

## Product datasheet for **MG211647**

### Boc (NM\_172506) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Boc (NM_172506) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Boc
Synonyms:	4732455C11; mFLJ00376
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211647 representing NM_172506 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACGACGTGCCGAAGAGAGCGGCCTATACTTACACTGCTTTGGATTCTCATGGCCACAGCAGGCTGCC  
TTGCTGATTTGAATGAGGTTCTCAGGTACAGTCCAGCCATGTCCACTGTCCAGAAGCTGGGAGGAAC  
TGTGATCTGGGCTGTGTGGTGGAGCCACCATGGATGAACGTGACTTGGCGCTTCAACGGAAAGGAGCTA  
AATGGCTCTGATGATGCTCTGGGTGTCTCATCACCCGTGGGACCCTTGTATTGCTGCCCTCAACAACC  
ACACTGTGGGACGGTACCAGTGTGTGGCAGGATGCCTGCAGGAGCTGTGGCCAGTGTGCCAGCCACAGT  
GACGCTAGCCAATCTCCAGGACTTTAAATTAGATGTGCAGCATGTGATTGAAGTAGACGAGGGGAACACA  
GCCGTCATTGCCTGCCACCTGCCTGAGAGCCACCCAAAAGCCAGGTCCGGTACAGTGTCAAACAGGAGT  
GGCTGGAGGCCTCTAGAGACAACCTACCTGATCATGCCATCCGGGAATCTCCAAATTTGTAATGCCAGCCA  
AGAGGACGAAGGCATGTACAAGTGTGCCGCTACAACCCGGTGACCCAGGAAGTAAAACCTCCGGCTCC  
GGCGACAGGCTGCGCGTGCAGGCTCCACTGCTGAGGCTGCCCGCATCATCTACCCACTGGAAGCCAGA  
CCGTATTGTACCAAAGGCCAGAGTCTCATACTGGAGTGTGTGGCCAGTGGAAATCCACCACCTCGAGT  
CACATGGGCCAAGGATGGGTCCAGCATTGCTGCCTATAACAAGACTCGCTTCTGCTGAGTAATTTGCTT  
ATTGACACCACCAGCGAGGAGGACTCAGGCACCTACCGATGTATGGCCAGCAATGGGTTGGGGATCCTG  
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GGTCATCCATGGGGCCAGAGTGCAAAGCTCACCTGTGAGGTTGAGGAAACCCCCACCCTCTGTACTA  
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CGCCATGAGGGGAGCAGCCGGACACCCATCCTGTACTACGTAGTGAAGCATCGTAAGGTCACGAACCTCT
CTGACGACTGGACCATTCTGGCATTCCAGCAACCAGCACCCGCCTCACCTGACCAGGCTTGACCCCTGG
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CAGGTTGCCAGAGTCCCAGTGTGCCTCAGGAGTAGGAGCTTTCTTATACAGCTGCCTGATGACTCAA
CTCACCAGTGTCCAACCTCAAGACTGCTGTACCTCCAGAAGCAACCCGTACCACATGCCAAACAGC
AGTGAGGCGAACGTCTGAAAGTCTGGACTAGAACTCTTTCATGGGACCCTCCATATATCCAGGGCCCGAG
TGCTGTTTAGGTCTGTACAGTTGAAGAAGTAGACAGTTCTGACTCCTGCCAAGTGGGTGGAGGAGACT
GGAGTTCACAGCATCCATCAGGGACCTACACAGGACAGGAACGTGGGATGCGGTTCTCGCCTAGCCCATC
AGTTCATGTGCTCTTGAACACCACCTCCACAATT
```

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG211647 representing NM\_172506  
 Red=Cloning site Green=Tags(s)

```
MTTCRRERPILLLWILMATAGCLADLNEVPQVTVQPMSTVQKLGTVILGCVVEPPWMNVTWRFNGKEL
NGSDDALGVFITRGTLVIAALNNHTVGRYQCVARMPAGAVASVPATVTLANLQDFKLDVQHVIEVDEGNT
AVIACHLPESHKAQVRYSVKQEWLEASRDNYLIMPSTGNLQIVNASQDEDEGMYKCAAYNPVTQEVKTSGS
GDRLRVRSTAEAAARIYPLEAQTIVIVTKGQSLILECVASGIPPPRVTWAKDGSSIAAYNKTRFLLSNLL
IDTTSEEDSGTYRCMASNGVDPVAAVILYNVQVFEPPEVTVELSQLVIPWQS AKLTCEVRGNPPPSVL
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ATPPMPPSRPSRPDQMLREQPGLVKPPTSSVQPTSLKCPGEEQVAPAEAPIILSSPRTSKTDSYELVWRP
RHEGSSRTPILYYVVKHRKVTNSDDWTISGIPANQHRLTLRLDPGSLYEVEMAAYNCAGEGQTAMVTF
RTGRRPKPEIVASKEQQIQRDDPGASLQSSQPDHGR LSPPEAPDRPTISTASETSVYVWIPRNGGGFP
IQSFRVEYKLLKVGDWILATSAIPPSRLSVEITGLEKGISYKFRVRALNMLGESEPSAPSRPYVSGYS
GRVYERP VAGPYITFTDAVNETT IMLKWMYIPASNNTPIHGFYIYYRPTDSDNDSYKMDMVEGDRYWH
SISHLQPETS YDIKMQCFNEGGESEFSNMVICETKARKFSGQPGRPPPLTAPPQPPPLETMRPVGTGA
MVARASDL PYLIVGVVLSIVLIIVTFIPFCLWRAWKQKHTTDLGFP RSALLSSSQYTMVPLEGLPGH
QANGQPYLGGVSGRACVSRVHGSRGCPAATVGCPRKPKQHCPELAQREDTNSQLRQPIVSNGYDLQNQ
QVARGPQCASGVGAFLYTL PDDSTHQLLQPQDCCHLQKQPVTTCQTAVRRTSESPGLESSWDPYPYHSGPQ
CCLGLVPVEVDSSDSCQVGGGWSSQHPSGTYTGQERGMRFSPSPSVHVSFETPPPTI
```

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_172506

**ORF Size:** 3327 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.

**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.

RefSeq: [NM\\_172506.1, NP\\_766094.1](#)

RefSeq Size: 4429 bp

RefSeq ORF: 3333 bp

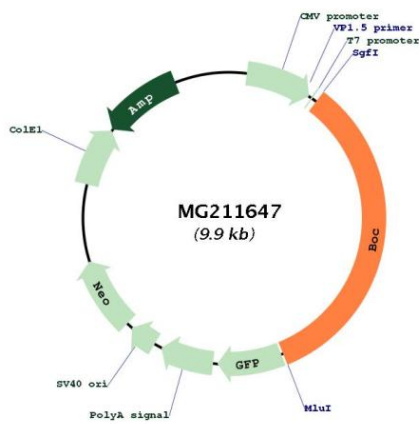
Locus ID: 117606

UniProt ID: [Q6AZB0](#)

Cytogenetics: 16 B4

Gene Summary: Component of a cell-surface receptor complex that mediates cell-cell interactions between muscle precursor cells. Promotes differentiation of myogenic cells.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG211647