

Product datasheet for **RR209099**

Tgoln2 (NM_138840) Rat Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Tgoln2 (NM_138840) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Tgoln2 |
| Synonyms: | Tgn38; Tgoln1; Ttgn1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RR209099 representing NM_138840 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCGATTCTGGTTGCGTTGCTCCTGCTGAGTGTGCGGGTGGCGAGAGCTTGCCATCCGCTTCTAAGC
CAAACAACACATCAAGTAAAAAATCCTCCGATTCAACCTTCCACGCCCTGCCTCTGGGTTGATAT
TTCTCAACAGGTAAGACTAACAGACCGACTGATCAGAGGCTGGAGTCGGATAAAGAAGGCCAGGACAAG
ACGGTGGCTAGGACTTCGGCATCAGTTTCCAGTGGGTGGAATCTGCGACCAATCTCAATTTGGATGATT
CCAAAAAGCACCCGAAACAGCAGATGCCAAATGAAGGAACTTGCAGCAGCTTTTGCCTGTGGACCC
CAAACAGGAAAAGTCAGGTCAGAAGTTTACAAAAGATTACGGCAGCCCCACAGGAGGTGATTCGGACAAT
ACCACAGGAGGTGATTCTAACAAGACCACAGGAGTTGATTCTGACAAGACATCAGGAGGTGATTCTAACA
AGCCCACAGGAAGTGATAATGACAAGCCCACAGGAGGTGATTCTAACAAGCCCACCTCAAAGTCCCTC
CAATACAGAGACTCCAAAAATTGACAAAGTCCAGCTAACTGAAAAAGGACAGAAACCAACTTATTTCC
AAAAGTGAATCTGGGAAAAACTGGCAGGGGACTCTGACTTCTCTTTAAAGCCAGAGAAAGGAGATAAGT
CTTCAGAGCCTACTGAAGATGTGGAACCAAGGAGATTGAAGAGGGTGTACAGAGCCCCGAAGAAGTTT
ACCAGTTGAAGAAGAGAATGAAAAGGTGTTGGGCCCTTCTCCAGTGAGAACCAAGAGGGGACACTTACA
GATTCTATGAAGGATGAGAAGGATGACCATTATAAGACAATTCTGAAAACACCAGTGCAGAAAGCAGCC
ACTTCTTTGCTTATCTGGTGACCGCTGCTTCTTGTGCTGTCTCTATATTGCTTACCACAACAAACG
AAAGATTATTGCTTTTGCCTGGAAGGAAAAAGATCCAAAGTCACTCGGAGGCCAAAGGCCAGTGACTAC
CAACGTTTGAACCTAAAGCTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RR209099 representing NM_138840
 Red=Cloning site Green=Tags(s)

MQFLVALLLLSVAVARALPSASKPNNTSSENNPPIQPSTPLPPGVDISQQVKTNRPTDQRLESDKEGQDK
 TVARTSASVSSGVESATNLNLLDDSKKHPETADAKLKETLQQLPVDPKQEKSGQKFKDMSGPTGGSDN
 TTGGDSNKTTGVDSKDTSGGDSNKPTGSDNDKPTGGDSNKPTSKVPSNTEPKIDKVQLTEKGQKPTLIS
 KTESGEKLAGDSDFSLKPEKGDKSSEPTEDVETKEIEEGDTEPEEGSPLEENEKVLGPSSSENQEGTLT
 DSMKDEKDDHYKDNSGNTSAESSHFFAYLVYAAVLVAVLYIAYHNKRKIIAFALEGKRKSVTRRPKASDY
 QRLNLKL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_138840

ORF Size: 1071 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:

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_138840.2](#), [NP_620195.1](#)

RefSeq Size: 4744 bp

RefSeq ORF: 1074 bp

Locus ID: 192152

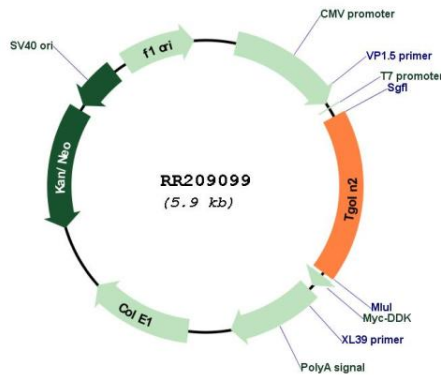
UniProt ID: [P19814](#)

Cytogenetics: 4q31

MW: 38.3 kDa

Gene Summary: resident integral membrane proteins of the trans-Golgi network (TGN), cycles constitutively between the TGN and the plasma membrane [RGD, Feb 2006]

Product images:



Circular map for RR209099