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Product datasheet for RG235034

Zonula occludens protein 3 (TJP3) (NM_001267560) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zonula occludens protein 3 (TJP3) (NM_001267560) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Zonula occludens protein 3
Synonyms:	ZO-3; ZO3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

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ORF Nucleotide Sequence:

>RG235034 representing NM_001267560
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGAGCTGACCATCTGGGAACAGCACACGGCCACACTGTCCAAGGACCCCCGCCGGGGCTTTGGCA
TTGCGATCTCTGGAGGCCGAGACCGGCCCGGTGGATCCATGGTTGTATCTGACGTGGTACCTGGAGGGCC
GGCGGAGGGCAGGCTACAGACAGGCGACCACATCGTCATGGTGAACGGGGTTTCCATGGAGAATGCCACC
TCCGCGTTTGCCATTCAGATACTCAAGACCTGCACCAAGATGGCCAACATCACAGTGAAACGTCCCCGGA
GGATCCACCTGCCCGCCACCAAAGCCAGCCCCTCCAGCCCAGGGCGCCAGGACTCGGATGAAGACGATGG
GCCCCAGCGGGTGGAGGAGGTGGACCAGGGCCGGGGCTATGACGGCGACTCATCCAGTGGCTCCGGCCGC
TCCTGGGACGAGCGCTCCCGCCGGCCGAGGCCTGGTCGCCGGGGCCGGGCCGGCAGCCATGGGCGTAGGA
GCCCAGGTGGTGGCTCTGAGGCCAACGGGCTGGCCCTGGTGTCCGGCTTTAAGCGGCTGCCACGGCAGGA
CGTGCAGATGAAGCCTGTGAAGTCAGTGCTGGTGAAGAGGAGAGACAGCGAAGAGTTTGGCGTCAAGCTG
GGCAGTCAGATCTTCATCAAGCACATTACAGATTCGGGCCTGGCTGCCCGGCACCGTGGGCTGCAGGAAG
GAGATCTCATTCTACAGATCAACGGGGTGTCTAGCCAGAACCTGTCACTGAACGACACCCGGCGACTGAT
TGAGAAGTCAGAAGGGAAGCTAAGCCTGCTGGTGCTGAGAGATCGTGGGCAGTTCCTGGTGAACATTCCG
CCTGCTGTCAGTGACAGCGACAGCTCGCCATTGGAGGACATCTCGGACCTCGCCTCGGAGCTATCGCAGG
CACCACCATCCCACATCCCACCACCACCCCGGCATGCTCAGCGGAGCCCCGAGGCCAGCCAGACCGACTC
TCCCGTGGAGAGTCCCCGGCTTCGGCGGGAAAGTTCAGTAGATTCCAGAACCATCTCGGAACCAGATGAG
CAACGGTCAGAGTTGCCCAGGGAAAGCAGCTATGACATCTACAGAGTGCCCAGCAGTCAGAGCATGGAGG
ATCGTGGGTACAGCCCCGACACGCGTGTGGTCCGCTTCCTCAAGGGCAAGAGCATCGGGCTGCGGCTGGC
AGGGGGCAATGACGTGGGCATCTTCGTGTCCGGGGTGCAGGCGGGCAGCCCGGCCGACGGGCAGGGCATC
CAGGAGGGAGATCAGATTCTGCAGGTGAATGACGTGCCATTCCAGAACCTGACACGGGAGGAGGCAGTGC
AGTTCCTGCTGGGGCTGCCACCAGGCGAGGAGATGGAGCTGGTGACGCAGAGGAAGCAGGACATTTTCTG
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CCGTCTGGCCTGGGCTTCACCCGTGGCGACGTCTTCCACGTGCTGGACACGCTGCACCCCGGCCCCGGGC
AGAGCCACGCACGAGGAGGCCACTGGCTGGCGGTGCGCATGGGTCGTGACCTGCGGGAGCAAGAGCGGGG
CATCATTCCCAACCAGAGCAGGGCGGAGCAGCTGGCCAGCCTGGAAGCTGCCCAGAGGGCCGTGGGAGTC
GGGCCCGGCTCCTCCGCGGGCTCCAATGCTCGGGCCGAGTTCTGGCGGCTGCGGGGTCTTCGTCGAGGAG
CCAAGAAGACCACTCAGCGGAGCCGTGAGGACCTCTCAGCTCTGACCCGACAGGGCCGCTACCCGCCCTA
CGAACGAGTGGTGTTGCGAGAAGCCAGTTTCAAGCGCCCGGTAGTGATCCTGGGACCCGTGGCCGACATT
GCTATGCAGAAGTTGACTGCTGAGATGCCTGACCAGTTTGAAATCGCAGAGACTGTGTCCAGGACCGACA
GCCCCTCCAAGATCATCAAACTAGACACCGTGCGGGTGATTGCAGAAAAAGACAAGCATGCGCTCCTGGA
TGTGACCCCCTCCGCCATCGAGCGCCTCAACTATGTGCAGTACTACCCCATTGTGGTCTTCTTCATCCCC
GAGAGCCGGCCGGCCCTCAAGGCACTGCGCCAGTGGCTGGCGCCTGCCTCCCGCCGCAGCACCCGTCGCC
TCTACGCACAAGCCCAGAAGCTGCGAAAACACAGCAGCCACCTCTTCACAG

