

Product datasheet for **RG234143**

TGN46 (TGOLN2) (NM_001206841) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TGN46 (TGOLN2) (NM_001206841) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TGN46
Synonyms:	hTGN46; hTGN48; hTGN51; TGN38; TGN46; TGN48; TGN51; TTGN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234143 representing NM_001206841
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGGTTCTGTTGCTTGGTCTCTGAACGTCGAGCGCGGGAGCCGTGCCGCTCTTGCCACCG
 AAAGCGTCAAGCAAGAAGAAGCTGGAGTACGGCCTTCTGCAGAAACGTCTCCACCCACCCAGCTTGAG
 CCAACGGCCTGGAGGCTCTACCAAGTCGCATCCGAGCCGAGACTCCAAAAGACAGCCCTAGCAAGTCG
 AGTGCGGAGGCGCAGACCCAGAACACCCCCAACAGTCGGGTGCGGAGGCAAAGACCCAAAAAGACA
 GCTCCAACAAGTCGGGTGCGGAGGCAAAGACCCAAAAAGGCAGCACTAGCAAGTCGGGTTGCGAGGCGCA
 GACCACAAAAGACAGCACTAGTAAGTCGCATCCGAGCTGCAGACTCCAAAAGACAGCACTGGCAAATCG
 GGTGCGGAGGCGCAGACCCAGAACACGCCCAACAGGTCGGGTGCGGAGGCAAAGACCCAAAAAGACA
 GCCCTAGCAAGTCAGGTTGCGAGGCGCAGACCACAAAAGATGTCCCTAATAAGTCGGGTGCGGACGGCCA
 GACCCCAAAAGACGGCTCCAGCAAGTCGGGTGCGGAGGATCAGACCCCAAAAGACGTCCCTAACAAGTCG
 GGTGCGGAGAAGCAGACTCCAAAAGACGGCTCTAACAAGTCGGGTGCGAGGAGCAGGGCCCAATAGACG
 GGCCACGCAAGTCGGGTGCGGAGGAGCAGACCTCAAAAGACAGCCCTAACAAGTGGTTCAGAGCAGCC
 TTCCCGGAAAGACCATTCCAAGCCATCTCCAACCTTCTGATAACAAGGAGTCCCAAGGCTGACACA
 AACCAGCTTGCTGACAAAGGGAAGCTTTCTCTCATGCTTTCAAACCGAATCTGGGGAGGAAACTGACC
 TCATTTCTCCCCCGCAGGAGGAAGTTAAGTCTTCAGAGCCTACTGAGGATGTGGAGCCAAAGAGGCTGA
 AGATGATGATACAGGACCCGAGGAGGGCTCACCGCCCAAGAAGAGAAAGAAAGATGTCGGTTCTGCC
 TCCAGTGAGAACCGTGAAGGGACACTTTTCGATTCCACGGGTAGCGAGAAGGATGACCTTTATCCGAACG
 GTTCTGGAAATGGCAGCGCGGAGAGCAGCCACTTCTTTCATATCTGGTGACTGCAGCCATTCTTTGTGGC
 TGTCTCTATATCGCTCATCACAAACAGCGGAAGATCATTGCTTTTGTCTGGAAGGAAAAAGATCTAAA
 GTCACCCGGCGGCAAAAGGCCAGTGACTACCAACGTTTGACCAGAAGATCTTTTTTCCCCCAAGTCCTA
 ACAGAATGGTATATCTCTCTGAAAAAGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

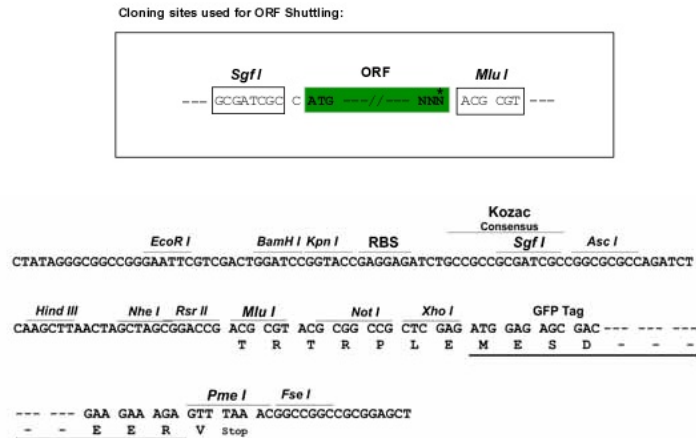
>RG234143 representing NM_001206841
 Red=Cloning site Green=Tags(s)

MRFVVALVLLNVAAGAVPLLATESVKQEEAGVRPSAGNVSTHPSLSQRPGGSTKSHPEPQTPKDSPSKS
 SAEAQTPEDTPNKSGAEAKTQKDSSNKSGAEAKTQKGSTSKSGSEAQTTKDSTKSHPELQTPKDSTGKS
 GAEAQTPEDSPNRSGAEAKTQKDSPSKSGSEAQTTKDVPNKSGADGQTPKDGSSKSGAEDQTPKDVPNKS
 GAEKQTPKDGSNKSGAEQGPIDGPSKSGAEQTSKDSPNKVVPEQPSRKDHSPKISNPSDNKELPKADT
 NQLADKGKLSPHAFKTESGEETDLISPPQEEVKSEPTEDVEPKEAEDDDTGPEEGSPPKKEEKEKMSGSA
 SSENREGTLDSTGSEKDDLYPNGSGNSAESHHFFAYLVTAAILVAVLYIAHHNKRKIIAFVLEGRSK
 VTRRPKASDYQRLDQKIFFPPSPNRMVYSSGKR

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001206841

ORF Size: 1359 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_001206841.2](#)

RefSeq Size: 6390 bp

RefSeq ORF: 1362 bp

Locus ID: 10618

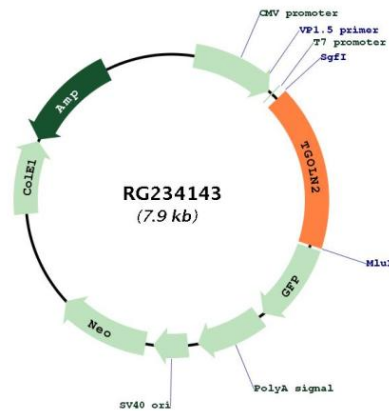
UniProt ID: [O43493](#)

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 RG234143