

Product datasheet for **RG233924**

TGN46 (TGOLN2) (NM_001206844) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TGN46 (TGOLN2) (NM_001206844) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TGN46
Synonyms:	hTGN46; hTGN48; hTGN51; TGN38; TGN46; TGN48; TGN51; TTN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233924 representing NM_001206844 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGTTCTGGTTGCCTTGCTCCTGAACGTCGACGCGCGGGAGCCGTGCCGCTCTTGCCACCG
AAAGCGTCAAGCAAGAAGAAGCTGGAGTACGGCCTTCTGCAGGAAACGTCTCCACCCACCCAGCTTGAG
CCAACGGCTGGAGGCTCTACCAAGTCGCATCCGGAGCCGAGACTCCAAAAGACAGCCCTAGCAAGTCG
AGTGGGAGGCGCAGACCCAGAAGACACCCCAACAAGTCGGGTGCGGAGGCAAAGACCCAAAAAGACA
GCTCCAACAAGTCGGGTGCGGAGGCAAAGACCCAAAAAGGCAGCACTAGCAAGTCGGGTTCGGAGGCGCA
GACCACAAAAGACAGCACTAGTAAGTCGCATCCGGAGCTGCAGACTCCAAAAGACAGCACTGGCAAATCG
GGTGGGAGGCGCAGACCCAGAAGACACCCCAACAGGTGCGGTGCGGAGGCAAAGACCCAAAAAGACA
GCCCTAGCAAGTCAGTTTCGGAGGCGCAGACCACAAAAGATGTCCTAATAAGTCGGGTGCGGACGGCCA
GACCCCAAAAGACGGCTCCAGCAAGTCGGGTGCGGAGGATCAGACCCCAAAAGACGTCCCTAACAAGTCG
GGTGGGAGAAGCAGACTCCAAAAGACGGCTCTAACAAGTCGGGTGCGAGGAGCAGGGCCCAATAGACG
GGCCAGCAAGTCGGGTGCGGAGGAGCAGACCTCAAAAGACAGCCCTAACAAGGAGGAAGTTAAGTCTTC
AGAGCCTACTGAGGATGTGGAGCCCAAGAGGCTGAAGATGATGATACAGGACCCGAGGAGGGCTCACCG
CCCAAAGAAGAGAAAAGATGTCCGGTCTGCCTCCAGTGAGAACCCTGAAGGGACACTTTCGGATT
CCACGGGTAGCGAGAAGGATGACCTTTATCCGAACGGTTCTGGAATGGCAGCGCGGAGAGCAGCCACTT
CTTTGCATATCTGGTACTGCAGCCATTCTTGTGGCTGTCTCTATATCGCTCATCACAACAAGCGGAAG
ATCATTGCTTTTGTCTGGAAGGAAAAGATCTAAAGTACCCGGCGGCCAAAGGCCAGTGACTACCAAC
GTTTGGACCAGAAGTCC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233924 representing NM_001206844
 Red=Cloning site Green=Tags(s)

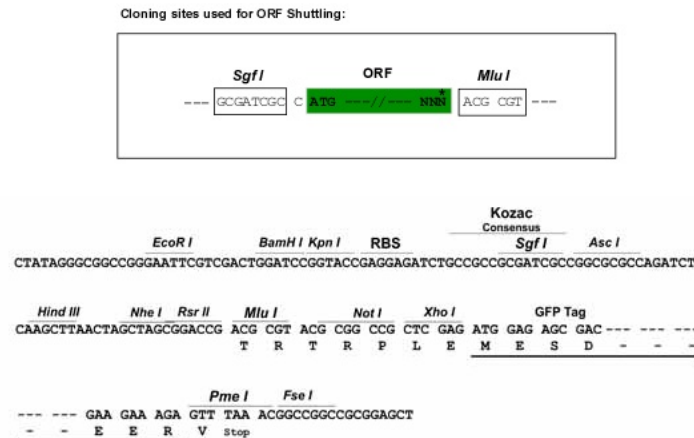
MRFVVALVLLNVAAGAVPLLATESVKQEEAGVRPSAGNVSTHPSLSQRPGGSTKSHPEPQTPKDSPSKS
 SAEAQTPEDTPNKSGAEAKTQKDSSNKSGAEAKTQKGSTSKSGSEAAQTTKDSTKSHPELQTPKDSTGKS
 GAEAQTPEDSPNRSGAEAKTQKDSPSKSGSEAAQTTKDVPNKSGADGQTPKDGSSKGAEDQTPKDVPNKS
 GAEKQTPKDGSKNSGAEQGPIDGPSKSGAEQTSKDSPNKEEVKSSEPTEDVEPKEAEDDDTGPEEGSP
 PKEEKEKMSGASSENREGTLDSTGSEKDDLYPNGSGNGSAESSHFFAYLVTAAILVAVLYIAHHNKRK
 IIAFVLEGKRSKVTRRPKASDYQRLDQKS

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001206844

ORF Size: 1137 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_001206844.2](#)

RefSeq Size: 6199 bp

RefSeq ORF: 1140 bp

Locus ID: 10618

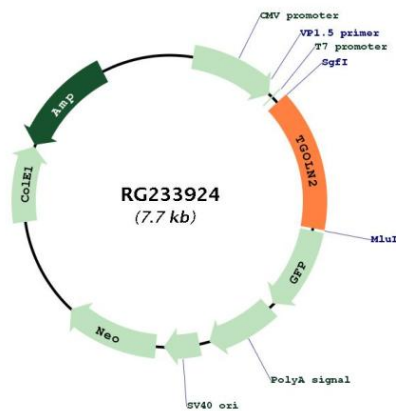
UniProt ID: [O43493](#)

Cytogenetics: 2p11.2

Protein Families: Transmembrane

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 RG233924