

Product datasheet for **RR204077**

Xpnpep2 (NM_057155) Rat Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>RR204077 representing NM_057155
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCCAAGCCTACTGGCAATGCTACCCCTGGCTTGTCTCCTCTGTGCATGTGCATGGAGTTACCCAG
 GGCTGAGTCCCTTGGAAGAGAAGATGTGAGAGACTGTTCAACCAATCCTCCGCGCTGCCAGTTACTGC
 TGTC AATACAACAATGCGGCTTGACGCCCTCCGCCAGCAGATGGAGAAGTCGAATCTCTCTGCCTACATC
 ATCCCAGACAGGATGCACACATGAGTGAGTATATTGGCAAACATGATGAGAGGGCAGCATGGATTTCTG
 GCTTACAGGGTCTGCAGGACTGCTGTGGTGACCAAGAAAAAGCAGCTGTCTGGACCGATAGTCGTTA
 CTGGACTCAGGCCGAGAGGCAGATGGACTGCAATTGGAACTCCATAAGGAAGTTAGCATTTTCGTC AATT
 GTCGCCTGGATCTTAGCTGAAGTCCCTGATGGAGAGAATGTGGGCTTTGACCCCTCCTCTTTTCTGTTG
 GTTCTGGGAAAATTATGATCAAGAACTCCAAGACTCCAACAGACACCTTTTATCCATTACAACCAACCT
 TGTGACGTGGCATGGGGTTCAGAGAGGCCCCAGTGCCAAGCCAACCCATTTATGCCCTGCCAAAAGAA
 TTTACAGGAAGCACTTGGCAGGAAAAAGTATCCGCCATCCGAAGCTATATGCAGAACCACACCATGGCTC
 CAACTGGGGTTCTTCTATCCGCACTCGATGAGACAGCCTGGCTCTTCAACCTCCGTAGCAGTGACATCCC
 CTATAACCCCTTCTTCTACTCCTATACGCTGCTCACGGACTCTTCCATCAGGTTGTTTGTCAACAAGAGT
 CGCTTTAGCCTGGAGACCCTGCAGTACCTGAATACAACTGCACACTACCCATGTGTGTACAACCTGAAG
 ACTACAGTCAAATTCGTGATGGTGTGAAAGCCTATGCTTCAGGCAATGTGAAAATCTTGATTGGGATCAG
 CTATACCCTATGGGGTCTATGATGTGATACCAAAGGAAAACTCGTGACAGAGACCTACTCCCGAGTG
 ATGTTAATCAAGGCTGTGAAGAACAGCAAGGAGCAGGCCCTCTTGAAGCCAGCCATGTGCGGGACGCTG
 TGGCTGTGATCCAGTACTTGGTCTGGTTGGAGAAGAAGCTGCCCAAAGGCACGGTGGATGAGTTTCTGG
 AGCGGAACACATTGATCAGTTACGACGGAATGAAAACCTCTCCTCTGGACCCAGTTTTGAAACATTCT
 GCTAGTGGCCTGAACGCCGCCCTGGCCATTACAGCCCAACAAAAGAGCTGCACCGTAAGCTGTCCTTAG
 ATGAGATGTACCTGGTGGATTCTGGAGGCCAATACTGGGATGGGACCACAGATATCACCAGAACAGTACA
 CTGGGGTACTCCTACTGCCTTTCAAAGGAGGCTTACACGCGTGTGCTGATGGGAAACATCGATCTGTCC
 AGACTTGTCTTCTGCTGCTACATCAGGGAGAGTGGTGGAAAGCCTTTGCTCGAAGAGCCTTATGGGAAG
 TTGGGCTCAATTATGGTCATGGGACAGGCCATGGCATTGGTAATTTCTCTGCGTGCATGAGTGGCCAGT
 GGGGTTCCAGTATAACAACATGGCCATGGCCAAAGGCATGTTCACTTCCATCGAACCTGGATACTACCAG
 GATGGGAATTTGGAATCCGCTTGAAGACGTCGCCCTCGTGGTGAAGCAAAGACCAAGTACCCAGGGA
 CCTACCTGACTTTTGAATTTGGTATCCTTTGTACCTATGACCGAAACCTCATTGATGTCAGCCTGCTGTC
 CCCAGAGCAGCTCCAGTACCTGAACCGCTACTACCAGACCATCCGTGAGAACATAGGCCAGAACTGCAG
 CGTCGCCAGCTGCTGGAGGAATTCGCATGGCTGGAGCGGCACACAGAGCCCTGTGAGCCAGTGCCCTC
 ATACCACGTCCTTGGCCTCTATGTGGGTAGCCTCTGCCCTTGCCATCCTCAGCTGGAGTTGC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR204077 representing NM_057155
 Red=Cloning site Green=Tags(s)

