

Product datasheet for **RG230081**

TMPRSS4 (NM_001173551) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMPRSS4 (NM_001173551) 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:	>RG230081 representing NM_001173551 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATCCTGACAGTGATCAACCTCTGAACAGCCTCGATGTCAAACCCCTGCGCAAACCCCGTATCCCCA
TGGAGACCTTCAGAAAGGTGGGGATCCCCATCATAGCACTACTGAGCCTGGCGAGTATCATATTGT
GGTTGTCCTCATCAAGGTGATTCTGGATAAATACTACTTCTCTGCGGGCAGCCTCTCCACTTCATCCCG
AGGAAGCAGCTGTGTGACGGAGAGCTGGACTGTCCCTTGGGGGAGGACGAGGAGCACTGTGTCAAGAGCT
TCCCCGAAGGGCCTGCAGTGGCAGTCCGCCTCTCCAAGGACCGATCCACACTGCAGTGTGGACTCGGC
CACAGGGAAGTGGTTCTCTGCCTGTTTCGACAACCTCACAGAAGCTCTCGCTGAGACAGCCTGTAGGCAG
ATGGGCTACAGCAGCAAACCCACTTTCAGAGCTGTGGAGATTGGCCCAGACCAGGATCTGGATGTTGTTG
AAATCACAGAAAACAGCCAGGAGCTTCGCATGCGGAACTCAAGTGGGCCCTGTCTCTCAGGCTCCCTGGT
CTCCCTGCACTGTCTTGCTGTGGGAAGAGCCTGAAGACCCCGTGTGGTGGGTGGGGAGGAGGCCCTCT
GTGGATTCTTGGCCTTGGCAGGTGAGTCCAGTACGACAAACAGCACGTCTGTGGAGGGAGCATCTGG
ACCCCACTGGGTCTCACGGCAGCCACTGCTTCAGGAAACATACCGATGTGTTCAACTGGAAGGTGCG
GGCAGGCTCAGACAACTGGGCAGCTTCCATCCCTGGCTGTGGCAAGATCATCATATTGAATTCAAC
CCCATGTACCCCAAAGACAATGACATCGCCCTCATGAAGCTGCAGTTCACACTACTTTCTCAGGCACAG
TCAGGCCATCTGTCTGCCCTTCTTTGATGAGGAGCTCACTCCAGCCACCCACTCTGGATCATTGGATG
GGGCTTACGAAGCAGAATGGAGGGAAGATGTCTGACATACTGTGCAGGCGTCAGTCCAGGTCATTGAC
AGCACACGGTGAATGCAGACGATGCGTACCAGGGGGAAGTACCAGAGAAGATGATGTGTGCAGGCATCC
CGGAAGGGGGTGTGGACACCTGCCAGGGTACAGTGGTGGGCCCTGATGTACCAATCTGACCAGTGGCA
TGTGGTGGGCATCGTTAGTTGGGCTATGGCTGCGGGGGCCGAGCACCCAGGAGTATACACCAAGGTC
TCAGCCTATCTCAACTGGATCTACAATGTCTGGAAGGCTGAGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG230081 representing NM_001173551
 Red=Cloning site Green=Tags(s)

MDPDSQPLNSLDVKPLRKPRIPMETFRKVGIPIIIIALLSLASIIIVVLIKVILDKYYFLCGQPLHFIP
 RKQLCDGELDCPLGEDEEHCVKSFPEGPAVAVRLSKDRSTLQVLDSATGNWFSACFDNFTEALAEACRQ
 MGYSSKPTFRAVEIGPDQDLDVVEITENSQELMRNNSGPGCLSGSLVSLHCLACGKSLKTPRVVGGEEAS
 VDSWPWQVSIQYDKQHVCGGSILDPHWLTAAHCFRKHDTDFNWKVRAGSDKLGSPSLAVAKIIIEFN
 PMYPKDNDIALMKLQFPLTFSGTVRPICLPFDEELTPATPLWIIGWGFTKQNGGKMSDILLQASVQVID
 STRCNADDAYQGEVTEKMMACAGIPEGGVDTCQGDSSGGLMYQSDQWHVVGIVSWGYGCGGPSTPGVYTKV
 SAYLNWIYVWKAEL

TRTRPLE - GFP Tag - V

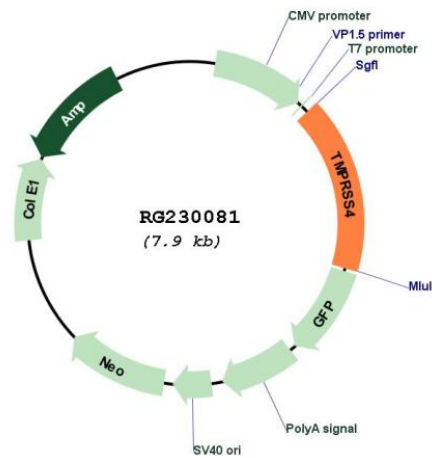
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001173551

ORF Size:	1305 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<ol style="list-style-type: none">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_001173551.1 , NP_001167022.1
RefSeq Size:	3543 bp
RefSeq ORF:	1308 bp
Locus ID:	56649
Cytogenetics:	11q23.3
Protein Families:	Druggable Genome, Protease, Transmembrane
Gene Summary:	<p>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]</p>