

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 Neomycin

Selection:

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide >MR200116 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

CATAAGGGCCCCATGCCTTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200116 protein sequence

Red=Cloning site Green=Tags(s)

MNLRLCVQALLLLWLSLTAVCGVPLMLPPDGTGLEEGSMRYLVKPRTSRTGPGAWQGGRRKFRRQRPRLS

HKGPMPF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

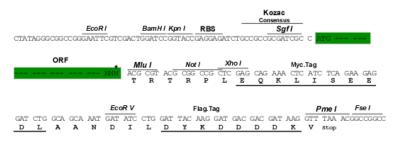
CN: techsupport@origene.cn

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Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_013912

ORF Size: 234 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: <u>NM 013912.4</u>

RefSeq Size: 3148 bp RefSeq ORF: 234 bp
 Locus ID:
 30878

 UniProt ID:
 Q9R0R4

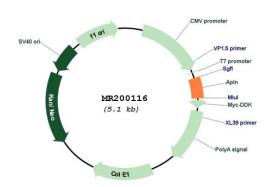
Cytogenetics: X A5

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