

Recombinant Mouse Tmprss2 protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Mouse Tmprss2(105-490 aa) fused with His tag was expressed in HEK293.
Species	Mouse
Source	HEK293
ProteinLength	105-490 aa
Description	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.
Form	Tris-based buffer,50% glycerol
AA Sequence	WRFWDS NCSTSEMECG SSGTCISSL WCDGVAHCPN GEDENRCVRL YGQSFILQVY SSQRKAWYPV CQDDWSESYG RAACKDMGYK NNFYSSQGIP DQSGATSFMK LNVSSGNVDL YKKLYHSDSC SSRMVVSLRC IECGVRSVKR QSRIVGGLNA SPGDWPWQVS LHVQGVHVCV GSIITPEWIV TAAHCVEEPL

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SSPRYWTAFA GILRQSLMFY GSRHQVEKVI SHPNYDSKTK NNDIALMKLQ
 TPLAFNDLVK PVCLPNPGMM LDLDQECWIS GWGATYEKGK TSDVLNAAMV
 PLIEPSKCNS KYIYNNLITP AMICAGFLQG SVDSCQGDSG GPLVTLKNGI
 WWLIGDTSWG SGCAKALRPG VYGNVTFTD 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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Chromosome Location	16 C2; 16 57.53 cM
Pathway	Influenza A, organism-specific biosystem; Influenza A, conserved biosystem; Transcriptional misregulation in cancer, organism-specific biosystem; Transcriptional misregulation in cancer, conserved biosystem;
Function	catalytic activity; hydrolase activity; peptidase activity; scavenger receptor activity; serine-type endopeptidase activity; serine-type peptidase activity;

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