

Product datasheet for **MR230133**

Proc (NM_008934) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Proc (NM_008934) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Proc
Synonyms:	P; PC
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR230133 representing NM_008934
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCGCTACCTGGACGAAATTGCAGTTTCTCCTTGCGCCACGCCTGTGTGACGAGCTCCAGGATGTGGC
 AATTCAGAGTCTTCTGCTGCTCATGTCCACCTGGGGAATATCTAGCATACCGGCCCATCTGACCCAGT
 GTTCTCCAGCAGCGAGCATGCCACCAGGTGCTTCGGGTCAGACGTGCCAACAGCTTCTGGAAGAGATG
 CGGCCAGGCAGCCTGGAACGGGAGTGTATGGAGGAGATCTGTGACTTCGAGGAGGCCAGGAGATTTTCC
 AAAATGTGAAGACACTGGCCTTCTGGATCAAGTACTTTGACGGTGACCAGTGTCTGGCTCCACCCTT
 GGACCACAGTGCACAGCCATGCTGCGGGCATGGCAGTTCATCGACGGCATAGGCAGCTTCAGCTGC
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 GAGAAGAAACGCAAGATCCTCAAACGAGACACAGACTTAGAAGATGAACTGGAACAGATCAAGGATAG
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 TTACATTTGGGAAAAGGGTGTCTCCCTAAGAGCCAGAAGCTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
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Protein Sequence:

>MR230133 representing NM_008934
 Red=Cloning site Green=Tags(s)

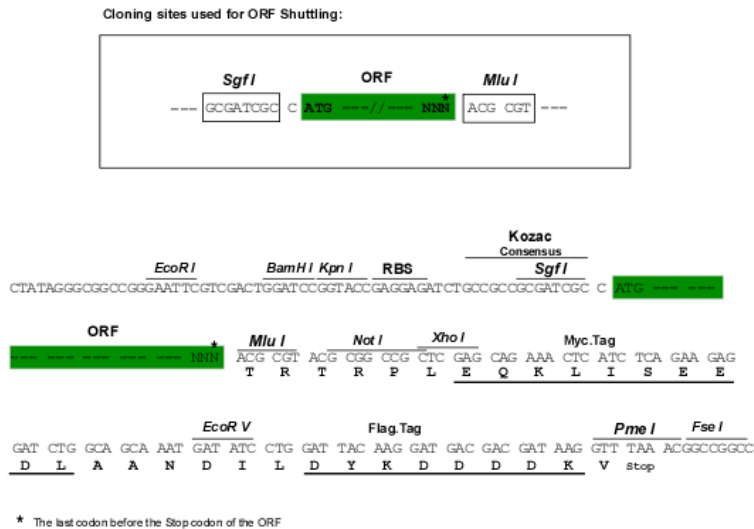
MALPGRNCSFSLAHACVSSSRMQFRVFLLLMSTWGISSIPAHDPVFSSEHAHQVLRVRRANSFLEEM
 RPSGLERECMEEICDFEEAQEIFQNVEDTLAFWIKYFDGDQCSAPPLDHQCDSPCCGHGTCIDGIGSFSC
 SCDKGWEGKFCQQLRFQDCRVNNGGCLHYCLEESNGRRCACAPGYELADHMRCKSTVNFPCGKLRWI
 EKRRKILKRDTLEDELEPDPRIVNGTLTKQGDSWPQAILLDSKKKLACGGVLIHTSWLTAHCVETGK
 KLTVRLGEYDLRRRDHWELDLDIKEILVHPNYTRSSSDNDIALRLAQPATLSKTIVPICLPNNGLAQEL
 TQAGQETVVTGWYQSDRIKDGRNRRTFILTFIRIPLVARNECVEVMKNVSENMLCAGIIGDTRDACDG
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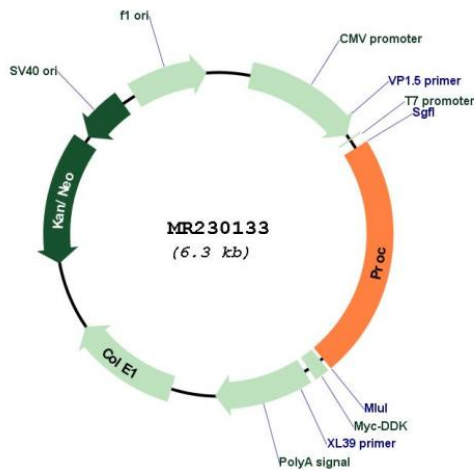
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_008934

ORF Size:

1443 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:

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_008934.4](#), [NP_032960.3](#)

RefSeq Size: 1603 bp

RefSeq ORF: 1446 bp

Locus ID: 19123

Cytogenetics: 18 B1

MW: 54.4 kDa

Gene Summary: This gene encodes the vitamin K-dependent protein C, which plays a vital role in the anticoagulation pathway. The encoded protein undergoes proteolytic processing including activation by thrombin-thrombomodulin complex to form the anticoagulant serine protease that degrades activated coagulation factors. A complete lack of the encoded protein in mice results in severe perinatal consumptive coagulopathy in the brain and liver, resulting in death within 24 hours after birth. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate the mature protein. [provided by RefSeq, Sep 2015]