

## Product datasheet for **RG210423**

### PRSS21 (NM\_006799) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | PRSS21 (NM_006799) Human Tagged ORF Clone                                   |
| Tag:                      | TurboGFP  |
| Symbol:                   | PRSS21  |
| Synonyms:                 | ESP-1; ESP1; TEST1; TESTISIN  |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >RG210423 representing NM_006799<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCGCGCGGGGCGCTGCTGCTGGCGCTGCTGCTGGCTCGGGCTGGACTCAGGAAGCCGGAGTCGC  
AGGAGGCGGCGCCCTTATCAGGACCATGCGGCCGACGGGTCATCACGTCGCGCATCGTGGGTGGAGAGGA  
CGCCGAACCTCGGGCGTTGGCCGTGGCAGGGGAGCCTGCGCCTGTGGGATCCCACGTATGCGGAGTGAGC  
CTGCTCAGCCACCCTGGGCACTCACGGCGGCGCACTGCTTTGAAACCTATAGTGACCTTAGTGATCCCT  
CCGGGTGGATGGTCCAGTTTGGCCAGCTGACTTCCATGCCATCCTTCTGGAGCCTGCAGGCTACTACAC  
CGTTACTTCGTATCGAATATCTATCTGAGCCCTCGCTACCTGGGGAATTCACCCATGACATTGCCTTG  
GTGAAGCTGTCTGCACCTGTCACCTACACTAAACACATCCAGCCCATCTGTCTCCAGGCCTCCACATTTG  
AGTTTGAGAACCGGACAGACTGCTGGGTGACTGGCTGGGGTACATCAAAGAGGATGAGGCACTGCCATC  
TCCCCACACCCTCCAGGAAGTTCAGGTGCGCATCATAAACAACCTATGTGCAACCACCTCTTCTCAAG  
TACAGTTTCCGCAAGGACATCTTTGGAGACATGGTTTGTGCTGGCAATGCCAAGCGGGAAGGATGCTT  
GCTTCGGTGACTCAGGTGACCCTTGGCCTGTAAACAAGATGGACTGTGGTATCAGATTGGAGTCGTGAG  
CTGGGGAGTGGGCTGTGGTCGGCCCAATCGGCCGGTGTCTACACCAATATCAGCCACCCTTTGAGTGG  
ATCCAGAAGCTGATGGCCAGAGTGGCATGTCCAGCCAGACCCCTCTGGCCACTACTCTTTTTCCCTC  
TTCTCTGGGCTCTCCACTCTGGGCGCGTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG210423 representing NM\_006799  
 Red=Cloning site Green=Tags(s)

MGARGALLLALLLARAGLRKPESQEAAPLSGPCGRRVITSRIVGGEDAELGRWPWQGLRLWDSHVCVGS  
 LLSHRWALTAACHFETYSDLSDPSGWMVQFQGLTSMPSFWSLQAYYTRYFVSNIYLSRYLGNSPYDIAL  
 VKLSAPVYTKHIQPICLQASTFEFENRTDCWVTGWGYIKEDEALPSPHTLQEVQVAIINNSMCNHLFLK  
 YSFRKIDIFGDMVCAGNAQGGKDACFGDSGGPLACNKNGLWYQIGVVSWGVCGRPNRPGVYTNISHHFEW  
 IQKLMAQSGMSQPDPSWPLLLFFPLLWALPLLGPV

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_006799

**ORF Size:** 942 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\\_006799.2](#), [NP\\_006790.1](#)

**RefSeq Size:** 1165 bp

**RefSeq ORF:** 945 bp

**Locus ID:** 10942

**UniProt ID:** [Q9Y6M0](#)

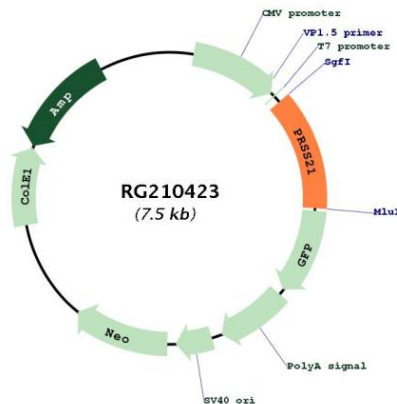
**Cytogenetics:** 16p13.3

**Domains:** Tryp\_SPC

**Protein Families:** Druggable Genome

**Gene Summary:** This gene encodes a cell-surface anchored serine protease, which is a member of the trypsin family of serine proteases. The encoded protein is predicted to be active on peptide linkages involving the carboxyl group of lysine or arginine. The encoded protein localizes to the cytoplasm and the plasma membrane of premeiotic testicular germ cells and may be involved in progression of testicular tumors of germ cell origin. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Jul 2012]

**Product images:**



Circular map for RG210423