

Product datasheet for **RG224725**

TMPRSS4 (NM_001083947) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TMPRSS4 (NM_001083947) 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: >RG224725 representing NM_001083947
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTACAGGATCCTGACAGTGATCAACCTCTGAACAGCCTCGATGTCAAACCCCTGCGCAAACCCCGTA
TCCCCATGGAGACCTTCAGAAAGGTGGGGATCCCCATCATCATAGCACTACTGAGCCTGGCGAGTATCAT
CATTGTGGTTGTCCTCATCAAGGTGATTCTGGATAAATACTACTTCTCTGCGGGCAGCCTCTCCACTTC
ATCCCAGGAAGCAGCTGTGTGACGGAGAGCTGGACTGTCCCTTGGGGGAGGACGAGGAGCACTGTGTCA
AGAGCTTCCCAGGAGGCTGCAGTGGCAGTCCGCCTCTCCAAGGACCGATCCACACTGCAGGTGCTGGA
CTCGGCCACAGGGAAGTCTCTGCCTGTTTCGACAACCTCACAGAAGCTCTCGCTGAGACAGCCTGT
AGGCAGATGGGCTACAGCAGAGCTGTGGAGATTGGCCAGACCAGGATCTGGATGTTGTTGAAATCACAG
AAAACAGCCAGGAGCTTCGCATGCGGAACCTCAAGTGGGCCTGTCTCTCAGGCTCCCTGGTCTCCCTGCA
CTGTCTTGCTGTGGGAAGACCTGAAGACCCCCGTGTGGTGGGTGGGGAGGAGGCTCTGTGGATTCT
TGGCCTTGGCAGGTGAGCATCCAGTACGACAAACAGCAGTCTGTGGAGGGAGCATCCTGGACCCCACT
GGTCTCACGGCAGCCCACTGCTTCAGGAAACATACCGATGTGTTCACTGGAAGGTGCGGGCAGGCTC
AGACAACTGGGAGCTTCCCATCCCTGGCTGTGGCAAGATCATCATATTGAATCAACCCCATGTAC
CCCAAAGACAATGACATCGCCCTCATGAAGCTGCAGTTCACACTCACTTCTCAGGCACAGTCAGGCCCA
CTGTCTGCCCTTCTTTGATGAGGAGCTCACTCCAGCCACCCCACTCTGGATCATTGGATGGGGCTTAC
GAAGCAGAATGGAGGAAGATGTCTGACATACTGCTGCAGGCGTCAGTCCAGGTCAATGACAGCACACGG
TGCAATGCAGACGATGCGTACCAGGGGGAAGTACCGAGAAGATGATGTGTGAGGCATCCCGGAAGGGG
GTGTGGACACCTGCCAGGTGACAGTGGTGGGCCCTGATGTACCAATCTGACCAGTGGCATGTGGTGGG
CATCGTTAGTTGGGGCTATGGCTGCGGGGGCCGAGCACCCAGGAGTATACACCAAGGTCTCAGCCTAT
CTCAACTGGATCTACAATGTCTGGAAGGCTGAGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG224725 representing NM_001083947
 Red=Cloning site Green=Tags(s)

MLQDPDSDQPLNSLDVKPLRKPRIPMETFRKVGIPITIIALLSLASIIIVVLIKVILDKYYFLCGQPLHF
 IPRKQLCDGELDCPLGEDEEHCVKSFPEGPAVAVRLSKDRSTLQVLD SATGNWFSACFDNFTEAL AETAC
 RQMGYSRAVEIGPDQDL DVVEITENSQELRMRNSSGPCLSGSLVSLHCLACGKSLKTPRVVGGEEASVDS
 WPWQVSIQYDKQHVC GGSILDPHWLTA AHC FRKHTDVF NWKVRAGSDKLG SFPSLAVAKII IIEFNPMY
 PKDNDIALMKLQFPLTFSGTVRPICLPFFDEELTPATPLWIIGWGFTKQNGGKMSDILLQASVQVIDSTR
 CNADDAYQGEVTEKMMCAGIPEGVDTCQGDSGGPLMYQSDQWHVVGIVSWGYGCGGPSTPGVYTKVSAY
 LNWIYNVWKAEL

TRTRPLE - GFP Tag - V

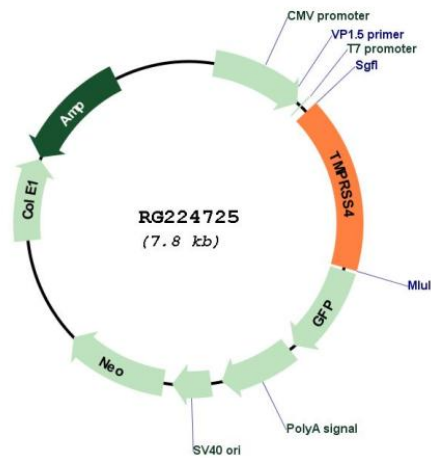
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001083947

ORF Size:	1296 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:	<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_001083947.1 , NP_001077416.1
RefSeq Size:	3534 bp
RefSeq ORF:	1299 bp
Locus ID:	56649
UniProt ID:	Q9NRS4
Cytogenetics:	11q23.3
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]