

## Product datasheet for **MR211336**

### Anpep (NM\_008486) Mouse Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                      |
| Product Name:             | Anpep (NM_008486) Mouse Tagged ORF Clone |
| Tag:                      | Myc-DDK                                  |
| Symbol:                   | Anpep                                    |
| Synonyms:                 | AP-M; AP-N; Apn; Cd13; P150              |
| Mammalian Cell Selection: | Neomycin                                 |
| Vector:                   | pCMV6-Entry (PS100001)                   |
| E. coli Selection:        | Kanamycin (25 ug/mL)                     |



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**ORF Nucleotide Sequence:**

>MR211336 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCAAGGGTTCTACATTTCCAAGACCTGGGCATCTTGGGCATCCTGTTGGGTGTGGCAGCTGTGT  
 GTACCATCATAGCTCTGTGCGGTGGTCTACGCTCAGGAGAAGAATAGGAATGCAGAGAAGCTGCCACAGC  
 CCCCACGCTCCCGGGCAGCACCTCAGCCACCACCACCAACCACCCCTGCTGTAGATGAAAGCAAGCCT  
 TGGAAACCAGTATCGCTTGCCTAAGACTCTTATACCTGACTCCTACCGGGTATCCTGAGACCCTACCTCA  
 CCCCCAACATCAGGGCCTGTACATCTTCCAAGGCAACAGTACTGTTTCGCTTTACCTGCAACCAGACCAC  
 GGATGTCATTATCATCCACAGCAAAAAGCTCAACTACACCCTCAAAGGAAACCACAGGGTGGTGTGCGA  
 ACCCTGGACGGCACTCCGGCACCTAACATTGACAAAACGGAAGTGGTAGAGCGTACTGAGTACCTGGTGG  
 TGCACCTGCAGGGTCCCTGGTAGAGGGCCGTGAGTACGAGATGGACAGCCAGTCCAGGGGGAAGTGGC  
 TGATGACCTGGCTGGCTTCTACCGCAGCGAGTACATGGAAGGAGACGTCGAAGAAAGTGGTGGCTACAACG  
 CAGATGCAGGCTGCTGATGCTCGGAAATCCTTTCCATGTTTTGATGAGCCAGCCATGAAGGCCATGTTCA  
 ACATCACACTCATCTACCCCAACAACCTCATAGCTCTGTCTAATATGCTTCCCAAAGAGTCCAAGCCCTA  
 TCCGGAAGACCCTTCTGCACCATGACTGAGTTCCACTCCACCCCTAAGATGTCCACATACCTGTGGCC  
 TACATCGTGAGCGAGTTCAAAAATAAAGTCCGTCTCAGCCAATGGTGTCCAGATTGGAATCTGGGCTC  
 GGCCACAGTGCATTGATGAGGGCCAGGGTGATTACGCACTGAACGTTACAGGCCCATCTAAATTTCTT  
 TGCCCAACATTATAATACATCCTACCCTACCAAAGTCTGACCAGATTGCCCTGCCTGACTTCAACGCT  
 GGAGCCATGGAGAAGTGGGGTCTGGTGACCTACCGTGAGAGCTCCCTGGTCTTTGACTCTCAGCTCCTC  
 CCATTAGCAACAAGGAGCGGGTGGTCACTGTGATTGCTCAGAGCTGGCCATCAGTGGTTGGCAACCT  
 GGTGACTGTGGCTTGGTGAATGATCTGTGGCTGAACGAGGGCTTGCCTCCTACGTGGAATATCTGGGT  
 GCTGACTATGCAGAGCCTACCTGGAATCTGAAAGACCTCATGGTACTGAATGATGTGACCGTGTGATGG  
 CCGTGGATGCCCTTGCCTCCTCCACCCACTGTCCAGTCTGCTGACGAGATCAAAAACACAGACCAGAT  
 CATGGAGCTGTTTACAGCATCACCTACAGCAAGGGAGCCTCAGTCATCAGGATGCTGTCCAGTTTCTG  
 ACAGAGGACCTGTTTAAAGAGGGCTTTTATCTTATCTCCACACCTACCAGTACTCGAACACCGTTTATC  
 TGGACCTGTGGGAACACCTGCAAAAGGCCGTGAACCAACAGACAGCTGTCCAACCCCGGCCACGGTGGC  
 CACTATCATGGACCGCTGGATTCTACAGATGGGCTTTCCCGTTTACTGTGAACACCAATACAGGAGAA  
 ATCTCCAGAAACACTTCTCCTGGATTCCAAGTCCAACGTTACCCGCCCTCCGAGTTTAAATTACATCT  
 GGATCGCGCCCATTCATTTCTCAAAAGTGGACAGGAGGATCACTACTGGCTGGATGTGCGAGAAAACCA  
 GAGTGAAAGTCCAGACATCCTCCAATGAATGGATCTTACTGAACATTAACTAACCAGGCTACTACCTG  
 GTTAACTATGATGAGAACAACCTGGAAGAAGCTTCAAGATCAGCTGCAAACAGACCTTTCTGTTATCCCTG  
 TCATCAACCGAGCACAGATTATCCACGACTCCTTCAACCTGGCCAGTGTAAAATGATACCCATCACCCCT  
 GGCGCTGGACAACACCCTCTTCTGGTCAAAGAGGCGGAGTACATGCCCTGGCAGGCTGCCCTGAGCAGC  
 CTCAACTACTTACACTCATGTTTCGACCGCTCGGAGGTCTACGGCCCATGAAGAGGTATCTGAAGAAGC  
 AAGTTACGCCCTCTTCTTACTTCCAAAATAGAACCAACAACCTGGGTCAACCGTCTCCAACGCTGAT  
 GGAGCAGTACAATGAAATTAACGCCATCAGCACCGCTGTCCAGTGGTCTCAAAGAGTGTAGGGACCTG  
 GTCGTTGAGCTCTATAGTCAGTGGATGAAAAACCCTAATAAACAACAGATCCACCCCAACCTTCGGTCTA  
 CTGTCTACTGCAATGCCATTGCTTTCGGTGGCGAAGAAGAGTGGAACTTTGCTTGGGAACAGTTCGGAA  
 TGCAACTCTGGTGAACGAAGCGGACAACTCCGGTCAAGCCTGGCCTGTAGCAAAGATGTGTGGATTTTG  
 AACAGGTACCTGAGTTACTCTGAACCCGGACTACATCCGGAAGCAGGACACCCTCCACCATCATCA  
 GCATTGCCAGCAACGTGGCTGGGCACCCTCTGGTTTGGGACTTTGTCCGAAGCAACTGGAAGAACTGTT  
 TGAGAATTACGGTGGAGGATCTTCTCCTTTGCCAATCTCATCCAGGGAGTGACCCGGCGCTTCTCCTCT  
 GAGTTCGAGCTGCAGCAGCTGGAGCAGTTTAAAGCGGATAACTCAGCCACAGGCTTTGGCACCGGCACTC  
 GGGCTCTGGAGCAAGCCCTGGAGAAGACGAGAGCCAACATCGACTGGGTGAAGGAGAACAAGATGCGGT  
 ATCAAGTGGTTCACAGAGAACAGCAGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR211336 protein sequence  
 Red=Cloning site Green=Tags(s)

