

Product datasheet for **MC201204**

Apln (NM_013912) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Apln (NM_013912) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Apln
Synonyms:	6030430G11Rik; Apel
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC020015 sequence for NM_013912
 GCCTGGACCAACGGGTAGTTGAGAGTCGCGGGCAGAGCAGCGTCAGCCACTTAGAGAGTTTTTGCCGCCG
 ACCCGAAGCCACCAAGGCCAGCTTCGCGGGCGCTGCCCCGCGGGCAGAGAAGGCTGCACCAGAGCAGAG
 GCAGCGAGCAGGAGTGGGGCAGGCAGCCAGCGGTGCGGCTGGGGCGCTCACCCCTCCCGGGTCCGGGAGC
 CACGCGAGCTCCGTGCCCGCACGCGCCAGCCCCGGCTCGCGCTTTCTTTGCGTCCGGGTGCCCTGCCTC
 TCCGCCACTCGCCGGCTCCTCTGGGCTGCCCGGACCGAGTTGCAGCATGAATCTGAGGCTCTCGGTGC
 AGGCGTGTCTGCTCTGGCTCTCCTTGACTGCAGTTTGTGGAGTGCCACTGATGTTGCCCTCCAGATGG
 AACAGGACTAGAAGAAGGAAGCATGCGCTACCTGGTGAAGCCAGAACTTCGAGGACTGGACCAGGAGCC
 TGGCAGGGAGGCAGGAGGAAATTCGCAGACAGCGCCCCGGCTCTCCATAAGGGCCCCATGCCTTTCT
 AAAGCAGGATTGAAGGGCTCGCCAAGTGCCCTCCCGGTGCCGGTCTCTACTCCACAGATGAATTCTCT
 TCTCTGGAACCCTCACATCTATTTGGCTTTCATCTTGACCTGTTCTAGCTGCTGATGGTCCCGGCTCTT
 CTCACCCACCAAGTTCCTAATGGCGTGGTCTCGCCCCACTTGATGATTTTCATCTCTACAAGG
 ATCCCTTTGGCCATCCTCCTGGCCACTCTTTGGACTGCCCTGGAGACCCAGCTTCTCCTTGACCTGTT
 CCATGCGGTAGTCCCTATCTTTAGCCGTAGCCTTCTCTGGCTCTTCCCTCTTTTCATTTGCCTGGGC
 ACTGGACAAGAACAACCTCCCTTCCAGTGGATTCCAGCACATCCATGCTTTCTTATCAATTGGACCTCTT
 GCCTGGAAGGGAGCGCCGAGATGTGAATGAGACTTCGGTTGAGAGGGGTGGGTGTTGGGTCCAGATA
 AGGTGCACTGGGAAACTGAATGGTGGCGTGAGGAAGGGGTGTGGCGAAATAGCTGCCACAGCCTCTTC
 CTTAGCTCTCTGGCCCTGTTAAAGGAAGACGCAAAGGAAAGGAGCCCATGAAGTCTATGTCACCGTG
 CCTTCTAATGTCTTCGCTCTCTGTTCTATTGCAGCTTGTTCAGTCCCCAGGTGAGAAGGGGAGAGTGT
 GGATCCTGACATGGTCTATACTCTTGGGGTAATTTTGCACAAAAATAATCCCAACCAATCAACCA
 ACCAACCAATAACCCACAGAAAGTCAAGGCCAAAGGACCCTTGAAGATCACTTAGCTCCCTTATGCAA
 AAGCTTGCACAAATAGGCCCTGGAGAGGGAAGTAACTGCTTAGAGCCACTGCAGAGCCCCACAGGGCAC
 CAGGGCCCTCAACTCCCCTTATGATGCCCTTTTCTCTTGTATGATGCTCTTCAAGCAAATGAAGT
 GCCTTTTGTGGTGTAGTGAAGCGGGTGGCTAGGAAGGAAGAGCAGGGAGAGACAAGCCAGCTGTGAAC
 TGCTTTGTGTGAGAATGGAGCATCTCCCTCCCAACGTGGCCCGGAATAGTCCCTAAGTGGTGAATGTAC
 CCCACACAGGCCTATTCCAGGCTCATGCCATTTAATTGGGGTCTCAGGCACTGAAACTACCATTAG
 CCCCTGACACTGGTTGTCATGAACCCCTGTGTTGACTGCGCCCTTGATCTTGGGGCTTTTGGGGATGGA
 GAAAGGCAAGAAAGGAAGGAGAGGTGGAAGAAGGAAGGAGAGATGGGAGGATGTGTAGGTGGGATCTAT
 CACTCCACCAAGGGGTCTCATCTCACCAGGAGCCTTTTGTAGCCCTTCCCTGAAGGGAGACCCTCAT
