

## Product datasheet for **MG206137**

### Terf2ip (BC012270) Mouse Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | Terf2ip (BC012270) Mouse Tagged ORF Clone                                  |
| Tag:                      | TurboGFP   |
| Symbol:                   | Terf2ip  |
| Synonyms:                 | Rap1   |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-AC-GFP (PS100010)  |
| E. coli Selection:        | Ampicillin (100 ug/mL)   |
| ORF Nucleotide Sequence:  | >MG206137 representing BC012270<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGAGGCGATGGATCTGGGTAAAGACCCCAATGGGCCCACTCACTCCTCCACTCTGTTCTGTGAGAG  
AAGACGGCAGCGCCATGTCGTTTTACGTGCGGCCAGCTCGGCCAAGCGCCGGCTGTCGACGCTCATCCT  
GCACGGCGGCGGCACCGTGTGTCGGGTGCAGGAACCCGGAGCCGTGCTTCTCGCCAGCCCGGGGAGGCG  
CTGGCCGAGGCTTCGGGCGACTTCATCTCCACGCAGTACATCCTAGACTGCGTGGATCGCAACGAGAAGC  
TGGACCTGGAGGCTATCGGCTGGCCTGACGGAGCAGGCGTCCGATCCGAAGCCCGGGGCTTCCACCGA  
GGGCTCCACGGAACCCGGAGCCGACGCCCTGACCGGGCGCATCGCTACACCGACGCGGAAGATGTGGCC  
ATCCTGACCTACGTGAAGGAGAACGCCCGTTTCGCCAGCTCGGTACAGGCAATGCCTTGTGAAAGCGA  
TGGAGAAGAGCTCGCTCACGCAGCACTCCTGGCAGTCGCTCAAGGACCGCTACCTCAAGCACCTACGGGG  
TCAGGAGCACAAGTACCTGCTCGGGAACGCCCGGTGAGCCCGTCCCTCCAGAAGCTCAAACGGAAGGCG  
GAGCAGGACCCCGAGGCCGCGGATAGCGGAGAGCCACAGAACAAGAGAGCGCCAGACTTGCTGAGGAGG  
AGTGTGTAAAGGAGAGATCAAGGAGAAATGGAGAGGCAGACAACAAGCTGTTTGAGGAAGCCGCTCCGGA  
GTTCCGGAAGCCGTGGTGGATGAGAGCCCTGACTTTGAAATACATATAACGATGTGTGATGGTGATCCA  
CCACACCCGAGGAAGACTCAGAAACACAGCCAGACGAGGAGGAAGAAGAACAAAAGTTTCTACGCAAG  
AAGTGGGAAGTGCATTAAAGGTGATCCGGCAGCTAATGGAGAAGTTCAACTTGGATCTATCAACAGTTAC  
ACAGGCCTTGCTGAAGAACAGTGGTGGAGCTGGAGGCCACGTCCTCCTTCTTAGAGTCGGGCGGAGACCC  
GACGGTTATCCCATTTGGTGCAGACAAGATGACTTAGATTTGCAGAAGGACGATGACGACACGAAAAATG  
CACTGGTCAAAAAGTTTGGAGCTCAGAACGTTGCTCGGAGGATTGAATCCGAAAGAAA

**ACCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG206137 representing BC012270  
 Red=Cloning site Green=Tags(s)

MAEAMD LGKDPNGP THSSTLFVREDGSAMSFYVRPSSAKRRLSTLILHGGGTVCRVQEPGAVLLAQPGEA  
 LAEASGDFISTQYILDCVDRNEKLDLEAYRLGLTEQASDPKPGASTEGSTEPEPQPLTGRIAYTDAEDVA  
 ILTYVKENARSPSSVTGNALWKAMEKSSLTQHSWQSLKDRYLKHLRGQEHKYLGNAPVSPSSQKLKRKA  
 EQDPEAADSGEPQNKRAPDLPEEECVKGEIKENGEADNKLFEAAPEFGEAVVDESPDFEIHITMCDGDP  
 PTPEEDESTQPDEEEEEPKVSTQEVGTAIKVIRQLMEKFNLDLSTVTQALLKNSGELEATSSFLGSRPP  
 DGYPIWCRQDDLQKDDDDTKNALVKKFQAQNVARRIEFRKK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC012270

**ORF Size:** 1181 bp

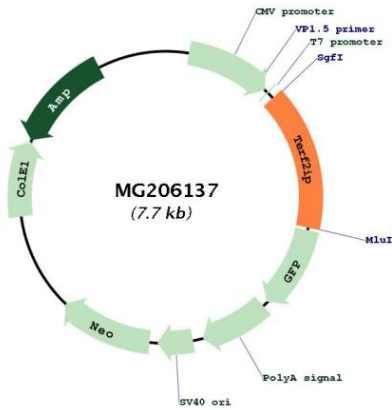
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

|                               |   |
|-------------------------------|---|
| <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>                | <u><a href="#">BC012270</a></u> , <u><a href="#">AAH12270</a></u>   |
| <b>RefSeq Size:</b>           | 2205 bp   |
| <b>RefSeq ORF:</b>            | 1181 bp   |
| <b>Locus ID:</b>              | 57321   |
| <b>Cytogenetics:</b>          | 8 E1  |
| <b>Gene Summary:</b>          | Acts both as a regulator of telomere function and as a transcription regulator. Involved in the regulation of telomere length and protection as a component of the shelterin complex (telosome). In contrast to other components of the shelterin complex, it is dispensible for telomere capping and does not participate in the protection of telomeres against non-homologous end-joining (NHEJ)-mediated repair. Instead, it is required to negatively regulate telomere recombination and is essential for repressing homology-directed repair (HDR), which can affect telomere length. Does not bind DNA directly: recruited to telomeric double-stranded 5'-TTAGGG-3' repeats via its interaction with TERF2. Independently of its function in telomeres, also acts as a transcription regulator: recruited to extratelomeric 5'-TTAGGG-3' sites via its association with TERF2 or other factors, and regulates gene expression. When cytoplasmic, associates with the I-kappa-B-kinase (IKK) complex and acts as a regulator of the NF-kappa-B signaling by promoting IKK-mediated phosphorylation of RELA/p65, leading to activate expression of NF-kappa-B target genes.[UniProtKB/Swiss-Prot Function] |

Product images:



Circular map for MG206137