

Product datasheet for **RC239980**

BOC (NM_001301861) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BOC (NM_001301861) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: BOC
Synonyms: CDON2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC239980 representing NM_001301861
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTGCGTGGGACGATGACGGCGTGGAGAGGAATGAGGCCTGAGGTCACACTGGCTTGCCCTCCTAG
CCACAGCAGGCTGCTTTGCTGACTTGAACGAGGTCCTCAGGTCACCGTCCAGCCTGCGTCCACCGTCCA
GAAGCCCGGAGGCACTGTGATCTTGGGCTGCGTGGTGAACCTCCAAGGATGAATGTAACCTGGCGCCTG
AATGGAAAAGGAGCTGAATGGCTCGGATGATGCTCTGGGTGCTCCTATCACCCACGGGACCCTCGTATCA
CTGCCCTTAACAACCACACTGTGGGACGGTACCAGTGTGTGGCCCGGATGCTGCGGGGGCTGTGGCCAG
CGTGCCAGCCACTGTGACACTAGCCAATCTCCAGGACTTCAAGTTAGATGTGCAGCACGTGATTGAAGTG
GATGAGGGAAACACAGCAGTCAATTGCCCTGCCACCTGCCTGAGAGCCACCCCAAAGCCAGGTCGGTACA
GCGTCAAACAAGAGTGGCTGGAGGCCTCCAGAGGTAACACTGATGATGCCCTCAGGGAACCTCCAGAT
TGTGAATGCCAGCCAGGAGGACGAGGGCATGTACAAGTGTGCAGCCTACAACCCAGTGACCCAGGAAGTG
AAAACCTCCGGCTCCAGCGACAGGCTACGTGTGCGCCGCTCCACCGCTGAGGCTGCCCGCATCATCTACC
CCCCAGAGGCCAAACCATCATCGTCACCAAAGGCCAGAGTCTCATTCTGGAGTGTGGCCAGTGGAAAT
CCCACCCACCGGTCACTGGCCAAGGATGGGTCCAGTGTACCCGGCTACAACAAGACGCGCTTCTCTG
CTGAGCAACCTCCTCATCGACACCACGAGGAGGACTCAGGCACCTACCGCTGCATGGCCGACAATG
GGGTTGGGAGCCCGGGGAGCGGTATCCTCTACAATGTCCAGGTGTTGAACCCCTGAGGTCACCAT
GGAGCTATCCCAGCTGGTCACTCCCTGGGGCCAGAGTGCCAAGCTTACCTGTGAGGTGCGTGGGAACCC
CCGCCCTCGTGTGCTGAGGAATGCTGTGCCCTCATCTCCAGCCAGCGCTCCGGCTCTCCCGCA
GGGCCCTGCGGTGCTCAGCATGGGCCTGAGGACGAAGGCGTCTACCAGTGCATGGCCGAGAACGAGGT
TGGGAGCGCCATGCCGTAGTCCAGCTGCGGACCTCCAGGCCAAGCATAACCCAAAGGCTATGCCAGGAT
GCTGAGCTGGCTACTGGACACCTCCTGTATCACCTCCAAACTCGGCAACCTGAGCAGATGCTGAGGG
GGCAACCGGCGCTCCCCAGACCCCAACGTCAAGTGGGGCCTGCTTCCCGCAGTGTCCAGGAGAGAGGG
GCAGGGGGCTCCCGCGAGGCTCCCATATCCTCAGCTCGCCCGCACCTCCAAGACAGACTCATATGAA
CTGGTGTGGCGGCTCGGCATGAGGGCAGTGGCCGGGCGCAATCCTCTACTATGTGGTGAACACCGCA



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AGCAGGTCACAAATTCCTCTGACGATTGGACCATCTCTGGCATTCCAGCCAACCAGCACC GCCTGACCCCT
 CACCAGACTTGACCCCGGGAGCTTGATGAAGTGGAGATGGCAGCTTACAACGTGCGGGGAGAGGGCCAG
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 TACAACAGACCTGGGTTTTCTCGAAGTGCCCTTCCACCTCCTGCCCGTATACTATGGTGCCATTGGGA
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 AAGTGAGTGGAGGAGACTGGTGTCCCCAGCACCCTAGGGGCTACGTAGGACAGGAACCTGGAATGCA
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Protein Sequence:

