

Product datasheet for **MR207852**

Tmprss2 (NM_015775) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmprss2 (NM_015775) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmprss2
Synonyms:	D16Ertd61e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207852 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCATTGAACTCAGGGTCACCTCCAGGAATCGGACCTTGCTATGAGAACCACGGGTATCAGTCTGAGC
 ACATCTGTCTCCGAGACCACAGTGGCTCCCAATGGCTACAACCTGTATCCAGCCCACTACTACCCATC
 TCCAGTGCCTCAGTATGCTCCGAGGATTACAACGCAAGCCTCAACATCTGTTCATCCACACATCCCAAG
 TCCTCAGGAGCACTGTGCACCTCAAAGTCTAAGAAATCGCTGTGTTTAGCCCTCGCCCTGGGCACTGTCC
 TCACGGGAGCTGCTGTGGCTGCTGCTTCTGCTTTGGAGGTTCTGGGACAGCAACTGTTCTACGCTGAGAT
 GGAGTGTGGTCTTCAGGCACATGCATCAGCTCTTCTCTGCTGTGACGGGTAGCACATTGTCCCAAC
 GGAGAAGATGAGAACCGTTGTGTCGCTCTACGGACAAAGCTTCATCCTCCAGGTTTACTCATCTCAGA
 GAAAGCCTGGTATCCCCTGTGCCAGGATGATTGGAGTGAGAGCTACGGGAGAGCAGCATGTAAGACAT
 GGGATACAAGAACAATTTTTATTCTAGCCAAGGATACCAGACCAGAGCGGGCAACGAGCTTTATGAAG
 CTGAATGTGAGCTCAGGCAACGTTGACCTCTATAAAAACTCTACCACAGTGACTCATGTTTCATCCCGCA
 TGGTGGTTTTCTTTCGCGCTGTATAGAATCGCGGGTTCGCTCAGTGAACCGCAGAGCAGGATTGTGGGTGG
 ATTGAATGCCTCACCGAGACTGGCCCTGGCAGGTGACCTGCACGTCCAAGGCGTCCAGTCTGCGGA
 GGCTCCATCATACCCCCGAGTGGATTGTGACGGCCGCCACTGTGTGGAAGAACCCTCAGCAGCCCGA
 GGTAAGTGGACGGCATTTCGCGGAATTCTGAGACAGTCTCTCATGTTCTATGGAAGTAGACACCAGGTAGA
 AAAAGTAAATCCCATCCAAATACGACTCTAAGACCAAGAATAACGACATTGCTCTCATGAAGTGCAG
 ACACCTTTGGCTTTTAAATGATCTAGTGAAGCCAGTGTGCTGCCGAACCCAGGCATGATGCTAGACCTAG
 ACCAGGAATGCTGGATTTCCGGGTGGGGGCCACCTATGAGAAAGGGAAGACCTCGGACGTGTTGAATGC
 TGCCATGGTACCCTTGATCGAGCCCTCCAAATGTAATAGTAAATACATATAACAACAACCTAATCACACCA
 GCCATGATCTGTGCCGGCTTCTCCAGGGTCTGTGACTCTTCCAGGGAGACAGTGGAGGGCCGCTGG
 TTACTTTGAAGAATGGGATCTGGTGGCTGATTGGGACACGAGCTGGGGCTCGGGCTGTGCCAAGGCACT
 CAGACCTGGAGTATACGGGAACGTGACGGTATTTACAGATTGGATCTACCAGCAATGAGGGCGAACAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207852 protein sequence
 Red=Cloning site Green=Tags(s)

MALNSGSPPGIGPCYENHGYQSEHICPPRPPVAPNGYNLYPAQYYPSPVPQYAPRITTTQASTSVIHTHPK
 SSGALCTSKSKKSLCLALALGTVLTGAAVAALLLWRFWDSNCSTSEMEEGSSGTCISSSLWCDGVAHCPN
 GEDENRCVRLYGQSFILQVYSSQRKAWYPVCQDDWSESYGRAACKDMGYKNNFYSSQIPDQSGATSFMK
 LNVSSGNVDLYKKLYHSDSCSSRMVSLRCIECGVRSVKRQSRIVGGLNASPGDWPQVSLHVQGVHVC
 GSIITPEWIVTAAHCVEEPLSSPRYWTFAGILRQSLMFYGSRHQVEKVISHPNYDSKTKNNDIALMKLQ
 TPLAFNDLVKPVCLPNPGMMLDLQECWISGWATYKGTSDVLAAMVPLIEPSKCNKYIYNNLITP
 AMICAGFLQGSVDSCQDSSGGPLVTLKNGIWWLIGDTSWGSCKALRPGVYGNVTVFTDWIYQQMRANS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_015775

ORF Size: 1470 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_015775.2](#), [NP_056590.2](#)

RefSeq Size: 3175 bp

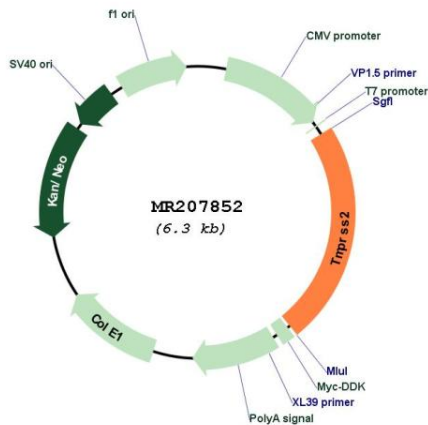
RefSeq ORF: 1473 bp

Locus ID: 50528

UniProt ID: [Q9J1Q8](#)
Cytogenetics: 16 57.53 cM
MW: 53.5 kDa

Gene Summary: Serine protease that proteolytically cleaves and activates the viral spike glycoproteins which facilitate virus-cell membrane fusions. The spike proteins are synthesized and maintained in precursor intermediate folding states and proteolysis permits the refolding and energy release required to create stable virus-cell linkages and membrane coalescence. Facilitates human SARS coronavirus (SARS-CoV) infection via two independent mechanisms, proteolytic cleavage of ACE2, which might promote viral uptake, and cleavage of coronavirus spike glycoprotein which activates the glycoprotein for cathepsin L-independent host cell entry. Proteolytically cleaves and activates the spike glycoproteins of human coronavirus 229E (HCoV-229E) and human coronavirus EMC (HCoV-EMC) and the fusion glycoproteins F0 of Sendai virus (SeV), human metapneumovirus (HMPV), human parainfluenza 1, 2, 3, 4a and 4b viruses (HPIV). Essential for spread and pathogenesis of influenza A virus (strains H1N1, H3N2 and H7N9) and is involved in proteolytic cleavage and activation of hemagglutinin (HA) protein which is essential for viral infectivity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207852