

Product datasheet for **RC219903**

TMPRSS7 (NM_001042575) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMPRSS7 (NM_001042575) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMPRSS7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC219903 representing NM_001042575
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGTCACTTCAAGCTGGTGGCCATAGTGGGCTACCTGATTCTCTCTCAATCAAGTCCATCCAAATCG
 AAGCCGACAACGTGTGCTACTGACTCCCTGACCATTACGACTCCCTTTTGGCCATCCGGAGCAGCATCTT
 GTACAGAAATTTGTGAACCCACAAGAACATTAATGTCATTTGTTTCTACAAATAATCTCATGTTGGTGACA
 TTTAAGTCTCCTCATATACGGAGGCTCTCAGGAATCCGGGCATATTTGAGGTCAATCCAGAACAAAAGT
 GTGAAACACAGTGTGGTCAAAGACATCACTGGCTTTGAAGGAAAAATTTCAAGCCCATATTACCCGAG
 CTACTATCCTCCAAAATGCAAGTGTACCTGAAATTTGAGACTTCTCTATCAACTCTTGCGATAGCACTG
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 TCAGCTCCAGTGCAGTTCAGGCTTTGAGACAAGCCACTTTTGGCAGAATATGGCAGTTACAACATCAGT
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 GAGTAAATGACTGCTTTGATGAAAGTGTGAAGTGTGTTTTCGTGAGCCCTCAACCTGCCTGCAATACCGAG
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 TATGCATTCTCCCACTGGTCAGAGAGTTCGAGTGGGAGAAGTGTGGGTAAGTGGTGGGGGCGAAG
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 TGTGTTTCCACCTACGGGATCATCACTTCTCGGATGCTCTGTGCAGGCATAATGTCAGGCAAGAGAGATG
 CCTGCAAAGGAGATTCGGGTGGACCTTTATCTTGTGCAAGAAAAAGTGTGGAATGGATTTGACTGG
 CATTGTTAGCTGGGACATGGATGTGGACGACCAAACTTTCTGGTGTTACACAAGGTGTCAAACCTT
 GTTCCCTGGATCATAAATATGTCCTTCTCTTTTG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC219903 representing NM_001042575
 Red=Cloning site Green=Tags(s)

MCHFKLVAIVGYLIRLSIKSIQIEADNCVTDLSLTIIYDSSLPIRSSILYRICEPTRTLMFSVSTNNMLVT
 FKSPHIRRLSGIRAYFEVIPEQKCENTVLVKDITGFEGKISSPYPSYPPKCKCTWKFTSLSTLGIAL
 KFYNYISITKSKMGCEHGWWEINEHMYCGSYMHDQITFRVPSPLVHIQLQCSSRLSDKPLLAIEYGSYNIS
 QPCPVGSFRCSSGLCVPQAQRCDGVNDCFDESDELFVSPQPACNTSSFRQHGPLICDGFDRDCENGRDEQ
 NCTQSI PCNNRTFKCGNDICFRKQNAKCDGTVDPCDGSDEEGCTCSRSSALHRIIGGTDTEGGWPWQV
 SLHFVGSAYCGASVISREWLLSAAHCFHGNRLSDPTPWAHLGMYVQGNKAFVSPVRRIVVHEYNSQTF
 DYDIALQLLSIAWPETLKQLIQPICIPPTGQVRSGEKCWVTGWGRRHEADNKGSLVLQQAEEVLIDQTL
 CVSTYGIITSRLCAGIMSGKRDACKGDSGGPLSCRKSDGKWILTGIVSWGHCGRPNFPGVYTRVSNF
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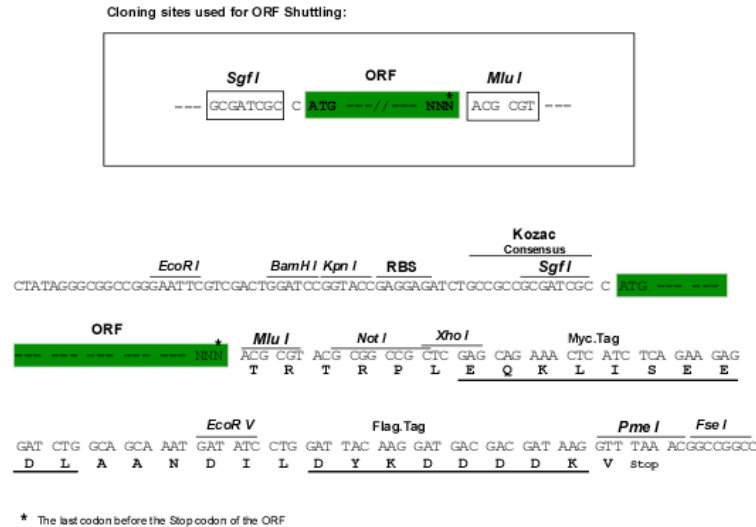
Chromatograms:

https://cdn.origene.com/chromatograms/mg2577_f01.zip

Restriction Sites:

SgfI-MluI

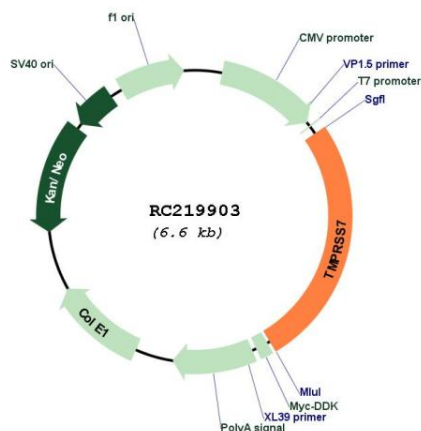
Cloning Scheme:



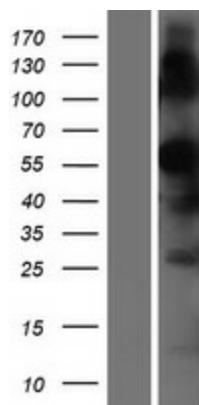
ACCN:	NM_001042575
ORF Size:	1716 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
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
MW: 63.9 kDa
Gene Summary: Serine protease which preferentially hydrolyzes peptides with Arg at the P1 position. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC219903



Western blot validation of overexpression lysate (Cat# [LY420988]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219903 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).