

Product datasheet for **MG211336**

Anpep (NM_008486) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Anpep (NM_008486) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Anpep
Synonyms:	AP-M; AP-N; Apn; Cd13; P150
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>MG211336 representing NM_008486
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCAAGGGTTCTACATTTCCAAGACCCTGGGCATCTTGGGCATCCTGTTGGGTGTGGCAGCTGTGT
 GTACCATCATAGCTCTGTGCGGTGGTCTACGCTCAGGAGAAGAATAGGAATGCAGAGAAGCTGCCACAGC
 CCCCACGCTCCCGGGCAGCACCTCAGCCACCACCACCAACCACCCCTGCTGTAGATGAAAGCAAGCCT
 TGGAAACCAGTATCGCTTGCCTAAGACTCTTATACCTGACTCCTACCGGGTATCCTGAGACCCTACCTCA
 CCCCCAACATCAGGGCCTGTACATCTTCCAAGGCAACAGTACTGTTGCTTTACCTGCAACCAGACCAC
 GGATGTCATTATCATCCACAGCAAAAAGCTCAACTACACCCTCAAAGGAAACCACAGGGTGGTGTGCGA
 ACCCTGGACGGCACTCCGGCACCTAACATTGACAAAACGGAAGTGGTAGAGCGTACTGAGTACCTGGTGG
 TGCACCTGCAGGGTCCCTGGTAGAGGGCCGTGAGTACGAGATGGACAGCCAGTCCAGGGGGAAGTGGC
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 CAGATGCAGGCTGCTGATGCTCGGAAATCCTTTCCATGTTTTGATGAGCCAGCCATGAAGGCCATGTTCA
 ACATCACACTCATCTACCCCAACAACCTCATAGCTCTGTCTAATATGCTTCCCAAAGAGTCCAAGCCCTA
 TCCGGAAGACCCTTCTGCACCATGACTGAGTTCCACTCCACCCCTAAGATGTCCACATACCTGTGGCC
 TACATCGTGAGCGAGTTCAAAAATAAAGTCCGTCTCAGCCAATGGTGTCCAGATTGGAATCTGGGCTC
 GGCCAGTGCCATTGATGAGGGCCAGGGTGATTACGCACTGAACGTTACAGGCCCATCTAAATTTCTT
 TGCCCAACATTATAATACATCCTACCCTTACCAAAGTCTGACCAGATTGCCCTGCCTGACTTCAACGCT
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 TGGACCTGTGGGAACACCTGCAAAAGGCCGTGAACCAACAGACAGCTGTCCAACCCCGGCCACGGTGGC
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 GGATCGCGCCCATTCATTTCTCAAAAGTGGACAGGAGGATCACTACTGGCTGGATGTGAGAAAAACCA
 GAGTGAAAGTCCAGACATCCTCCAATGAATGGATCTTACTGAACATTAACGTAACCGGCTACTACCTG
 GTTAACTATGATGAGAACAACCTGGAAGAAGCTTCAAGATCAGCTGCAAACAGACCTTTCTGTTATCCCTG
 TCATCAACCGAGCACAGATTATCCACGACTCCTTCAACCTGGCCAGTGTAAAATGATACCCATCACCC
 GCGCTGGACAACACCCTCTTCTGGTCAAAGAGGCGGAGTACATGCCCTGGCAGGCTGCCCTGAGCAGC
 CTCAACTACTTACACTCATGTTTCGACCCTCGGAGGTCTACGGCCCATGAAGAGGTATCTGAAGAAGC
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 GAGTTCGAGCTGCAGCAGCTGGAGCAGTTAAAGCGGATAACTCAGCCACAGGCTTTGGCACCGGCACTC
 GGGCTCTGGAGCAAGCCCTGGAGAAGACGAGAGCCAACATCGACTGGGTGAAGGAGAACAAGATGCGGT
 ATCAAGTGGTTCACAGAGAACAGCAGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG211336 representing NM_008486
 Red=Cloning site Green=Tags(s)

MAKGFYISKTLGILGILLGVAAVCTIIALSVVYAQEKRNAENSATAPTLPGSTSATTATTPAVDESKP
 WNQYRLPKTLIPDSYRVLRLPYLTPNNGLYIFQGNSTVRFTCNQTTDVIIHSHKLNLYTLKGNHRVVLR
 TLDGTPAPNIDKTELVERTEYL VVHLQGSLEVRQYEMDSQFQELADDLAGFYRSEYMEGDVKKVVATT
 QMQAADARKSFPCFDEPAMKAMFNITLIYPNNLIALSNMLPKESKPYPEDPSCMTTEFHSTPKMSTYLLA
 YIVSEFKNISSVSANGVQIGIWARPSAIDEGQDYALNVTGPILNFFAQHYNTSYPLPKSDQIALPDFNA
 GAMENWGLVITYRESSLVFDSQSSSISNKERVVTVIAHEL AHQWFGNLVTVAWVNDLWLNNEGFASYVEYLG
 ADYAEPWNLKDMLVNDVYRVMVDALASSHPLSSPADEIKTPDQIMELFDSITYSKGASVIRMLSSFL
 TEDLFKKGLSSYLHTYQYSNTVYLDLWEHLQKAVNQQTAVQPPATVRTIMDRWILQMGPVITVNTNTGE
 ISQKHFLLDKSKSNVTRPSEFNWIWIPIFLKSGQEDHYWLDVEKNQSAKFQTSNEWILLNINVTGYLL
 VNYDENWKKLQNLQTDLSVIPVINRAQIIHDSFNLASAKMIPITLALDNTLFLVKEAEMPWQAALSS
 LNYFTLMFDRSEVYGPMPKRYLKKQVTPFFYFQNRRTNNWVNRPPTLMEQYNEINAISTACSSGLKECRDL
 VVELYSQWMKPNPNTIHPNLRSTVYCNIAIFGGEEENWF AWEQFRNATLVNEADKLRSALACSKDQWVIL
 NRYLSYTLNPDYIRKQDTTSTIIISIASNVAGHPLVWDFVRSNWKKL FENYGGGSFANLIQGVTRRFS
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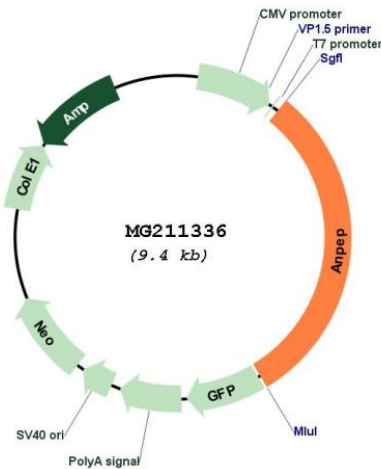
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_008486

ORF Size: 2898 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_008486.3](#)

RefSeq Size: 3367 bp

RefSeq ORF: 2901 bp

Locus ID: 16790

UniProt ID: [P97449](#)

Cytogenetics: 7 D2

Gene Summary: 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]