

## Product datasheet for **MG211183**

### **Npepps (NM\_008942) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Npepps (NM_008942) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Npepps
Synonyms:	AAP-S; goku; MP100; Psa; R74825
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>MG211183 representing NM\_008942  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTGGCTGGCAGCCGCCGTCCCCTCCCTCGCTCGCCGCCTGCTCCTCCTCGGCCCTCCGCCTCTCCCC  
TCCTTCTCCTCCTCAGCCGCTCCTCTCGCCGCCGCCGCCCTCCACAGCCTGGGCTCGCCGCGATGCC  
GGAGAAGCGGCCCTTCGAGCGGCTGCCCGGAGGTGTCGCCATCAACTACAGCCTCTGCCTCAAGCCC  
GATTTGCTGGACTTACCTTCGAGGGCAAGCTGGAGGCCGCCGCCAGGTAAGGCAGGCAACCAATCAAA  
TTGTGATGAATTGTGCTGATATTGACATTATTACAGCTTCATATGCCCCAGAAGGAGATGAAGAAATCCA  
TGCGACAGGATTTAACTATCAGAATGAAGATGAGAAAGTCACCTTGTCTTTTCTAGCACTCTGCAAACA  
GGTACAGGAACCTTAAAGATAGATTTTGTGGAGAGCTGAATGACAAAATGAAAGTTTCTATAGAAGCA  
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GAAGTCAGTGTGGCCATCCGTCTGAGGTTGATGAGATATTTGATGCTATATCATATAGCAAAGGTGCAT  
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CTAATGGATAAGCCAGAGATGAGTGTGGTTTTGAAAAATGTCAAACCAGACCAATGGGTAAGCTAAATC  
TGGGAACAGTTGGGTTTTATCGAACCCAGTACAGCTCTGCCATGCTCGAAAGTTTATTACCAGGCATCCG  
TGACCTTTCTCTGCCCCAGTGGATCGACTTGGATTACAGAATGACCTCTTTTCTCTGGCTCGAGCTGGC  
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AACCGGTACCAGGGAGGTTCTTAATAACAGACTAATAAAGCTCTCAGTTGAGGGGTTTGCAGTTGATA  
AAATGGCTGGAGAAGTTAAGGCTTTCTTCGAGAGTCAACCAGCTCCTCAGCTGAGCGCACCATCCAGCA  
GTGTTGTGAAAATATCCTGTTGAATGCTGCTTGGCTCAAGCGAGATGCTGACAGCATTACCAGTACCTC  
CTTCAGCGGAAAACCTCCCCACCTCGGTG

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG211183 representing NM\_008942  
 Red=Cloning site Green=Tags(s)

MWLA AAVPSLAR RLLLLG P P P P L L L L L S R S S R R R R R L H S L G L A A M P E K R P F E R L P A E V S P I N Y S L C L K P  
 D L L D F T F E G K L E A A A Q V R Q A T N Q I V M N C A D I D I I T A S Y A P E G D E E I H A T G F N Y Q N E D E K V L S F P S T L Q T  
 G T G T L K I D F V G E L N D K M K G F Y R S R Y T T P A G E V R Y A A V T Q F E A T D A R R A F P C W D E P A I K A T F D I S L V V P K D  
 R V A L S N M N V I D R K P Y P D D E N L V E V K F A R T P V M S T Y L V A F V V G E Y D F V E T R S K D G V C V R V Y T P V G K A E Q G K  
 F A L E V A A K T L P F Y K D Y F N V P Y P L P K I D L I A I A D F A A G A M E N W G L V T Y R E T A L L I D P K N S C S S R Q W V A L V  
 V G H E L A H Q W F G N L V T M E W W T H L W L N E G F A S W I E Y L C V D H C F P E Y D I W T Q F V S A D Y T R A Q E L D A L D N S H P I  
 E V S V G H P S E V D E I F D A I S Y S K G A S V I R M L H D Y I G D K D F K G M N M Y L T K F Q Q K N A A T E D L W E S L E S A S G K P  
 I A A V M N T W T K Q M G F L I Y V E A E Q V E D D R V L K L S Q K K F C A S G P Y G G E D C P Q W M V P I T I S T S E D P N Q A K L K I  
 L M D K P E M S V V L K N V K P D Q W V K L N L G T V G F Y R T Q Y S S A M L E S L L P G I R D L S L P P V D R L G L Q N D L F S L A R A G  
 I I S T V E V L K V M E A F V N E P N Y T V W S D L S C N L G I L S T L L S H T D F Y E E I Q E F V K D V F S P I G E R L G W D P K P G E G  
 H L D A L L R G L V L G K L G K A G H K A T L E E A R R R F K E H V E G K Q I L S A D L R S P V Y L T V L K H G D G A T L D I M L K L H K Q  
 A D M Q E E K N R I E R V L G A T L S P E L I Q K V L T F A L S E E V R P Q D T V S V I G G V A G G S K H G R K A A W K F I K D N W E E L H  
 N R Y Q G G F L I S R L I K L S V E G F A V D K M A G E V K A F F E S H P A P S A E R T I Q C C E N I L L N A A W L K R D A D S I H Q Y L  
 L Q R K T S P P S V

TRTRPLE - GFP Tag - V

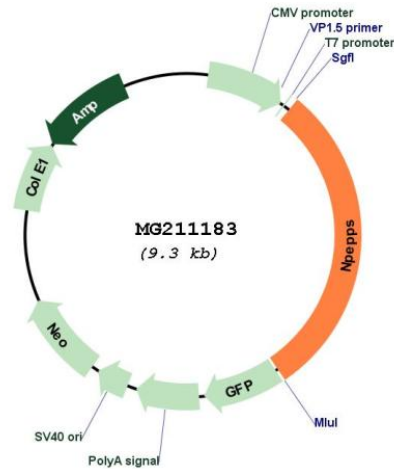
Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



**Plasmid Map:**


**ACCN:** NM\_008942

**ORF Size:** 2760 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\\_008942.3](#)

**RefSeq Size:** 4161 bp

**RefSeq ORF:** 2763 bp

**Locus ID:** 19155

**UniProt ID:** [Q11011](#)

**Cytogenetics:** 11 60.95 cM

**Gene Summary:**

Aminopeptidase with broad substrate specificity for several peptides. Involved in proteolytic events essential for cell growth and viability. May act as regulator of neuropeptide activity. Plays a role in the antigen-processing pathway for MHC class I molecules. Involved in the N-terminal trimming of cytotoxic T-cell epitope precursors. Digests the poly-Q peptides found in many cellular proteins.[UniProtKB/Swiss-Prot Function]