

Product datasheet for **RG236140**

BOC (NM_001301867) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: BOC (NM_001301867) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: BOC
Synonyms: CDON2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236140 representing NM_001301867.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGCGTGGGACGATGACGGCGTGGAGAGGAATGAGGCCTGAGGTCACTGGCTTGCCTCCTCCTA
GCCACAGCAGGCTGCTTTGCTGACTTGAACGAGGTCCCTCAGGTACCGTCCAGCCTGCGTCCACCGTC
CAGAAGCCCGGAGGCACTGTGATCTTGGGCTGCGTGGTGGAACTCCAAGGATGAATGTAACCTGGCGC
CTGAATGGAAGGAGCTGAATGGCTCGGATGATGCTCTGGGTGCCTCATACCCACGGGACCCTCGTC
ATCACTGCCCTTAACAACCACACTGTGGACGGTACCAGTGTGTGGCCCGGATGCCTGCGGGGGCTGTG
GCCAGCGTGCCAGCCACTGTGACTAGCCAGTGAGTCTGCTCCTTGCCTCCCTGCCATGGTGGCGTC
CCTCCTCATCTCTCCACCTGAAGCCCCACCATTATGCTGCCTCTTGTACTCT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236140
Blue=ORF Red=Cloning site Green=Tag(s)

```
MLRGTMTAWRGMPEVTLACLLLATAGCFADLNEVPQVTVPASTVQKPGGTIVILGCVVEPPRMNVTWR
LNGKELNGSDDALGVLITHGTLVITALNNHTVGRYQCVARMPAGAVASVPATVTLASESAPLPCHGAV
PPHLSHPEAPTIHAASCYS
TRTRPLEMESDESGLPAMEIECRITGLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI



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Cloning Scheme:


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.

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).

RefSeq: [NM_001301867.2](#)

RefSeq Size: 1886 bp

RefSeq ORF: 474 bp

Locus ID: 91653

Cytogenetics: 3q13.2

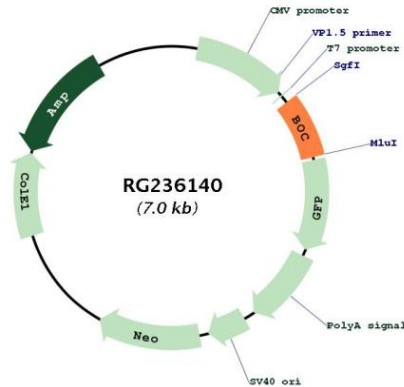
Protein Families: Druggable Genome, Transmembrane

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]

Product images:



Circular map for RG236140