

**Specifications:**

Gene:	<i>mIfnb1</i>
Accession:	NP_034640
Insert size:	562bp
Concentration:	10µg at 0.2µg/µL

**mIFN-β1 cDNA  
Plasmid**

**Ifnb1 interferon beta 1,  
fibroblast [ *Mus musculus* (house  
mouse) ]**

**Also known as:** Ifb; IFNB; IFN-beta

**Summary:**

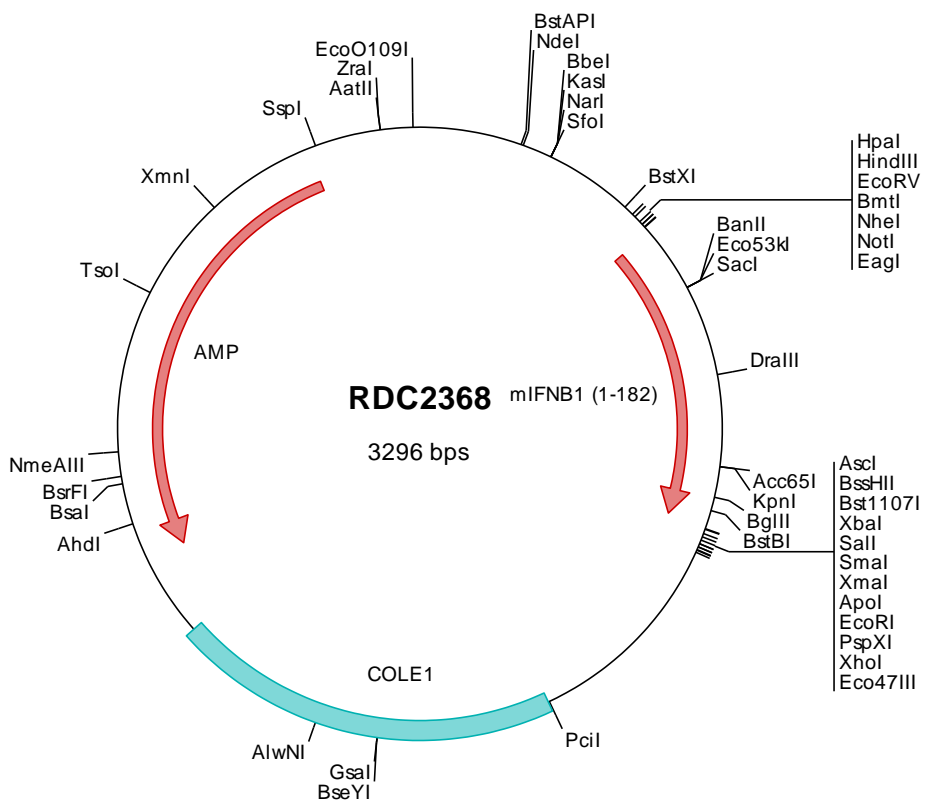
IFNB1 belongs to the interferon family of signaling proteins, which are released as part of the innate immune response to pathogens. It also belongs to the type I class of interferons, which are important for defense against viral infections. In addition, type I interferons are involved in cell differentiation and anti-tumor defenses. Following secretion in response to a pathogen, type I interferons bind a homologous receptor complex and induce transcription of genes such as those encoding inflammatory cytokines and chemokines. Overactivation of type I interferon secretion is linked to autoimmune diseases.

**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.



> RDC2368 Plasmid DNA Sequence

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1 tcgctgcttt cggatgatgac ggtgaaaaac totgacacat gcagctcccc gagacgggtca cagcttgtct gtaagcggat gccggggagca gacaagcccc
101 tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg ctttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201 ccgcacacgat gcgtaagggag aaaataccgc atcaggcgcc attcgcatt caggctcgc aactgttggg aagggcgatc ggtgccccct tcttcctat
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2101 tcagtggaac gaaaactcac gtttaaggat ttgtgctatg agattatcaa aaaggatctt cacctagatc cttttaaatt aaaaatgaag ttttaatac
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> RDC2368 Translated Insert Sequence

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1 mnrrwilhaa fllofsttal sinykqlqlq ertnirkcqe lleqlngkin ltyradfkip memtekmqks ytafaiqeml qnvflvfrnn fsstgwneti
101 vvrllldelhq qtvflktvle ekqeerltwe msstahlkls yywrvqrylk lmkynsyawm vvaeifrnf liirrltrnf qn

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