHPQGQWRQDSMRTYEREALKKKFMRVH  
 DAESSDEGDYDWGPATDL

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:

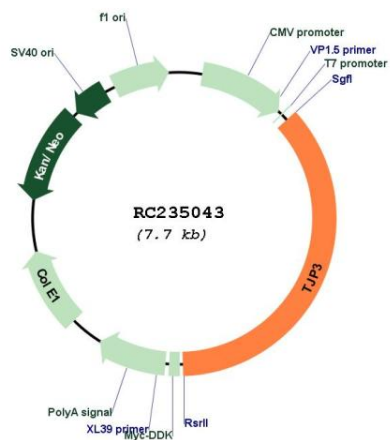


ACCN: NM\_001267561

ORF Size: 2784 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_001267561.2</a>
<b>RefSeq Size:</b>	3127 bp
<b>RefSeq ORF:</b>	2787 bp
<b>Locus ID:</b>	27134
<b>UniProt ID:</b>	<a href="#">O95049</a>
<b>Cytogenetics:</b>	19p13.3
<b>Protein Pathways:</b>	Tight junction
<b>MW:</b>	102.9 kDa
<b>Gene Summary:</b>	The protein encoded by this gene is a member of the membrane-associated guanylate kinase-like (MAGUK) protein family which is characterized by members having multiple PDZ domains, a single SH3 domain, and a single guanylate kinase-like (GUK)-domain. In addition, members of the zonula occludens protein subfamily have an acidic domain, a basic arginine-rich region, and a proline-rich domain. The protein encoded by this gene plays a role in the linkage between the actin cytoskeleton and tight-junctions and also sequesters cyclin D1 at tight junctions during mitosis. Alternative splicing results in multiple transcript variants encoding distinct isoforms. This gene has a partial pseudogene on chromosome 1. [provided by RefSeq, May 2012]

Product images:



Circular map for RC235043