

Specifications:

Gene:	hPOU5F1
Accession:	NP_001272916
Insert size:	811bp
Concentration:	10µg at 0.2µg/µL

hOct-4B cDNA Plasmid

**POU5F1 POU class 5 homeobox
1 [*Homo sapiens* (human)]**

Also known as: OCT3; OCT4; OTF3;
OTF4; OTF-3; Oct-3; Oct-4

Summary:

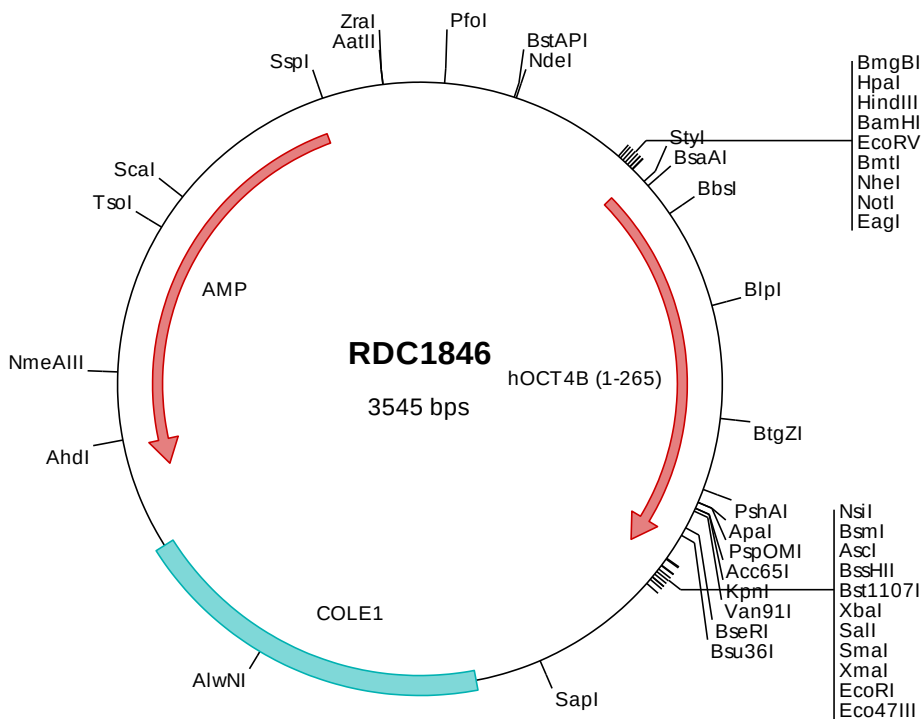
POU5F1/Oct-4 is a transcription factor containing a POU homeodomain that plays a key role in embryonic development and stem cell pluripotency. Aberrant expression of POU5F1 in adult tissues is associated with tumorigenesis. It can participate in a translocation with the Ewing's sarcoma gene on chromosome 21, which also leads to tumor formation. Alternatively spliced transcripts encoding different proteins have been described. This isoform is known as OCT-4B.

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.



> RDC1846 Plasmid DNA Sequence

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> RDC1846 Translated Insert Sequence

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