

Specifications:

Gene:	rAgtr2
Accession:	NP_036626.1
Insert size:	1105bp
Concentration:	10µg at 0.2µg/µL

rAGTR-2 cDNA Plasmid

Agtr2 angiotensin II receptor,
type 2 [*Rattus
norvegicus* (Norway rat)]

Also known as: AT2R; AT2-R

Summary:

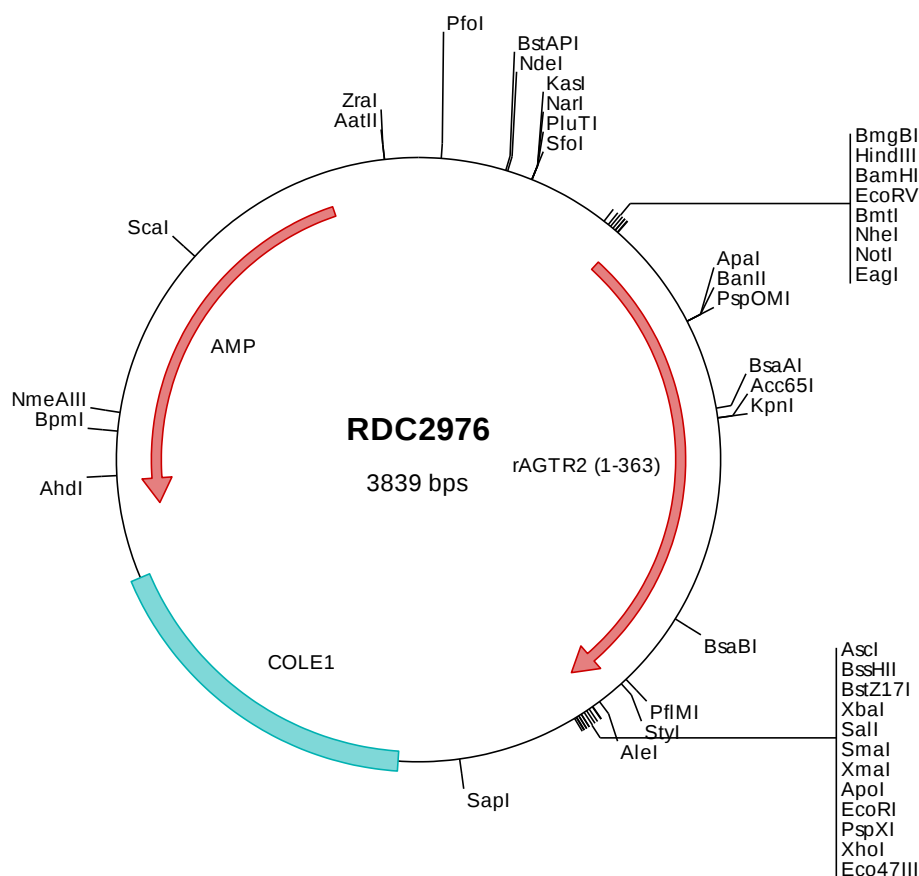
AGTR2 belongs to the G protein-coupled receptor 1 family, and functions as a receptor for angiotensin II. It is a membrane protein that is highly expressed in fetus, but not in adult tissues, except brain, adrenal medulla, and atretic ovary. AGTR2 stimulation may cause vasodilation. AGTR2 induces production of nitric oxide (NO), which may interact with ROS and modulate AGTR1 signaling.

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.



> RDC2976 Plasmid DNA Sequence

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1   tcgcgcgctt cggatgatgac ggtgaaaacc tctgacacat gcagctcccc gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
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201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
301  tacgccagct ggcgaaaggg ggaatgtctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgatatt
401  ggagacgtgt taacaagctt ggaaccgata tcgctagcgc ggccgcacc atgaaggaca acttcagttt tgctgccacc agcagaaaca tcaccagcag
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> RDC2976 Translated Insert Sequence

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201  pekyaqwsag ialmknilgf iiplifiatc yfgirkhlhk tnsygnkrrit rdqvlkmaaa vvlafiiicwl pfhvlftflda ltwmgiinsc eviavidlal
301  pfaillgftn scvnpflycf vgnrfqgqlr svfrvpitwl qgkretmscr kssslremdt fvs

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