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Product datasheet for RC207576

APJ Receptor (APLNR) (NM_005161) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	APJ Receptor (APLNR) (NM_005161) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	APJ Receptor
Synonyms:	AGTRL1; APJ; APJR; HG11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC207576 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGAAGGTGGTGATTTTGACAACTACTATGGGGCAGACAACCAGTCTGAGTGTGAGTACACAGACT
GGAAATCCTCGGGGGCCCTCATCCCTGCCATCTACATGTTGGTCTTCCTCCTGGGCACCACGGGCAACGG
TCTGGTGCTCTGGACCGTGTTTCGGAGCAGCCGGGAGAAGAGGCGCTCAGCTGATATCTTCATTGCTAGC
CTGGCGGTGGCTGACCTGACCTTCGTGGTGACGCTGCCCCTGTGGGCTACCTACACGTACCGGGACTATG
ACTGGCCCTTTGGGACCTTCTTCTGCAAGCTCAGCAGCTACCTCATCTTCGTCAACATGTACGCCAGCGT
CTTCTGCCTCACCGGCCTCAGCTTCGACCGCTACCTGGCCATCGTGAGGCCAGTGGCCAATGCTCGGCTG
AGGCTGCGGGTCAGCGGGGCCGTGGCCACGGCAGTTCTTTGGGTGCTGGCCGCCCTCCTGGCCATGCCTG
TCATGGTGTTACGCACCACCGGGGACTTGGAGAACACCACTAAGGTGCAGTGCTACATGGACTACTCCAT
GGTGGCCACTGTGAGCTCAGAGTGGGCCTGGGAGGTGGGCCTTGGGGTCTCGTCCACCACCGTGGGCTTT
GTGGTGCCCTTCACCATCATGCTGACCTGTTACTTCTTCATCGCCCAAACCATCGCTGGCCACTTCCGCA
AGGAACGCATCGAGGGCCTGCGGAAGCGGCGCCGGCTGCTCAGCATCATCGTGGTGCTGGTGGTGACCTT
TGCCCTGTGCTGGATGCCCTACCACCTGGTGAAGACGCTGTACATGCTGGGCAGCCTGCTGCACTGGCCC
TGTGACTTTGACCTCTTCCTCATGAACATCTTCCCCTACTGCACCTGCATCAGCTACGTCAACAGCTGCC
TCAACCCCTTCCTCTATGCCTTTTTCGACCCCCGCTTCCGCCAGGCCTGCACCTCCATGCTCTGCTGTGG
CCAGAGCAGGTGCGCAGGCACCTCCCACAGCAGCAGTGGGGAGAAGTCAGCCAGCTACTCTTCGGGGCAC
AGCCAGGGGCCCGGCCCCAACATGGGCAAGGGTGGAGAACAGATGCACGAGAAATCCATCCCCTACAGCC
AGGAGACCCTTGTGGTTGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC207576 protein sequence
Red=Cloning site Green=Tags(s)

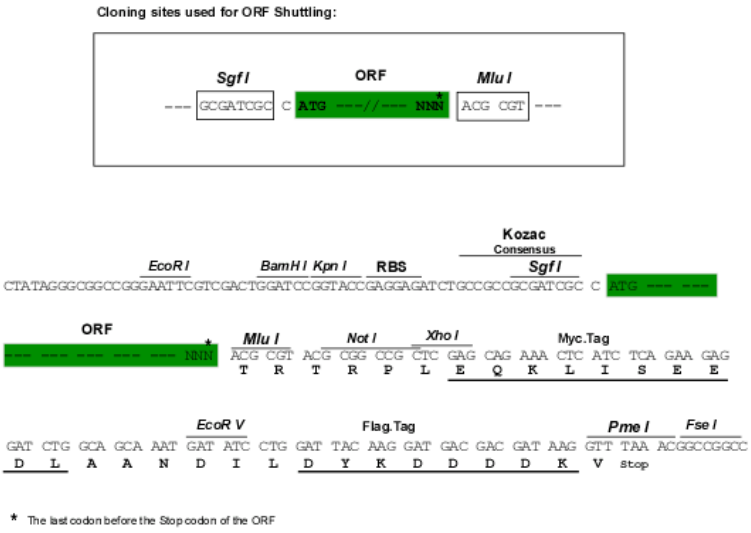
MEEGGDFDNYYGADNQSECEYTDWKSSGALIPAIYMLVFLLGTTGNGLVLWTVFRSSREKRRSADIFIAS
LAVADLTFVVTLPLWATYTYRDYDWPFGTFFCKLSSYLIFVNMYASVFCLTGLSFDRYLAIVRPVANARL
RLRVSGAVATAVLWVLAALLAMPVMVLRTTGDLENTTKVQCYMDYSMVATVSSEWAWEVGLGVSSTTVGF
VVPFTIMLTCYFFIAQTIAGHFRKERIEGLRKRRRLLSIIVVLVVTFALCWMPYHLVKTLYMLGSLLHWP
CDFDLFLMNIFPYCTCISYVNSCLNPFLYAFFDPRFRQACTSMLCCGQSRCAGTSHSSSGEKSASYSSGH
SQGPGPNMGKGGEQMHEKSIPYSQETLVVD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6033_d04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005161

ORF Size: 1140 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).

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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_005161.4

RefSeq Size: 3905 bp

RefSeq ORF: 1143 bp

Locus ID: 187

UniProt ID: P35414

Cytogenetics: 11q12.1

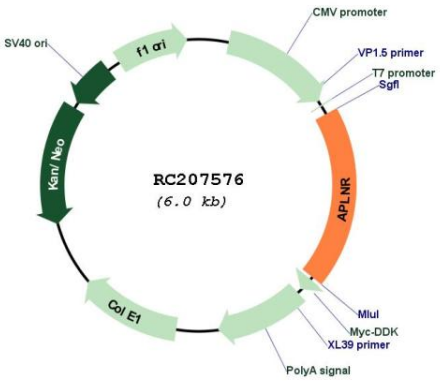
Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

MW: 42.7 kDa

Gene Summary: This gene encodes a member of the G protein-coupled receptor gene family. The encoded protein is related to the angiotensin receptor, but is actually an apelin receptor that inhibits adenylate cyclase activity and plays a counter-regulatory role against the pressure action of angiotensin II by exerting hypertensive effect. It functions in the cardiovascular and central nervous systems, in glucose metabolism, in embryonic and tumor angiogenesis and as a human immunodeficiency virus (HIV-1) coreceptor. Two transcript variants resulting from alternative splicing have been identified. [provided by RefSeq, Jul 2009]

Product images:



Circular map for RC207576

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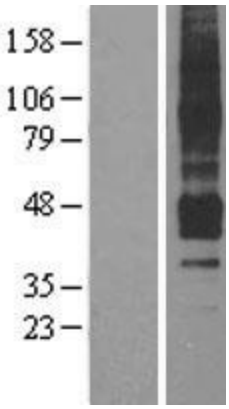
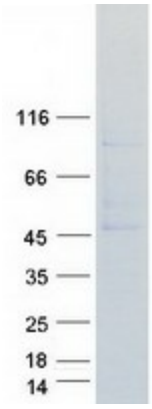


Western blot validation of overexpression lysate (Cat# [LY401579]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207576 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified APLNR protein (Cat# [TP307576]). The protein was produced from HEK293T cells transfected with APLNR cDNA clone (Cat# RC207576) using MegaTran 2.0 (Cat# [TT210002]).

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