

Specifications:

Gene:	mPou5f1
Accession:	NP_038661.2
Insert size:	1072bp
Concentration:	10µg at 0.2µg/µL

mOCT3/4 cDNA Plasmid

**Pou5f1 POU domain, class 5,
transcription factor 1 [*Mus musculus* (house mouse)]**

Also known as: Oct3; Oct4; Otf3;
Otf4; NF-A3; Oct-3; Oct-4; Otf-3;
Otf-4; Otf3g; Oct3/4; Oct-3/4; Otf3-
rs7

Summary:

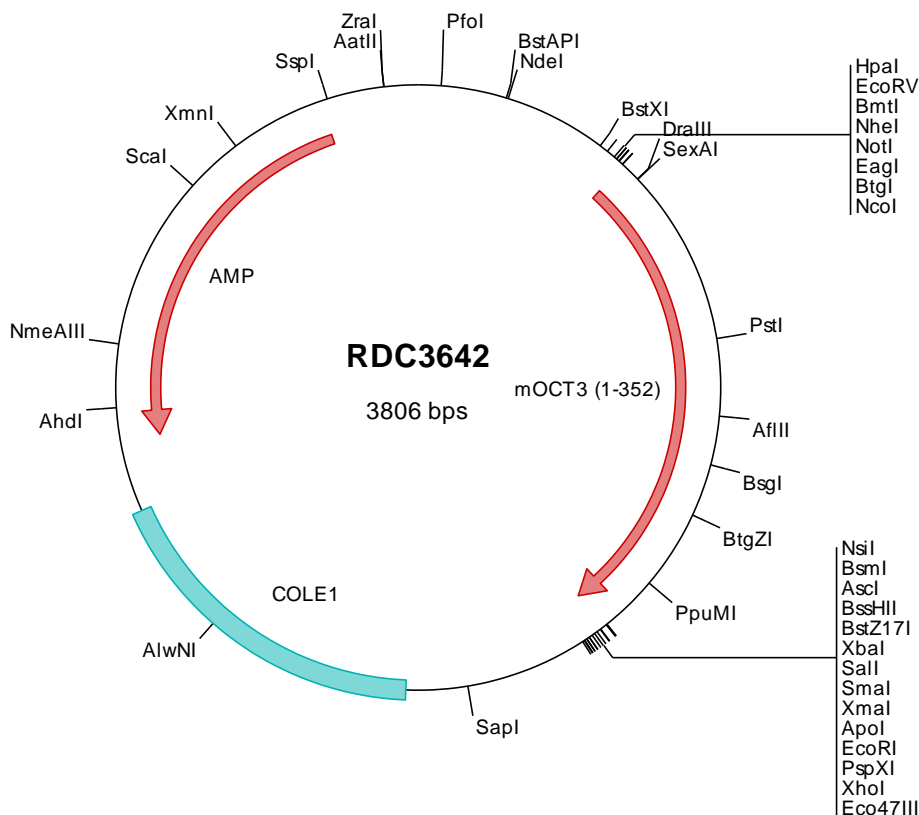
Pou5f1 belongs to the POU domain family of transcription factors. POU domain transcription factors bind to a specific octamer DNA motif and regulate cell type-specific differentiation pathways. Pou5f1 plays a key role in embryonic development and stem cell pluripotency.

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.



> RDC3642 Plasmid DNA Sequence

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1 tcgctgcttt cggatgatgac ggtgaaaacc totgacacat gcagctcccc gagacgggtca cagcttgtct gtaagcggat gccgggagca gacaagcccc
101 tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201 ccgcacagat gcgtaaggag aaaatacccc atcaggcgcc attgccatt caggctcgcg aactgttggg aagggcgatc ggtcgggcc tcttcctat
301 tacgccagct ggcgaaaagg ggatgtgctg caagycgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
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501 gggatgatgg tcagcagggc tggagccggg ctgggtggat cctgcgaact ggctaagctt ccaagggcct ccaggtgggc ctggaatcgg accaggtca
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701 gcgtggagac ttgacagcct gagggccagg caggagcacg agtggaagc aactcagagg gaacctcttc tgagccctgt gccgaccgcc ccaatgccgt
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3701 ggggttccgc gcacatttcc ccgaaaagtg ccacctgacg tctaagaaac cattattatc atgacattaa cctataaaaa taggcgtatc acgaggccct
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> RDC3642 Translated Insert Sequence

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201 veeadnne nl qeicksetlv qarkrkrtsi enrwrwlet mflkcpkpsl qqithianql glekdvrvw fcnrrqkgrk ssiaysqree yeatgtpfpg
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