

## Product datasheet for **MC221468**

### Terb1 (NM\_180958) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Terb1 (NM_180958) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Terb1
Synonyms:	4930532D21Rik; BB085179; Ccdc79
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC221468 representing NM\_180958  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAAGTGAGAAGCCAAAGAAAACACAAGAAATGAAGACTGACCTGAAGTTACTGTTGGAATGTCTGA  
 AGTATCACATGGCAACCCCTTTGTCACAAAAGGAAGTTTTGATCACGATTCATTCAGTTTGTAAACAAAA  
 CAGTGTGCAGGTATTTATTTCCGGGAAATTGGTGGTTTATGTTTATAATAAACCTTGCAAAGTCAAGT  
 GAGCAGAGCTTGGTAAAAGAAGCAGCCTTATACACATTAGGATCTATTGCAGAAGAAAATGTTTACTGTC  
 AGCAATCTTTGTACTTCAGAATTATTTCAAGATTTAACCGGGCTTAACTAATGATGATTCAAACAC  
 AAATTTGAAAAGAATGTCTGTCTATGTTCTTTGGTTCTGGTTTCAAATAATAGAAATGGACAACTCTT  
 GTGAGAGAAGTGGTGTATTGAAGTCTGTGCACAGATGTTCCAGGACAGTCTTTCCAATTATGAGTTGA  
 ATTTGTCAGATAATAGTGTTCAGAGCTATCTGCTATGGTCGTCTGTGTGCAGTACTCTGTGTATG  
 TGCAACAATCCTCAAAATGATGAGAATCAAATGCTTTGTGTTCACTTTTCCATGTGTTAATGAATGG  
 CTAATGAACTGCATGAGACCTGAGGTAATTCGACCTATATGCTCATTATTTGGACTTACTCTTGCAAATA  
 ATACACACGCTCAGAAGTCTTTGTCTCTTCGGGTGGACTGGATGTTTTGTGTCAAGTCTTGTGACGCT  
 GGAGTCTGATTACACAATACTCTTCCAGTGCTAAGCTTGCAGTCATAGTGACAAAGACCATGGATGCA  
 TGTATTACTGATAACTCAGCTGCTTTTACAGTGGTATTATCCAAGTACCACATTGTTTCTACACTTCTGG  
 CATTACTGCTTCATGAAAGTCTTGATTCAAGAGAAAAATTTAGCATCATACTTGCCATTGGTCACTGCAC  
 AGAGGATTGTGAGAAAAATCAGTATGAACCTTTAAAAACAATGGGCTTCCATTGATGATACAAGCCTTA  
 ACTGAGTTAAGAATGAAGACCTAAGCAAAGCTGCCACTACGTGCTTCACAACTGCAAAAAAATTAAGT  
 GGAAATTAATCTAAGTCTAGGACAGAATCTTTTGGTGAAGTGAATGAAGTAAAGGACATAAGCGA  
 AAAAGAGACTCTTAGAGAGCACTGGAAGGCAGCAAGGAAATTCATGCAGAATAAAACAATTTGAAAAA  
 GGAGGGAAGAGGAGAAGCAACAAAACAGGAGTGGACACTATAAGGATAATACCCCATCTATGAAAGTAA  
 ACATACAGACCAATTTGAAACGTCTCTGTGCAGATAGTACTGGAGGTACCAGAGCAGAAGATAAGGATAT  
 AAACCAGTCTAGAGAGCTTCGCAGCTATAAGCCCAGTGAATCATGTCTAAAGCTTGTGCAAATGAAAC  
 CAACTGACGACTCGAAGAAGAACAATAATCCAGTTCATCCTTTCTGTAAGGAGAAAGGGCAGAGTAAAG  
 TTGTACATGAAACCACTCCAAGCTGTGCTCAAACTTAGACAAGGAAAAACCTTTGACCAAAAGGATTC  
 TGTTTCTCAATCGAGTGACCAGTCTTAAACATCTGCCTCATACTGTCAAAAAATAGAAAGCAGGTACCA  
 GAAACAGATCCATTTACATTGTGTTTAGACATAATAGATAGAGAAGTTGGTATTCAAGCAACTGACAGCT  
 GTTCCAGAAATGTTAAATATACGTGCTCAGGTTGCATAGTAGCAAGAAAACCTCAACAGCCGAAATTT  
 TAGCAAGTTTTGCACTCATGTGCATACCAAGTGTTCACCATAAAGTCATTATGGAAGCTGAAGACAAA  
 TATAAAAAATGAACTAAGGAAAACATTTATCTGTGCAAAAAAATTTGCTGACTCCCTGTAGAAGAAGAC  
 AACTTTGTAAAGAATCTACTGCCTCTGAAGAACTAAAAATTTGTTTCATCAAAAACAGATAGTAAAAA  
 TCCAGGTTTGGAGGCACAGGCCTTAAATACCAGCATTCCAGAGGCTATGGAAAGAAGATCACCAGTTCCA  
 GGCCAGAGTGGACTACATAAAAAAGAAGAATTCGTAAGACTTTACCAAGAAGAAGTAAATATCTTT  
 TCCATGGAGTTAAACAATGGGAAATCATTGGAATCAATTTTGGTCTTTCCCTTTCAGAAAGGACG  
 AAGGGCTGTAGACCTTGCTCACAAATACCACAGGCTGATCAAAGGCCCCAGCTGTGCAGCCCTG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_180958  
**Insert Size:** 2307 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_180958.3</a> , <a href="#">NP_851289.2</a>
<b>RefSeq Size:</b>	2950 bp
<b>RefSeq ORF:</b>	2307 bp
<b>Locus ID:</b>	320022
<b>UniProt ID:</b>	<a href="#">Q8C0V1</a>
<b>Cytogenetics:</b>	8 D3
<b>Gene Summary:</b>	Meiosis-specific telomere-associated protein involved in meiotic telomere attachment to the nucleus inner membrane, a crucial step for homologous pairing and synapsis (PubMed:24885367, PubMed:24413433, PubMed:26548954). Component of the MAJIN-TERB1-TERB2 complex, which promotes telomere cap exchange by mediating attachment of telomeric DNA to the inner nuclear membrane and replacement of the protective cap of telomeric chromosomes: in early meiosis, the MAJIN-TERB1-TERB2 complex associates with telomeric DNA and the shelterin/telosome complex. During prophase, the complex matures and promotes release of the shelterin/telosome complex from telomeric DNA (PubMed:26548954). In the MAJIN-TERB1-TERB2 complex, TERB1 probably mediates association with the shelterin/telosome complex via interaction with TERF1, promoting priming telomeric DNA attachment' (PubMed:26548954). Promotes telomere association with the nuclear envelope and deposition of the SUN-KASH/LINC complex (PubMed:24885367, PubMed:24413433). Also recruits cohesin to telomeres to develop structural rigidity (PubMed:24413433).[UniProtKB/Swiss-Prot Function]