

## Product datasheet for **MR207344**

### Proc (NM\_001042768) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Proc (NM_001042768) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Proc
Synonyms:	P; PC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207344 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGGCAATTCAGAGTCTTCTGCTGCTCATGTCCACCTGGGAATATCTAGCATAACGGCCCATCTG  
 ACCCAGTGTCTCCAGCAGCGAGCATGCCACCCAGGTGCTTCGGGTCAGACGTGCCAACAGCTTCCTGGA  
 AGAGATGCGGCCAGGCAGCCTGGAACGGGAGTGTATGGAGGAGATCTGTGACTTCGAGGAGGCCAGGAG  
 ATTTTCCAAAATGTGAAGACACACTGGCCTTCTGGATCAAGTACTTTGACGGTGACCAAGTCTCGGCTC  
 CACCTTGGACCACAGTGCACAGCCATGCTGCGGGCATGGCACTTGCATCGACGGCATAGGCAGCTT  
 CAGCTGCAGTGCGATAAGGGCTGGGAGGGCAAGTTCTGTGACGAGGAGTTGCGCTTCCAGGACTGTCGG  
 GTGAACAATGGCGGCTGCTTGCCTACTGCCTGGAGGAGCAATGGGCGGCGTGCCTTGTGCCCGG  
 GCTATGAGCTGGCAGACACCACATGCGCTGCAAGTCCACTGTGAATTTCCATGTGGGAACTGGGGAG  
 GTGGATAGAGAAGAAACGAAGATCCTCAAACGAGACACAGACTTAGAAGATGAAGTGAACCCAGATCCA  
 AGGATAGTCAACGGAACGCTGACGAAGCAGGGTGACAGTCTTGGCAGGCAATCCTTCTGGACTCCAAGA  
 AGAAGCTGGCCTGCGGAGGGGTGCTCATCCACACTTCTGGGTGCTGACGGCAGCCCACTGCGTGGAGGG  
 CACCAAGAAGCTTACCGTGGGCTTGGTGAATGATCTGCGACGAGGGACCACTGGGAGCTGGACCTG  
 GACATCAAGGAGATCCTCGTCCACCCTAACTACACCCGGAGCAGTGAACAACGACATTGCTCTGCTCC  
 GCCTAGCCAGCCAGCCACTCTCTCCAAAACCATAGTGCCCATCTGCCTGCCGAACAATGGGCTGGCGCA  
 GGAGCTCACTCAGGCTGGCCAGGAGACAGTGGTGACAGGCTGGGGCTATCAAAGCGACAGAATCAAGGAT  
 GGCAGAAGGAACCGCACCTTCACTCACCTTCCATCCGCATCCCTTTGGTTGCTCGAAATGAGTGGTGG  
 TGATGGTGACAGTGGGGGCCCATGGTGGTCTTCTTTCGGGGTACCTGGTTCCTGGTGGCCTGGTGAGC  
 TGGGGTGAAGGCTGTGGGCACACCAAACTATGGCATCTACACCAAAGTGGGAAGCTACCTCAAATGGA  
 TTCACAGTTACATTGGGAAAAGGGTGTCTCCCTTAAGAGCCAGAAGCTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207344 protein sequence  
 Red=Cloning site Green=Tags(s)

MWQFRVFLLLMSTWGISSIPAHDPVFSSEHAHQVLRVRRANSFLEEMRPGSLERECMEEICDFEEAQE  
 IFQNVEDTLAFWIKYFDGDQCSAPPLDHQCDSPCCGHGTCIDGIGSFSCSDKGWEGKFCQQELRFQDCR  
 VNNGGCLHYCLEESNGRRCACAPGYELADDMRCKSTVNFPCGKLRWIEKKRILKRDTDLEDELEPDP  
 RIVNGTLTKQDSPWQAILLDSKKKLACGGVLIHTSWVLTAAHCVEGTKKLTVRLGEYDLRRRDHWELDL  
 DIKEILVHPNYTRSSSDNDIALLRLAQPATLSKTIVPICLPNNGLAQELTQAGQETVVTGWYQSDRIKD  
 GRRNRFTILTFIRIPLVARNECVEVMKNVSENMLCAGIIGDTRDACDGDSSGPMVVFFRGTWFLVGLVS  
 WEGEGHTNNGIYTKVGSYLKWIHSYIGEKGVSLSQKL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

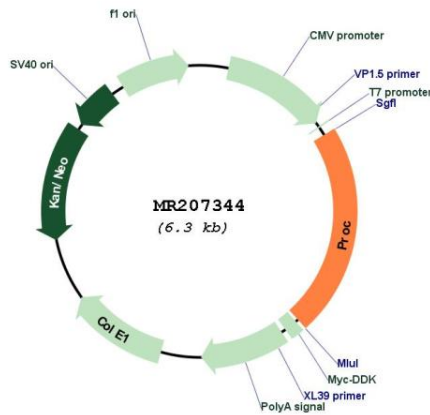
SgfI-MluI



MW: 51.8 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]

Product images:



Circular map for MR207344