

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
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224767 representing NM_021362
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCGGCTCTGGAGTTGGGTGCTGCGCCTGGGGCTGCTGAGCGCCGCGCTGGGCTGCGGGCTGGCCGAGC
 GCCCCCGCGGGTCCGAAGAGACCCTCGGGCCGTGCGCCCCCGCCCGCCGCTGGACCGCCACCTG
 CGCCACCCGGGGCGCCCGGGTCCCGCGCCTCGCCGCGCCGCTCCGGGCGGTGCCTGGGAAGCCGTG
 CGCGTCCCCCGGGCGGCGCAGCAGCGGGCGGCGAGGGGCGCCGAGGAGCCGAGCCCGCTAGCCGGGCGC
 TCTATTTAGCGGGCGAGGGGAGCAGCTGCGCCTCCGGGCGGACCTGGAGCTACCCCGCGACGCCTTAC
 ACTGCAAGTGTGGCTGCGAGCCGAGGGTGGCCAGAAGTCTCCAGCAGTGATCACAGGGCTGTATGACAAA
 TGTTCTTATACCTCACGTGATCGAGGATGGGTCATGGGCATTACACCACCAGTGATCAAGGCAACAGAG
 ATCCACGCTACTTTTTCTCCTTGAAGACAGACCGGGCCAGGAAAGTGACCACCATGATGCCCATCGCAG
 CTACCTCCCAGGTCAGTGGGTACATCTAGCTGCTACCTATGATGGGCGGCTGATGAAGCTCTATATGAAT
 GGTGCCAGGTGGCAACTTCGGCTGAGCAAGTAGGTGGCATATTCAGCCCACTGACCCAGAAGTGTAAAG
 TGCTCATGTTGGGGGCGAGTGTCTGAATCACAACCTCCGGGGCCACATTGAACACTTCAGTCTATGGAA
 AGTAGCAAGAACCAGCGAGAGATTGTATCCGACATGAAAACCCGTGGCCTCCACACCCCTCTACCTCAG
 CTCTCTCCAGGAGAAGTGGGACAACGTGAAGCGCACTTGGTCCCCATGAAGGATGGCAACAGCCCCC
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 ACTGTGTGACAACACAGAAGTCACTCCAGTTACAATCAGCTCCCAAGTTTTCGGCAGCCCAAGGTGGTC
 CGCTATCGTGTGGTCAACATCTATGATGATCACCATGAGAATCCAACGGTGAGCTGGCAACAGATTGACT
 TTCAGCACCACAGCTGGCTGAGGCCTTCAACACTACAACATCTCTGGGAGCTGGAGGTACTGAATAT
 AAACAGTTCCTCTCTGCGTCACCGCCTCATCTAGCCAAGTGTGACATCAGCAAGATTGGGGATGAAAAA
 TGTGATCCAGAATGTAACCATACTACTGACTGGTCAATGATGGTGGAGATTGCCCGAGCTGCGCTACCTG
 CGTTCATGAAGAAGCAGCAGAATGGTGTGTGATGACTGTAAGTACGAAAGGTTTAAATTTTATGATGG
 TGGAGAGTGTGTGACCCAGACATCACTGATGTACTAAGACATGCTTTGATCCTGACTCTCCACACAGA
 GCCTACTTGGATGTTAATGAGCTAAAGAACATTCTTAGACTGGACGGATCAACACATCTCAATATTTTCT



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TTGCAAACCTCTTCAGAGGAGGAGTTGGCAGGAGTGGCAACTTGGCCATGGGACAAGGAAGCCCTAATGCA
 CTTGGGCGGTATTGTCTTGAACCCATCTTTCTATGGCATTCCCGGACACACCCACACCATGATTCATGAG
 ATTGGGCATAGCCTGGGCCTCTATCACATCTTCCGTGGCATCTCAGAAATCCAGTCTGCAGTGATCCCT
 GCATGGAGACAGAGCCTTCATTTGAAACTGGAGACCTCTGCAATGATACCAACCCAGCCCCAACACAA
 GTTTTGTGGAGACCCTGGACCAGGAATGACACTTGTGGCTTTCATGGCTTCTTCAACACTCCTTACAAC
 AACTTCATGAGCTACGCAGATGACGACTGTACAGACTCTTTCACGCCAATCAAGTCTCCAGAATGCAT
 GTTACCTGGACCTCGTATACCAGAGCTGGCAGCCCTCCAGAAAGCCAGCACCTGTAGCTTTGCGCCCCA
 GGTGTGGGGCACACAATGGACTCTGTGATGCTAGAGTGGTTCCACCCATCGATGGCCACTTCTTTGAA
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 GCCTGCCCTGAGCCACAAGGCTGCTACCTCGAGCTGGAATTTGCTACCCCTTTGGTCCCTGAGTCTCTGA
 CCATCTGGGTAACTTTGTCTCCAGTATTGGGACTCTAGTGGAGCTGTCAATGACATCAAACCTTTGAC
 TATCAGTGGAAAGAATATCTCTTTGGTCTCAGAATGTTTTCTGTGATATCCACTTACCATCAGACTC
