

Recombinant Full Length Human TMPRSS2 Protein, GST-tagged

Cat. No. TMPRSS2-6852HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Human TMPRSS2 full-length ORF (AAH51839.1, 1 a.a. - 492 a.a.) recombinant protein with GST-tag at N-terminal was expressed in Wheat Germ.

Species

Human

Source

In Vitro Cell Free System

ProteinLength

492 amino acids

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. This protein also facilitates entry of viruses into host cells by proteolytically cleaving and activating viral envelope glycoproteins. Viruses found to use this protein for cell entry include Influenza virus and the human coronaviruses HCoV-229E, MERS-CoV, SARS-CoV and SARS-CoV-2 (COVID-19 virus). Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



Molecular Mass	79.86 kDa
AA Sequence	MALNSGSPPAIEPYHENHGYQPENPYPAQPTVVPTVYEVHPAQYYPSVPQYAPRV LTQASDPVVCTQPKSPSGTVCTSKTKKALCITLTLGTFLVGAALAAGLLWKFMGSKC SNSGIECDSSGTCINPSNWCDGVSHCPGGEDENRCVRLYGPNFILQVYSSQRKSW HPVCQDDWNENYGRAACRDMGYKNNFYSSQGIVDDSGSTSFMKLNTSAGNVDIYK KLYHSDACSSKAVVSLRCIACGVNLNSSRQSRIVGGESALPGAWPWQVSLHVQNV HVCGGSITPEWIVTAAHCVEKPLNNPWHWTAFAGILRQSFMYGAGYQVEKVISHP NYDSKTKNNDIALMKLQKPLTFNDLVKPVCLPNPGMMLQPEQLCWISGWGATEEKG KTSEVLNAAKVLLIETQRCNSRYVYDNLITPAMICAGFLQGNVDSCQGDSSGGLVTS KNNIWWLIGDTSWGSGCAKAYRPGVYGNVMVFTDWIYRQMRADG
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
GENE INFORMATION	
Gene Name	TMPRSS2 transmembrane serine protease 2 [Homo sapiens (human)]
Official Symbol	TMPRSS2
Synonyms	TMPRSS2; transmembrane serine protease 2; PP9284; PRSS10; transmembrane protease serine 2; epitheliasin; serine protease 10; transmembrane protease, serine 2; NP_001128571.1; EC 3.4.21.-; EC 3.4.21.-

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Gene ID	7113
mRNA Refseq	NM_005656
Protein Refseq	NP_005647
MIM	602060
UniProt ID	O15393

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