

## Product datasheet for **MG224303**

### Pros1 (NM\_011173) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pros1 (NM_011173) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pros1
Synonyms:	AW214361
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>MG224303 representing NM\_011173  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGCATCGCC

ATGAGGGTCTGAGCGCACGCTTTCGGGTGCTACTGGCCTGCCTCGCCCTGGTGATCCCTGTCTCAGAGA  
CAAACCTCTTGTCCAAAGAGCGTCTTCACAAGTCTGGTGAGGAAGCGCCGTGCAAATACCTTGTTCGA  
AGAAACTATGAAGGGCAACCTTGAACGAGAGTGCATTGAAGAAGTCTGCAATAAGGAGGAAGCCAGGGAG  
GTCTTTGAAAATAATCCCGAGACGGATTATTTTTATCCAAAATATTTAGGTTGTCTGGGGCATTCCGTG  
TTGGCTCATTCCATGCTGCGAGGCGAGTCACTAATGCTTATCCTGACCTCAGAAGCTGTGTCAAAGCCAT  
CTCAGACCAATGTGACCCTATACCATGCAATGAAGATGGGTATCTGGCCTGCCAAGATGGCCAAGCTGCT  
TTTACTTGCTTCTGAAGCCCGCTGGCAAGGAGACAGGTGTGATGATGTAATGAATGTAAGATC  
CCTCAAATGTCAATGGAGGCTGCAGCCAGATTTGTGACAACACTCCTGGAAGTTACCACTGCTCCTGTAA  
AAGAGGCTTTGCTATGCTCCCAAATAAGAAAGACTGCAAAGATTTGGATGAATGCGCTCTAAAGCCAAGT  
GTCTGTGGCACAGCTGTGTGCAAGAACATTCCAGGAGACTTCAATGTGAATGTCCCGACGCTACCGAT  
ATGATCCCTCATCAAATCTTGTAAAGATGTTGATGAGTCTCTGAGAACATGTGTGCTCAACTGTGTGT  
CAATTTCCCTGGAGGCTACTCTTGTACTGTGATGGGAAGAAAGGATTCAAACCTTGCCCAAGATCAGAAG  
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AGCAGTTTGCAGGAGTTGCTTATATCTGAAATTTGATTGCCAGATATCAGGAGTTTTTCAGCTGAATT  
TGATTTTCGCACATATGATTCAGAGGGCATCACTGTATGCAGAATCTCTCGACCACTCCAATTGGCTC  
CTGATTGCGCTTCGTGATGGGAAGATTGAAGTTCAGTTAAGAATGAGTTTTCGACCCAAATCACAACCTG  
GAGGCAATGTTATTAACAACGGTATATGGAATATGGTGTCTGTGGAAGAATTAGACGACAGTGTTAGCAT  
TAAAATAGCTAAGGAGGCCGTGATGAATTAATAAACTTGGCAGCCTTTTTAAGCCTACCGATGGATTT  
CTGGACACCAAAATATACTTCGCAGGCTTACCTCGGAAGGTGGAAAGCGCACTCATTAAACCGATTAATC  
CTCGTCTGGATGGATGTATACGAGGCTGGAATCTGATGAAACAAGGAGCTTTAGGTGCCAAGGAAATAAT  
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GCTCAGTTCAGCATAGACTACAATAATGTAACATGCAGAGGGTTGGCAAATGAATGTGACCTTGAATA  
TCCGCCCTTCCACTGGCACTGGAGTCATGCTGGCTTTGGTTTCTGGGGCACAGTGCCCTTTGCCTTGTC  
CTTGGTGGATTCTCGCTCTGGAACGTCTCAGGATATTGTGGTATTTGTTGAAAATTCAGTGGTGGCTCGA  
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AACTGTGGACCCCACTTAGAAAAGATGTCAATTTACTCTAAAGATCTTCAAAGGCAACTCGCCGTCTTGG  
CAAAGCAATGAAAAGAACCCTGGCCACTTACCTGGGTGGCATCCAGATATTTCTTTCAGTGCCACACCA  
GTGAATGCCTTTTACAGTGGCTGCATGGAAGTGAACATCAATGGGGTGCAGTTGGACCTGGATGAAGCCA  
TTTCTAAACATAAGGACATTAGAGCTCACTCGTCCCGTCAGTGAGGAAGATCCAGAAGAATTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG224303 representing NM\_011173  
 Red=Cloning site Green=Tags(s)

MRVLSARFRVLLACLALVIPVSETNFLSKERASQVLVRKRRANTLFEETMKGNLERECIEELCNKEEARE  
 VFENNPEYDYFYPKYLGCLGAFRVGFSFHAARQSANAYPDLRSCVKAISDQCDPIPNCEDGYLACQDQAA  
 FTFCFKPGWQGDRCQYDVNECKDPSNVNGGCSQICDNTPGSYHCCKRGFAMPLPNKKDKDLDECALKPS  
 VCGTAVCKNIPGDFECECPDGYRYDPPSSKCKDVDECSNMCAQLCVNFPGGYSCYCDGKKGFKLAQDQK  
 SCEGIPVCLSLDLKNEYELLYLAEQFAGVLYLKFRLPDITRFSAEFDFRTYDSEGIILYAESLDHSNWL  
 LIALRDGKIEVQFKNEFSTQITTTGGNVINNGIWNMVSVEELDDSVSIIAKEAVMMINKLGS�FKPTDGF  
 LDTKIYFAGLPRKVESALIKPINRDLGDCIRGWNLMKQALGAKIIEGKQNKHCFLNVEKGSYYPGSGI  
 AQFSIDYNNVTNAEGWQMNVTLNIRPSTGTGVMMLALVSGGTVPFALSLVDSRSGTSQDIVVFNVSVVAR  
 LEAVSLCSDQQSQLKCNVNRNGLELWTPLRKDVYISKDLQRQLAVLDKAMKRTVATYLGIPDISFSATP  
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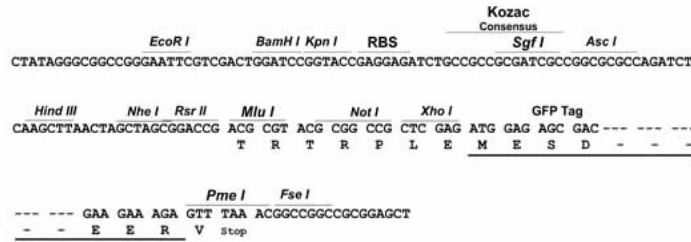
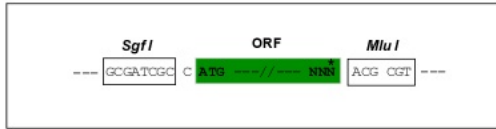
TRTRPLE - GFP Tag - V

Restriction Sites:

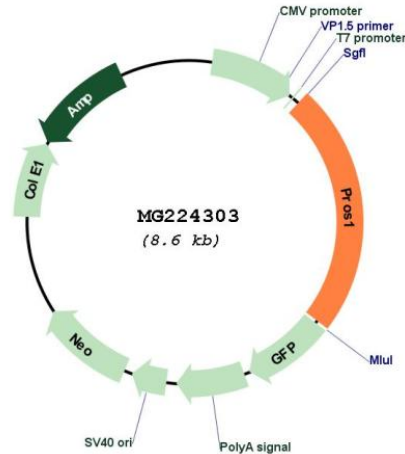
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



## Plasmid Map:



ACCN: NM\_011173

ORF Size: 2025 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

**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]