

## Product datasheet for **RC234051**

### Protein Z (PROZ) (NM\_001256134) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Protein Z (PROZ) (NM_001256134) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Protein Z
Synonyms:	PZ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC234051 representing NM\_001256134  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGCAGGCTGCGTCCACTGCTCCAGGGCCTGGTCTGGTCTCGCCCTCCATCGTGTGGAGCCCTCAG  
 CCACTTCACTGAAGGAACGACATGGACTCCATTCTGACTCTGCCTGCACAGGCGTCCAGGAAAGCTTATT  
 TCTCCCGCCTCAAAGCAAACGACGTTCTGGTGAAGTGAAGCGTGCAGGCTCCTATCTTCTGGAAGAA  
 CTCTTCGAGGGAACTTGAAAAAGAATGTTATGAAGAAATCTGTGTCTATGAAGAAGCAAGAGAAGTGT  
 TTGAAAATGAAGTAGTCACTGATGAATTCTGGAGACGATATAAGGGCGGCTCCCGTGCATCTCCAGCC  
 CTGCTCCACAACGGCTTTGCCAGGACAGCATCTGGGGCTACACCTGCACCTGCTCCCCGGCTATGAG  
 GGCAGCAACTGCGAGCTGGCTAAAAATGAATGTCACCCAGAGCGGACTGATGGGTGTCAACACTTCTGCC  
 TCCAGGACAGGAATCCTACACGTGCAGCTGTGCTCAGGGCTACAGGCTTGGTGAGGACCACAAACAGTG  
 TGTGCCACGACCAGTGTGCTGCGGGGTGCTGACCTCTGAGAAGCGTGCACCGGATCTACAGGACCTC  
 CCGTGGCAGGTAAGTTAACAAATTCGAAGGAAAAGACTTCTGTGGTGGTGTATAATACGGGAAAATT  
 TTGTAAGTACAACAGCAAATGTTCACTGTTACACAGGAATTAATGTAATAAATACAGAAACATATTTAA  
 CAGAAC  
 GAGCAAGACCCGCTGATGATCAAGATAACGCACGTCCATGTGCACATGCGGTATGACGCGGACGCGGGG  
 GAGAATGACCTGTCACTGCTGGAGCTGGAGTGGCCATCCAGTGGCCAGGTGCGGGGCTCCCCGTGTGCA  
 CCCCTGAGAAAGACTTCGCTGAGCACCTCCTATCCCACGCCAGGGGCTCCTCAGCGGCTGGGCACG  
 CAATGGCACTGACCTGGCAACTCGTGACCACGCGGCTGTCACTTGTGGAGGGGAGGAGTGGCGG  
 CAGGTCTGAATGTGACTGTACCACCAGGACCTACTGTGAGAGAAGCAGCGTGGCGGCCATGCACTGGA  
 TGGATGGAAGTGTGGTCACCAGAGAACACAGAGGCTCTGGTTTCTACGGGGTCTGGGCTCGCAGCC  
 AGTAGGAGGCGAGGCTCATGGTCTTGTCCACCAAGGTCTCCAGTACTCACTCTGGTTAAACAGATC  
 ATGAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234051 representing NM\_001256134  
 Red=Cloning site Green=Tags(s)

MAGCVPLLQGLVVLALHRVEPSATSLKERHGLHSDSACTGVQESLFLPASKANDVLRWKRAGSYLLEE  
 LFEGNLEKECYEEICVYEEAREVFENEVVTDEFWRRYKGGSPCISQPCLHNGSCQDSIWGYTCTCSPGYE  
 GSNCELAKNECHPERTDGCQHFCLPGQESYTCSCAQGYRLGEDHKQCVPHDQCACGVLTSEKRAPDLQDL  
 PWQVKLTNSEGKDFCGGVIIRENFVLTAKCSLLHRNITVKTYFNRTSQDPLMIKITHVHVHMRDADAG  
 ENDLALLELEWPIQCPGAGLPVCTPEKDFAEHLLIPRTRGLLSGWARNGTDLGNSLTTRPVTLVEGEECG  
 QVLNVTVTTRTYCERSSVAAHWMWDGSSVVTREHRGSWFLTGVLGSPVGGQAHMVLVTKVSRYSLWFKQI  
 MN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001256134

**ORF Size:** 1266 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\\_001256134.1](#), [NP\\_001243063.1](#)

**RefSeq Size:** 1555 bp

**RefSeq ORF:** 1269 bp

**Locus ID:** 8858

**UniProt ID:** [P22891](#)

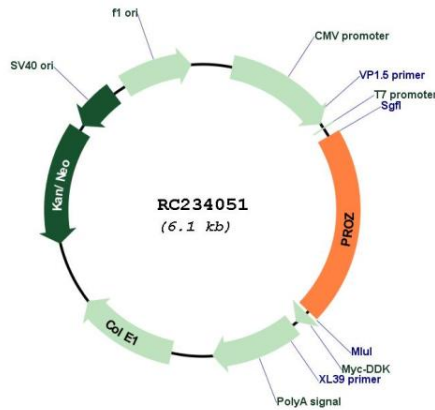
**Cytogenetics:** 13q34

**Protein Families:** Druggable Genome, Protease, Secreted Protein

**MW:** 47.5 kDa

**Gene Summary:** This gene encodes a liver vitamin K-dependent glycoprotein that is synthesized in the liver and secreted into the plasma. The encoded protein plays a role in regulating blood coagulation by complexing with protein Z-dependent protease inhibitor to directly inhibit activated factor X at the phospholipid surface. Deficiencies in this protein are associated with an increased risk of ischemic arterial diseases and fetal loss. Mutations in this gene are the cause of protein Z deficiency. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2012]

**Product images:**



Circular map for RC234051