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Product datasheet for MC227922

Proc (NM_008934) Mouse Untagged Clone

Product data:

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

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Fully Sequenced ORF:

>MC227922 representing NM_008934
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGCTACCTGGACGAAATTGCAGTTTCTCCTTGGCCCACGCCTGTGTCAGCAGCTCCAGGATGTGGC
AATTCAGAGTCTTCCTGCTGCTCATGTCCACCTGGGGAATATCTAGCATACCGGCCCATCCTGACCCAGT
GTTCTCCAGCAGCGAGCATGCCCACCAGGTGCTTCGGGTCAGACGTGCCAACAGCTTCCTGGAAGAGATG
CGGCCAGGCAGCCTGGAACGGGAGTGTATGGAGGAGATCTGTGACTTCGAGGAGGCCCAGGAGATTTTCC
AAAATGTGGAAGACACACTGGCCTTCTGGATCAAGTACTTTGACGGTGACCAGTGCTCGGCTCCACCCTT
GGACCACCAGTGCGACAGCCCATGCTGCGGGCATGGCACTTGCATCGACGGCATAGGCAGCTTCAGCTGC
AGCTGCGATAAGGGCTGGGAGGGCAAGTTCTGTCAGCAGGAGTTGCGCTTCCAGGACTGTCGGGTGAACA
ATGGCGGCTGCTTGCACTACTGCCTGGAGGAGAGCAATGGGCGGCGCTGCGCTTGTGCCCCGGGCTATGA
GCTGGCAGACGACCACATGCGCTGCAAGTCCACTGTGAATTTTCCATGTGGGAAACTGGGGAGGTGGATA
GAGAAGAAACGCAAGATCCTCAAACGAGACACAGACTTAGAAGATGAACTGGAACCAGATCCAAGGATAG
TCAACGGAACGCTGACGAAGCAGGGTGACAGTCCTTGGCAGGCAATCCTTCTGGACTCCAAGAAGAAGCT
GGCCTGCGGAGGGGTGCTCATCCACACTTCCTGGGTGCTGACGGCAGCCCACTGCGTGGAGGGCACCAAG
AAGCTTACCGTGAGGCTTGGTGAGTATGATCTGCGACGCAGGGACCACTGGGAGCTGGACCTGGACATCA
AGGAGATCCTCGTCCACCCTAACTACACCCGGAGCAGCAGTGACAACGACATTGCTCTGCTCCGCCTAGC
CCAGCCAGCCACTCTCTCCAAAACCATAGTGCCCATCTGCCTGCCGAACAATGGGCTGGCGCAGGAGCTC
ACTCAGGCTGGCCAGGAGACAGTGGTGACAGGCTGGGGCTATCAAAGCGACAGAATCAAGGATGGCAGAA
GGAACCGCACCTTCATCCTCACCTTCATCCGCATCCCTTTGGTTGCTCGAAATGAGTGCGTGGAGGTCAT
GAAGAATGTGGTCTCGGAGAACATGCTGTGTGCAGGCATCATTGGGGACACGAGAGACGCCTGTGATGGT
GACAGTGGGGGGCCCATGGTGGTCTTCTTTCGGGGTACCTGGTTCCTGGTGGGCCTGGTGAGCTGGGGTG
AGGGCTGTGGGCACACCAACAACTATGGCATCTACACCAAAGTGGGAAGCTACCTCAAATGGATTCACAG
TTACATTGGGGAAAAGGGTGTCTCCCTTAAGAGCCAGAAGCTATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_008934

Insert Size: 1446 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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).

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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:	1584 bp
RefSeq ORF:	1446 bp
Locus ID:	19123
Cytogenetics:	18 B1
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] Transcript Variant: This variant (1) encodes the longest isoform (1). This isoform (1) may undergo proteolytic processing similar to isoform 2.

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