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

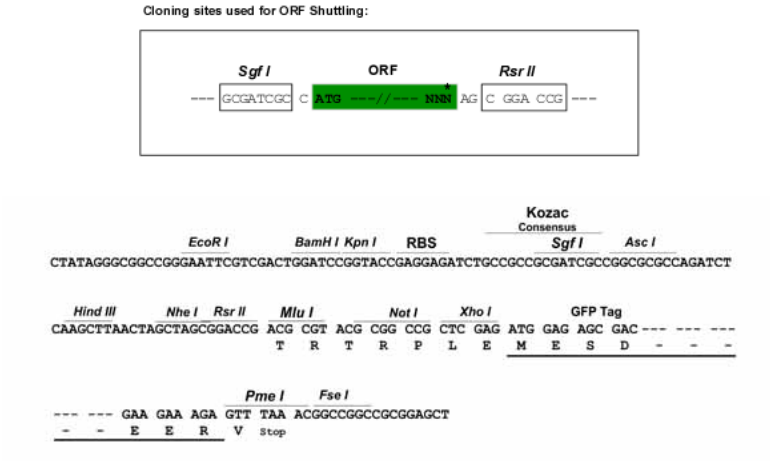
>RG235034 representing NM_001267560
Red=Cloning site Green=Tags(s)

MEELTIWEQHTATLSKDPRRGFGIAISGGRDRPGGSMVVSDVVPGGPAEGRLQTGDHIVMVNGVSMENAT
SAFAIQILKTCTKMANITVKRPRRIHLPATKASPSSPGRQDSDEDDGPQRVEEVDQGRGYDGDSSSGSGR
SWDERSRRPRPGRRGRAGSHGRRSPGGGSEANGLALVSGFKRLPRQDVQMKPVKSVLVKRRDSEEFGVKL
GSQIFIKHITDSGLAARHRGLQEGDLILQINGVSSQNLSLNDTRRLIEKSEGKLSLLVLRDRGQFLVNIP
PAVSDSDSSPLEDISDLASELSQAPPSHIPPPPRHAQRSPEASQTDSPVESPRLRRESSVDSRTISEPDE
QRSELPRESSYDIYRVPSSQSMEDRGYSPDTRVVRFLKGKSIGLRLAGGNDVGIFVSGVQAGSPADGQGI
QEGDQILQVNDVPFQNLTREEAVQFLLGLPPGEEMELVTQRKQDIFWKMVQSRVGDSFYIRTHFELEPSP
PSGLGFTRGDVFHVLDTLHPGPGQSHARGGHWLAVRMGRDLREQERGIIPNQSRAEQLASLEAAQRAVGV
GPGSSAGSNARAEFWRLRGLRRGAKKTTQRSREDLSALTRQGRYPPYERVVLREASFKRPVVILGPVADI
AMQKLTAEMPDQFEIAETVSRTDSPSKIIKLDTVRVIAEKDKHALLDVTPSAIERLNYVQYYPIVVFFIP
ESRPALKALRQWLAPASRRSTRRLYAQAQKLRKHSSHLFT

SGPTRTRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_001267560

ORF Size: 2757 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).

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Reconstitution Method: 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_001267560.1, NP_001254489.1

RefSeq Size: 3140 bp

RefSeq ORF: 2760 bp

Locus ID: 27134

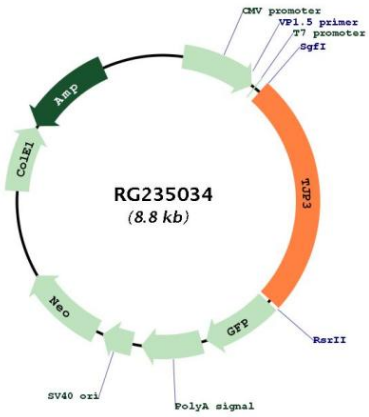
UniProt ID: O95049

Cytogenetics: 19p13.3

Protein Pathways: Tight junction

Gene Summary: 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 RG235034

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