

## Product datasheet for **MG200116**

### Apln (NM\_013912) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Apln (NM\_013912) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Apln  
**Synonyms:** 6030430G11Rik; Apel  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG200116 representing NM\_013912  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGAATCTGAGGCTCTGCGTGCAGGCGCTGCTGCTGCTGGCTCTCCTTGACTGCAGTTTGTGGAGTGC  
 CACTGATGTTGCCTCCAGATGGAACAGGACTAGAAGAAGGAAGCATGCGCTACCTGGTGAAGCCCAGAAC  
 TTCGAGGACTGGACCAGGAGCCTGGCAGGGAGGCAGGAGAAATTCGCAGACAGCGCCCCGGCTCTCC  
 CATAAGGGCCCCATGCCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG200116 representing NM\_013912  
 Red=Cloning site Green=Tags(s)  
 MNLRLCVQALLLWLSLTAVCGVPLMLPPDGTGLEEGSMRYLVKPRTSRTGPGAWQGRRKFRQRPRLS  
 HKGPMPF

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI



[View online »](#)

**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.

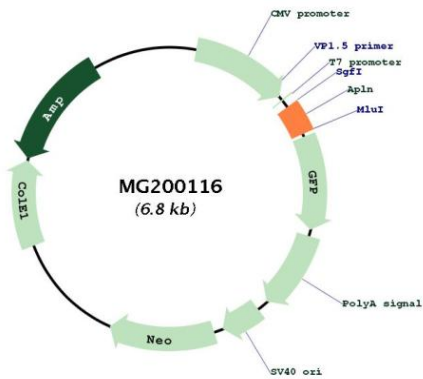
**RefSeq:** [NM\\_013912.4](#)

**RefSeq Size:** 3148 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]

### Product images:



Circular map for MG200116