

Product datasheet for **MR200116**

Apln (NM_013912) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Apln (NM_013912) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Apln
Synonyms: 6030430G11Rik; Apel
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR200116 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGAATCTGAGGCTCTGCGTGCAGGCGCTGCTGCTGCTCTGGCTCTCCTTGACTGCAGTTTGTGGAGTGC
 CACTGATGTTGCCTCCAGATGGAACAGGACTAGAAGAAGGAAGCATGCGCTACCTGGTGAAGCCCAGAAC
 TTCGAGGACTGGACCAGGAGCCTGGCAGGAGGCAGGAGGAAATTCGCAGACAGCGCCCCGGCTCTCC
 CATAAGGGCCCCATGCCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200116 protein sequence
 Red=Cloning site Green=Tags(s)
 MNLRLCVQALLLLWLSLTAVCGVPLMLPPDGTGLEEGSMRYLVKPRTSRTGPGAWQGRRKFRRQRPRLS
 HKGPMPF

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI


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Cloning Scheme:



ACCN: NM_013912

ORF Size: 231 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.

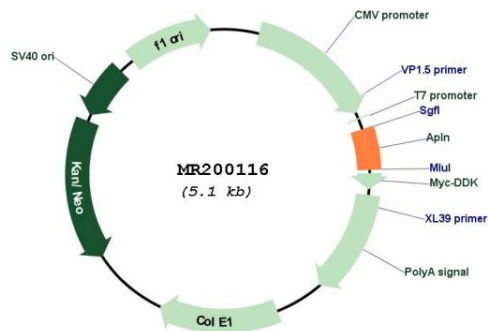
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_013912.4](#)

RefSeq Size: 3148 bp
 RefSeq ORF: 234 bp
 Locus ID: 30878
 UniProt ID: [Q9R0R4](#)
 Cytogenetics: X A5
 MW: 8.7 kDa

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]

Product images:



Circular map for MR200116