>RC239980 representing NM_001301861
 Red=Cloning site Green=Tags(s)

MLRGTMTAWRMRPEVTLACLALLATAGCFADLNEVPQVTVPASTVQKPGGTIVILGCVVEPPRMNVTWRL
 NGKELNGSDDALGVLITHGTLVITALNNHTVGRYQCVARMPAGAVASVPATVTLANLQDFKLDVQHVEV
 DEGNTAVIACHLPESHKAQVRYSVKQEWLEASRGNLIMP SGNLQIVNASQEDEGMKYCAA YNPVTQEV
 KTSGSSDRLRVRSTAEAAARI IYPPEAQT IIVTKGQSLILECVASGIPPPRVTWAKDGSSVTGYNKTRFL
 LSNLLIDTTSEEDSGTYRCMADNGVGPAAVILYNVQVFEPPEVTMELSQLVIPWGQS AKLTCEVRGNP
 PPSVLWLRNAVPLISSQRLRLSRRALRVL SMGPEDEGVYQCM AENEVGS AHAVVQLRTSRP SITPRLWQD
 AELATGTPPVSPSKLGNPEQMLRGQPALPRPPTS VGPASPQCPGEGKQGAPAEAP IILSSPRTSKTD SYE
 LVWRPRHEGSGRAPILYYVVKHRKQVTNSSDDWTISGIPANQHRLTLTRLDPGSLYEVEMAA YNCAGEGQ
 TAMVTFRTGRPRKPEIMASKEQQIQRDDPGASPQSSSQPDHGR LSPPEAPDRPTISTASETSVYVTWIPR
 GNGGFP IQSFRVEYKKLKVGDWILATS AIPPSRLSVEITGLEKGT SYKFRVRALNMLGESEPSAPSRPY
 VVSGYSGRVYERP VAGPYITFTDAVNETTIMLKWMI PASNNNTPIHGFYIYYRPTDSNDSDYK KDMVE
 GDKYWHSI SHLQPETS YDIKMQCFNEGGESEFSNVMICETKARKSSGQPGR LPPPTLAPPQPLPETIER
 PVGTGAMVARSSDLPYLIVGVVLGSI VLIIVTFIPFCLWRASKQKHTTDLGFP RSALPPS CPYTMVPLG
 GLPGHQASGQP YLSGISGRACANGIHMNRGCP SAAVGYPMK PQQHCPGELQQQSDTSSLR LQTHLGN Y
 DPQSHQITRGP KSSPDEGSFLYTL PDDSTHQLLQPHHCCQRQE QPAAVGQSGVRRAPDSPVLEAVWDP P
 FHSGPPCCLGLVPVEEVSPDSCVQVSGDWCPQHVPV GAYVQEPGMQLSPGPLVRV SFETPPLTI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

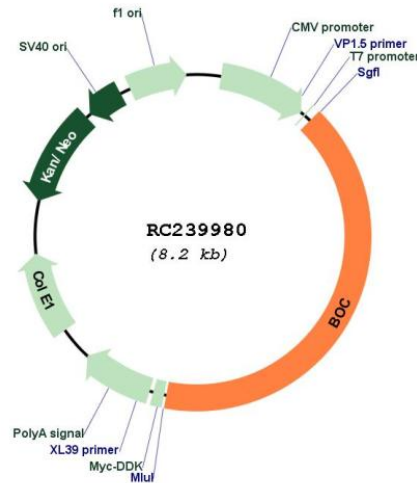
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001301861

ORF Size: 3345 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:	<ol style="list-style-type: none">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_001301861.2</u>
RefSeq Size:	4339 bp
RefSeq ORF:	3348 bp
Locus ID:	91653
UniProt ID:	<u>Q9BWV1</u>
Cytogenetics:	3q13.2
Protein Families:	Druggable Genome, Transmembrane
MW:	121.6 kDa
Gene Summary:	The protein encoded by this gene is a member of the immunoglobulin/fibronectin type III repeat family. It is a component of a cell-surface receptor complex that mediates cell-cell interactions between muscle precursor cells, and promotes myogenic differentiation. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2014]