

Product datasheet for **MR222354**

Prtn3 (NM_011178) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Prtn3 (NM_011178) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Prtn3
Synonyms: mPR3; PR3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR222354 representing NM_011178
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGGAAGCTACCCATCCCCAAGGGGATCCATCCCTTCCTGCTGCTTGCCCTGGTGGTTGGTGGCG
CAGTCCAGGCCTCCAAGATTGTAGGTGGGCACGAGGCTCGGCCCACTCTCGGCCTTATGTGGCATCCCT
GCAGCTGAGCAGGTTCCCTGGGAGCCACTTCTGTGGTGGCACCCTGATCCACCCGAGATTCGTGCTGACA
GCCGCCCACTGCCTGCAGGACATCTCCTGGCAGCTTGTGACAGTGGTGTGGGTGCCACGACCTGCTGA
GCTCGGAGCCTGAGCAGCAGAAGTTCACCATCAGTCAGGCTTCCAGAACAATTACAACCCCGAGGAGAA
CCTCAATGACGTGCTTCTCCTCCAGCTAAACCGGACAGCCTCCCTGGGCAAGGAGGTGGCGGTGGCTTCT
CTGCCCCAGCAGGACCAGACTCTGTCCCAGGGCACCCAGTGCCTGGCCATGGGCTGGGGTGCCTGGGCA
CCCAAGCACCCACGCCCGTGTGCTGCAGGAAGTGAACGTACCGTGGTACCTTCTATGCCGGGAACA
CAACGTGTGCACGCTGGTGCACGGAGGGCAGCAGGCATATGCTTCGGAGACTCGGGCGGCCCTTGATC
TGCAATGGCATTCTTATGGAGTGGACTCCTTCGTGATCCGCGAATGCGCCTCCCTCCAGTTCCTGATT
TCTTCGCCCGGGTGTCCATGTATGTGGACTGGATTCAAAACGTGCTGCGGGGCGCAGAGCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR222354 representing NM_011178
Red=Cloning site Green=Tags(s)

MAGSYSPKGIHPFLLLALVVGAVQASKIVGGHEARPHSRPYVASLQLSRFPGSHFCGGTLIHPRFVLT
 AAHCLQDISWQLVTVVLGAHDLLSSEPEQQKFTISQVFQNNYNPEENLNDVLLLQLNRTASLGKEVAVAS
 LPQQDQTL SQGTQCLAMGWGRLGTQAPT PRVLQELNVT VVTF LCREHNVCTLVPRRAAGICFGDSSGGLI
 CNGILHGVD SFVIRECASLQFPDFFARVSMYVDWIQNVLRGAEP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9045_f04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_011178

ORF Size: 762 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_011178.2](#), [NP_035308.2](#)

RefSeq Size: 983 bp

RefSeq ORF: 765 bp

Locus ID: 19152

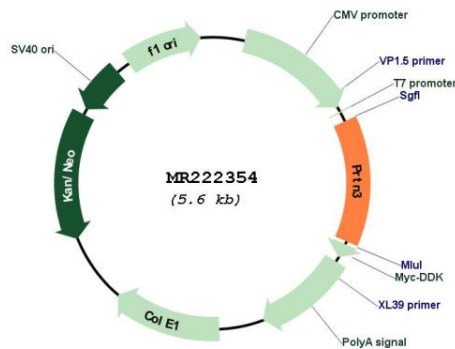
UniProt ID: [Q61096](#)

Cytogenetics: 10 39.72 cM

MW: 28.1 kDa

Gene Summary: Serine protease that degrades elastin, fibronectin, laminin, vitronectin, and collagen types I, III, and IV (in vitro). By cleaving and activating receptor F2RL1/PAR-2, enhances endothelial cell barrier function and thus vascular integrity during neutrophil transendothelial migration. May play a role in neutrophil transendothelial migration, probably when associated with CD177. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222354