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Product datasheet for MR205867

Aplnr (NM_011784) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aplnr (NM_011784) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aplnr
Synonyms:	Agtrl1; APJ; msr/apj
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR205867 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAGATGATGGTTACAACTACTATGGGGCTGACAACCAGTCTGAATGCGACTACGCAGACTGGAAGC
CCTCTGGAGCGCTCATTCCTGCCATCTACATGTTGGTTTTTCTTCTAGGCACCACAGGCAATGGCCTGGT
GCTCTGGACCGTGTTTCGAACCAGCCGCGAAAAGAGACGCTCAGCTGACATCTTCATTGCCAGCCTGGCA
GTGGCTGACTTGACCTTTGTGGTGACTTTGCCACTGTGGGCCACTTATACCTACCGGGAGTTTGACTGGC
CTTTTGGAACCTTCTCTTGCAAGCTCAGCAGCTACCTCATCTTTGTCAACATGTACGCCAGTGTCTTTTG
CCTCACCGGCCTCAGCTTTGACCGATACCTGGCCATTGTCAGGCCGGTGGCCAATGCTCGGCTAAGGCTG
CGAGTCAGCGGGGCCGTGGCCACAGCAGTCTTATGGGTGCTGGCTGCCCTTCTAGCTGTGCCTGTCATGG
TGTTCCGTTCCACAGACGCCTCGGAAAATGGCACCAAGATCCAGTGCTACATGGACTACTCTATGGTGGC
CACTTCAAACTCAGAGTGGGCCTGGGAGGTGGGCCTTGGGGTGTCCTCCACTGCCGTGGGCTTTGTGGTG
CCCTTCACCATCATGCTGACATGTTACTTCTTCATTGCCCAAACCATCGCTGGCCATTTCCGAAAGGAGC
GCATTGAGGGCCTGCGGAAGAGGCGCCGGCTGCTCAGCATTATCGTGGTGCTTGTAGTGACCTTTGCCCT
GTGCTGGATGCCTTACCACCTGGTGAAGACTCTCTACATGCTGGGCAGTTTGCTGCACTGGCCCTGTGAC
TTTGACATCTTCCTCATGAATGTCTTTCCGTACTGCACCTGCATCAGTTATGTCAACAGCTGCCTCAACC
CCTTTCTCTATGCCTTCTTTGACCCCCGATTTCGCCAAGCCTGCACCTCCATGCTCTGCTGTGATCAGAG
CGGGTGCAAAGGCACCCCTCACAGCAGTAGTGCCGAGAAGTCAGCCAGTTATTCTTCCGGGCACAGCCAG
GGCCCTGGCCCCAACATGGGAAAGGGAGGAGAGCAGATGCATGAGAAATCGATTCCCTATAGTCAAGAAA
CCCTTGTGGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

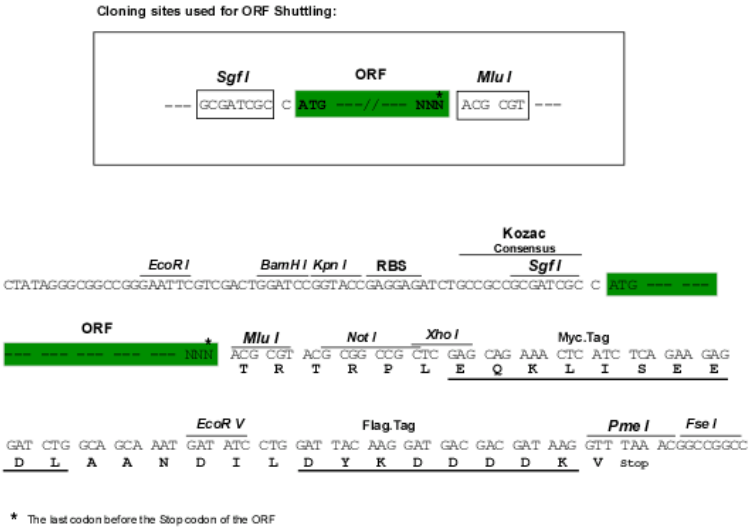
>MR205867 protein sequence
Red=Cloning site Green=Tags(s)

MEDDGYNYYGADNQSECDYADWKPSGALIPAIYMLVFLLGTTGNGLVLWTVFRTSREKRRSADIFIASLA
VADLTFVVTLPLWATYTYREFDWPFGTFSCKLSSYLIFVNMYASVFCLTGLSFDRYLAIVRPVANARLRL
RVSGAVATAVLWVLAALLAVPVMVFRSTDASENGTKIQCYMDYSMVATSNSEWAWEVGLGVSSTAVGFVV
PFTIMLTCYFFIAQTIAGHFRKERIEGLRKRRRLLSIIVVLVVTFALCWMPYHLVKTLYMLGSLLHWPCD
FDIFLMNVFPYCTCISYVNSCLNPFLYAFFDPRFRQACTSMLCCDQSGCKGTPHSSSAEKSASYSSGHSQ
GPGPNMGKGGEQMHEKSIPYSQETLVD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011784

ORF Size: 1134 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_011784.2, NP_035914.1

RefSeq Size: 3573 bp

RefSeq ORF: 1134 bp

Locus ID: 23796

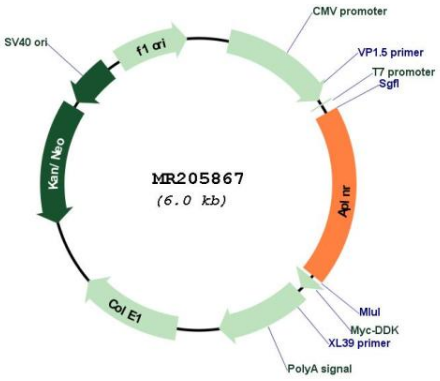
UniProt ID: Q9WV08

Cytogenetics: 2 D

MW: 42.3 kDa

Gene Summary: Receptor for apelin receptor early endogenous ligand (APELA) and apelin (APLN) hormones coupled to G proteins that inhibit adenylate cyclase activity. Plays a key role in early development such as gastrulation, blood vessels formation and heart morphogenesis by acting as a receptor for APELA hormone (PubMed:28854362, PubMed:28890073, PubMed:28663440). May promote angioblast migration toward the embryonic midline, i.e. the position of the future vessel formation, during vasculogenesis (By similarity). Promotes sinus venosus (SV)-derived endothelial cells migration into the developing heart to promote coronary blood vessel development (PubMed:28890073). Plays also a role in various processes in adults such as regulation of blood vessel formation, blood pressure, heart contractility and heart failure (PubMed:28371822).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205867