

Product datasheet for **RC203323**

TGN46 (TGOLN2) (NM_006464) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	TGN46
Synonyms:	hTGN46; hTGN48; hTGN51; TGN38; TGN46; TGN48; TGN51; TTGN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC203323 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCGGTTCTAGTTGCCTTGGTCTCTGAACGTGCGAGCGGGGAGCCGTGCCGCTCTTGGCCACCG
 AAAGCGTCAAGCAAGAAGATGCTGGAGTACGGCCTTCTGCAGGAAACGTCTCCACCCACCCAGCTTGAG
 CCAACGGCTGGAGGCTCTACCAAGTCGCATCCGGAGCCGAGACTCCAAAAGACAGCCCTAGCAAGTCG
 AGTGCGGAGGCGCAGACCCAGAAGACACCCCAACAAGTCGGGTGCGGAGGCAAGACCCAAAAAGACA
 GCTCCAACAAGTCGGGTGCGGAGGCAAGACCCAAAAAGGCAGCACTAGCAAGTCGGGTTCGGAGGCGCA
 GACCACAAAAGACAGCACTAGTAAGTCGCATCCGGAGCTGCAGACTCCAAAAGACAGCACTGGCAAAATCG
 GGTGCGGAGGCGCAGACCCAGAAGACAGCCCAACAGGTGCGGTGCGGAGGCAAGACCCAAAAAGACA
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 AACCAGCTTGCTGACAAAGGAAGCTTTCTCCTCATGCTTTCAAAACGAATCTGGGAGGAAATGACC
 TCATTTCTCCCCCGCAGGAGGAAGTTAAGTCTTCAGAGCCTACTGAGGATGTGGAGCCCAAGAGGCTGA
 AGATGATGATACAGGACCCGAGGAGGGCTCACCGCCCAAGAAGAGAAAGAAAAGATGTCCGTTCTGCC
 TCCAGTGAGAACCGTGAAGGGACACTTCGGATTCCACGGGTAGCGAGAAGGATGACCTTTATCCGAACG
 GTTCTGGAATGGCAGCGCGGAGAGCAGCACTTCTTGCATATCTGGTACTGCAGCCATTCTTGTGGC
 TGTCTCTATATCGCTCATCAACAAGCGGAAGATCATTGCTTTTGTCTGGAAGGAAAAAGATCTAA
 GTCACCCGCGGCCAAAGGCCAGTGACTACCAACGTTTGGACCAGAAGTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203323 protein sequence
 Red=Cloning site Green=Tags(s)

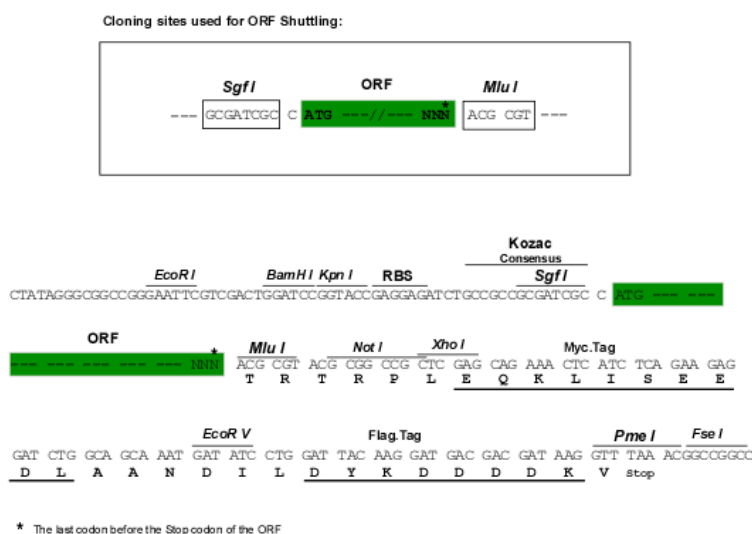
MRFVVALVLLNVAAAGAVPLLATESVKQEDAGVRPSAGNVSTHPSLSQRPGGSTKSHPEPQTPKDSPSKS
 SAEAQTPEDTPNKSGAEAKTQKDSNKSAGAEAKTQKGSTSKSGSEAQTTKDSTKSHPELQTPKDSTGKS
 GAEAQTPEDSPNRSGAEAKTQKDSNKSAGAEAKTQKDVNKSADGQTPKDGSSKSGAEDQTPKDVNKS
 GAEKQTPKDGSNKSAGAEQGPIDGPSKSGAEEQTSKDSNKKVPEQPSRKDHSPKIPSNPSDNKELPKADT
 NQLADKGLSPHAFKTESGEETDLISPPQEEVKSEPTEDVEPKEAEDDDTGPEEGSPPKEEKEKMSGSA
 SSENREGTLDSTGSEKDDLYPNGSGNGSAESSHFFAYLVTAAILVAVLYIAHNNKRIIAFVLEGRSK
 VTRRPKASDYQRLDQKS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6051_c05.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



ACCN: NM_006464

ORF Size: 1311 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22µm filter is required.

RefSeq: [NM_006464.4](#)

RefSeq Size: 6373 bp

RefSeq ORF: 1314 bp

Locus ID: 10618

UniProt ID: [O43493](#)

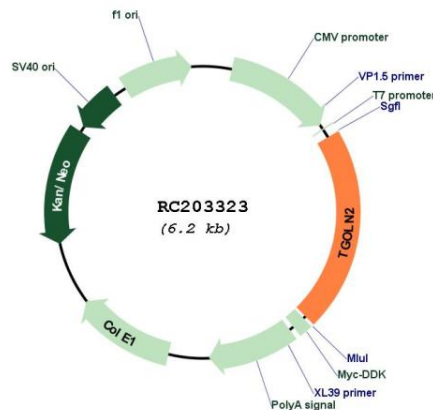
Cytogenetics: 2p11.2

Protein Families: Transmembrane

MW: 45.9 kDa

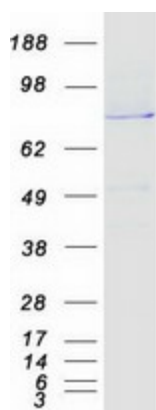
Gene Summary: This gene encodes a type I integral membrane protein that is localized to the trans-Golgi network, a major sorting station for secretory and membrane proteins. The encoded protein cycles between early endosomes and the trans-Golgi network, and may play a role in exocytic vesicle formation. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Oct 2011]

Product images:



Circular map for RC203323

Western validation with an anti-DDK antibody
 * L: Control HEK293 lysate R: Over-expression lysate



Coomassie blue staining of purified TGOLN2 protein (Cat# [TP303323]). The protein was produced from HEK293T cells transfected with TGOLN2 cDNA clone (Cat# RC203323) using MegaTran 2.0 (Cat# [TT210002]).