

Product datasheet for RC237941

MMP28 (NM_032950) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: MMP28 (NM_032950) Human Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: MMP28
 Synonyms: EPILYSIN; MM28; MMP-25; MMP-28; MMP25
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >RC237941 representing NM_032950
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGTCGCGCGCGTGGCCTCCTGCTGCGCGCCCTGCAGCTGCTACTGTGGGGCCACCTGGACGCCACGC
 CCGCGGAGCGCGGAGGCCAGGAGCTGCGCAAGGAGCGGAGGCATTCTAGAGAAGTACGGATACCTCAA
 TGAACAGGTCCCCAAAGCTCCCACCTCCACTCGATTTCAGCGATGCCATCAGAGCGTTTCAGTGGGTGTC
 CAGCTACCTGTCAGCGGGGTGTTGGACCGCCACCCTGCGCCAGATGACTCGTCCCGCTGCGGGGTTA
 CAGATACCAACAGTTATGCGGCCTGGGCTGAGAGGATCAGTGACTTGTGGCTAGACACCGGACCAAAAT
 GAGGCGTAAGAAACGCTTTGCAAAGCAAGGTAACAAATGGTACAAGCAGCACCTCTCCTACCGCCTGGTG
 AACTGGCCTGAGCATCTGCCGGAGCCGCGAGTTCGGGGCGCCGTGCGCGCCGCTTCCAGTTGTGGAGCA
 ACGTCTCAGCGCTGGAGTTCTGGGAGGCCAGCCACAGGCCCGCTGACATCCGGCTCACCTTCTTCCA
 AGGGGACCACAACGATGGGCTGGCAATGCCTTTGATGGCCAGGGGGCGCCCTGGCGCACGCCTCCTG
 CCCCGCCGCGCGAAGCGCACTTCGACCAAGATGAGCGCTGGTCCCTGAGCCGCCCGCGGGGCGCAACC
 TGTTCTGGTGTGTCGGCGCAGAGATCGGTACACGCTTGGCTCACCCACTCGCCCGCGCGCGCGCT
 CATGGCGCCTACTACAAGAGGCTGGGCCGCGACGCGCTGCTCAGCTGGGACGACGTGCTGGCCGTGACG
 AGCCTGTATGGGAAGCCCTAGGGGCTCAGTGGCCGTCCAGCTCCCAGGAAAGTGTTCACTGACTTTG
 AGACCTGGGACTCCTACAGCCCCAAGGAAGGCGCCCTGAAACGCAGGGCCCTAAATACTGCCACTTTC
 CTTGATGCCATCACTGTAGACAGGCAACGAACTGTACATTTTTAAAGGGAGCCATTTCTGGGAGGTG
 GCAGCTGATGGCAACGTCTCAGAGCCCCGTCCACTGCAGGAAAGATGGTTCGGGCTGCCCCCAACATTG
 AGGCTGCGGCAGTGCATTGAATGATGGAGATTCTACTTCTTCAAAGTGCAATCCGTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237941 representing NM_032950
 Red=Cloning site Green=Tags(s)

MVARVGLLLRALQLLLWGHLDQAERGGQELRKEAEAFLEKYGYLNEQVPKAPTSTRFSDAIRAFQWVS
 QLPVSGVLDRTLQMT RPRCGVTDNTSYAAWAERISDLFARHRTKMRRKKRFAKQGNKWKQHL SYRLV
 NWPEHLPEPAVRGAVRAAFQLWSNVSALEFWEAPATGPADIRL TFFQGDHNDGLGNAFDGPGGALAHAF
 PRRGEAHFDQDERWSLSRRRGRNLFVLAHEIGHTLGL THSPAPRALMAPYYKRLGRDALLSWDDVLA
 VQSLY GKPLGGSVAVQLPGKLFDFETWDSYSPQGRRPETQGPKYCHSSFDAITVDRQQQLYIFKGS
 HFW EYAADGNVSEPRPLQERWVGLPPNIEAAAVSLNDGDFYFFK VQSV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

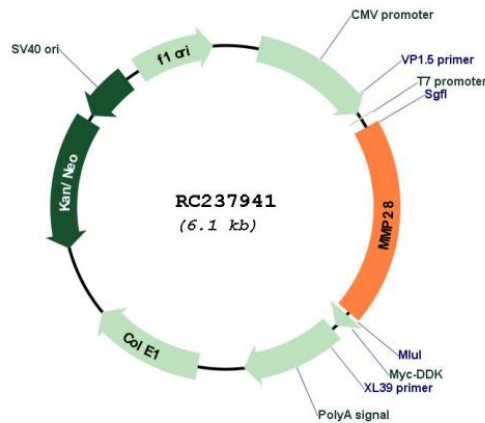
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_032950

ORF Size:	1179 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:	<ol style="list-style-type: none">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_032950.4
RefSeq Size:	2614 bp
RefSeq ORF:	1182 bp
Locus ID:	79148
UniProt ID:	Q9H239
Cytogenetics:	17q12
Protein Families:	Druggable Genome, Protease, Secreted Protein
MW:	44.9 kDa
Gene Summary:	Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix for both normal physiological processes, such as embryonic development, reproduction and tissue remodeling, and disease processes, such as asthma and metastasis. This gene encodes a secreted enzyme that degrades casein. Its expression pattern suggests that it plays a role in tissue homeostasis and in wound repair. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Apr 2014]