 CTTCTCTGCTGAGCACATGTTCTTCTCAGAGGCCTCTCAGGAGGAGAAAAGAGAAGACAGAAGCTCGA
 TATTCACTTATATATGTGTAGGGTAGGGGAGTCAAGACCCCAAGCCCCATAATAACCTGATTGCCTAT
 TCATCCTTTCCCAAGCCTTCTATCTGCTGCTGCTAATGCTGCTGCTGCTGCCTCTGCTGCCGTTTCAA
 GGCCACCTGGGGAGCAGGGCCAGGCATAGCGTCTCACCTCTTGGGCTAGAAGTGGGAGCTGGCTGGC
 GCCTCTTCTACTGCTGGTACCCCTACCAGGGACCGGGCCTTCTCCGTCTTTGTCGTTTCTGCACCTCCTG
 CCTTATCAGCCTGCCATGGCCAGCCCCACAGGAAAGGGAGGGGGGAATATTGGCTGAGAAAGAGGAGAG
 ATAGAAGCACAAGAGGGGAGTAAACGGGCCAGTGGGCTGTCTTATTTAAAGTGGTTATGTGATTTCTT
 ATACTAATTTATATAGAGATATTAAGGCCCTTTGAGTTAGAGAACTGTCCCCTTCCCATAAAGTGTGTC
 GCTATGTTTGTAAAAATGTTCCATGTAATATGTCTTTATAATAAAGAGTTAAAAGTTGACAGTTTGC
 CTTACTCTTTGAGTTCATATTCAGGAGGGCATTCTTTTCTCCTAGGGCCAATCTTGCCTGTGCCAC
 AGATTGCACGTGTAGGGAGGTGAGTGTGATCCCAAATGGTTCTAGGTCAACTGGCCTCAAACCTGAT
 TTGCCACAAGCTCACAAAAGACTCGCTATGCTTAAGGGCCAGTTCACATAAATTTGAGCCCTTTTAAAG
 TCCTTTGGCATCTGTTGCAATGCTCATTCTTTCTGGCAGTGTCACTTAAAGGATTTTTTTCCAGAAGC
 AATTCATTTAAGGACACGCTGATCAAAGGTGGGATTTGTACTAAACGCTGTTTTGTAGCCCTGGTGGGTG
 CCTTCTGTTTTATCTGCTTTTGAATACTTTGGGACTTTTTAGCCAGTTTGCCTTTCTTGACAAATGTTG
 TCCTCAGCCATAAATACATTTGGTAATGACTTTGTATGTATCGTTTTATTGTTTCACAAAGTGGAGTTGC
 TTGATGAATGAGATAACCTGGAAAATAAATTCGAGGAGTTCGATAGGAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_013912
Insert Size: 234 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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:	BC020015 , AAH20015
RefSeq Size:	3143 bp
RefSeq ORF:	234 bp
Locus ID:	30878
UniProt ID:	Q9R0R4
Cytogenetics:	X A5
Gene Summary:	This gene encodes the neuropeptide Apelin, an endogenous ligand of the G protein-coupled receptor APJ. This gene is highly expressed in the central nervous system and peripheral tissues and the encoded preproprotein undergoes proteolytic processing to generate mature peptides of different sizes that are secreted into the plasma. These peptides play important roles in a broad range of physiological processes such as cardiac contractility, blood pressure, blood vessel growth, appetite and drink behavior, and pituitary hormone secretion. Mice lacking the encoded protein develop progressive heart failure and exhibit a shorter bleeding time, prothrombotic profile and increased bone mass. [provided by RefSeq, Jul 2016]