

Product datasheet for MR211647

Boc (NM_172506) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Boc (NM_172506) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Boc
Synonyms:	4732455C11; mFLJ00376
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211647 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACGACGTGCCGAAGAGAGCGGCCTATACTTACACTGCTTTGGATTCTCATGGCCACAGCAGGCTGCC
TTGCTGATTTGAATGAGGTTCTCAGGTACAGTCCAGCCATGTCCACTGTCCAGAAGCTGGGAGGAAC
TGTGATCTGGGCTGTGTGGTGGAGCCACCATGGATGAACGTGACTTGGCGCTTCAACGGAAAGGAGCTA
AATGGCTCTGATGATGCTCTGGGTGTCTCATCACCCGTGGGACCCTTGTATTGCTGCCCTCAACAACC
ACACTGTGGGACGGTACCAGTGTGTGGCAGGATGCCTGCAGGAGCTGTGGCCAGTGTGCCAGCCACAGT
GACGCTAGCCAATCTCCAGGACTTTAAATTAGATGTGCAGCATGTGATTGAAGTAGACGAGGGGAACACA
GCCGTCATTGCCTGCCACCTGCCTGAGAGCCACCCAAAAGCCAGGTCCGGTACAGTGTCAAACAGGAGT
GGCTGGAGGCCTCTAGAGACAACCTACCTGATCATGCCATCCGGGAATCTCCAAATTTGCAATGCCAGCCA
AGAGGACGAAGGCATGTACAAGTGTGCCGCTACAACCCGGTGACCCAGGAAGTAAAACCTCCGGCTCC
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CCGTATTGTACCAAAGGCCAGAGTCTCATACTGGAGTGTGTGGCCAGTGGAAATCCACCACCTCGAGT
CACATGGGCCAAGGATGGGTCCAGCATTGCTGCCTATAACAAGACTCGCTTCTGCTGAGTAATTTGCTT
ATTGACACCACCAGCGAGGAGACTCAGGCACCTACCGATGTATGGCCAGCAATGGGTTGGGGATCCTG
TGGCAGCAGTCATCCTCTACAATGTCCAGGTGTTCAACCCCTGAGGTACGGTGGAGCTGTCCAGCT
GGTCATCCATGGGGCCAGAGTGCAAAGCTCACCTGTGAGGTTGAGGAAACCCCCACCCTCTGTACTA
TGGCTGAGGAATGCAGTGCCCTCACCTCCAGCCAGCGCTCCGGCTGTACGTAGAGCCCTGCGGGTGG
TCAGTGTGGGCCAGAGGACGAAGGCGTGTACCAGTGCATGGCTGAGAATGCGGTTGGCAGTGCCACGC
TGTGGTCCAACCTGAGGACCGCCCGCCAGACACAACCCTGAGACCCGGGAGGGATACCAAGCCGATTGCT
GCCACACCCCATGCCACCTCCAGACCCAGCAGACCTGACCAGATGCTTCGGGAACAACCGGGGCTTG
TTAAGCCCCAACGTCGTCGGTACAGCCTACTTCCCTGAAGTGCCCGGGAGAAGAGCAGGTAGCCCTGC
AGAGGCACCTATCATCTCAGCTCACCCGGACCTCCAAGACGGACTCCTATGAGCTGGTGTGGCGCCT



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CGCCATGAGGGGAGCAGCCGGACACCCATCCTGTACTACGTAGTGAAGCATCGTAAGGTCACGAACTCCT
 CTGACGACTGGACCATTCTGGCATTCCAGCAACCAGCACCCGCCTCACCTGACCAGGCTTGACCCCTGG
 AAGCTTGACGAAGTGGAGATGGCAGCCTACAAGTGTGCTGGCGAGGGCCAGACAGCTATGGTCACCTTC
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 GGAGTTCACAGCATCCATCAGGGACCTACACAGGACAGGAACGTGGGATGCGGTTCTCGCCTAGCCCATC
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Protein Sequence:

