

Product datasheet for **MG213518**

Xpnpep2 (NM_133213) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Xpnpep2 (NM_133213) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Xpnpep2
Synonyms:	9030008G12Rik; mAPP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG213518 representing NM_133213
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAAAGCCTACTGGCAGTGTACCCCTGGCTTATTCTCCTGTGCATGTGCCTGGAGCTACCCAG
 AGCCCAAGTACCTTGAAAGGGAAGATGTGAGAACTGTTCAACCAGCCCTGAGCGCCTGCCAGTTACTGC
 CGTCAATACAACAATGCGGCTTGACAGCCCTCCGCCAACAGATGGAGACCTGGAATCTCTCTGCTACATC
 ATCCCAGACAGGATGCACACATGAGTGAGTACATTGGCAAACCTGATAAGAGGGCAGAGTGGATTTTCAG
 GCTTACAGGGTCTGCAGGACTGCTGTGGTGACCATGGGGAAAGCAGCTGTCTGGACCGATAGTCGTTA
 CTGGACTCAGGCCGAAAGGCAGATGGACTGCAACTGGGAGCTGCACAAGGAAGTTAGCATTCTTCCATT
 GTCGCCTGGATCTTAGCTGAAGTCCCTGATGGACAGAACGTGGGCTTCGACCCCTTCTCTTTTCTGTTG
 ATTCCTGGAAAAATTATGATCAAGGATCCAAGACTCCAGCAGACACCTGTTATCGGTTACAACCAACCT
 TGGTGACGTGGCATGGGGTTCAGAGAGGCCCCAGTGCCAAGCCAACCCATTTATGCCCTGCCGAAAGAA
 TTTACAGGGAGCACTTGGCAGGAAAAAGTATCCGCTGTCCGAAGCTATATGGAGCACCATGCCAAGACTC
 CAACTGGGGTCTTCTATCTGCACCTTGTGAGACAGCCTGGCTCTTCAACCTTCGTAGCAGTGACATCCC
 CTATAACCCCTTCTTCTACTCCTATGCACTGCTCACGAACTCCTCCATCAGGTTGTTGTCAACAAGAGT
 CGCTTTAGCCTTGAGACCTTGACGTACCTGAATACAACTGCACATTACCCATGTGTGTGCAACTTGAGG
 ACTACAGTCAAGTTCGTGACAGTGTGAAGGCCTATGCCTCAGGCATGTGAAAATCTTAATTGGGGTCAG
 CTATACCCTATGGGGTCTATGAAGTGATACCAAGGAGAACTCGTGACAGACACCTACTCCCCAGTG
 ATGTTAATCAAGGCTGTGAAGAACAGCAAGGAGCAGGCCCTTTTGAAGAGCAGCCACGTGCGGGACGCTG
 TGGCTGTGATCCAGTACTTGGTCTGGTTGGAGAAGAAGTGCCTGAGGACCGGTTGATGATTTTCTGG
 GGCAGAATACATTGATGAGTTACGACGGAATGAAAACCTTCTCCTCTGGACCCAGTTTTGAAACCATCTCT
 GCTAGTGGCCTGAATGCCGCCCTGGCCATTACAGCCCAACAAAAGAGCTGCACCGTAAGCTGTCCTCAG
 ATGAGATGTACCTGGTGGATTCTGGGGGCAATACTGGGATGGGACCACAGATATCACCAGAACAGTACA
 TTGGGGCACTCCTACTGCCTTCCAAAAGGAGGCCATACTCGAGTGCTAATGGGAAACATCGATCTGTCC
 AGACTTGTCTTCTGCTGCTACATCAGGGAGAGTGATAGAAGCCTTTGCCCGAAGAGCCTTATGGGAAG
 TTGGGCTCAATTATGGTCATGGGACAGGCCATGGCATTGGCAACTTCTCTGTGTGCATGAGTGGCCAGT
 GGGATTCCAGTATAACAACATTGCCATGGCCAAGGGCATGTTCACTTCCATTGAACCTGGATACTACCAT
 GATGGGGAGTTTGAATCCGCTTGAAGATGTCGCCCTTGTGGTGAAGCAAAAACCAAGTACCCAGGGG
 ACTACCTGACTTTTGAATGGTGTCTTTGTGCCCTATGACCGAAACCTCATCGATGTGAGGCTGCTGTC
 CCCAGAGCAGCTCCAGTACCTGAACCGCTACTATCAGACCATTCTGTGAGAATGTAGGCCAGAGCTGCAG
 CGTCGCCAGCTGCTGGAGGAGTTTGCATGGTTGGAGCAGCACACGGAGCCCTGTGAGCCAGGGCCCTC
 ATATCATCTCCTGGACCTCTCTGTGGTGGCCTCTGCCCTTGCCATCCTCAGCTGGAGTAGC

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG213518 representing NM_133213
 Red=Cloning site Green=Tags(s)

MAQAYWQCYPWLLCACAWSYPEPKYLGREDVRNCSTSPERLPVTAVENTTMRLLAALRQQMETWNL SAYI
 IPDTHAHMSEYIGKPKRREWISGFTGSAGTAVVTMGAAVWTD SRYWTQAE RQMDCNWELHKEVSISSI
 VAWILAEPDQGNVGFDPFLF SVDSWKNYDQGFQDSSRHLLSVTTNLVDVAWGSE RPPVPSQPIYALPKE
 FTGSTWQEKVSAVRSYMEHHAKTPTGVLLSALDETAWLFNLRSSDIPYNPFFYSYALLTNS SIRL FVNKS
 RFSLETLQYLNNTCLPMCQVLEDYSQVRDSVKAYASGDVKILIGVSYTTYGVYEVIPKEKLVTD TYSPV
 MLIKAVKNSKEQALLKSSHVRDAVAVIQYL VWLEKNVPKGTVDEFSGAEYIDELRRNENFSSGSPFETIS
 ASGLNAALAHYSPTKELHRKLSSEMYLVDSGGQYWDGTTDITRTVHWGTPTAFQKEAYTRVLMGNIDLS
 RLVFPAATSGRVEIAFARRALWEVGLNYGHGTGHGIGNFLCVHEWPVGFQYNNIAMAKGMFTSIEPGYYH
 DGEFGIRLEDVALVVEAKTKYPGDYLFELV SFVPYDRNLIDVRLLSPEQLQYLNRYQTIRENVGPELQ
 RRQLLEEF AWLEQHTEPLSARAPHIISWTS LWVASALAILSWSS

TRTRPLE - GFP Tag - V

Restriction Sites:

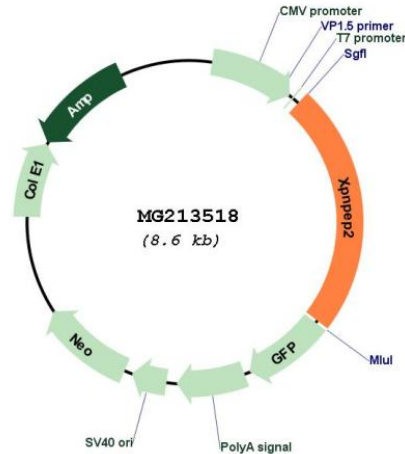
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_133213

ORF Size: 2022 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_133213.2](#), [NP_573476.2](#)

RefSeq Size: 3498 bp

RefSeq ORF: 2025 bp

Locus ID: 170745

UniProt ID: [B1AVD1](#)

Cytogenetics: X A4

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]