

## Product datasheet for **RG219903**

### **TMPRSS7 (NM\_001042575) Human Tagged ORF Clone**

#### **Product data:**

|                           |                                               |
|---------------------------|-----------------------------------------------|
| Product Type:             | Expression Plasmids                           |
| Product Name:             | TMPRSS7 (NM_001042575) Human Tagged ORF Clone |
| Tag:                      | TurboGFP                                      |
| Symbol:                   | TMPRSS7                                       |
| Mammalian Cell Selection: | Neomycin                                      |
| Vector:                   | pCMV6-AC-GFP (PS100010)                       |
| E. coli Selection:        | Ampicillin (100 ug/mL)                        |



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**ORF Nucleotide Sequence:**

>RG219903 representing NM\_001042575  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGTCACTTCAAGCTGGTGGCCATAGTGGGCTACCTGATTCTCTCAATCAAGTCCATCCAAATCG  
 AAGCCGCAACTGTGCTACTGACTCCCTGACCATTACGACTCCCTTTGCCCATCCGGAGCAGCATCTT  
 GTACAGAAATTTGTGAACCCACAAGAACATTAATGTCATTTGTTTCTACAAATAATCTCATGTTGGTGACA  
 TTAAAGTCTCCTCATATACGGAGGCTCTCAGGAATCCGGGCATATTTGAGGTCAATCCAGAACAAAAGT  
 GTGAAACACAGTGTGGTCAAAGACATCACTGGCTTTGAAGGAAAAATTTCAAGCCCATATTACCCGAG  
 CTACTATCCTCCAAAATGCAAGTGTACCTGAAATTTGAGACTTCTCTATCAACTCTTGGCATAGCACTG  
 AAATCTATAACTATTCAATAACCAAGAAGAGTATGAAAGGCTGTGAGCATGGATGGTGGGAAATTAATG  
 AGCACATGTACTGTGGCTCCTACATGGATCATCAGACAATTTTCGAGTGCCAGCCCTCTGGTTCACAT  
 TCAGCTCCAGTGCAGTTCAGGCTTTGAGACAAGCCACTTTTGGCAGAATATGGCAGTTACAACATCAGT  
 CAACCCTGCCCTGTTGGATCTTTAGATGCTCCTCCGGTTTATGTGTCCCTCAGGCCAGCGTTGTGATG  
 GAGTAAATGACTGCTTTGATGAAAGTGTGAAGTGTGCGTGAGCCCTCAACCTGCCTGCAATACCGAG  
 CTCCTTCAGGCAGCATGGCCCTCTCATCTGTGATGGCTTCAGGGACTGTGAGAATGGCCGGGATGAGCAA  
 AACTGCACTCAAAGTATTCATGCAACAACAGAACTTTAAGTGTGGCAATGATATTTGCTTTAGGAAAC  
 AAAATGCAAAATGTGATGGGACAGTGGATTGTCCAGATGGAAGTGTGAGAAGGCTGCACCTGCAGCAG  
 GAGTTCCTCCGCCCTTACCCGCATCATCGGAGGCACAGACACCCTGGAGGGGGTTGGCCGTGGCAGGTC  
 AGCCTCCACTTTGTTGGATCTGCCTACTGTGGTGCCTCAGTCATCTCCAGGAGTGGCTTCTTTCTGCAG  
 CCCACTGTTTTTATGGAACAGGCTGTGAGATCCACACCATGGACTGCACACCTCGGATGTATGTTCA  
 GGGGAATGCCAAGTTTGTCTCCCCGTGAGAAGAATTGTGGTCCACGAGTACTATAACAGTCAGACTTTT  
 GATTATGATATTGCTTTGCTACAGCTCAGTATTGCCTGGCTGAGACCCTGAAACAGCTCATTACGCCAA  
 TATGCATTCTCCCACTGGTCAGAGAGTTCGAGTGGGAGAAGTGTGGTAACTGGTGGGGGCGAAG  
 ACACGAAGCAGATAATAAAGGCTCCCTCGTTCTGCAGCAAGCGGAGGTAGAGCTCATTGATCAAACGCTC  
 TGTGTTTCCACCTACGGGATCATCACTTCTCGGATGCTCTGTGCAGGCATAATGTCAGGCAAGAGAGATG  
 CCTGCAAAGGAGATTCGGGTGGACCTTTATCTTGTGCAAGAAAAAGTGTGGAATGGATTTTGACTGG  
 CATTGTTAGCTGGGACATGGATGTGGACGACCAAACTTTCTGGTGTTACACAAGGGTGTCAAACCTT  
 GTTCCCTGGATCATAAATATGTCCCTTCTCTTTG

