

Product datasheet for **RR206608**

Mmp1 (NM_001134530) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mmp1 (NM_001134530) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mmp1
Synonyms:	Clgn; MMP-1; Mmp1a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR206608 representing NM_001134530
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTTAGCCTTCCTTTGCTGTTGCTTCTCTTGCTACCAGCTCATAACAGTTTCCCGTGTTCAGGACG
 GAGCCCGCAGAATGTGGAACAGTCTGGAATACCTGGAACACTACTACAACCTGGGTGAAGACGTCCA
 AGCTAAAAACGTGGATGCCAAGGAGGTGATGGCTGAAAAGCTGAGGCAAAATGCAGCAGTTATTTGGGCTG
 AAAGTGACAGGAAATCAAATCTGAAACCCTGAGTGCTATGAGGAAACCTAGGTGTGGGTGCCTGATG
 TGGCCCCATATGCCATTACTCACAACAATCCTCGTTGGACAAAACACATCTGACTTACAGCATTAAAA
 CTACACACCATATTTGCCAAAAGAAGTTATAGAAAACGCCATCGAGAGAGCCTTTAAAGTCTGGAGTGAT
 GTGACACCCTAACATTCGAAAGGGTTTTGAGGAGGAAGGTGATATTGTGTCGCCTTCTACAGAGGAG
 ACCATAGTGACAATAACCCATTTGATGGACCTGAATATGGACTTGCTCACACATCCCACCAGGCCACG
 TTTGGGGGCGATGTTTCATTATGATCTGGATGAGACGTGGACCGACAACAGTGACAATTTCAATTTGTT
 TATGTTACGGCTCATGAACTGGGCCACTCCCTTGACTCACTCATTCTAGAGATGTAGGAGCACTAATGT
 TCCCCAGCTACACATGGTACACTGAAGACTTTGTGCTAAACCAGGAGGATTAATCGCATCCAGGCTTT
 ATATGGGCCTTCCCAAATCCCATCCAGCCAACAGGTGCAACAACACCACATCCATGTGATGGTGTCTA
 ACCTTCGACGCTATAACTACGTTTAGGGGAGAGGTGATGTTCTTTAAAGGCAGGTTCTACATTCGTGTA
 ATAAGTTCATGCCAGAAGCTGAGCTCAATTTGATAGGTATTATCTGGCCAAATCTGCCAGGTAACTTGA
 TGCTGCTTATGAAGTTAGTATGATAGATCAAGTCCGCTATTTCAAAGGCAATAAAGTCTGGGTTGTTGGA
 GAGCATACTGTACTGAGAGGATCCCCACAGACATCCATAGCTTCTTTGGCTTCCCTAGCAGTGTGACAC
 ACATTGACGCTGCCGTTTGTGAGGAAGAGACTGGAAAAACATCTTCTTGGTTGACAACATCTACTGAG
 GTATGATGAAAAATACACAGTCCATGGATCCAGGTTATCCTAGATTAACAGCAGAAGATTTCCCTGGAATT
 GACGATAAAGTTGATGATGTTTTCCAAAAGGCGAAAAATTTCTACTTCTTCCACCAATCAGTTCAACGCA
 GATTTAGCTCCGAATAAGAAGGTTGATGACTCCCGTATTCTAGTACCTGGTTCAACTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR206608 representing NM_001134530
 Red=Cloning site Green=Tags(s)

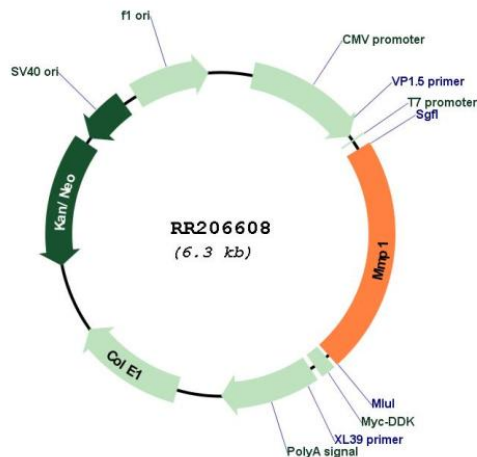
MLSLPLLLLLLATSSYSFPVFQD GARQNVETVWKYLENYNLGEDVQAKNVDAKEVMAEKL RQMQLFGL
 KVTGNSNSETLSAMRKPRCGVPDVAPYAI THNNPRWTKHLTYSILNYTPYLPKEVIENAIERAFK VWS
 DVTPLTFERVFEEEGDIVFAFYRGDHSNPNFDGPEYGLAHTFPPGPRLGGDVHYDLDETWDNSDNFNL
 F YVTAHELGHSLGLTHSRDVGALMFPSYTWYTEDFVLNQEDINRIQALYGPSPNP IQPTGATTPHCDGDL
 TFDAITFRGEVMFFKGRFYIRVKNFMPEAELNLIGI IWPNLPGKLDAAEYVSMIDQVRYFKGNKVWVVR
 EHTVLRGFPTDIHSFFGFPSSVTHIDAAVCEEEETGKTYFFVDNMYWRYDENTQSMDPGYPRLTAE DFP
 GIDDKVDDVFQKGENFYFFHQSVQRRFSLRIRRVDDSRDSSTWFNC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001134530

ORF Size: 1392 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_001134530.1](#), [NP_001128002.1](#)

RefSeq Size: 2021 bp

RefSeq ORF: 1395 bp

Locus ID: 300339

Cytogenetics: 8q11

MW: 53.5 kDa