

## Recombinant Mouse Tmprss2 protein, His-tagged

**Cat. No.** Tmprss2-4893M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Tmprss2(105-490 aa) fused with His tag was expressed in HEK293.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>ProteinLength</b>	105-490 aa
<b>Description</b>	<p>This gene encodes a protein that belongs to the serine protease family. The encoded protein contains a type II transmembrane domain, a receptor class A domain, a scavenger receptor cysteine-rich domain and a protease domain. Serine proteases are known to be involved in many physiological and pathological processes. This gene was demonstrated to be up-regulated by androgenic hormones in prostate cancer cells and down-regulated in androgen-independent prostate cancer tissue. The protease domain of this protein is thought to be cleaved and secreted into cell media after autocleavage. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.</p>
<b>Form</b>	Tris-based buffer,50% glycerol
<b>AA Sequence</b>	<p>WRFWDS NCSTSEMECG SSGTCISSL WCDGVAHCPN GEDENRCVRL            YGQSFILQVY SSQRKAWYPV CQDDWSESYG RAACKDMGYK NNFYSSQGIP            DQSGATSFMK LNVSSGNVDL YKKLYHSDSC SSRMVVSLRC IECGVRSVKR            QSRIVGGLNA SPGDWPWQVS LHVQGVHVCV GSIITPEWIV TAAHCVEEPL</p>

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SSPRYWTAFA GILRQSLMFY GSRHQVEKVI SHPNYDSKTK NNDIALMKLQ  
 TPLAFNDLVK PVCLPNPGMM LDLDQECWIS GWGATYEK GK TSDVLNAAMV  
 PLIEPSKCNS KYIYNLITP AMICAGFLQG SVDSCQGDSG GPLVTLKNGI  
 WWLIGDTSWG SGCAKALRPG VYGNVTVFTD WIYQQMRANS

**Purity** >90% ( SDS-PAGE )

**Notes** Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

**Storage** Store at -20 centigrade, for extended storage, conserve at -20 centigrade or -80 centigrade.

## GENE INFORMATION

**Gene Name** [Tmprss2 transmembrane protease, serine 2 \[ Mus musculus \]](#)

**Official Symbol** [Tmprss2](#)

**Synonyms** TMPRSS2; transmembrane protease, serine 2; transmembrane protease serine 2; epitheliasin; plasmic transmembrane protein X; D16Ert61e; MGC6821;

**Gene ID** [50528](#)

**mRNA Refseq** [NM\\_015775](#)

**Protein Refseq** [NP\\_056590](#)

**MIM**

**UniProt ID** <http://www.uniprot.org/uniprot/Q9JIQ8>

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<b>Chromosome Location</b>	16 C2; 16 57.53 cM
<b>Pathway</b>	Influenza A, organism-specific biosystem; Influenza A, conserved biosystem; Transcriptional misregulation in cancer, organism-specific biosystem; Transcriptional misregulation in cancer, conserved biosystem;
<b>Function</b>	catalytic activity; hydrolase activity; peptidase activity; scavenger receptor activity; serine-type endopeptidase activity; serine-type peptidase activity;

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