

## Product datasheet for **MR211183**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Npepps (NM_008942) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Npepps
Synonyms:	AAP-S; goku; MP100; Psa; R74825
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR211183 representing NM\_008942  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGGCTGGCAGCCGCGTCCCCTCCCTCGTCGCCCGCTGCTCCTCCTCGGCCCTCCGCCTCTCCCC  
 TCCTTCTCCTCCTCAGCCGCTCCTCTCGCGCCGCGCCGCTCCACAGCCTGGGCTCGCCGCGATGCC  
 GGAGAAGCGGCCCTTCGAGCGGCTGCCCGGAGGTGTCGCCATCAACTACAGCCTCTGCCTCAAGCCC  
 GATTTGCTGGACTTACCTTCGAGGGCAAGCTGGAGGCCGCCAGGTAAAGCAGGCAACCAATCAAA  
 TTGTGATGAATTGTGCTGATATTGACATTATTACAGCTTCATATGCCCCAGAAGGAGATGAAGAAATCCA  
 TGCGACAGGATTTAACTATCAGAATGAAGATGAGAAAGTACCTTGTCTTTTCTAGCACTCTGCAAACA  
 GGTACAGGAACCTTAAAGATAGATTTTGTGGAGAGCTGAATGACAAAATGAAAGTTTCTATAGAAGCA  
 GATACACCACCCCTGCCGGGAGGTGCGCTATGCTGCTGTACACAGTTTGGGCTACTGATGCCGAAG  
 GGCTTTTCTTGTGGGATGAGCCTGCTATCAAAGCAACTTTTGATATCTCGCTGGTTGTGCTAAAGAC  
 AGAGTGGCTTTATCAAATATGAATGTAATTGACAGGAAACCATATCCTGATGATGAAAATTTAGTGGAAAG  
 TGAAGTTTGTCTGCACACCTGTTATGTCTACGTATCTGGTGGCATTGTTGTGGGTGAATATGACTTTGT  
 AGAAAAGAGTCAAAGATGGTGTGTGTGTCGGTGTACACCCCTGTTGGCAAAGCAGAGCAAGGAAAAG  
 TTTGCGCTCGAGGTTGCTGCTAAGACCTTGCCTTTTTATAAAGACTACTTCAATGTTCTTATCCTCTAC  
 CTAATAATGATCTCATTGCTATTGCTGACTTTGCACTGGTGGCCATGGAGAACTGGGGCCTTGTTACTTA  
 TAGGGAACCGCCTTGTATTGATCCAAAAACTCGTGTCTTCATCACGCCAGTGGGTTGCTCTGGTT  
 GTGGGACATGAACTCGCCATCAATGGTTTGGAAATCTTGTACTATGGAATGGTGGACTCATCTGTT  
 TGAATGAAGCTTTGCATCCTGGATTGAGTATCTTTGTGTAGACCACTGCTTTCCAGATGATGATCTG  
 GACTCAGTTTGTCTGAGATTATACCCGTGCCAGGAACTTGATGCCTTAGATAACAGCCATCCTATT  
 GAAGTCAGTGTGGCCATCCGTCTGAGGTTGATGAGATATTTGATGCTATATCATATAGCAAAGGTGCAT  
 CTGTAATCCGAATGCTACATGACTACATTGGTGATAAGGACTTTAAGAAAGGAATGAATATGATTTAAC  
 CAAGTTCCAACAAAAGAATGCTGCCACAGAGGATCTCTGGGAAAGTTTGGAAAGTCCAGTGGCAAACCC  
 ATAGCAGCTGTGATGAATACCTGGACCAACAAATGGGATTCCCTCTCATTTATGTGGAAGCTGAACAGG  
 TAGAAGATGACAGAGTGTGAAGCTGTCTCAGAAGAAGTTTGTGCCAGTGGACCATATGGCGGTGAAGA  
 CTGTCTCAGTGGATGGTTCTATCACAATTTCAACTAGTGGGATCCTAACAGGCTAAGCTGAAAATA  
