

## Product datasheet for **MR204831**

### Proz (BC024104) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Proz (BC024104) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Proz
Synonyms:	1300015B06Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204831 representing BC024104 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAGCAAGAGCCTCAGCAGCAGGATGAGTTCTGGAGACAGTATGGGGTGGCTCTCCGTGCGTCTCCC  
AGCCCTGCCTCAACAACGGGACATGCGAGGACCACATCCGCAGCTACAGCTGCACGTGCTCTCCGGGCTA  
TGAGGGCAAGACCTGTGCAATGGCTAAAAATGAATGTCACCTAGAGAGGACGGATGGATGCCAGCATTTT  
TGCCACCCGGGGCAGTCATCTTACATGTGCAGTTGTGCAAAGGGCTACAAGCTGGCAAGGACCAGAAAT  
CATGTGGTCCAAGTGACAAATGCGCATGCGGGCCCTGACTTCCGAACACATCAGAATGACAAAAAGCAG  
CCAGAGTCAGCCTAGCTTCCCTTGGCAGGTCAGATTAACAAATTCGGAAGGAGAAGACTTCTGTGCCGGC  
GTGTTACTACAGGAAGACTTCGTGTTGACAACAGCAAAGTGTTCGTTATTGCACAGCAACATCAGTGTA  
AAGCAATGTTGACCAGAGGATCAGGATCAAGAGCACTCACGTGCACATGCGTTATGACGAGGAGTCGGG  
GGAGAACGACGTGCTACTGTTGCAGTTGGAGGAGCCCTTGCAAGTCCCGAGTTCTGGTCTCCCGTCTGC  
GTCCAGAGAGGGACTTTGCAGAGCATGTCCTCATCCCTGGAACGGAGGGTCTCCTCAGTGGCTGGATGC  
TTAATGGCACACACCTGGCTACCACACCGATGCTGCTGTCGGTACACAAGCAGATGGCGAGGAATGCGG  
ACAGACCCTGAATGTAACGGTCACTACGAGGACAAGCTGTGAGAAGGGCAGTGTGGTGTGGGCTTGG  
GTGGAAGGAAGTGTGGTACCCGAGAACAAGGGCACCTGGTTCTCACGGGATCCTAGGCTCGCCAC  
CACCACAGGGCAATCGCAAATGCTCCTCCTCACCGCAGTCCCGAGATACTCCATGTGGTTAAACAGAT  
CATGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >MR204831 representing BC024104  
 Red=Cloning site Green=Tags(s)

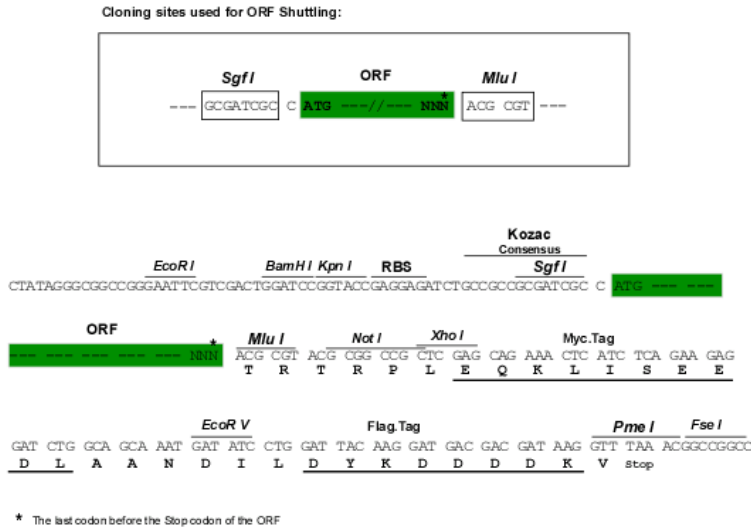
MQQEPQQQDEFWRQYGGGSPCVSQPCLNNGTCEDHIRSYSCTCSPGYEGKTCAMAKNECHLERTDGCQHF  
 CHPGQSSYMCSCAKGYKLGKDQKSCGPSDKCACGALTSEHIRMTKSSQSQPSFPWQVRLTNSEGEDFCAG  
 VLLQEDFVLTAKCSLLHSNISVKANVDQRIRIKSTHVHMRIDEESGENDVSLQLLEEPLQCPSSGLPVC  
 VPERDFAEHVLIPTGTEGLLSGWMLNGTHLATTMPLL SVTQADGEECGQTLNVTVTTRTSCEKGSVVMGPW  
 VEGSVVTREHKGTWFLTGILGSPPPPQQSQMLLLTAVPRYSMWFQIMK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9005\\_e03.zip](https://cdn.origene.com/chromatograms/mm9005_e03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC024104

**ORF Size:** 987 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:** [BC024104.1](#)

**RefSeq Size:** 1660 bp

**RefSeq ORF:** 989 bp

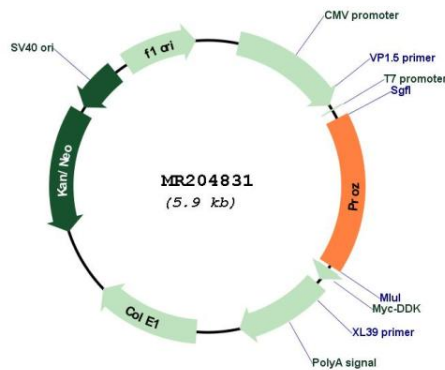
**Locus ID:** 66901

**Cytogenetics:** 8 A1.1

**MW:** 60.8 kDa

**Gene Summary:** Appears to assist hemostasis by binding thrombin and promoting its association with phospholipid vesicles. Inhibits activity of the coagulation protease factor Xa in the presence of SERPINA10, calcium and phospholipids (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR204831