

Product datasheet for **MG209521**

Xpnpep1 (NM_133216) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Xpnpep1 (NM_133216) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Xpnpep1
Synonyms:	D230045I08Rik; sAMP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG209521 representing NM_133216
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGCAGCCTCCAGAAAGCCGCCGCGAGTAAGGGCGAATCGCCAGGACTTTCAGCTGAGAAATTTAAGAA
TAATTGAACCTAACGAGGTGACACCCTCAGGAGACAAGAGTGTGGAACAGACCACAGGATGGCTCCGAA
GGTGACTTCAGAAGCTGCTTCGGCAGCTGCGACAAGCTATGAGGAACTCCGAATACGTGGCAGAACCATC
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TACCACCAGACCTGCAGGGACGTGGTTGGGAAGGAGCTGCAGAGCCAGGGCCGCCAGGAAGCTCTCGAGT
GGCTCATCAGAGAGACAGAGCCTGTCTCCAGGCAGCAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG209521 representing NM_133216
 Red=Cloning site Green=Tags(s)

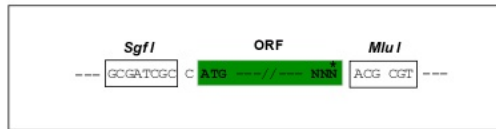
MAASRKPPRVNRRQDFQLRNLRIIEPNEVTPSGDKSVETDHRMAPKVTSELLRQLRQAMRNSEYVAEPI
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 MIVTDEPGYYEDGAFGIRIENVLVVPAKTKYFNFRGSLTFEPLTLVPIQTKMIDVNALTDKECDWLNS
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TRTRPLE - GFP Tag - V

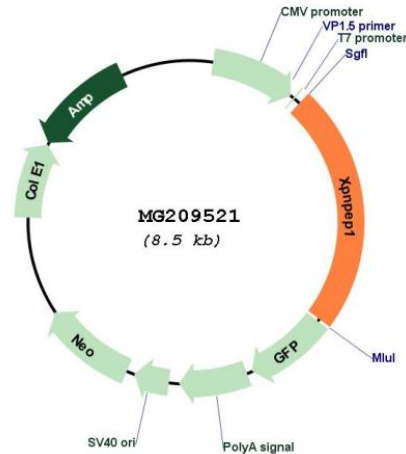
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_133216

ORF Size: 1998 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_133216.3](#), [NP_573479.3](#)

RefSeq Size:	2521 bp
RefSeq ORF:	2001 bp
Locus ID:	170750
UniProt ID:	<u>Q6P1B1</u>
Cytogenetics:	19 D2
Gene Summary:	Contributes to the degradation of bradykinin. Catalyzes the removal of a penultimate prolyl residue from the N-termini of peptides, such as Arg-Pro-Pro (By similarity).[UniProtKB/Swiss-Prot Function]