

Product datasheet for **MG223645**

Mmp8 (NM_008611) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mmp8 (NM_008611) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mmp8
Synonyms:	BB138268
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG223645 representing NM_008611
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTTCGCCTGAAGACACTTCCATTACTGATCTTCTCCACACACAGCTTGCCAATGCCTTCCCAGTAC
 CTGAACACCTGGAAGAGAAAAATATAAAAACTGCTGAGAATTACCTACGAAAATTCTACAACCTACCAAG
 CAATCAATTCCGGTCTTCGAGGAATGCCACGATGGTTGCAGAGAAGCTTAAAGAGATGCAGCGCTTCTTC
 AGCTTAGCAGAGACTGGGAAGTTAGATGCAGCTACAATGGGGATTATGGAATGCCTCGATGTGGAGTGC
 CTGACTCTGGTATTTCTTGCTAACCCAGGAAGTCCCAAGTGGACACACACTAACCTGACCTACAGGAT
 TATAAACCATACGCCACAGCTGTCAAGGGCTGAAGTAAAAACAGCAATTGAGAAAGCTTTTCACGCTGG
 AGTGTAGCATCGCCCTGACCTTACCGAGATCTTACAGGGAGAAGCAGACATCAACATTGCTTTCTGCT
 CAAGAGACCATGGTGACAATTCTCATTGATGGACCAATGGAATCCTTGCCCATGCCTTTCAACCAGG
 CCAAGGTATTGGAGGAGATGCTCATTGATTGATTGAGAAGAACTGGACTCAAGATTCCAAAAATTACAAC
 CTATTTCTCGTGGCTGCTCATGAATTTGGACATCTTTGGGACTCTCTACTCCACTGATCCTGGTGCCT
 TGATGTACCCAAACTATGCTTACAGGGAACCCAGCACCTATTCACTACCTCAAGATGATATCAATGGCAT
 TCAGACAACTATGGACCTTCAGACAACCCCATCCAACCTACTGGGCCAGCACACCCAAAGCCTGTGAC
 CCCACCTGAGATTTGATGCTACTACCACACTCCGTGGGGAGATTTACTTCTTTAAAGACAAGTACTTCT
 GGAGACGGCATCCTCAGCTGAGAACAGTTGACCTCAATTCATATCTCTGTTCTGGCCCTTCTACCCAA
 CGGTCTTCAGGCTGCTTATGAAGATTTGACAGAGACCTAGTTTTCTATTTAAAGGCAGACAGTACTGG
 GCTCTAAGTGGCTATGACCTGCAGCAAGGTTACCCAGAGATATATCCAACCTATGGATTTCCCAAGGAGT
 TCCAAGCATTGATGCAGCTGTTTCTATAACGGGAAGACATCTTTCATAAACAACCAAGTCTGGAG
 ATATGACAATCAAAGAAGATCCATGGACCCAGGTTACCCAAAAGCATACCAAGCATGTTCCAGGAGTA
 AACTGTAGAGTCGATGCAGTTTTCTGCAGGACTCCTTCTTCTTCTTCAAGTGGACCACAATATTTTG
 CATTTAATTTTGTGAGTACAGAGTCACTAGAGTTGCAAGAAGCAATTTATGGCTTAACCTGTTCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG223645 representing NM_008611
 Red=Cloning site Green=Tags(s)

MFRLKTLPLLIFLHTQLANAFPVPEHLEEKNIKTAENYLKRFYNLPSNQFRSSRNATMVAEKLKEMQRFF
 SLAETGKLDAAATMGIMEMPRCGVPDSDGDFLLTPGSPKWHTNLTYRIINHTPQLSRAEVKTAIEKAFHVV
 SVASPLTFTEILQGEADINIAFVSRDHGDNDFDGPNGILAHAFQPGQIGGDAHFDSEETWTQDSKNYN
 LFLVAAHEFGHSLGLSHSTDPGALMYPNYAYREPSTYSLPQDDINGIQTIIYGPSDNPIQPTGPSTPKACD
 PHLRFDATTTLRGEIYFFKDKYFWRHPQLRTVDLNFISLFWPFLPNGLQAAYEDFDRDLVFLFKGRQYW
 ALSGYDLQQGYPRDISNYGFPRSVQAIDAAVSYNGKTYFFINNQCWRYDNQRRSMDPGYPKSIIPSMFPGV
 NCRVDAVFLQDSFFLFFSGPQYFAFNFVSHRVTRVARSNLWLNCS

TRTRPLE – GFP Tag – V

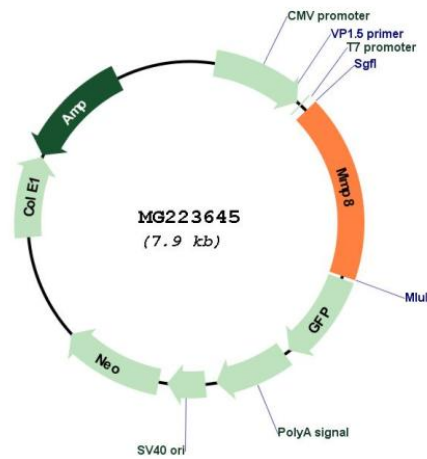
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_008611

ORF Size: 1395 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:	<u>NM_008611.4</u> , <u>NP_032637.3</u>
RefSeq Size:	2453 bp
RefSeq ORF:	1398 bp
Locus ID:	17394
UniProt ID:	<u>O70138</u>
Cytogenetics:	9 A1
Gene Summary:	This gene encodes a member of the matrix metalloproteinase family of extracellular matrix-degrading enzymes that are involved in tissue remodeling, wound repair, progression of atherosclerosis and tumor invasion. The encoded preproprotein undergoes proteolytic processing to generate a mature, zinc-dependent endopeptidase enzyme that degrades types I, II and III collagens. Mice lacking the encoded protein exhibit abnormalities in the inflammatory responses to various agents. This gene is located in a cluster of other matrix metalloproteinase genes on chromosome 9. [provided by RefSeq, Feb 2016]