MAKGFYISKTLGILGILLGVAAVCTIIALSVVYAQEKNRNAENSATAPTLPGSTSATTATTPAVDESKP  
 WNQYRLPKTLIPDSYRVILRPYLTPNNGLYIFQGNSTVRFTCNQTTDVIIHSKKLNLYTLKGNHRVVL  
 TLDGTPAPNIDKTELVERTEYLVVHLQGSLEGRQYEMDSQFQELADDLAGFYRSEYMEGDVKKVATT  
 QMQAADARKSFPCFDEPAMKAMFNITLIYPNNLIALSNMLPKESKPYPEDPSCMTTEFHSTPKMSTYLLA  
 YIVSEFKNISSVSANGVQIGIWARPSAIDEGQGDYALNVTGPILNFFAQHYNTSYPLPKSDQIALPDFNA  
 GAMENWGLVVTYRESSLVFDSQSSSISNKERVVTVIAHEL AHQWFGNLVTVAWWDLWLNNEGFASYVEYLG  
 ADYAEPTWNLKDLMLVNDVYRVMVDALASSHPLSSPADEIKTPDQIMELFDSITYSKGASVIRMLSSFL  
 TEDLFKKGLSSYLHTYQYSNTVYLDLWEHLQKAVNQQTAVQPPATVRTIMDRWILQMGPVITVNTNTGE  
 ISQKHFLLDKSNVTRPSEFNWIWIPIPLKSGQEDHYWLDVEKNQSAKFQTSNEWILLNINVTGYLL  
 VNYDENNWKKLQNLQTDLSVIPVINRAQIIHDSFNLASAKMIPITLALDNTLFLVKEAEYMPWQAALSS  
 LNYFTLMFDRSEVYGPMPKRYLKKQVTPFFYFQNRRTNNWVNRPPTLMEQYNEINAISTACSSGLKECRDL  
 VVELYSQWMKPNNTIHPNLRSTVYCNAIAFGGEEENWF AWEQFRNATLVNEADKLRSALACSKDQWVIL  
 NRYLSYTLNPDYIRKQDTSSTIIASINVA GHPLVWDFVRSNWKKLFENYGGGSFANLIQGVTRRFSS  
 EFELQLEQFKADNSATGFGTGTRALEQALEKTRANIDWYKENKDAVFKWFTENS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

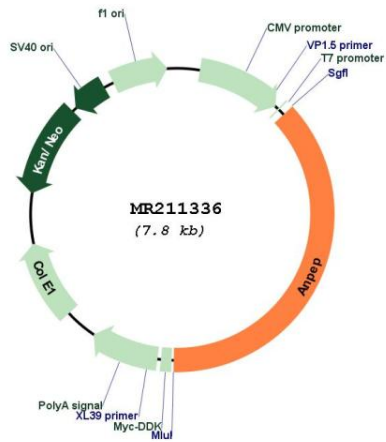


**ACCN:** NM\_008486

**ORF Size:** 2901 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_008486.3</a>   |
| <b>RefSeq Size:</b>           | 3439 bp   |
| <b>RefSeq ORF:</b>            | 2901 bp   |
| <b>Locus ID:</b>              | 16790   |
| <b>UniProt ID:</b>            | <a href="#">P97449</a>  |
| <b>Cytogenetics:</b>          | 7 D2  |
| <b>MW:</b>                    | 109.7 kDa   |
| <b>Gene Summary:</b>          | Broad specificity aminopeptidase which plays a role in the final digestion of peptides generated from hydrolysis of proteins by gastric and pancreatic proteases. Also involved in the processing of various peptides including peptide hormones, such as angiotensin III and IV, neuropeptides, and chemokines (By similarity). May also be involved the cleavage of peptides bound to major histocompatibility complex class II molecules of antigen presenting cells (PubMed:8691132). May have a role in angiogenesis and promote cholesterol crystallization (By similarity).[UniProtKB/Swiss-Prot Function] |

Product images:



Circular map for MR211336