

Product datasheet for **RG203972**

TMPRSS4 (NM_019894) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMPRSS4 (NM_019894) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TMPRSS4
Synonyms:	CAP2; CAPH2; MT-SP2; TMPRSS3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203972 representing NM_019894 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTACAGGATCCTGACAGTGATCAACCTCTGAACAGCCTCGATGTCAAACCCCTGCGCAAACCCCGTA
TCCCCATGGAGACCTTCAGAAAGGTGGGATCCCCATCATCATAGCACTACTGAGCCTGGCGAGTATCAT
CATTGTGGTTGTCCTCATCAAGGTGATTCTGGATAAATACTACTTCTCTGCGGGCAGCCTCTCCACTTC
ATCCCAGGAAGCAGCTGTGTGACGGAGAGCTGGACTGTCCCTTGGGGGAGGACGAGGAGCACTGTGTCA
AGAGCTTCCCAGAAAGGGCTGCAGTGGCAGTCCGCCTCTCCAAGGACCGATCCACACTGCAGGTGCTGGA
CTCGGCCACAGGGAAGTGGTCTCTGCCTGTTTCGACAACCTCACAGAAGCTCTCGCTGAGACAGCCTGT
AGGCAGATGGGCTACAGCAGCAAACCCACTTTCAGAGCTGTGGAGATTGGCCAGACCAGGATCTGGATG
TTGTTGAAATCACAGAAAACAGCCAGGAGCTTCGCATGCGGAACTCAAGTGGGCCCTGTCTCTCAGGCTC
CCTGGTCTCCCTGCACTGTCTTGCCCTGTGGGAAGAGCCTGAAGACCCCCCGTGTGGTGGGTGGGAGGAG
GCCTCTGTGGATTCTTGGCCTTGGCAGGTGAGCATCCAGTACGACAAACAGCACGTCTGTGGAGGGAGCA
TCCTGGACCCCACTGGGTCTCACGGCAGCCCACTGCTTCAAGAAACATACCGATGTGTCAACTGGAA
GGTGGGGCAGGCTCAGACAACTGGGCAGCTTCCCATCCCTGGCTGTGGCAAGATCATCATCATTGAA
TTCAACCCCATGTACCCAAAGACAATGACATCGCCCTCATGAAGCTGCAGTTCACACTCACTTTCTCAG
GCACAGTCAGGCCATCTGTCTGCCCTTCTTGTGAGGAGCTCACTCCAGCCACCCCACTCTGGATCAT
TGGATGGGCTTTACGAAGCAGAATGGAGGGAAGATGTCTGACATACTGTGCAGGCGTCAGTCCAGGTC
ATTGACAGCACACGGTGAATGCAGACGATGCGTACCAGGGGGAAGTACCAGAGAAGATGATGTGTGCAG
GCATCCCAGGAAGGGGTGTGGACACCTGCCAGGTTGACAGTGGTGGGCCCTGATGTACCAATCTGACCA
GTGGCATGTGGTGGGCATCGTTAGCTGGGGCTATGGCTGCGGGGGCCGAGCACCCAGGAGTATACACC
AAGTCTCAGCCTATCTCAACTGGATCTACAATGTCTGGAAGGCTGAGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG203972 representing NM_019894
Red=Cloning site Green=Tags(s)

MLQDPDSDQPLNSLDVKPLRKPRIPMETFRKVGIPIIIIALLSLASIIIVVLIKVILDKYYFLCGQPLHF
 IPRKQLCDGELDCPLGEDEEHCVKSFPEGPAVAVRLSKDRSTLQVLD SATGNWFSACFDNFTEAL AETAC
 RQMGYSSKPTFRAVEIGPDQDL DVVEITENSQELMRNNSGPGCLSGSLVSLHCLACGKSLKTPRVVGEE
 ASVDSWPWQVSIQYDKQHVCGGSILDPHWLTAHCFRKHTDVFNWKVRAGSDKLG SFPSLAVAKIIIE
 FNPMPYKNDIALMKLQFPLTFSGTVRPICLPFFDEELTPATPLWIIIGWFTKQNGGKMSDILLQASVQV
 IDSTRCNADDAYQGEVTEKMM CAGIPEGGVDT CQGD SGGPLMYQSDQWHVVGIVSWGYCGGPSTPGVYT
 KVSAYLNWIYNVWKAEL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019894

ORF Size: 1311 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_019894.2](#), [NP_063947.1](#)

RefSeq Size: 2124 bp

RefSeq ORF: 1314 bp

Locus ID: 56649

UniProt ID: [Q9NRS4](#)

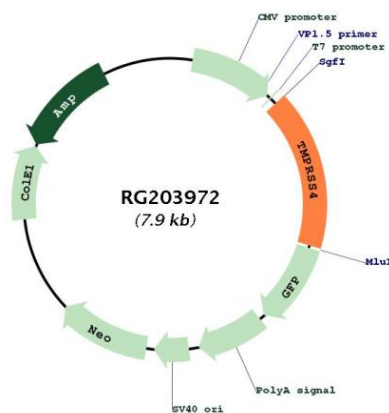
Cytogenetics: 11q23.3

Domains: SR, Tryp_SPc

Protein Families: Druggable Genome, Protease, Transmembrane

Gene Summary: This gene encodes a member of the serine protease family. Serine proteases are known to be involved in a variety of biological processes, whose malfunction often leads to human diseases and disorders. This gene was identified as a gene overexpressed in pancreatic carcinoma. The encoded protein is membrane bound with a N-terminal anchor sequence and a glycosylated extracellular region containing the serine protease domain. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG203972