

Product datasheet for **MR224303**

Pros1 (NM_011173) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pros1 (NM_011173) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pros1
Synonyms:	AW214361
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR224303 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGGTCTGAGCGCACGCTTTCGGGTGCTACTGGCCTGCCTCGCCCTGGTGATCCCTGTCTCAGAGA
 CAAACTTCTTGTCCAAAGAGCGTCTTCACAAGTCTGGTGAGGAAGCGCCGTGCAAAATACCTTGTTCGA
 AGAAACTATGAAGGGCAACCTTGAACGAGAGTGCATTGAAGAAGTCTGCAATAAGGAGGAAGCCAGGGAG
 GTCTTTGAAAATAATCCCGAGACGGATTATTTTTATCCAAAATATTTAGGTTGTCTGGGGCATTCCGTTG
 TTGGCTCATTCCATGCTGCGAGGAGTCACTAATGCTTATCCTGACCTCAGAAGCTGTGTCAAAGCCAT
 CTCAGACCAATGTGACCCTATACCATGCAATGAAGATGGGTATCTGGCCTGCCAAGATGGCCAAGCTGCT
 TTTACTTGCTTCTGAAGCCCGCTGGCAAGGAGACAGGTGTGATGATGTAATGAATGTAAGATC
 CCTCAAATGTCAATGGAGGCTGCAGCCAGATTTGTGACAACACTCCTGGAAGTTACCACTGCTCCTGTAA
 AAGAGGCTTTGCTATGCTCCCAAATAAGAAAGACTGCAAAGATTTGGATGAATGCGCTCTAAAGCCAAGT
 GTCTGTGGCACAGCTGTGTGCAAGAACATTCCAGGAGACTTCAATGTGAATGTCCCGACGCTACCGAT
 ATGATCCCTCATCAAATCTTGTAAAGATGTTGATGAGTCTCTGAGAACATGTGTGCTCAACTGTGTGT
 CAATTTCCCTGGAGGCTACTCTTGTACTGTGATGGGAAGAAAGGATTCAAACCTTGCCCAAGATCAGAAG
 AGTTGTGAGGGTATCCCAGTGTGCCTTCTTGGACCTTGACAAAACTATGAATTATTACTTGGCCG
 AGCAGTTTGCAGGAGTTGCTTATATCTGAAATTCGATTGCCAGATATCAGGAGTTTTTCAGCTGAATT
 TGATTTTCGCACATATGATTCAGAGGGCATCACTGTATGCAGAATCTCTCGACCACTCCAATTTGGCTC
 CTGATTGCGCTTCGTGATGGGAAGATGAAGTTCAAGTTAAGAATGAGTTTTCGACCCAAATCACAACCTG
 GAGGCAATGTTATTAACAACGGTATATGGAATATGGTGTCTGTGGAAGAATTAGACGACAGTGTAGCAT
 TAAAAATAGCTAAGGAGGCGGTGATGAATTAATAAACTTGGCAGCCTTTTTAAGCCTACCGATGGATTT
 CTGGACACCAAAATATACTTCGCAGGCTTACCTCGGAAGGTGGAAAGCGCACTCATTAAACCGATTAATC
 CTCGTCTGGATGGATGTATACGAGGCTGGAATCTGATGAAACAAGGAGCTTTAGGTGCCAAGGAAATAAT
 TGAAGGAAAAAAAATAAACACTGCTTCTCAATGTGGAGAAGGGCTCCTACTACCCTGGTTCGGGAATT
 GCTCAGTTCAGCATAGACTACAATAATGTAACATAATGCAGAGGGTTGGCAAATGAATGTGACCTGAATA
 TCCGCCCTTCCACTGGCACTGGAGTCATGCTGGCTTTGGTTTCTGGGGCACAGTGCCCTTTGCCTTGTC
 CTTGGTGGATTCTCGCTCTGGAACGTCTCAGGATATTGTGGTATTTGTTGAAAATTCAGTGGTGGCTCGA
 TTGGAGGCGGTATCTCTGTGCTCGGATCAGCAATCCCAACTGAAATGCAATGTTAACAGAAATGGACTGG
 AACTGTGGACCCCACTTAGAAAAGATGTCAATTTACTCTAAAGATCTTCAAAGGCAACTCGCCGTCTTGG
 CAAAGCAATGAAAAGAACCGTGGCCACTTACCTGGGTGGCATCCCAGATATTTCTTTCAGTGCCACACCA
 GTGAATGCCTTTTACAGTGGCTGCATGGAAGTGAACATCAATGGGGTGCAGTTGGACCTGGATGAAGCCA
 TTTCTAAACATAAGGACATTAGAGCTCACTCGTCCCGTCAGTGAGGAAGATCCAGAAGAATTTT

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR224303 protein sequence
 Red=Cloning site Green=Tags(s)

MRVLSARFRVLLACLALVIPVSETNFLSKERASQVLVRKRRANTLFEETMKGNLERECIEELCNKEEARE
 VFENNPEYDFYFKYLGCLGAFRVGFSFHAARQSANAYPDLRSCVKAISDQCDPIPNCEDGYLACQDQAA
 FTFCFKPGWQGDRCQYDVNECKDPSNVNGGCSQICDNTPGSYHCCKRGFAMPLNKKDKDLDECALKPS
 VCGTAVCKNIPGDFECECPDGYRYDPSSKCKDVDECSNMCAQLCVNFPGGYSCYCDGKKGFKLAQDQK
 SCEGIPVCLSLDLKNEYELLYLAEQFAGVLYLKFRLPDITRFSAEFDFRTYDSEGIILYAESLDHSNWL
 LIALRDGKIEVQFKNEFSTQITTTGGNVINNGIWNMVSVEELDDSVSIIKIAKEAVMINKLGLFKPTDGF
 LDTKIYFAGLPRKVESALIKPINRDLGDCIRGWNLMKQALGAKIIEGKQNKHCFLNVEKGSYYPGSGI
 AQFSIDYNNVTNAEGWQMNVTLNIRPSTGTGVMMLALVSGGTVPFALSLVDSRSGTSQDIVVFNVSVVAR
 LEAVSLCSDQQSQLKCNVNRNGLELWTLRDKDVIYSKDLQRQLAVLDKAMKRTVATYLGIPDISFSATP
 VNAFYSGCMEVNINGVQLDLDEAISKHKDIRAHSCPSVRKIQKNF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_011173

ORF Size: 2028 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_011173.3](#)

RefSeq Size: 3270 bp

RefSeq ORF: 2028 bp

Locus ID: 19128

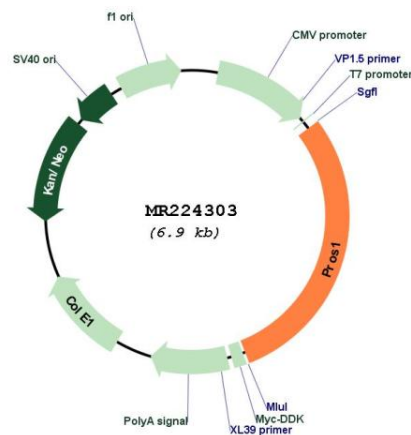
UniProt ID: [Q08761](#)

Cytogenetics: 16 C1.3

MW: 74.9 kDa

Gene Summary: This gene encodes a vitamin K-dependent protein with key roles in multiple biological processes including coagulation, apoptosis and vasculogenesis. The encoded protein undergoes proteolytic processing to generate a mature protein which is secreted into the plasma. Mice lacking the encoded protein die in utero from a fulminant coagulopathy and associated hemorrhages. [provided by RefSeq, Oct 2015]

Product images:



Circular map for MR224303