

Product datasheet for **RG203323**

TGN46 (TGOLN2) (NM_006464) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
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)

ORF Nucleotide Sequence: >RG203323 representing NM_006464
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGGTTTCGAGTTGCTTGGTCCTCCTGAACGTCGACGCGGCGGAGCCGTGCCGCTCTTGCCACCG
AAAGCGTCAAGCAAGAAGATGCTGGAGTACGGCCTTCTGCAGGAAACGTCTCCACCCACCCAGCTTGAG
CCAACGGCTGGAGGCTCTACCAAGTCGCATCCGAGCCGACAGCTCCAAAAGACAGCCCTAGCAAGTCG
AGTGCGGAGGCGCAGACCCAGAAGACACCCCAACAAGTCGGGTGCGGAGGCAAGACCCAAAAAGACA
GCTCCAACAAGTCGGGTGCGGAGGCAAGACCCAAAAAGGCAGCACTAGCAAGTCGGGTTCGGAGGCGCA
GACCACAAAAGACAGCACTAGTAAGTCGCATCCGAGCTGCAGACTCCAAAAGACAGCACTGGCAAATCG
GGTGCGGAGGCGCAGACCCAGAAGACAGCCCAACAGGTGCGGTGCGGAGGCAAGACCCAAAAAGACA
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TTCCCGGAAAGACCATTCAGCCCATCTCAACCTTCTGATAACAAGGAGCTCCCAAGGCTGACACA
AACCAGCTTGCTGACAAAGGGAAGCTTTCTCCTCATGCTTTCAAAACCGAATCTGGGAGGAACTGACC
TCATTTCTCCCCGAGGAGGAAGTTAAGTCTTCAGAGCCTACTGAGGATGTGGAGCCCAAGAGGCTGA
AGATGATGATACAGGACCCGAGGAGGCTCACCGCCAAAGAAGAGAAAGAAAGATGTCCGTTTCTGCC
TCCAGTGAGAACCGTGAAGGGACACTTTCGGATTCCACGGTAGCGAGAAGGATGACCTTTATCCGAACG
GTTCTGGAATGGCAGCGCGGAGAGCAGCACTTCTTTGCATATCTGGTGACTGCAGCACTTCTGTGGC
TGTCCTCTATATCGCTCATACAACAAGCGGAAGATCATTGCTTTGTCTGGAAGGAAAAAGATCTAA
GTCACCCGCGGCCAAAGGCCAGTGACTACCAACGTTTGGACCAGAAGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



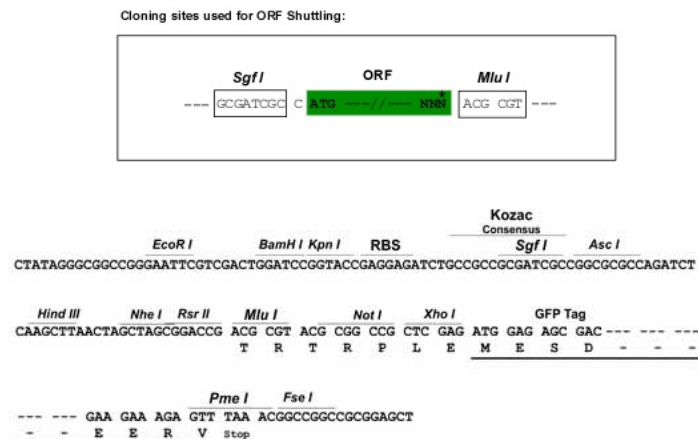
Protein Sequence: >RG203323 representing NM_006464
Red=Cloning site Green=Tags(s)

MRFVVALVLLNVAAGAVPLLATESVKQEDAGVRPSAGNVSTHPSLSQRPGGSTKSHPEPQTPKDSKPSK
SAEAQTPEDTPNKSAGAEAKTQKDSNKSAGAEAKTQKGSTKSGSEAQTTKDSTKSHPELQTPKDSTGKS
GAEAQTPEDSPNRSAGAEAKTQKDSKSGSEAQTTKDVPNKSAGDQTPKDSSKSGAEDQTPKDVPNKS
GAEKQTPKDGSKNKSAGAEQGPIDGPKSGAEQTSKDSNKKVPEQPSRKDHSPKISNPSDNKELPKADT
NQLADKGLSPHAFKTESGEETDLISPPQEEVKSSSEPTEDVEPKAEEDDTGPEEGSPPKEEKEKMSGSA
SSENREGTLSDTGSEKDDLYPNGSGNGSAESSHFFAYLVTAAILVAVLYIAHNNKRIIAFVLEGRKSK
VTRRPKASDYQRLDQKS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006464

ORF Size: 1311 bp

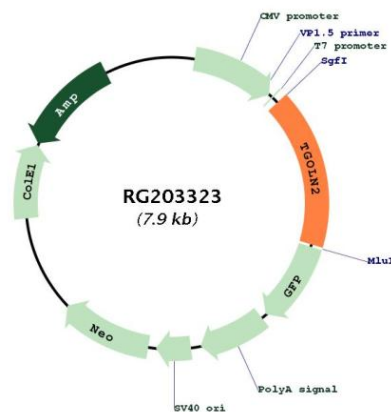
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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 0.22um filter is required.
RefSeq:	<u>NM_006464.2</u> , <u>NP_006455.2</u>
RefSeq Size:	6345 bp
RefSeq ORF:	1314 bp
Locus ID:	10618
UniProt ID:	<u>O43493</u>
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 RG203323