 CTAATGGATAAGCCAGAGATGAGTGTGGTTTTGAAAAATGTCAAACCAGACCAATGGGTAAGCTAAATC  
 TGGGAACAGTTGGGTTTTATCGAACCCAGTACAGCTCTGCCATGCTCGAAAGTTTATTACCAGGCATCCG  
 TGACCTTTCTCTGCCCCAGTGGATCGACTTGGATTACAGAATGACCTCTTTTCTCTGGCTCGAGCTGGC  
 ATCATTAGCACTGTAGAGGTTCTAAAAGTCATGGAGGCTTTTGTGAATGAGCCCAATTATACTGTATGGA  
 GCGACCTGAGCTGTAACCTGGGATTCTTTCAACTCTCTTGTCCACACAGACTTCTATGAGGAAATCCA  
 GGAGTTTGTCAAAGATGTCTTTTACCTATAGGAGAGAGATTGGGCTGGGACCCCAAACCTGGAGAAGGT  
 CATCTAGACGCACTCCTGAGGGGCTTGGTGTGGGCAACTGGGAAAAGCAGGCCATAAGGCAACTTTGG  
 AAGAAGCCCGTCGTCGGTTTAAAGGACAGTGGAAAGGAAACAGATTCTTTCTGCTGACCTAAGGAGTCC  
 TGTCTATCTCACTGTTTTAAAGCATGGGATGGCGTACCTTAGATATCATGCTGAAGTTCACAAACAA  
 GCTGATATGCAAGAAGAGAAAAACAGAATTGAAAGAGTTCTTGGGCTACTCTTTACCTGAACGATTTC  
 AAAAAGTCCTTACTTTTGCATTTTCAAGAGAGTCCGTCCGACAGGACTGTGTGGTATTGGTGGAGT  
 GGCTGGAGGCAGCAAGCATGGGAGGAAAGCTGCTTGGAAATTCATCAAGGACAACTGGGAGGAGCTTAC  
 AACCGGTACCAGGGAGGTTCTTAATAATCCAGACTAATAAAGCTCTCAGTTGAGGGGTTTGCAGTTGATA  
 AAATGGCTGGAGAAGTTAAGGCTTTCTTCGAGAGTCAACCAGCTCCTTACAGTGGAGCCACCATCCAGCA  
 GTGTTGTGAAAAATCCTGTTGAATGCTGCTTGGCTCAAGCGAGATGCTGACAGCATTACCAGTACCTC  
 CTCAGCGGAAAACCTCCCCACCCTCGGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211183 representing NM\_008942  
 Red=Cloning site Green=Tags(s)

MWLA AAVPSLAR RLLLLG P P P P L 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 T 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 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

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mm9040\\_d08.zip](https://cdn.origene.com/chromatograms/mm9040_d08.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



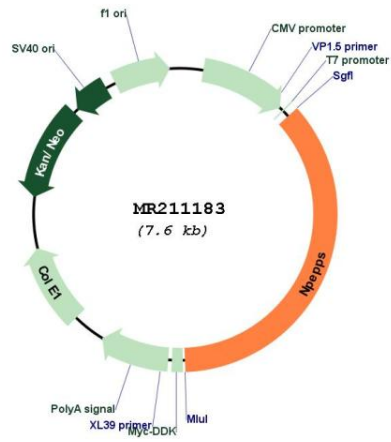
\* The last codon before the Stop codon of the ORF

ACCN: NM\_008942

ORF Size: 2760 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_008942.3</a>
<b>RefSeq Size:</b>	4161 bp
<b>RefSeq ORF:</b>	2763 bp
<b>Locus ID:</b>	19155
<b>UniProt ID:</b>	<a href="#">Q11011</a>
<b>Cytogenetics:</b>	11 60.95 cM
<b>MW:</b>	103.8 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for MR211183