

## Product datasheet for **MR213518**

### Xpnpep2 (NM\_133213) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Xpnpep2 (NM_133213) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Xpnpep2
Synonyms:	9030008G12Rik; mAPP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide  
Sequence:**

>MR213518 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCAAAGCCTACTGGCAGTGTACCCCTGGCTTATTCTCCTCTGTGCATGTGCCTGGAGCTACCCAG  
 AGCCCAAGTACCTTGGAAGGGAAGATGTGAGAACTGTTCAACCAGCCCTGAGCGCCTGCCAGTTACTGC  
 CGTCAATACAACAATGCGGCTTGACGCCCTCCGCCAACAGATGGAGACCTGGAATCTCTCTGCTACATC  
 ATCCCAGACAGGATGCACACATGAGTGAGTACATTGGCAAACCTGATAAGAGGGCAGAGTGGATTTGAG  
 GCTTACAGGGTCTGCAGGACTGCTGTGGTGACCATGGGGAAAGCAGCTGTCTGGACCGATAGTCGTTA  
 CTGGACTCAGGCCGAAAGGCAGATGGACTGCAACTGGGAGCTGCACAAGGAAGTTAGCATTCTTCCATT  
 GTCGCCTGGATCTTAGCTGAAGTCCCTGATGGACAGAACGTGGGCTTCGACCCCTTCTCTTTTCTGTTG  
 ATTCCTGGAAAAATTATGATCAAGGATCCAAGACTCCAGCAGACACCTGTTATCGGTTACAACCAACCT  
 TGGTACGTTGGCATGGGGTTCAGAGAGGCCCCAGTGCCAAGCCAACCCATTTATGCCCTGCCGAAAGAA  
 TTTACAGGGAGCACTTGGCAGGAAAAAGTATCCGCTGTCCGAAGCTATATGGAGCACCATGCCAAGACTC  
 CAACTGGGGTCTTCTATCTGCACCTTGTGAGACAGCCTGGCTCTTCAACCTTCGTAGCAGTGACATCCC  
 CTATAACCCCTTCTTCTACTCCTATGCACTGCTCACGAACTCCTCCATCAGGTTGTTGTCAACAAGAGT  
 CGCTTTAGCCTTGAGACCTTGACGTACCTGAATACAACTGCACATTACCCATGTGTGTGCAACTTGAGG  
 ACTACAGTCAAGTTCGTGACAGTGTGAAGGCCTATGCCTCAGGCATGTGAAAATCTTAATTGGGGTCAG  
 CTATACCCTATGGGGTCTATGAAGTGATACCAAGGAGAACTCGTGACAGACACCTACTCCCCAGTG  
 ATGTTAATCAAGGCTGTGAAGAACAGCAAGGAGCAGGCCCTTTTGAAGAGCAGCCACGTGCGGGACGCTG  
 TGGCTGTGATCCAGTACTTGGTCTGGTTGGAGAAGAAGCTGCCCAAAGGCACGGTGGATGATTTTTCTGG  
 GGCAGAATACATTGATGAGTTACGACGGAATGAAAACCTTCTCCTCTGGACCCAGTTTTGAAACCATCTCT  
 GCTAGTGGCCTGAATGCCGCCCTGGCCATTACAGCCCAACAAAAGAGCTGCACCGTAAGCTGTCCTCAG  
 ATGAGATGTACCTGGTGGATTCTGGGGGCAATACTGGGATGGGACCACAGATATCACCAGAACAGTACA  
 TTGGGGCACTCCTACTGCCTTCCAAAAGGAGGCCATACTCGAGTGCTAATGGGAAACATCGATCTGTCC  
 AGACTTGTCTTCTGCTGCTACATCAGGGAGAGTGATAGAAGCCTTTGCCCGAAGAGCCTTATGGGAAG  
 TTGGGCTCAATTATGGTCATGGGACAGGCCATGGCATTGGCAACTTCTCTGTGTGCATGAGTGGCCAGT  
 GGGATTCCAGTATAACAACATTGCCATGGCCAAGGGCATGTTCACTTCCATTGAACCTGGATACTACCAT  
 GATGGGGAGTTTGAATCCGCTTTGAAGATGTCGCCCTTGTGGTGAAGCAAAAACCAAGTACCCAGGGG  
 ACTACCTGACTTTTGAATGGTGTCTTTGTGCCCTATGACCGAAACCTCATCGATGTGAGGCTGCTGTC  
 CCCAGAGCAGCTCCAGTACCTGAACCGCTACTATCAGACCATTCTGTGAGAATGTAGGCCAGAGCTGCAG  
 CGTCGCCAGCTGCTGGAGGAGTTTGCATGGTTGGAGCAGCACACGGAGCCCTGTGAGCCAGGGCCCTC  
 ATATCATCTCCTGGACCTCTCTGTGGTGGCCTCTGCCCTTGCCATCCTCAGCTGGAGTAGC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR213518 protein sequence  
Red=Cloning site Green=Tags(s)

