

## Product datasheet for **SC116047**

### TGN46 (TGOLN2) (NM\_006464) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TGN46 (TGOLN2) (NM_006464) Human Untagged Clone
Tag:	Tag Free
Symbol:	TGN46
Synonyms:	hTGN46; hTGN48; hTGN51; TGN38; TGN46; TGN48; TGN51; TTN2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_006464, the custom clone sequence may differ by one or more nucleotides

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ATGCGGTTTCGTGGTTGCCTTGGTCTCCTGAACGTCGCAGCGCGGGAGCCGTGCCGCTCTTGGCCACCG
AAAGCGTCAAGCAAGAAGAAGCTGGAGTACGGCCTTCTGCAGGAAACGTCTCCACCCACCCAGCTTGAG
CCAACGGCCTGGAGGCTCTACCAAGTCGCATCCGGAGCCGAGACTCCAAAAGACAGCCCTAGCAAGTCG
AGTGGGAGGGCGCAGACCCAGAACACACCCCAACAAGTCGGGTGCGGAGGCAAAGACCCAAAAAGACA
GCTCCAACAAGTCGGGTGCGGAGGCAAAGACCCAAAAAGGCAGCACTAGCAAGTCGGGTCGGAGGCGCA
GACCACAAAAGACAGCACTAGTAAGTCGCATCCGGAGTCGAGACTCCAAAAGACAGCACTGGCAAATCG
GGTGGGAGGGCGCAGACCCAGAACACAGCCCAACAGGTCGGGTGCGGAGGCAAAGACCCAAAAAGACA
GCCCTAGCAAGTCAGGTTTCGGAGGCGCAGACCACAAAAGATGTCCCTAATAAGTCGGGTGCGGACGGCCA
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GGTGGGAGAAGCAGACTCCAAAAGACGGCTCTAACAAGTCGGGTGCGAGGAGCAGGGCCCAATAGACG
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TTCCCGGAAAGACCATCCAAGCCATCTCAACCCTTCTGATAACAAGGAGCTCCCAAGGCTGACACA
AACCAGTTGCTGACAAAGGGAAGCTTTCTCCTCATGCTTTCAAACCGAATCTGGGGAGGAAACTGACC
TCATTTCTCCCCGCAGGAGGAAGTTAAGTCTTCAGAGCCTACTGAGGATGTGGAGCCAAAGAGGCTGA
AGATGATGATACAGGACCCGAGGAGGGCTCACCGCCAAAGAGAGAAAGAAAGATGTCCGGTTCTGCC
TCCAGTGAGAACCGTGAAGGGACACTTTTCGGATTCCACGGGTAGCGAGAAGGATGACCTTTATCCGAACG
GTTCTGGAAATGGCAGCGCGGAGAGCAGCCACTTCTTTGCATATCTGGTACTGCAGCCATTCTTTGTGGC
TGTCTCTATATCGCTCATCACAAAGCGGAAGATCATTGCTTTGTCTGGAAGGAAAAAGATCTAAAG
GTCACCCGGCGCCAAAGGCCAGTGACTACCAACGTTTGGACCAGAAGTCCTAA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_006464 unedited</p> <pre> ATTCGGCACGAGGGATGCGGTTTCGTTGGTTCCTGACCGTTCGACGAGCGGCGG GAGCCGTGCCGCTCTTGGCCACCGAAAGCGTCAAGCAAGAAGAAGCTGGAGTACGGCCTT CTGCAGGAAACGTCTCCACCCACCCAGCTTGGAGCAACGGCCTGGAGGCTTACCAAGT CGCATCCGGAGCCGACACTCCAAAAGACAGCCCTAGCAAGTCGAGTGGGAGGCGCAGA CCCCAGAAGACACCCCAACAAGTCGGGTGCGGAGGCAAAGACCCAAAAAGACAGCTCCA ACAAGTCGGGTGCGGAGGCAAAGACCCAAAAAGGCAGCACTAGCAAGTCGGGTTTCGGAGG CGCAGACCACAAAAGACAGCACTAGTAAGTCGCATCCGGAGCTGCAGACTCCAAAAGACA GCACTGGCAAATCGGGTTCGGAGGCGCAGACCCAGAAGACAGCCCAACAGGTCGGGTG CGGAGGCAAAGACCCAAAAAGACAGCCCTAGCAAGTCAGGTTTCGGAGGCGCAGACCACAA AAGATGTCCTAATAAGTCGGGTGCGGAGCGCCAGACCCAAAAAGACGGTCCAGCAAGT CGGGTTCGGAGGATCAGACCCAAAGACGTCCCTAACAGTCGGGTGCGGAGAAGCAGACT CCAAAAGACGGTCTAACAAGTCGGGTGCAGAGGAGCAGGGCCCAATAGACGGGCCCCAG CAGTCGGGTGCGGAGGAGCAGACCTCAAAGACAGCCCTAACAGGG </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_006464 unedited</p> <pre> NNGGGTACGACTATGNNACCGCGCCGCAATCTANGATCGATTTTTTTTTTTTTTTTTTTT TTGAGACGGAGTCTCGCTCTATTGGCAGGTTGGGAGTTCAGTGGCAGATCTCGGCTCAC TGCAACCTCCGCCTCCCGGATTCAAGCAATTCTCCTGCCTCAGCCTATCTAGTAGCTGGG ACTACAGGTGCACGTACCATGCCCGGCTAATTTTTGTATTTTTATTAAGACGGGGTTT CACCATGTTGGCCAGGATGGTCTCGATCTTTGACCTCGTATCCCCCGCCTCGGCCTC CCAAAGCGCTGGGATTACAGGGGAGCCACCGCGCCCGCCTTTTCTCAGTGCAATTTTT AAAGAGAACTTAAATCCTGTTGTATTCTTTCAACACAAGCAATGATACTTCTCAGAGTC TGCTCAAAGCTCAGCTCTGTGGACTCCGTGACAAAATGTACGCGTCCACTGCCGACCCT CTTGGTTTCTGAAACCAACCTTTCTTCTGCTCTCCTCTTTAAGAGCAAACCCCAACATG TATAAGGTACAGCAAGTGGTAGCCAGGAAAAGCTGTGGGACCCCTCATTTGAGTCACAT CCATATGGCATGGAGAAAAGAAACCTCTCTGCCAGAAGGAACTGAACTCTGGAAGTCCTA AGGAAGGTACCATGCTCAGCAGATAGGAAAGCATTGCCAAAGGCTGTCCCTCAAGAGCT TAGTTTTCTTAAGGAGACCAGAAAAGATCCGATCCTGACTGCCCTGTTTTGCTCAAGTTC TGAAATGAGTGGCATGAAGAAGAACTGGTGGAGCTGAGGGAAAGATCAACCTGTGGGGTG GGTAATAAAAAGAAAGTTTCTAAAAAACAACTGGCCCTTGAGAAACAGATCAATCGGA CAGGAGC </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006464
<b>Insert Size:</b>	4700 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_006464.2</a> , <a href="#">NP_006455.2</a>
<b>RefSeq Size:</b>	6345 bp
<b>RefSeq ORF:</b>	1314 bp
<b>Locus ID:</b>	10618
<b>UniProt ID:</b>	<a href="#">O43493</a>
<b>Cytogenetics:</b>	2p11.2
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the predominant transcript and encodes isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>