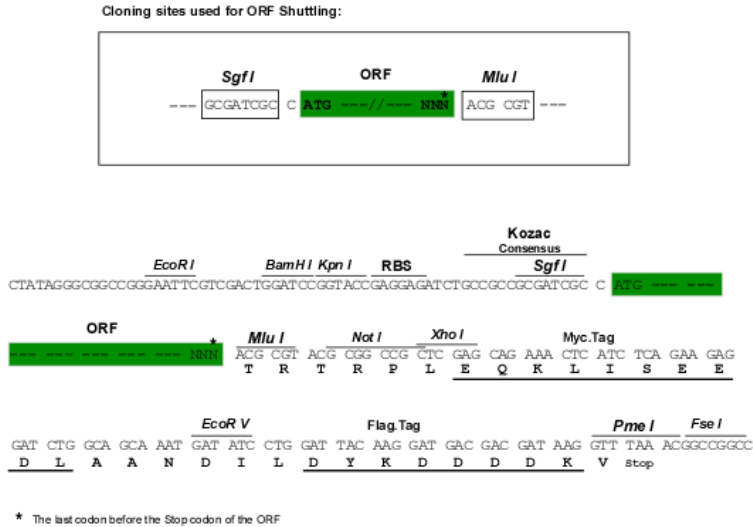
>MR211647 protein sequence
 Red=Cloning site Green=Tags(s)

MTTCRRERPIL TLLWILMATAGCLADLNEVPQVTVQPMSTVQKLGSTVILGCVVEPPWMMNVTWRFNGKEL
 NGSDDALGVF ITRGTLVIAALNNHTVGRYQCVARMPAGAVASVPATVTLANLQDFKLDVQHVIEVDEGNT
 AVIACHLPESHKAQVRYSVKQEWLEASRDNYLIMPSGNLQIVNASQEDEGMYKCAAYNPVTQEVKTSGS
 GDRLRVRSTAEARIIYPLEAQTIVIVTKGQSLILECVASGIPPPRVTWAKDGSSIAAYNKTRFLLSNLL
 IDTTSEEDSGTYRCMASNGVDPVAAVILYNVQVFEPPEVTVELSQLVIPWQS AKLTCEVRGNPPPSVL
 WLRNAVPLTSSQRLRLSRRALRVVSVGPEDEGVYQCMANAVGSAHAVVQLRTARPD TTLRPGRDTPKPIA
 ATPMPPSRPSRPDQMLREQPGLVKPPTSSVQPTSLKCPGEEQVAPAEAPIILSSPRTSKTDSYELVWRP
 RHEGSSRTPILYYVVKHRKVTNSDDWTISGIPANQHRLTLRLDPGSLYEVEMAAYNCAGEGQTAMVTF
 RTGRRPKPEIVASKEQQIQRDDPGASLQSSQPDHGR LSPPEAPDRPTISTASETSVYVWTWIPRNGGFP
 IQSFRVEYKLLKVGDWILATSAIPPSRLSVEITGLEKGISYKFRVRALNMLGESEPSAPSRPYVVS GYS
 GRVYERP VAGPYITFTDAVNETT IMLKWMYIPASNNTPIHGFIYYRPTSDNDSYKDMVEGDRYWH
 SISHLQPETS YDIKMQCFNEGGESEF SNVMICETKARKFSGQPGRPPPL TLAPPQPPPLETMERPVGTGA
 MVARASDLPYLIVGVVLGSIVLIIIVTFIPFCLWRAWKQKHTTDLGFPR SALLSSSCQYTMVPLEGLPGH
 QANGQPYLGGVSGRACVSRVHSGRGC PAATVGCPGRKPQQHCPGELAQREDTNSQLRQPIVSNGYDLQNG
 QVARGPQCASGVGAFLYLTPDDSTHQLLQPQDCCHLQKQPVTTCQTAVRR TSESPGLESSWDPYPYHSGPQ
 CCLGLVPVEEVDSSDSCQVGGDWSSQHPSGTYTGQERGMRFSPSPSVHVSFETPPPTI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_172506

ORF Size: 3330 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 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](#)

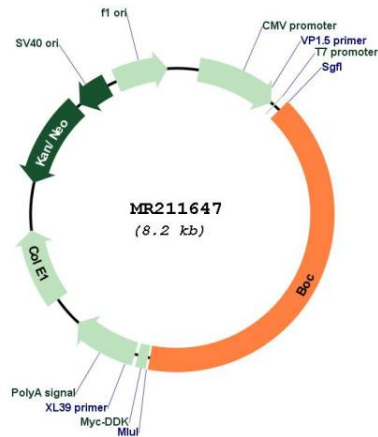
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_172506.1, NM_172506.2, NP_766094.1</u>
RefSeq Size:	4428 bp
RefSeq ORF:	3333 bp
Locus ID:	117606
UniProt ID:	<u>Q6AZB0</u>
Cytogenetics:	16 B4
MW:	121.2 kDa
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 MR211647