MAQAYWQCPWLILLCACAWSYPEPKYLGREDVRNCSTSPERLPVTAVNTTMRALALRQQMETWNLSAYI  
 IPDTHAHMSEYIGKPKRREWISGFTGSAGTAVVTMGAAVWTDSDRYWTAERQMDCNWELHKEVSISSI  
 VAWILAEPVDPGQNVGDFPFLFSVDSWKNYDQGFQDSSRHLLSVTTLNLDVAVWGSESRPPVPSQPIYALPKE  
 FTGSTWQEKVSAVRSYMEHHAKTPTGVLLSALDEAWLFNLRSSDIPYNPFFYSYALLTNSSIRLNVNKS  
 RFSLETLQYLNTNCTLPMCQLEDYSQVRDSVKAYASGDVKILIGVSYTTYGVYEVIPKEKLVTDYSPV  
 MLIKAVKNSKEQALLKSSHVRDAVAVIQYLWLEKNVPGKTVDEFSGAEYIDELRRNENFSSGSPFETIS  
 ASGLNAALAHYSPTKELHRKLSSEMVLVDSGGQYWDGTTDITRTVHWGTPAFQKEAYTRVLMGNIDLS  
 RLVFPAATSGRVEAFARRALWEVGLNYGHGTGHGIGNFLCVHEWPVGFQYNNIAMAKGMFTSIEPGYYH  
 DGEFGIRLEDVALVVEAKTKYPGDYLFELVSFVPYDRNLIDVRLLSPEQLQYLNRYQTIRENVGPELQ  
 RRQLLEEFQWLEQHTPELSARAPHIISWTSWVAVASALAILSWSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_133213

**ORF Size:** 2025 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:**

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\\_133213.1](#), [NM\\_133213.2](#), [NP\\_573476.2](#)

**RefSeq Size:** 3498 bp

**RefSeq ORF:** 2025 bp

**Locus ID:** 170745

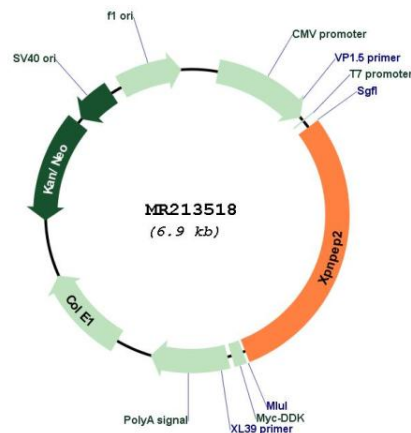
**UniProt ID:** [B1AVD1](#)

**Cytogenetics:** X A4

**MW:** 76.4 kDa

**Gene Summary:** Membrane-bound metalloprotease which catalyzes the removal of a penultimate prolyl residue from the N-termini of peptides, such as Arg-Pro-Pro. May play a role in the metabolism of the vasodilator bradykinin.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MR213518