

## Product datasheet for **RG223128**

### **PRSS16 (NM\_005865) Human Tagged ORF Clone**

#### **Product data:**

|                           |                                           |
|---------------------------|-------------------------------------------|
| Product Type:             | Expression Plasmids                       |
| Product Name:             | PRSS16 (NM_005865) Human Tagged ORF Clone |
| Tag:                      | TurboGFP                                  |
| Symbol:                   | PRSS16                                    |
| Synonyms:                 | TSSP                                      |
| Mammalian Cell Selection: | Neomycin                                  |
| Vector:                   | pCMV6-AC-GFP (PS100010)                   |
| E. coli Selection:        | Ampicillin (100 ug/mL)                    |



[View online »](#)

**ORF Nucleotide Sequence:**

>RG223128 representing NM\_005865  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGC**

ATGGCCGCTCTGGCTTGGCCAGTGGCTGGGCCCTCTGCTCTTGGTTTCCCTCTGGGGACTCTTGGCTCCAG  
 CCTCCCTTCTTAGGCGCCTGGGTGAGCACATTACGAGTTTCAGGAGAGCTCTGCCAGGGCCTGGGCCT  
 GAGCCTGGGGCCAGGTGCTGCAGCCCTCCAAAAGTGGGTGGCTGGAGCAACTGCTGGACCCCTTCAAC  
 GTGTCCGACAGACGATCCTTCTACAGCGTTACTGGGTGAATGACCAACATTGGTTTGGCCAGGATGGAC  
 CCATATTCCTGCATCTAGGGGTGAGGGCAGCCTTGGGCCTGGCTCAGTGATGAGAGGCCATCCCGCAGC  
 CTTGGCCCCAGCCTGGGGCGCCCTGGTGATAAGCCTGGAACACAGATTTATGGCCTGAGTATACCTGCT  
 GGAGGCCTGGAATGGCCAGCTCCGCTTCTTGCCAGCCGCTTGCCTGGCTGATGTGGTCTCTGCC  
 GCCTGGCACTTTCCGCCTCTTAACTCTCTCTCCAGCCCTGGATCTGCTTCGGAGGCTCCTATGC  
 CGGCTCCTTGGCGCCTGGGCCCGGCTGAAGTTCCCCATCTCATTTTCGCTCGGTGCCTCCTCCGCC  
 CCGGTGCGGGCGGTGCTGGATTTCTCCGAGTATAATGACGTGGTATCCGAAGCCTAATGAGCACCGCGA  
 TCGGCGGGTCCCTGGAGTGCCGGGCGGCGGTGTCCGTCGCTTCTGCTGAAGTGGAGCGGCGGCTGCCTC  
 GGGTGGGCGGCTCAAGCAGCATTGCGGACGAGCTGAGCGCTTGCGGGCCCTGGGCGCGCTGAAAC  
 CAGGCGGAGCTGTTGGGGCGCTGCAGGCACTGGTGGGAGGTGTAGTGCAGTATGATGGGAGACGGGAG  
 CGCCGCTAAGCGTGCGACAGCTCTGCGGACTTCTCTCGGGGCGGGGCAACCGCAGCCACTCCACGCC  
 CTACTGCGGGTTCGTCGGGCGGTGCAGATTGTCTGCACAGCCTGGGCCAGAAGTGTAAAGCTTTCC  
 CGAGCAGAGACAGTGGCACAGCTGAGGAGCACAGAACCCTCAACTGTCTGGTGTGGGTGACCGGCACTGGT  
 TGTATCAGACATGTACCGAGTTCGGCTTCTATGTACCTGTGAGAATCCAGATGCTCTTCTCCAGCT  
 CCCAGCACTGCCCTCCAGCTAGACCTATGTGAGCAGGTGTTTGGGCTCTCAGCCTTGTGAGTAGCCAG  
 GCTGTGGCTCAGACGAACCTCTACTACGTGGCCAGACCCTGGGGCTAACAAAGTGTGTTGTTAATG  
 GGGACACAGACCCTGGCATGTGCTAAGTGTAAACACAGGCTTTAGGATCCTCAGAATCAACTCTTCTTAT  
 CCGCACTGGCTCCCACTGCTTGGACATGGCACCTGAGAGGCCCTCAGACTCCCCAGCCTCCGCCTAGGG  
 CGCCAGAACATCTTCCAGCAGCTACAGACCTGGCTCAAGCTGGCAAAGGAGAGCCAGATTAAGGGTGAAG  
 TC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

