

Product datasheet for **RG217066**

TMPRSS11D (NM_004262) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TMPRSS11D
Synonyms:	ASP; HAT
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG217066 representing NM_004262
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGTATAGGCCAGCACGTGTAACCTCGACTTCAAGATTCTGAATCCATATGTAGTATGTTTCATTGTCTG
TCGCAGGGGTAGTGATCTGGCAGTCACCATAGCTCTACTTGTTTACTTTTAGCTTTTGATCAAAAATC
TTACTTTTATAGGAGCAGTTTCAACTCCTAAATGTTGAATATAATAGTCAGTTAAATTACCAGCTACA
CAGGAATACAGGACTTTGAGTGGAAGAATTGAATCTCTGATTACTAAACATTCAAAGAATCAAAATTTAA
GAAATCAGTTCATCAGAGCTCATGTTGCCAACTGAGGCAAGATGGTAGTGGTGTGAGAGCGGATGTTGT
CATGAAATTTCAATTCCTAGAAAATAACAATGGAGCATCAATGAAAAGCAGAATTGAGTCTGTTTACGA
CAATGCTGAATAACTCTGGAACCTGGAATAAACCTTCAACTGAGATAACATCACTTACTGACCAGG
CTGCAGCAAAATGGCTTATTAATGAATGTGGGCGCGTCCAGACCTAATAACATTGTCTGAGCAGAGAAT
CCTTGGAGGCACTGAGGCTGAGGAGGGAAGCTGGCCGTGGCAAGTCAGTCTGCGGCTCAATAATGCCAC
CACTGTGGAGGCAGCCTGATCAATAACATGTGGATCCTGACAGCAGCTCACTGCTTCAGAAGCAACTCTA
ATCCTCGTGACTGGATTGCCACGTCTGGTATTTCCACAACATTTCTAACTAAGAATGAGAGTAAGAAA
TATTTTAATTCATAACAATTATAAATCTGCAACTCATGAAAATGACATTGCACTTGTGAGACTTGAGAAC
AGTGTCACCTTTACCAAAGATATCCATAGTGTGTCTCCAGCTGCTACCCAGAATATTCACCTGGCT
CTACTGCTTATGTAACAGGATGGGCGCTCAAGAATATGCTGGCCACACAGTTCAGAGCTAAGGCAAGG
ACAGGTGAGAATAATAAGTAATGATGTATGTAATGCACCACATAGTTATAATGGAGCCATCTTGTCTGGA
ATGCTGTGTGCTGGAGTACCTCAAGGTGGAGTGGACGCATGTCAGGGTGACTCTGGTGGCCCACTAGTAC
AAGAAGACTCACGGCGGCTTTGGTTTATTGTGGGGATAGTAAGCTGGGGAGATCAGTGTGGCCTGCCGGA
TAAGCCAGGAGTGATACTCGAGTGACAGCCTACCTTGACTGGATTAGGCAACAACTGGGATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG217066 representing NM_004262
Red=Cloning site Green=Tags(s)

MYRPARVTSTSRFLNPYVVCFIGVAGVILAVTIALLVYFLAFDQKSYFYRSSFQLLNVEYNSQLNSPAT
QEYRTLSGRIESLITKTFKESNLNRNQFIRAHVAKLRQDGSVGRADVVMKFQFTRNNNGASMKSRIESVLR
QMLNNSGNLEINPSTEITSLTDQAAANWLINCEGAGPDLITLSEQRILGGTEAEEGSPWPQVSLRLNNAH
HCGGSLINNMWILTAACHFRSNSNPRDWIATSGISTTFPKLRMRVRNLIHNNYKSATHENDIALVRLEN
SVTFTKDIHSVCLPAATQNIIPPGSTAYVTGWGAQEYAGHTVPELRQGQVRIISNDVCNAPHSYNGAILSG
MLCAGVPQGGVDACQDGGGGLVQEDSRRLWFIIVGIVSWGDCGLPDKPGVYTRVTAYLDWIRQQGTGI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004262

ORF Size: 1254 bp

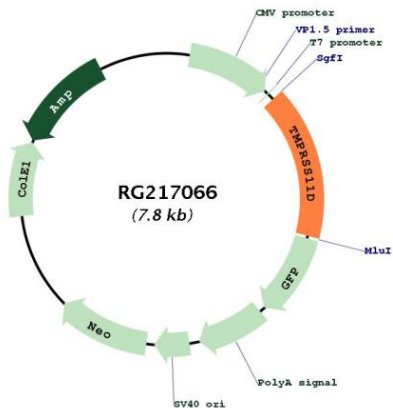
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_004262.3</u>
RefSeq Size:	2800 bp
RefSeq ORF:	1257 bp
Locus ID:	9407
UniProt ID:	<u>O60235</u>
Cytogenetics:	4q13.2
Protein Families:	Druggable Genome, Protease, Secreted Protein, Transmembrane
Gene Summary:	This gene encodes a trypsin-like serine protease released from the submucosal serous glands onto mucous membrane. It is a type II integral membrane protein and has 29-38% identity in the sequence of the catalytic region with human hepsin, enteropeptidase, acrosin, and mast cell tryptase. The noncatalytic region has little similarity to other known proteins. This protein may play some biological role in the host defense system on the mucous membrane independently of or in cooperation with other substances in airway mucous or bronchial secretions. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG217066