

## Product datasheet for **RG220949**

### PR3 (PRTN3) (NM\_002777) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PR3 (PRTN3) (NM_002777) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PR3
Synonyms:	ACPA; AGP7; C-ANCA; CANCA; MBN; MBT; NP-4; NP4; P29; PR-3; PR3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220949 representing NM_002777 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTACCGGCCCCAGCCCTGCCCTGGCGTCCGTGCTGCTGGCCTTGCTGCTGAGCGGTGCTGCC  
GAGCTGCGGAGATCGTGGGCGGGCAGGAGCGCAGCCACACTCCCGCCCTACATGGCCTCCCTGCAGAT  
GCGGGGAACCCGGCAGCCACTTCTGCGGAGGCACCTTGATCCACCCAGCTTCGTGCTGACGGCCGCG  
CACTGCCTGCGGGACATAACCCAGCGCCTGGTGAACGTGGTGTGCTCGGAGCCACAACGTGCGGACGAGG  
AGCCACCCAGCAGCACTTCTCGGTGGCTCAGGTGTTTCTGAACAACACGACGCGGAGAACTGAA  
CGACATTCCTCATCCAGCTGAGCAGCCAGCCAACCTCAGTGCCTCCGTGCCCACAGTCCAGTGCCA  
CAGCAGGACCAGCCAGTGCCCCACGGCACCCAGTGCCTGGCCATGGGCTGGGGCCCGTGGGTGCCACG  
ACCCCCAGCCAGGTCCTGCAGGAGCTCAATGTACCCTGGTACCTTCTTCTGCCGGCCACATAACAT  
TTGCACTTTCGTCCCTCGCCGAAGGCCGGCATCTGCTTCGGAGACTCAGGTGGCCCCCTGATCTGTGAT  
GGCATCATCAAGGAATAGACTCCTTCGTGATCTGGGGATGTGCCACCCGCCTTTCCCTGACTTCTTCA  
CGCGGGTAGCCCTCTACGTGGACTGGATCCGTTCCACGCTGCGCCGTGTGGAGGCCAAGGGCCGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

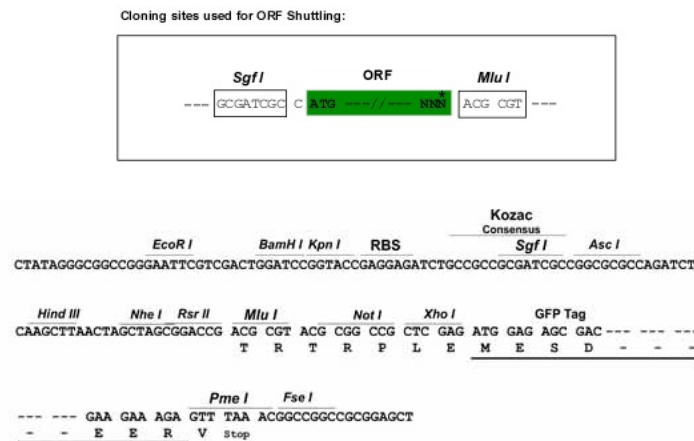
**Protein Sequence:** >RG220949 representing NM\_002777  
 Red=Cloning site Green=Tags(s)

MAHRPPSPALASVLLALLLSGAARAAEIVGGHEAQPHSRPYMASLQMRGNPGSHFCGGTLIHPSFVLTAA  
 HCLRDIPQRLVNVVLGAHNVRTQEPTQQHFVSAQVFLNNYDAENKLNLDILLIQLSSPANLSASVATVQLP  
 QQDQPVPHGTQCLAMGWGRVGAHDPPAQLVQLNVTVVTFFCRPHNICTFVPRRKAGICFGDSGGPLICD  
 GIIQGIDSFVIWGCATRLFPDFTRVALYVDWIRSTLRRVEAKGRP

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_002777

**ORF Size:** 768 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\\_002777.3](#), [NP\\_002768.3](#)

**RefSeq Size:** 1001 bp

**RefSeq ORF:** 771 bp

**Locus ID:** 5657

**UniProt ID:** [P24158](#)

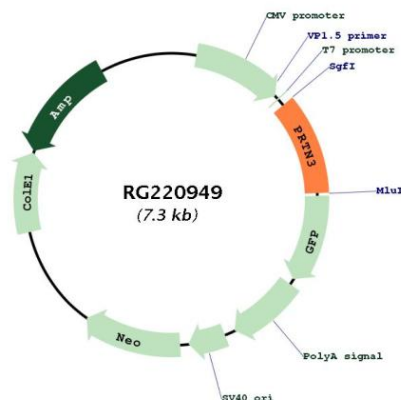
**Cytogenetics:** 19p13.3

**Domains:** Tryp\_SPc

**Protein Families:** Druggable Genome, Protease

**Gene Summary:** Serine protease that degrades elastin, fibronectin, laminin, vitronectin, and collagen types I, III, and IV (in vitro) (PubMed:3198760, PubMed:2033050, PubMed:28240246). By cleaving and activating receptor F2RL1/PAR-2, enhances endothelial cell barrier function and thus vascular integrity during neutrophil transendothelial migration (PubMed:23202369). May play a role in neutrophil transendothelial migration, probably when associated with CD177 (PubMed:22266279).[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RG220949