

Specifications:

Gene:	rNphs2
Accession:	AAH98649.1
Insert size:	1165bp
Concentration:	10µg at 0.2µg/µL

rPodocin/NPHS2 cDNA Plasmid

Nphs2 NPHS2 stomatin family member, podocin [*Rattus norvegicus* (Norway rat)]

Also known as: podocin

Summary:

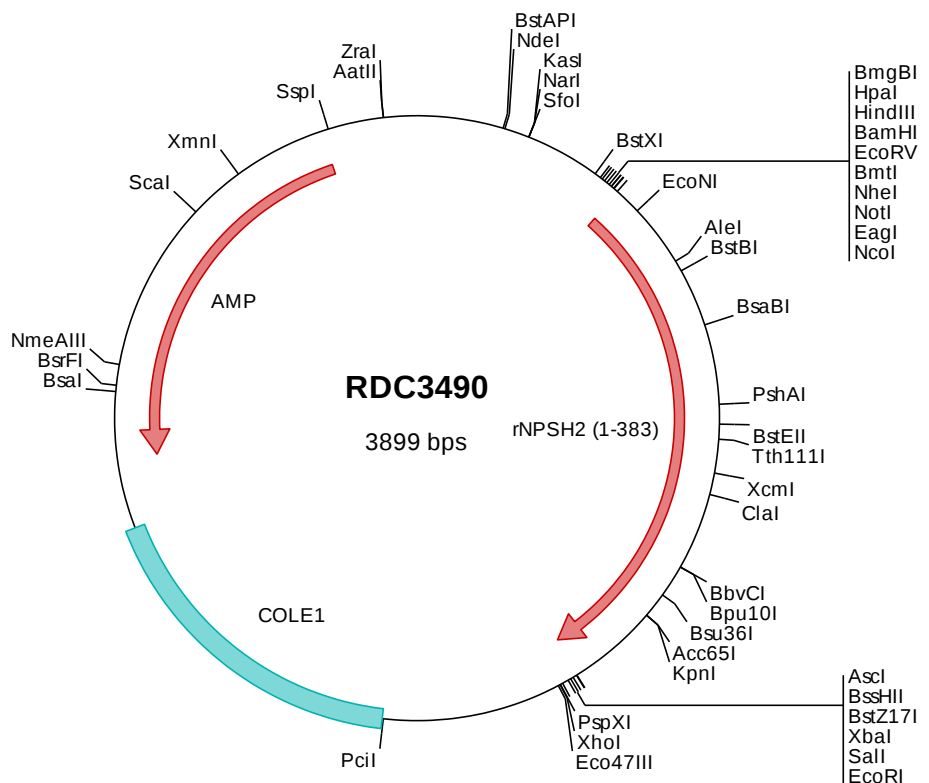
Podocin plays an important role in podocyte function in the kidney. Loss of Podocin function results in albuminuria, hypercholesterolemia, hypertension, and renal failure. Podocin localizes to areas of cell-cell contact between podocytes in the renal glomerulus. It associates into oligomers and forms complexes with Nephrin, CAR, ZO-1, and the cation ion channel TRPC6. It contributes to podocyte function by regulating the activation of TRPC6 and Nephrin mediated 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.



> RDC3490 Plasmid DNA Sequence

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> RDC3490 Translated Insert Sequence

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201  slllslslahv skaiqlflvt tmkrllahrs lteillerks iaqdvkvald svtcvwgikv erteikdvrl paglqhslav eaeaqrakav rviaaegeka
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