

## Product datasheet for **TP310596L**

### **PITRM1 (NM\_014889) Human Recombinant Protein**

#### **Product data:**

|                                       |                                                                              |
|---------------------------------------|------------------------------------------------------------------------------|
| Product Type:                         | Recombinant Proteins                                                         |
| Description:                          | Recombinant protein of human pitrilysin metallopeptidase 1 (PITRM1), 1 mg    |
| Species:                              | Human                                                                        |
| Expression Host:                      | HEK293T                                                                      |
| Expression cDNA Clone or AA Sequence: | >RC210596 protein sequence<br><b>Red</b> =Cloning site <b>Green</b> =Tags(s) |

MWRCGGRQGLCVLRRLSGGHAHHRAWRWNSNRACERALQYKLGDKIHGFTVNQVTSVPELFLTAVKLT  
HD  
DTGARYLHLAREDTNNLFSVQFRTTPMDSTGVPHILEHTVLCGSQKYPCRDPPFKMLNRSLSFTMNAFTA  
SDYTVYPFSTQNPCKDFQNLLSVYLDATFFPCLRELDWFQEGWRLEHENPSDPQTPLVFKGVVFNEMKGA  
F  
TDNERIFSQHLQNRLLPDHTYSVSGGDPLCIPELTWEQLKQFHATHYHPSNARFFTYGNFPLEQHLKQI  
HEEALSKFQKIEPSTVPAQTPWDKPREFQITCGPDSFATDPSKQTTVSFLLPDITDTFEAFTLSLLS  
SLLTSGPNSPFYKALIESGLGTDFSPDVGNGYTREAYFSVGLQGIVEKDIETVRSIDRTIDEVEKGF  
EDDRIEALLHKIEIQMKHQSTSFGMLTYSIASCWNHDGDPVELLKLGNQLAKFRQCLQENPKFLQEKVK  
QYFKNNQHKLTLSMRPDDKYHEKQAQVEATKLKQKVEALSPGDRQQIYEKGLELRSQQSKPQDASCLPA  
L  
KVSDIEPTIPVTELDVLTAGDIPVQYCAQPTNGMVYFRAFSSSLNTLPEELRPYVPLFCSVLTKLGCGLL  
DYREQAQQIELKTGGMSASPHVLPDDSHMDTYEQGVLFSSCLDRNLPDMMQLWSEIFNNPCFEEEEHF  
K  
VLVKMTAQELANGIPDSGHLYASIRAGRTLTPAGDLQETFSGMDQVRLMKRIAEMTDIKPILRKLPRIKK  
HLLNGDNMRCSVNATPQQMPQTEKAVEDFLRSIGRSKKERRPVRPHTVEKPPVSSSGGDAHVPHGSQVI  
R  
KLVMEPTFKPWQMKTFLMPFPVNYVGECIRTPYTPDPHASFEILARLMTAKFLHTEIREKGGAYGGGA  
KLSHNGIFTLYSRDPNTIETLQSFKAVDWAKSGKFTQQDIDEAKLSVFSTVDAPVAPSDKGMDFLYG  
LSDEMKQAHREQLFAVSHDKLLAVSDRYLGTGKSTHGLAILGPENPKIAKDPSWIIR

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

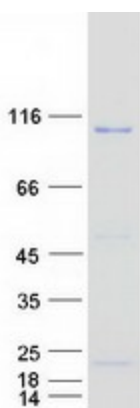
|               |           |
|---------------|-----------|
| Tag:          | C-Myc/DDK |
| Predicted MW: | 117.2 kDa |



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|                          |                                                                                                                                                                                                                                                                                                 |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Concentration:</b>    | >0.05 µg/µL as determined by microplate BCA method                                                                                                                                                                                                                                              |
| <b>Purity:</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                     |
| <b>Buffer:</b>           | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol                                                                                                                                                                                                                                            |
| <b>Preparation:</b>      | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                                                                                                                                                                                |
| <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>Storage:</b>          | Store at -80°C.                                                                                                                                                                                                                                                                                 |
| <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>RefSeq:</b>           | <a href="#">NP_055704</a>                                                                                                                                                                                                                                                                       |
| <b>Locus ID:</b>         | 10531                                                                                                                                                                                                                                                                                           |
| <b>UniProt ID:</b>       | <a href="#">Q5JRX3</a>                                                                                                                                                                                                                                                                          |
| <b>RefSeq Size:</b>      | 3505                                                                                                                                                                                                                                                                                            |
| <b>Cytogenetics:</b>     | 10p15.2                                                                                                                                                                                                                                                                                         |
| <b>RefSeq ORF:</b>       | 3111                                                                                                                                                                                                                                                                                            |
| <b>Synonyms:</b>         | MP1; PreP                                                                                                                                                                                                                                                                                       |
| <b>Summary:</b>          | The protein encoded by this gene is an ATP-dependent metalloprotease that degrades post-cleavage mitochondrial transit peptides. The encoded protein binds zinc and can also degrade amyloid beta A4 protein, suggesting a possible role in Alzheimer's disease. [provided by RefSeq, Dec 2016] |
| <b>Protein Families:</b> | Druggable Genome, Protease                                                                                                                                                                                                                                                                      |

## Product images:



Coomassie blue staining of purified PITRM1 protein (Cat# [TP310596]). The protein was produced from HEK293T cells transfected with PITRM1 cDNA clone (Cat# [RC210596]) using MegaTran 2.0 (Cat# [TT210002]).