

## Specifications:

Gene:	mTgfb1
Accession:	NP_035707.1
Insert size:	1185bp
Concentration:	10µg at 0.2µg/µL

## mTGF-β1 cDNA Plasmid

**Tgfb1 transforming growth factor, beta 1 [ *Mus musculus* (house mouse) ]**

**Also known as:** Tgfb; Tgfb-1; TGFbeta1; TGF-beta1

### Summary:

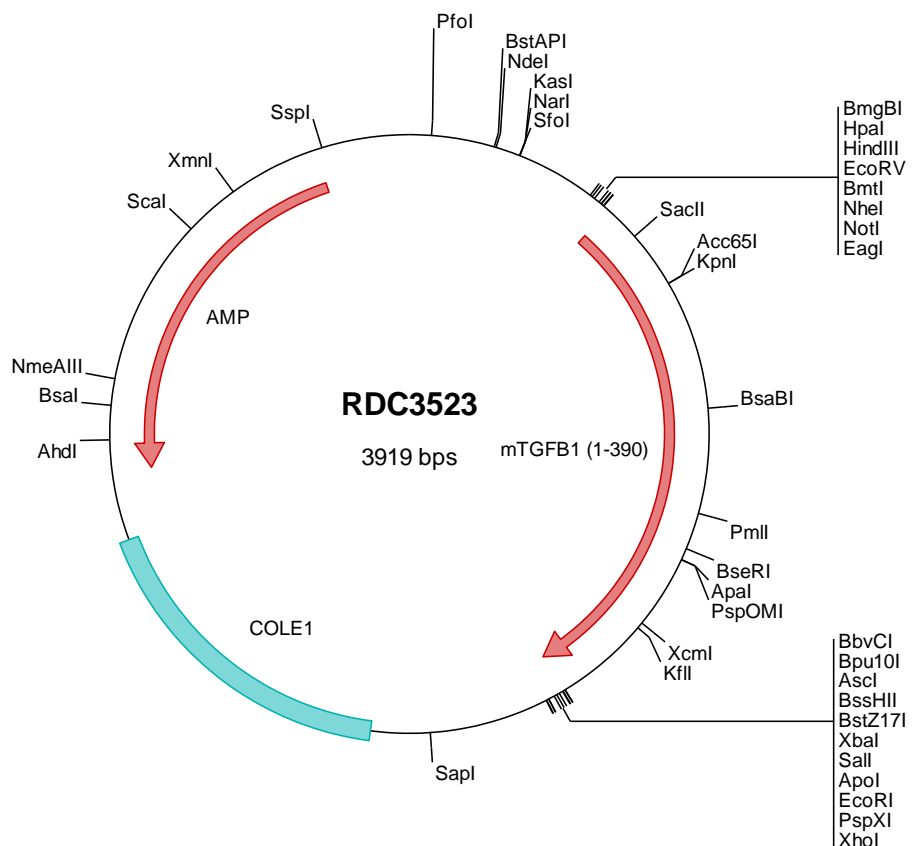
TGF-B1 is a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors. TGF-B1 regulates cell proliferation, differentiation and growth, and can modulate expression and activation of other growth factors including interferon gamma and tumor necrosis factor alpha. It is frequently upregulated in tumor cells, and mutations in TGF-B1 result in Camurati-Engelmann disease.

## 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.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC3523 Plasmid DNA Sequence

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1 tcgctgcttt cggatgatgac ggtgaaaacc totgacacat gcagctcccc gagacgggtca cagcttgtct gtaagcggat gccgggagca gacaagcccc
101 tcaggggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
201 ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attgccatt caggctcgcg aactgttggg aagggcgatc ggtcggggcc tcttcctat
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> RDC3523 Translated Insert Sequence

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1 mppsglrlip lllplwllv ltpgrpaagl stcktidmel vkrkrieair ggilsklrta sppsggevpp gplpeavlal ynstrdrvag esadpepepe
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201 tgvrqwlng gdgiqgfrfs ahscsdskdn klhveingis pkrrrdlgti hdmnrpflil matpleraqh lhssrhral dtnycfsste knccvrqlyi
301 dfrkdlgkw ihcpkyhan fclpocyiw sltdqyskvl alynhnpga saspcvppa leplpivyyv grpkpveqls nmivrsckcs

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