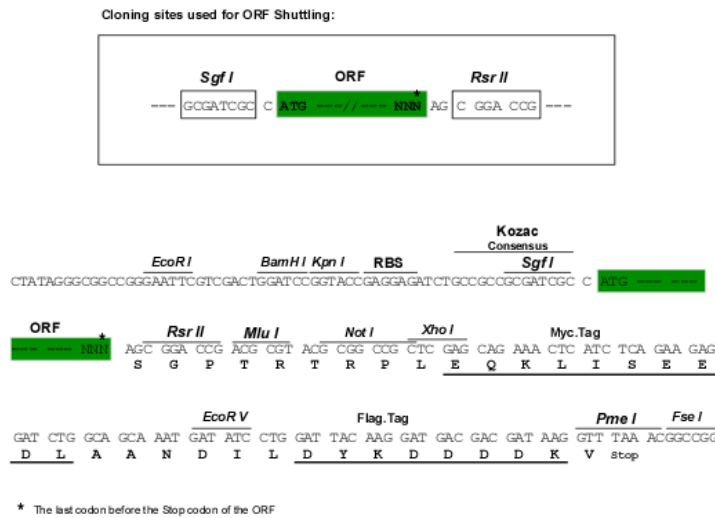
MAQAYWQCPWL VLLCACAWSYPGESL GREDVRDCSTNPPRLPVTAVNTT MRLAALRQQMEKSNLSAYI
 IPDTHAMSEYIGKHDERRAWISGFTGSAGTAVVTKKAAVWTD SRYWTQAERQMDCNWELHKEVSISSI
 VAWILAEPDGENVGFDPFLF SVGSWENYDQELQDSNRHLLSITNLVDVAWGSE RPPVPSQPIYALPKE
 FTGSTWQEKVSAIRSYMQNHTMAPTGVLLSALDETA WLFNLRSSDIPYNPFFYSYTLTDS SIRL FVNKS
 RFSLETLQYLNTNCTLP MCVQLEDYSQIRDGVKAYASGNVKILIGISYTTYGVYDVIPKEKLV TETYS
 PVMLIKAVKNSKEQALLKASHVRDAVAVIQYLVWLEKNVPKGT VDEFSGAEHIDQLRRNENFSSG P
 SFETISASGLNAALAHYSPTELHRKLSLDEMYL VDSGGQYWDGTTDITRTVHWGTP TAFQKEAYTRV
 LMGNDLSRLVFPAA TSGRVVEAFARRALWEVGLNYGHGTGHGIGNFLCVHEWPVGFQYNNMAMA
 KGMTSIEPGYYQDGEFGIRLEDVALVVEAKTKYPTYLTFELVSFVPYDRNLIDV SLLSPEQLQYL
 NRYQTIRENIGPELQRRQLLEEF AWLERHTEPLSASAPHTTSLASMWVASALAILSWSC

SGP TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja2702_e05.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_057155

ORF Size: 2022 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](#)

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_057155.3, NP_476496.1](#)

RefSeq Size: 2828 bp

RefSeq ORF: 2025 bp

Locus ID: 117522

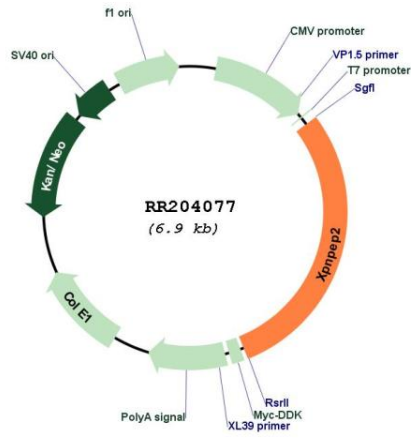
UniProt ID: [Q99MA2](#)

Cytogenetics: Xq36

MW: 76.1 kDa

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

Product images:



Circular map for RR204077