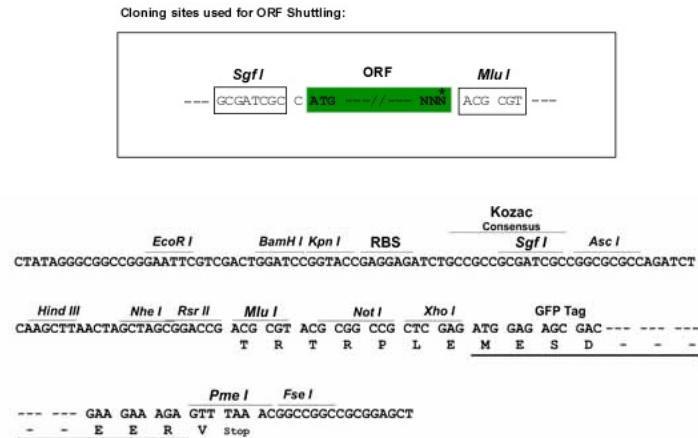
>RG223128 representing NM\_005865  
 Red=Cloning site Green=Tags(s)

MAVWLAQWLGPLLLVSLWGLLAPASLLRRLGEHIQQFQESSAQGLGLSLGPGAAALPKVGWLEQLLDPFN  
 VSDRRSFLQRYWVNDQHWVGQDGPFLHLGGESLGPSSVMRGHPAALAPAWGALVISLEHRFYGLSIPA  
 GGLEMAQLRFLSSRLALADVVSARLALSRFNISSSSPWICFGGSYAGSLAAWARLKPHLIFASVASSA  
 PVRVLDSEYNDVVSRLMSTAIIGGSLECRAAVSVAFAEVERRLRSGGAAQAALRTEL SACGPLGRAEN  
 QAELLGALQALVGGVVQYDQGTGAPLSVRQLCGLLGGGNGRSHSTPYCGLRRVQIVLHSLGQKCLSFS  
 RAETVAQLRSTEPQLSGVGDRQWLYQTCTEFGFYVTCENPRCPFSQLPALPSQLDLCEQVFGLSALSVAQ  
 AVAQTNSSYYGGQTPGANKVLFVNGDTPWHVLSVTQALGSSESTLLIRTGSHCLDMAPERPSDSPSLRLG  
 RQNIFFQLQTWKLAKESQIKGEV

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_005865

**ORF Size:** 1542 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\\_005865.4](#)

**RefSeq Size:** 2722 bp

**RefSeq ORF:** 1545 bp

**Locus ID:** 10279

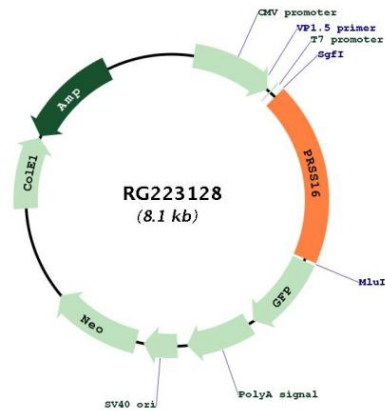
**UniProt ID:** [Q9NQE7](#)

**Cytogenetics:** 6p22.1

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

**Gene Summary:** This gene encodes a serine protease expressed exclusively in the thymus. It is thought to play a role in the alternative antigen presenting pathway used by cortical thymic epithelial cells during the positive selection of T cells. The gene is found in the large histone gene cluster on chromosome 6, near the major histocompatibility complex (MHC) class I region. A second transcript variant has been described, but its full length nature has not been determined. [provided by RefSeq, Jul 2008]

## Product images:



Circular map for RG223128