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 AGACCCACCTCTGCTAGAAGATGTAGCCTCATTACTCCACCTCAACAGAAGATTCATGGACACGGATCTG
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 CTGCCATATACACCCACGGAAGTGGTACTGTGGTGTAGGGCTTATCCAAAAAGACCAAGGAGAAGAATG
 TGACGACATGAATAAGGTCAATGGGGATGGCTGCTCCCTTTCTGCAAGCAAGAAGTTTCCCTTCAACTGC
 ATTGATGAACCCAGCCGGTGCTATTTCCATGATGGGGATGGGATGTGTGAAGAGTTTGAACAAAAACTA
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 AAGGTGATAGATCTCAGTGAAGGCATTTCCAGCATGCTTGGTATCCTTGCACCATTACTTACCATACT
 ACCATCTGCCTCAGACCACATTTGCTCCAGACATATTTCTCTCAGCCAATGGTTGCTGCAGTGTAAAT
 TATTCACCTGGTACTGATGGGACATACTATGGGGACAAAAGCAAGAGACCATCAGTGTGCAGTTGCTT
 GATACCAAAGTCAAAGCCATGATCTAGGCCTCCATGTCTTGAGCTGCAGAAACAATCCCCTGATTATCC
 CTGTGGTCCATGACCTCAGCCAGCCCTTACCACAGCCAGGCGGTACATGTGAGCTTCAAGTTCGCCCT
 GGTGCGCATCTCGGGGTGGCCCTCCGCTTTTCGACAACCTTTGACCCCGTCACCCTGAGCAGTGCAG
 AGAGGAGAGACCTACAGCCCTGCTGAGCAGAGCTGTGTGCAATTTGCCTGTCAAGCTGCCGACTGCCAG
 AACTGGCCGTGGGAATGCTTCTCAACTGTTCCAGCAACCACCTACCATGGTGCCAGTGCAGTGT
 GAGCTGCCAGACAGGTTATGTGCTGCAGATACAGCGGGACGATGAGCTAATCAAGAGCCAGTAGGGCCA
 AGCATCACAGTGACATGTACCGAGGGCAAATGGAACAAGCAGGTGGCATGTGAGCCGGTGGACTGTGGTA
 TCCCAGATCACCATCACGTCTATGCTGCCTCCTTCTCCTGTCCAGAGGGTACCACCTTTGGTAGAAGATG
 TTCTTTTCAAGTGTGCGCCACCTGCCAGCTGAAAGGCAACAACAGCTTTCTGACCTGTATGGAAGATGGA
 CTGTGGTCTTCCAGAGGCCTGTGTGAGCTCATGTGCTCGCCCCACCCCAAGTTCCTCAATGCGGACC
 TACAGACAGCCCGGTGTGAGAGAAACAAGCACAAGGTGGGCTCCTTCTGCAAGTACAAGTGTAAACCTGG
 ATACCAGTGCCTGGCTCATCTCGGAAGTCCAAGAAACGGGCTTCAAGACTCAATGTACTCAAGATGGC
 AGCTGGCAAGAGGGAACCTGTGTGCCGGTACTGTGACCCACCTCCACCCAAATTCATGGGCTCTATC
 AATGCACTAATGGCTTCCAGTTCAATAGTGAGTGCAGGATCAAGTGTGAAGACAGTGTGCTTCCAGGG
 CCGTGGGAGCAATATCATTCACTGCCGGAAGATGGCACTTGGAGTGGTTCTTCCACGTCTGCCGAGAG
 ATGCAAGGCCAGTGTGACCCCAAAACCAACTCAACAGTAACTCAAATGCAAGTGTCTGATGGCTATG
 CAATAGGGTCAAGTGTGCCATCTCGTGCCTGGACCATAACAGCGAGTCCATCATCTTCCCGTTAACTT
 GACAGTGCCTGACATACCCATTGGATGAACCCACACAGTACAGAGGATTGTCTGCAGTGTGGTCTC
 CAGTGGTATCCCCACCTGCTGATCCACTGTGTCAAAGGCTGTGAGCCATTATGGGAGACAACACT
 GTGATGCCATCAACAATCGAGCCTTCTGCAACTATGATGGTGGGACTGTGCACCTCCACAGTAAAGAC
 CAAAAAGTCACTCCCTTCTATGTCTGTGACCTACAAAATGACTGCGCTGTGAGACCTGAGGCC
 CAAGAACAACCGGAAAGATCTTCGGGATATAGCCATGGCTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_021362
Insert Size:	4875 bp
OTI Disclaimer:	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).
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_021362.1 , NP_067337.1
RefSeq Size:	11027 bp
RefSeq ORF:	4875 bp
Locus ID:	18491
UniProt ID:	Q8R4K8
Cytogenetics:	4 34.14 cM
Gene Summary:	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]