

Product datasheet for **SC305601**

BOC (NM_033254) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: BOC (NM_033254) Human Untagged Clone
Tag: Tag Free
Symbol: BOC
Synonyms: CDON2
Vector: pCMV6 series
Fully Sequenced ORF: >NCBI ORF sequence for NM_033254, the custom clone sequence may differ by one or more nucleotides

```

ATGCTGCGTGGGACGATGACGGCGTGGAGAGGAATGAGGCCTGAGGTCACACTGGCTTGC
CTCCTCCTAGCCACAGCAGGCTGCTTTGCTGACTTGAACGAGGTCCTCAGGTCACCGTC
CAGCCTGCGTCCACCGTCCAGAAGCCGGAGGCACTGTGATCTTGGGCTGCGTGGTGGAA
CCTCAAGGATGAATGTAACCTGGCGCCTGAATGGAAAGGAGCTGAATGGCTCGGATGAT
GCTCTGGGTGCTCCTCATACCCACGGGACCCTCGTCATCACTGCCCTTAAACAACCACACT
GTGGGACGGTACCAGTGTGTGGCCGGATGCCTGCGGGGGCTGTGGCCAGCGTGCCAGCC
ACTGTGACACTAGCCAATCTCCAGGACTTCAAGTTAGATGTGCAGCACGTGATTGAAGTG
GATGAGGGAAACACAGCAGTCATTGCCTGCCACCTGCCTGAGAGCCACCCAAAGCCAG
GTCCGGTACAGCGTCAAACAAGAGTGGCTGGAGGCCTCCAGAGGTAACCTACCTGATCATG
CCCTCAGGGAACCTCCAGATTGTGAATGCCAGCCAGGAGGACGAGGGCATGTACAAGTGT
GCAGCCTACAACCCAGTGACCCAGGAAGTAAAACCTCCGGCTCCAGCGACAGGCTACGT
GTGCGCGCTCCACCGCTGAGGCTGCCCGCATCATCTACCCCCAGAGGCCAAACCATC
ATCGTACCAAAGGCCAGAGTCTCATTCTGGAGTGTGTGGCCAGTGAATCCCACCCCA
CGGGTACCTGGGCAAGGATGGGTCCAGTGTACCCGGCTACAACAAGACGCGCTTCCTG
CTGAGCAACCTCCTCATCGACACCACCAGCGAGGAGGACTCAGGCACCTACCGCTGCATG
GCCGACAATGGGTTGGGCAGCCCGGGGAGCGGTATCCTCTACAATGTCCAGGTGTTT
GAACCCCTGAGGTCACCATGGAGCTATCCCAGTGGTCAATCCCTGGGGCCAGAGTGCC
AAGCTTACCTGTGAGGTGCGTGGGAACCCCGCCCTCCGTGCTGTGGCTGAGGAATGCT
GTGCCCTCATCTCCAGCCAGCGCTCCGGCTCTCCCGCAGGGCCCTGCGCGTGTCTCAGC
ATGGGGCCTGAGGACGAAGGCGTCTACCAGTGCATGGCCGAGAACGAGGTTGGGAGCGCC
CATGCCGTAGTCCAGCTGCGGACCTCCAGGCCAAGCATAACCCCAAGGCTATGGCAGGAT
GCTGAGCTGGCTACTGGCACACCTCCTGTATCACCTCCAAACTCGGCAACCTGAGCAG
ATGCTGAGGGGGCAACCGCGCTCCCCAGACCCCAACGTCAGTGGGGCTGCTTCCCCG
CAGTGTCCAGGAGAGAAGGGGCAGGGGGCTCCCGCCGAGGCTCCCATCATCTCAGCTCG
CCCCGCACCTCCAAGACAGACTCATATGAACTGGTGTGGCGGCCCTCGGCATGAGGGCAGT
GGCCGGGCGCAAATCCTCTACTATGTGGTGAACACCGCAAGGTCACAAATTCCTCTGAC
GATTGGACCATCTCTGGCATTCCAGCCAACCAGCACCGCTGACCCTCACCAGACTTGAC
CCCGGGAGCTTGATGAAGTGGAGATGGCAGCTTAAACTGTGCGGGAGAGGGCCAGACA
GCCATGGTCACCTTCCGAACTGGACGGCGGCCAAACCCGAGATCATGGCCAGCAAAGAG