**ACGCGT**ACGCGGCGGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

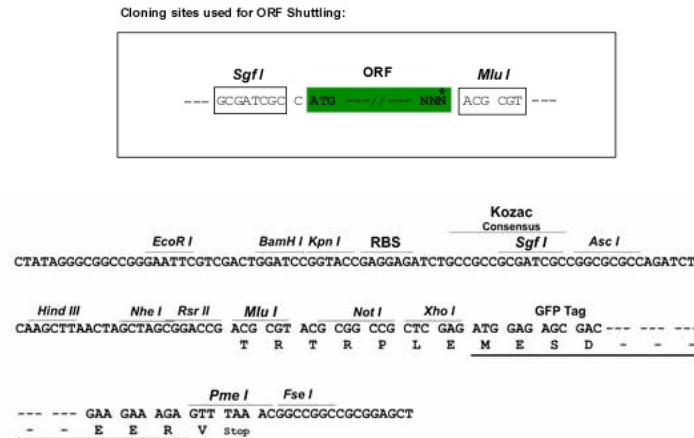
>RG219903 representing NM\_001042575  
 Red=Cloning site Green=Tags(s)

MCHFVLVAIVGYLIRLSIKSIQIEADNCVTDLSLTIIYDSLLPIRSSILYRICEPTRTLMSFVSTNNMLVT  
 FKSPHIRRLSGIRAYFEVIPEQKCENTVLVKDITGFEGKISSPYPSYPPKCKCTWKFTSLSTLGIAL  
 KFYNYISITKSMKGCEHGWWEINEHMYCGSYMDHQTIFRVPSPLVHIQLQCSSRLSDKPLLAEGYSYNIS  
 QPCPVGSFRCSSGLCVPQAQRCDGVNDCFDESDELFCVSPQPACNTSSFQHGPLICDGFRCENGREDEQ  
 NCTQSIPCNNRTFKCGNDICFRKQNAKCDGTVDPCDGSDEEGCTCSRSSALHRIIGGTDTEGGWPWQV  
 SLHFVGSAYCGASVISREWLLSAAHCFHGNRLSDPTPWAHLGMYVQGNKAFVSPVRRIVVHEYNSQTF  
 DYDIALQLLSIAWPETLKQLIQPICIPPTGQVRVSGEKCWVTGWGRRHEADNKGSLVLQQAEEVLIDQTL  
 CVSTYGIITSRMLCAGIMSGKRDACKGDSGGPLSCRKSDGKWILTGIVSWGHCGRPNFPGVYTRVSNF  
 VPWIHKYVPSLL

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001042575

**ORF Size:** 1716 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\\_001042575.1](#), [NP\\_001036040.1](#)

**RefSeq Size:** 2622 bp

**RefSeq ORF:** 2154 bp

**Locus ID:** 344805

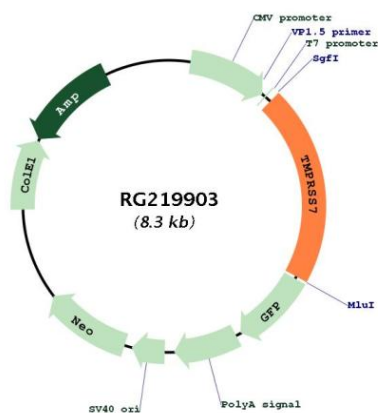
**UniProt ID:** [Q7RTY8](#)

**Cytogenetics:** 3q13.2

**Protein Families:** Druggable Genome

**Gene Summary:** Serine protease which preferentially hydrolyzes peptides with Arg at the P1 position.  
[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RG219903