

Specifications:

Gene:	<i>mNpr1</i>
Accession:	NP_032753
Insert size:	3187bp
Concentration:	10µg at 0.2µg/µL

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.

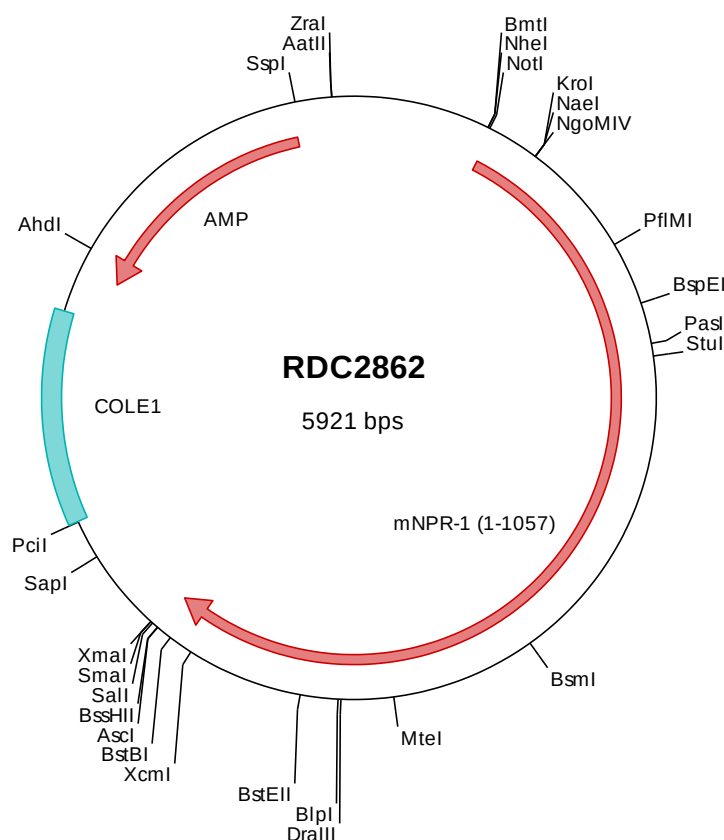
mNPRA/NPR1 cDNA Plasmid

Npr1 natriuretic peptide receptor 1 [*Mus musculus* (house mouse)]

Also known as: GC-A; NPRA; Pndr; NPR-A; AI893888

Summary:

NPR1 is a member of the guanylyl cyclase family of proteins. NPR1 is expressed most highly in kidney, adrenal and adipose tissue. NPR1 operates as an oligomer and binds both ANP (atrial natriuretic peptide) and BNP (B-type natriuretic peptide). Binding of ANP to the extracellular ligand binding domain, plus ATP to the intracellular kinase domain activates a cytoplasmic guanylate cyclase. This process induces bronchodilation and a reduction in blood pressure.



> RDC2862 Plasmid DNA Sequence

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> RDC2862 Translated Insert Sequence

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