

Specifications:

Gene:	hPRPS1
Accession:	NP_002755.1
Insert size:	970bp
Concentration:	10µg at 0.2µg/µL

hPRPS1 cDNA Plasmid

**PRPS1 phosphoribosyl
pyrophosphate synthetase 1**
[*Homo sapiens* (human)]

Also known as: ARTS; DFN2; PRSI;
CMTX5; DFNX1; PRS-I; PPRibP

Summary:

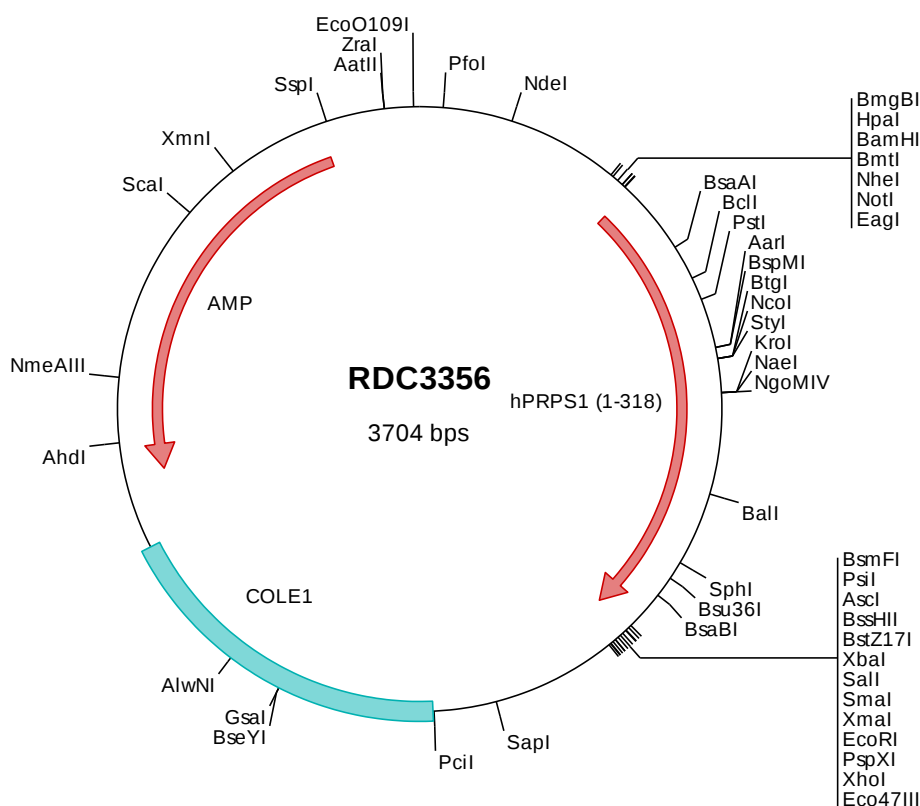
PRPS1 is an enzyme that catalyzes the phosphoribosylation of ribose 5-phosphate to 5-phosphoribosyl-1-pyrophosphate, which is necessary for purine metabolism and nucleotide biosynthesis. Defects in PRPS1 are a cause of phosphoribosylpyrophosphate synthetase superactivity, Charcot-Marie-Tooth disease X-linked recessive type 5 and Arts Syndrome. Alternatively spliced transcripts encoding different proteins have been described.

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.



> RDC3356 Plasmid DNA Sequence

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> RDC3356 Translated Insert Sequence

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