

Product datasheet for **RG234225**

TGN46 (TGOLN2) (NM_001206840) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TGN46 (TGOLN2) (NM_001206840) 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:

>RG234225 representing NM_001206840
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCGGTTCTGTTGCTTGGTCTCTGAACGTCGACGCGCGGGAGCCGTGCCGCTCTTGGCCACCG
 AAAGCGTCAAGCAAGAAGAAGCTGGAGTACGGCCTTCTGCAGGAAACGTCTCCACCCACCCAGCTTGAG
 CCAACGGCCTGGAGGCTCTACCAAGTCGCATCCGGAGCCGACACTCCAAAGACAGCCCTAGCAAGTCG
 AGTGCGGAGGCGCAGACCCAGAACACCCCCAACAAAGTCGGGTGCGGAGGCAAAGACCCAAAAAGACA
 GCTCCAACAAGTCGGGTGCGGAGGCAAAGACCCAAAAAGGCAGCACTAGCAAGTCGGGTTCGGAGGCGCA
 GACCACAAAGACAGCACTAGTAAGTCGCATCCGGAGTCGAGACTCCAAAGACAGCACTGGCAAAATCG
 GGTGCGGAGGCGCAGACCCAGAACACGCCCAACAGGTCGGGTGCGGAGGCAAAGACCCAAAAAGACA
 GCCCTAGCAAGTCAGGTTTCGGAGGCGCAGACCACAAAAGATGTCCCTAATAAGTCGGGTGCGGACGGCCA
 GACCCCAAAAGACGGCTCCAGCAAGTCGGGTGCGGAGGATCAGACCCCAAAAGACGTCCCTAACAAGTCG
 GGTGCGGAGAAGCAGACTCCAAAGACGGCTCTAACAAGTCGGGTGCGAGGAGCAGGGCCCAATAGACG
 GGCCACGCAAGTCGGGTGCGGAGGAGCAGACCTCAAAAGACAGCCCTAACAAGGTGGTTCAGAGCAGCC
 TTCCCGGAAAGACCATTCCAAGCCATCTCCAACCTTCTGATAACAAGGAGTCCCAAGGCTGACACA
 AACCAGCTTGCTGACAAAGGGAAGCTTTCTCTCATGCTTTCAAACCGAATCTGGGGAGGAAACTGACC
 TCATTTCTCCCCCGCAGGAGGAAGTTAAGTCTTCAGAGCCTACTGAGGATGTGGAGCCAAAGAGGCTGA
 AGATGATGATACAGGACCCGAGGAGGGCTCACCGCCCAAGAAGAGAAAGAAAGATGTCCGTTCTGCC
 TCCAGTGAGAACCGTGAAGGGACACTTTCGATTCCACGGGTAGCGAGAAGGATGACCTTTATCCGAACG
 GTTCTGGAAATGGCAGCGCGGAGAGCAGCCACTTCTTGCATATCTGGTGACTGCAGCCATTCTTTGCGC
 TGTCTCTATATCGCTCATCACAAACAGCGGAAGATCATTGCTTTTGTCTGGAAGGAAAAAGATCTAAA
 GTCACCCGGCGGCCAAAGGCCAGTGACTACCAACGTTTGGACCAGAAGTATGTCTTAATTCTGAATGTTT
 TCCCTGCACCTCTAAAAGATCTTTTTTCCCCAAGTCCTAACAGAATGGTATATTCTCTGAAAAAGA
 TGAACGTCACCAATGGATTGTGCTGCTCTCGTTTCAGCTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234225 representing NM_001206840
 Red=Cloning site Green=Tags(s)

MRFVVALVLLNVAAGAVPLLATESVKQEEAGVRPSAGNVSTHPSLSQRPGGSTKSHPEPQTPKDSPSKS
 SAEAQTPEDTPNKSAGAEAKTQKDSNKSAGAEAKTQKGSTSKSGSEAQTTKDSTKSHPELQTPKDSTGKS
 GAEAQTPEDSPNRSAGAEAKTQKDSNKSAGAEAKTQKDVNKSAGADGQTPKDGSSKSGAEDQTPKDVNKS
 GAEKQTPKDGSNKSAGAEQGPIDGPSKSGAEQTSKDSNKSVPVPEQPSRKDHSPKISNPSDNKELPKADT
 NQLADKGLSPHAFKTESGEETDLISPPQEEVKSSSEPTDVEPKEAEDDDTGPEEGSPPKKEEKEKMSGSA
 SSENREGTLDSTGSEKDDLYPNGSGNGSAESSHFFAYLVTAAILVAVLYIAHNNKRIIAFVLEGRKRSK
 VTRRPKASDYQRLDQKYVLILNVFPAPPKRSFFPQVLTEWYIPLEKDERHQWIVLLSFQL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001206840

ORF Size: 1440 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_001206840.2](#)

RefSeq Size: 6431 bp

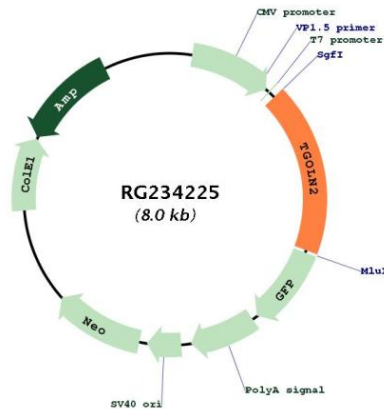
RefSeq ORF: 1443 bp

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 RG234225