

Product datasheet for **RG207576**

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:	TurboGFP
Symbol:	APJ Receptor
Synonyms:	AGTRL1; APJ; APJR; HG11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207576 representing NM_005161 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGAGGAAGGTGGTGATTTTGACAACACTATGGGGCAGACAACCAGTCTGAGTGTGAGTACACAGACT
 GGAAATCTCGGGGGCCCTCATCCCTGCCATCTACATGTTGGTCTTCTCCTGGGCACCACGGGCAACGG
 TCTGGTCTCTGGACCGTGTTCGGAGCAGCCGGGAGAAGAGGCGCTCAGCTGATATCTTCATTGCTAGC
 CTGGCGGTGGCTGACCTGACCTTCGTGGTGACGCTGCCCTGTGGGTACCTACACGTACCGGGACTATG
 ACTGGCCCTTTGGGACCTTCTTCTGCAAGCTCAGCAGCTACCTCATCTTCGTCAACATGTACGCCAGCGT
 CTTCTGCCTCACCAGCCTCAGCTTCGACCGCTACCTGGCCATCGTGAGGCCAGTGCCCAATGCTCGGCTG
 AGGCTGCGGGTCAGCGGGGCCGTGGCCACGGCAGTTCTTTGGGTGCTGGCCGCCCTCCTGGCCATGCCTG
 TCATGGTGTTACGCACCACCGGGGACTTGGAGAACACCACTAAGGTGCAGTGCTACATGGACTACTCCAT
 GGTGGCCACTGTGAGCTCAGAGTGGGCCTGGGAGGTGGGCCTTGGGGTCTCGTCCACCACCGTGGGCTTT
 GTGGTGCCTTCACCATCATGCTGACCTGTTACTTCTTCATCGCCCAACCATCGCTGGCCACTTCCGCA
 AGGAACGCATCGAGGGCCTGCGGAAGCGCGCCGGCTGCTCAGCATCATCGTGGTGTGTTGGTGACCTT
 TGCCCTGTGCTGGATGCCCTACCACCTGGTGAAGACGCTGTACATGCTGGGCAGCCTGCTGCACTGGCCC
 TGTGACTTTGACCTCTTCTCATGAACATCTTCCCTACTGCACCTGCATCAGTACGTCAACAGCTGCC
 TCAACCCCTTCTCTATGCCTTTTCGACCCCGCTTCCGCCAGGCTGCACCTCCATGCTCTGCTGTGG
 CCAGAGCAGGTGCGCAGGCACCTCCACAGCAGCAGTGGGAGAAGTCAAGCCAGTACTCTTCGGGGCAC
 AGCCAGGGGCCCGGCCCAACATGGGCAAGGTGGAGAACAGATGCACGAGAAATCCATCCCCTACAGCC
 AGGAGACCCTTGTGTTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207576 representing NM_005161
 Red=Cloning site Green=Tags(s)

MEEGGDFDNYGADNQSECEYTDWKSSGALIPAIYMLVFLLGTTGNGLVLTWVFRSSREKRRSADIFIAS
 LAVADLTFVVTLPWATYTYRDYDWPFGTFCKLSSYLIFVNMYSVFCLTGLSFDRLAIVRPVANARL
 RLRVSGAVATAVLWVLAALLAMPVMLRTTGDLENTTKVQCYPDYSMVATVSSEWAVEVGLGVSSTTVGF
 VVPFTIMLTCTYFFIAQTIAGHFRKERIEGLRKRRLLSIIIVLVVTFALCWMPYHLVKTLYMLGSLHWP
 CDFDLFLMNIFFPYCTCISYVNSCLNPFLYAFFDPRFRQACTSMLCCGQSRCAGTSHSSSGEKSASYSSGH
 SQGPGPNMGKGGEQMHEKSIPYSQETLVVD

TRTRPLE - GFP Tag - V

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).

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_005161.4](#)

RefSeq Size: 3847 bp

RefSeq ORF: 1143 bp

Locus ID: 187

UniProt ID: [P35414](#)

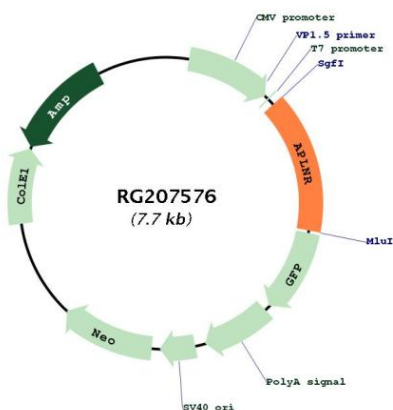
Cytogenetics: 11q12.1

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

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 RG207576