

Product datasheet for **MR210781**

Tmprss6 (NM_027902) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmprss6 (NM_027902) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmprss6
Synonyms:	1300008A22Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR210781 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCGAGATGTTCCAGCTCCCCTGTTCTACCAGGATGCCACCACCGAGTCCCCAAGCGGCTGATG
 GCAGGGCGATGCGGGTATGGAGAGGAAGCTGCTGAGCCAGAGGGAAGTTCAAGCCCCAAAAACAC
 CAAGAGAAAAACCGGGACTACGTCCGCTTACGCCACTGTTGCTGGTCTTGCTGCGCTGGTCTCAGCA
 GGGGTCATGCTTTGGTATTTCTAGGGTACAAAGCGGAAGTGACCGTAAGCCAGGTGACTCTGGCAGCC
 TCCGGGTGCTCAACCGTCATTTCTCCAGGACCTGGGCCAGCGGAGTCTATTGCTTTCCGAGTGAATC
 TGCCAAAGCCCAGAAGATGCTCCAAGAAGTGGTGGCAGCACCCGCTGGTACTACTACAACCTAGT
 TCTGTCTACTCCTTTGGGAGGGACCCCTCACCTGCTTCTTGGTTTATCCTTGACATCCCTGAGTACC
 AGCGACTGACCCTGAGCCCTGAAGTAGTGCAGGCTCCTGGTGGATGAGCTACTGTCCAACAGCTCAAC
 CCTGGCTTCTATAAGACCGAATATGAGGTGGACCCGGAAGGCCGGTGCCTGGAAGCCAGTGTGAAC
 GACATAGTCGACTGAATTCACGCTGGCTGTTATCGCTACAGCTATGTGAACCCAGGCCAGTCTCC
 CATTGAAGGGGCCTGACCAGCAGACCACAGCTGCCTGTGGCATCTGCAAGGGCCGAAGACCTCATGAT
 CAAAGTGCGGCTGGAGTGGACCCGGTTCGATTGCAGAGACAGGGTGGCGATGTACGACGAGCTGGGCC
 CTGGAGAAGAGACTTATCACCTCGGTCTATGGGTGCAGCCGCCAGGAACCTGTGATGGAGGTGCTGGCAT
 CGGGCTCCGTATGGCCGTGGTGTGAAAAAGGGCATGCATAGCTACTATGACCCTTTCTGCTCTCAGT
 GAAGTCTGTGGCCTTCCAGGACTGCCAGGTGAACCTGACACTGGAGGGCCGGTGGACACACAGGGCTTC
 CTCCGTACACCCTACTACCCAGTACTACTCTCCAGTACCCACTGCTCCTGGCATCTCACGGTACCCT
 CTCTGGACTACGGCTTGGCGCTGTTGTTGATGCCTACGCACTGAGGAGCAGAAGTACAACCGACTGTG
 TACTCAGGGCCAGTGGATGATCCAGAACAGGAGGCTGTGTGGCTCCGTACCCTGCAGCCATATGCTGAG
 AGGATCCCATGTTGGCCTCAGATGGTGTACCATCAACTTACCTCCAGATCTCCCTCACAGGCCGG
 GTGTGCAAGTGTACTACAGTTGTACAACCAATCAGACCCTGCCTGGTGGTGGTCTCTGCTGTGAA
 TGGACTGTGTGCTCCGTGTGACGGATCAAGGACTGCCCAATGGCCTGGATGAGAGAACTGTGTC
 TGCAGAGCCATGTTCCAGTGCCAAGAGGACAGCACGTGCATTTCACTGCCTAGAGTCTGTGACCGGCAGC
 CCGACTGTCTCAATGGCAGTGACGAAGAAGAGTGCCTGCAAGAGGAGTGCCTGTGGGACATTCACTTTCCA
 GTGTGAGGACCGAGCTGTGTGAAGAAGCCCAACCCAGAGTGTGACGGCCAGTCAAGTGCAGAGACGGC
 TCAGATGAGCAACACTGTGACTGTGGCCTCCAGGGCCTCTCCAGCCGATTGTGGGCGGGACCGTGTCT
 CCGAGGGTGTGAGTGGCCATGGCAGGCCAGCTCCAGATTCCGGGTGCAGACATCTGTGGGGGGCTCTCAT
 CGCTGACCCTGGTGCATAACGGCCGCCACTGCTTCCAGGAGGACAGCATGGCCTCCCCGAAGCTGTGG
 ACCGTGTTCTGGGAAAGATGCGGCAGAACTCGCGCTGGCCAGGCGAGGTGCTCTTCAAGGTGAGCCGTC
 TGTTCCTGCACCCGTACCACGAGGAGGACAGCCATGACTACGACGTGGCCCTGCTGCAGCTCGACCACC
 CGTGGTGTACTCGCCACTGTGCGCCCCGTGCTGCTGCTGCCCCTCCACTTCTTTGAGCCAGGCCAG
 CACTGTGGATCACAGGCTGGGGAGCCAGCGAGAGGGTGGTCCGGTGTGCAACACCCTGCAGAAGGTGG
 ACGTACAGCTGGTCCCTCAGGACCTGTGAGTGGGCTACCCTACCAGGTGTCCCACGCATGCTCTG
 TGCTGGTACCAGGCAAGGGCAAGAAAGATGCCTGCCAGGGTACTCTGGAGGCCACTGGTTTGCAGGGAG
 CCCAGTGGCCGCTGGTTCTGCGAGGGTTGGTTAGCTGGGGCCTGGGCTGTGGCCGACCCAAATTTCTTTG
 CGGTCTACACCCGTGCACACGTGTGATCAACTGGATCCAGCAGGTGCTGACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210781 protein sequence

