

Product datasheet for **RC236140**

BOC (NM_001301867) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BOC (NM_001301867) 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: >RC236140 representing NM_001301867
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCTGCGTGGGACGATGACGGCGTGGAGAGGAATGAGGCCTGAGGTCACTGGCTTGCCTCCTCCTAG
CCACAGCAGGCTGCTTTGCTGACTTGAACGAGGTCCTCAGGTCACCGTCCAGCCTGCGTCCACCGTCCA
GAAGCCCGGAGGCACTGTGATCTTGGGCTGCGTGGTGAACCTCCAAGGATGAATGTAACCTGGCGCCTG
AATGGAAAGGAGCTGAATGGCTCGGATGATGCTCTGGGTGTCCTCATCACCCACGGGACCTCGTCATCA
CTGCCCTTAACAACCACACTGTGGGACGGTACCAGTGTGTGGCCCGGATGCCGCGGGGGCTGTGGCCAG
CGTGCCAGCCACTGTGACACTAGCCAGTGTGCTCTCTTTGCCTCCCTGCCATGGTGGGTCCCTCCT
CATCTCTCCACCTGAAGCCCCACCATTTCATGCTGCCTCTTGTACTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236140 representing NM_001301867
Red=Cloning site Green=Tags(s)

MLRGTMTAWRMRPEVTLACLLLATAGCFADLNEVPQVTVQPASTVQKPGGTVILGCVVEPPRMNVTWRL
NGKELNGSDDALGVLITHGTLVITALNNHTVGRYQCVARMPAGAVASVPATVTLASESAPLPCHGAVPP
HLSHPEAPTIHAASCYS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

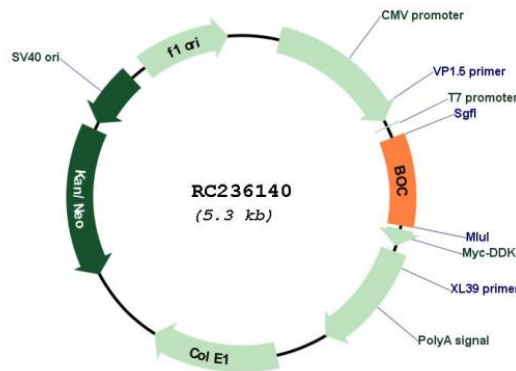


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001301867

ORF Size: 471 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.

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|-------------------------------|---|
| 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_001301867.2</u> |
| RefSeq Size: | 1886 bp |
| RefSeq ORF: | 474 bp |
| Locus ID: | 91653 |
| Cytogenetics: | 3q13.2 |
| Protein Families: | Druggable Genome, Transmembrane |
| MW: | 16.8 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] |