

## Product datasheet for MC224767

### Pappa (NM\_021362) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pappa (NM_021362) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pappa
Synonyms:	8430414N03Rik; IGFBP-4ase; PAG1; PAPP-A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC224767 representing NM_021362 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCGGCTCTGGAGTTGGGTGCTGCGCCTGGGGCTGCTGAGCGCCGCGCTGGGCTGCGGGCTGGCCGAGC  
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CGTTCATGAAGAAGCAGCAGAATGGTGTGTGACATGGACTGTAACACGAAAGGTTTAAATTTGATGG  
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GCCTACTTGATGTTAATGAGCTAAAGAACATTCTTAGACTGGACGGATCAACACATCTCAATATTTTCT  
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 GTGATGCCATCAACAATCGAGCCTTCTGCAACTATGATGGTGGGACTGTGCACCTCCACAGTAAAGAC  
 CAAAAAGTCACTCCCTTCTATGTCTGTGACCTACAAAATGACTGCGCTGTGAGACCCCTGAGGCC  
 CAAGAACAACCCGAAAGATCTTCGGGATATAGCCATGGCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_021362
<b>Insert Size:</b>	4875 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_021362.1</a> , <a href="#">NP_067337.1</a>
<b>RefSeq Size:</b>	11027 bp
<b>RefSeq ORF:</b>	4875 bp
<b>Locus ID:</b>	18491
<b>UniProt ID:</b>	<a href="#">Q8R4K8</a>
<b>Cytogenetics:</b>	4 34.14 cM
<b>Gene Summary:</b>	Metalloproteinase which specifically cleaves IGFBP-4 and IGFBP-5, resulting in release of bound IGF. Cleavage of IGFBP-4 is dramatically enhanced by the presence of IGF, whereas cleavage of IGFBP-5 is slightly inhibited by the presence of IGF. Isoform 2 cleaves IGFBP-4 very slowly compared to PAPP-A, but its ability to cleave IGFBP-5 is unaffected.[UniProtKB/Swiss-Prot Function]