Red=Cloning site Green=Tags(s)

MPRCFQLPCSTRMPTTEVPQAADGQGDAGDGEEAAEPEGKFKPPKNTKRKNRDYVRFPLLLVLAALVSA
GVMLWYFLGYKAEVTVSQVYSGSLRVLNRHFSQDLGRRESIAFRSESAKAQKMLQELVASTRLGTYYNSS
SVYFSGEGPLTCFFWFILDIPEYQRLTLSPEVVRELLVDELLSNSSTLASYKTEYEVDPEGLVILEASVN
DIVVNLSTLGCYRYSYVNPQVLPKGPDQQTTSCLWHLQGPEDLMIKVREWTRVDCRDRVAMYDAAGP
LEKRLITSVYGCSRQEPVMEVLASGSVMAVVWKKGMHSYYDPFLLSVKSVAFAQDCQVNLTEGRDQTQGF
LRTPYYPSYYSPSTHCSWHLTVPSLDYGLALWFDAYALRRQKYNRLCTQGQWMIQNRRLCGFRTLQPYAE
RIPMVASDGVTINFTSQISLTGPGVQVYYSLYNQSDPCPGEFLCSVNGLCVPACDGIKDCPNGLDERNCV
CRAMFQCQEDSTCISLPRVCDRQPDCLNGSDEEQCEGVP CGTFTFQCEDRSCVKKPNPECDGQSDCRDG
SDEQHCDCLQGLSSRIVGGTVSSEGEWPQASLQIRGRHICGGALIADRWWITAACHCFQEDSMASPKLW
TVFLGKMRQNSRWPGEVSFKVSRLFHPYHEEDSHDYDVALQLDHPVVYSATVRPVCLPARSHFFEPGQ
HCWITGWAQREGGPVSNLTKVDVQLVPQDLCEAYRYQVSPRMLCAGYRKGKGDACQGDSSGGLVCRE
PSGRWFLAGLVSWGLGCGRPNFFGVYTRVTRVINWIQQVLT

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_027902

ORF Size: 2436 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_027902.2](#), [NP_082178.2](#)

RefSeq Size: 3206 bp

RefSeq ORF: 2436 bp

Locus ID: 71753

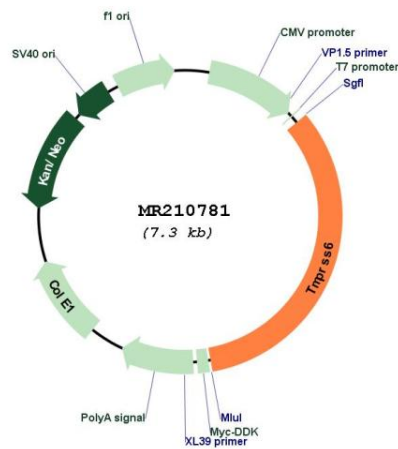
UniProt ID: [Q9DBI0](#)

Cytogenetics: 15 E1

MW: 91 kDa

Gene Summary: Serine protease which hydrolyzes a range of proteins including type I collagen, fibronectin and fibrinogen. Can also activate urokinase-type plasminogen activator with low efficiency. May play a specialized role in matrix remodeling processes in liver. Through the cleavage of HJV, a regulator of the expression of the iron absorption-regulating hormone hepcidin/HAMP, plays a role in iron homeostasis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210781