

Product datasheet for **MG214398**

Terb2 (NM_028914) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: Terb2
Synonyms: 4933406J08Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG214398 representing NM_028914
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTCCAGGGGCAGCGTGGTTGGTCTGCGGCAGTGTCAAGTACAGGACCTGAGGCAAATCTGGGAGGACG
AAGGCGGGATGGTCAGCGACGTGAAGGCCCGGACTTCTGTTTAGCTGTGATGCCTCGCACCCTGACAC
GCTGAGAATATATCAGAGCCTCGAGTACATAGAAGATAATGCTACAGTTTTTCATGCCTACTATCTTGCT
GCAATAGCTAATACTGAAATGAAAAATTCAGTGGCCTTAGGCCATTTTGTCTTCTCCTGCATGTCTGC
AAAAAGAAATACGAAGAAAAATGGTAGTTTTATTGGGAACAAGATGAAAAATTCAGATAGAAAAGCA
TGACAGAATGGCATCAAGTGATAAGGAGAACATTAGACCAACACCAGAACAACAAGAAGTGTCCAAA
AGTGCAGAGCATCATCTACAAGGACTCCGGTTATAGAGAAGCAGATGTGCTTCCCGCTCCATAGTTATC
CAGTGAACAACATGGTGACAGGCTATATCAATTGATGCCTTGGAGAAATTCCTTGGAGAATTACATGA
CTTCACTCCTGGTAGCTCAGGATATTTGGCATATCATATTCAGATGAAATTAATATGTCTGCTATAAAA
AACAAATTAAGAAGGAACTAAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG214398 representing NM_028914
Red=Cloning site Green=Tags(s)

MFQGGQRGWFCGSVSQDLRQIWEDEGMVSDVKAADFLFSCDASHPDLRIYQSLEYIEDNATVHFAYYLA
AIASTEMKNSVALGHFVLPACLQKEIRRKIGSFIWEQDEKFQIEKHDRMASSDKENIRPTPEHKQELSK
SAEHLTRTPVIEKQMCFLHSYPVNMVMTGYISIDALEKFLGELHDFTPGSSGYLAYHIQDEINMSAIK
NKLRRKLS

TRTRPLE - GFP Tag - V



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_028914

ORF Size: 654 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: [NM_028914.1](#), [NP_083190.1](#)

RefSeq Size: 2111 bp

RefSeq ORF: 657 bp

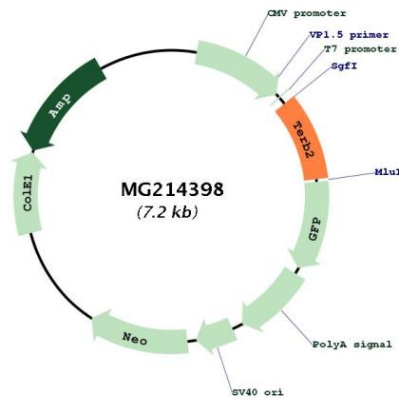
Locus ID: 74401

UniProt ID: [Q9D494](#)

Cytogenetics: 2 E5

Gene Summary: Meiosis-specific telomere-associated protein involved in meiotic telomere attachment to the nucleus inner membrane, a crucial step for homologous pairing and synapsis. Component of the MAJIN-TERBI-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-TERBI-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.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG214398