```



[View online >](#)

CAGCAGATCCAGAGAGACGACCCCTGGAGCCAGTCCCCAGAGCAGCAGCCAGCCAGACCAC
 GGCCGCCTCTCCCCCAGAAAGCTCCCGACAGGCCACCATCTCCACGGCCTCCGAGACC
 TCAGTGTACGTGACCTGGATTCCCCGTGGGAATGGTGGGTTCCTCAATCCAGTCCTTCCGT
 GTGGAGTACAAGAAGCTAAAGAAAGTGGGAGACTGGATTCTGGCCACCAGCGCCATCCCC
 CCATCGCGGCTGTCCGTGGAGATCACGGGCCTAGAGAAAGGCACCTCCTACAAGTTTCGA
 GTCCGGGCTCTGAACATGCTGGGGAGAGCGAGCCAGCGCCCCCTCTCGGCCCTACGTG
 ACGGATGCGGTCAATGAGACCACCATCATGCTCAAGTGGATGTACATCCCAGCAAGTAAC
 AACAAACCCCAATCCATGGCTTTTATATCTATTATCGACCCACAGACAGTGACAATGAT
 AGTGACTACAAGAAGGATATGGTGAAGGGGACAAGTACTGGCACTCCATCAGCCACCTG
 CAGCCAGAGACCTCTACGACATTAAGATGCAAGTCTTCAATGAAGGAGGGGAGAGCGAG
 TTCAGCAACGTGATGATCTGTGAGACCAAAGCTCGGAAGTCTTCTGGCCAGCCTGGTCGA
 CTGCCACCCCAACTCTGGCCCCACCACAGCCGCCCTTCTGAAACCATAGAGCGGCCG
 GTGGGCACTGGGGCCATGGTGGCTCGCTCCAGCGACCTGCCCTATCTGATTGTGGGGTC
 GTCTGGGCTCCATCGTTCTCATCATCGTCACCTTCATCCCTTCTGCTTGTGGAGGGCC
 TGGTCTAAGCAAAAACATACAACAGACCTGGGTTTTCTCGAAGTGCCCTTCCACCTCC
 TGCCCGTATACTATGGTGCCATTGGGAGGACTCCCAGGCCACCAGGCCAGTGACAGCCC
 TACCTCAGTGGCATCAGTGGACGGGCTGTGCTAATGGGATCCACATGAATAGGGGCTGC
 CCCTCGGCTGCAGTGGGCTACCCGGGCATGAAGCCCCAGCAGCACTGCCAGGCGAGCTT
 CAGCAGCAGAGTGACACCAGCAGCCTGTGAGGAGAGCCATCTTGGCAATGGATATGAC
 CCCAAAGTCACCAGATCAGGAGGGTCCCAAGTCTAGCCCGGACGAGGGCTCTTTCTTA
 TACACACTGCCGACGACTCCACTCACCAGCTGCTGCAGCCCCATCAGACTGCTGCCAA
 CGCCAGGAGCAGCCTGCTGTGGGCCAGTCAGGGGTGAGGAGAGCCCCGACAGTCT
 GTCTGGGAAGCAGTGTGGGACCCTCCATTTCACTCAGGGCCCCATGCTGCTTGGGCTT
 GTGCCAGTTGAAGAGGTGACAGTCTGACTCCTGCCAAGTGAAGTGGAGGAGACTGGTGT
 CCCCAGCACCCCGTAGGGGCTACGTAGGACAGGAACCTGGAATGCAGCTCTCCCCGGG
 CCACTGGTGCCTGTCTTTTGAACACCACCTCTCACAATTTAG

Restriction Sites:

Please inquire

ACCN:

NM_033254

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_033254.2](#), [NP_150279.1](#)

RefSeq Size: 4293 bp

RefSeq ORF: 3345 bp

Locus ID: 91653

UniProt ID: [Q9BWV1](#)

Cytogenetics: 3q13.2

Protein Families: Druggable Genome, Transmembrane

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]
Transcript Variant: This variant (2) differs in the 5' UTR, and uses an alternate in-frame splice site in the 5' coding region, compared to variant 1. It encodes isoform 2 which is shorter than isoform 1.