

Product datasheet for **RN204077**

Xpnpep2 (NM_057155) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Xpnpep2 (NM_057155) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Xpnpep2
Synonyms:	mAPP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN204077 representing NM_057155
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAAAGCCTACTGGCAATGCTACCCCTGGCTTGTCTCCTCTGTGCATGTGCATGGAGTTACCCAG
 GGCTGAGTCCCTTGAAGAGAAGATGTGAGAGACTGTTCAACCAATCCTCCGCGCTGCCAGTTACTGC
 TGTC AATACAACAATGCGGCTTGACGCCCTCCGCCAGCAGATGGAGAAATCGAATCTCTCTGCCTACATC
 ATCCCAGACAGGATGCACACATGAGTGAGTATATTGGCAAACATGATGAGAGGGCAGCATGGATTTCTG
 GCTTACAGGGTCTGCAGGACTGCTGTGGTGACCAAGAAAAAGCAGCTGTCTGGACCGATAGTCGTTA
 CTGGACTCAGGCCGAGAGGCAGATGGACTGCAATTGGGAACTCCATAAGGAAGTTAGCATTTCGTC AATT
 GTCGCCTGGATCTTAGCTGAAGTCCCTGATGGAGAGAATGTGGGCTTTGACCCCTCCTCTTTTCTGTTG
 GTTCTGGGAAAATTATGATCAAGAACTCCAAGACTCCAACAGACACCTTTTATCCATTACAACCAACCT
 TGTCGACGTGGCATGGGGT CAGAGAGGCCCCAGTGCCAAGCCAACCCATTTATGCCCTGCCAAAAGAA
 TTTACAGGAAGCACTTGGCAGGAAAAAGTATCCGCCATCCGAAGCTATATGCAGAACACACCATGGCTC
 CAACTGGGGTTCTTCTATCCGCACTCGATGAGACAGCCTGGCTCTTCAACCTCCGTAGCAGTGACATCCC
 CTATAACCCCTTCTTCTACTCCTATACGCTGCTCACGGACTCTTCCATCAGGTTGTTGTCAACAAGAGT
 CGCTTTAGCCTGGAGACCCTGCAGTACCTGAATACAACTGCACACTACCCATGTGTGTACAACCTGAAG
 ACTACAGTCAAATTCGTGATGGTGTGAAAGCCTATGCTTCAGGCAATGTGAAAATCTTGATTGGGATCAG
 CTATACCCTATGGGGTCTATGATGTGATACCAAAGGAAAACTCGTGACAGAGACCTACTCCCGAGTG
 ATGTTAATCAAGGCTGTGAAGAACAGCAAGGAGCAGGCCCTCTTGAAAGCCAGCCATGTGCGGGACGCTG
 TGGCTGTGATCCAGTACTTGGTCTGGTTGGAGAAGAACGTGCCAAAAGGCAGGTGGATGAGTTTTCTGG
 AGCGGAACACATTGATCAGTTACGACGGAAATGAAAACCTCTCCTCTGGACCCAGTTTTGAAACATTCT
 GCTAGTGGCCTGAACGCCGCCCTGGCCATTACAGCCAAACAAAAGAGCTGCACCGTAAGCTGTCCTTAG
 ATGAGATGTACCTGGTGGATTCTGGAGGCCAATACTGGGATGGGACCACAGATATCACCAGAACAGTACA
 CTGGGGTACTCCTACTGCCTTTCAAAGGAGGCTTACACGCGTGTGCTGATGGGAAAACATCGATCTGTCC
 AGACTTGTCTTCTGCTGCTACATCAGGGAGAGTGGTGGAAAGCCTTTGCTCGAAGAGCCTTATGGGAAG
 TTGGGCTCAATTATGGTCATGGGACAGGCCATGGCATTGGTAATTTCTCTGCGTGCATGAGTGGCCAGT
 GGGGTTCCAGTATAACAACATGGCCATGGCCAAAGGCATGTTCACTTCCATCGAACCTGGATACTACCAG
 GATGGGAATTTGGAATCCGTCTTGAAGACGTCGCCCTCGTGGTAGAAGCAAAGACCAAGTACCCAGGGA
 CCTACCTGACTTTTGAATTTGGTATCCTTTGTACCTATGACCGAAACCTCATTGATGTCAGCCTGCTGTC
 CCCAGAGCAGCTCCAGTACCTGAACCGCTACTACCAGACCATCCGTGAGAACATAGGCCCAGAACTGCAG
 CGTCGCCAGCTGCTGGAGGAATTCGCATGGCTGGAGCGGCACACAGAGCCCTGTGAGCCAGTGGCCCTC
 ATACCACGTCCTTGGCCTCTATGTGGGTAGCCTCTGCCCTTGCCATCCTCAGCTGGAGTTGCT**AG**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1331_a10.zip

Restriction Sites: SgfI-RsrII

ACCN: NM_057155

Insert Size: 2025 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_057155.3](#), [NP_476496.1](#)

RefSeq Size: 2828 bp

RefSeq ORF: 2025 bp

Locus ID: 117522

UniProt ID: [Q99MA2](#)

Cytogenetics: Xq36

Gene Summary: human homolog is a candidate gene for premature ovarian failure [RGD, Feb 2006]