

## Recombinant Human TMPRSS3 Protein, His tagged

Cat. No. TMPRSS2-011H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Product Overview</b> | Purified recombinant protein of Human transmembrane protease, serine 2 (TMPRSS2), transcript variant 2, 106Trp-End, with N-terminal His tag, expressed in E.coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <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.</p> <p>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.</p> |
| <b>Molecular Mass</b>   | 42.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                          |
| <b>Note</b>           | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| <b>Stability</b>      | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.        |
| <b>Storage</b>        | Store at -80 centigrade.                                                                                                                             |
| <b>Storage Buffer</b> | 25 mM Tris-HCl, pH 8.0, 150 mM NaCl, 1% sarkosyl, 10% glycerol                                                                                       |
| <b>Concentration</b>  | > 0.05 µg/µL as determined by microplate BCA method                                                                                                  |
| <b>Shipping</b>       | Dry Ice                                                                                                                                              |

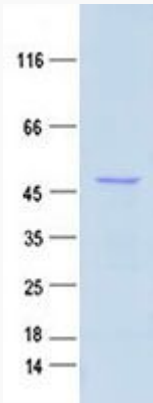
## GENE INFORMATION

|                          |                                                                                                                                         |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>           | 7113                                                                                                                                    |
| <b>Gene Name</b>         | TMPRSS2 transmembrane protease, serine 2 [ Homo sapiens (human) ]                                                                       |
| <b>Official Symbol</b>   | 7113                                                                                                                                    |
| <b>Synonyms</b>          | TMPRSS2; transmembrane protease, serine 2; transmembrane protease serine 2; PRSS10; epitheliasin; serine protease 10; PP9284; FLJ41954; |
| <b>mRNA Refseq</b>       | NM_005656                                                                                                                               |
| <b>Official Symbol 2</b> | TMPRSS2                                                                                                                                 |

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|-------------------------|-------------------------------------------------------------------------------------|
| <b>Gene ID 2</b>        | 7113                                                                                |
| <b>Gene Name 2</b>      | TMPRSS2 transmembrane protease, serine 2 [ Homo sapiens (human) ]                   |
| <b>mRNA Refseq 2</b>    | NM_005656                                                                           |
| <b>Protein Refseq 2</b> | NP_005647                                                                           |
| <b>MIM 2</b>            | 602060                                                                              |
| <b>UniProt ID 2</b>     | O15393                                                                              |
| <b>SDS-PAGE</b>         |  |