

Specifications:

Gene:	mSema6b
Accession:	NP_038690
Insert size:	2674bp
Concentration:	10µg at 0.2µg/µL

mSemaphorin 6B cDNA Plasmid

**Sema6b sema domain,
transmembrane domain (TM),
and cytoplasmic domain,
(semaphorin) 6B [*Mus musculus*
(house mouse)]**

Also known as: Vlb; Sema; Seman;
semaZ

Summary:

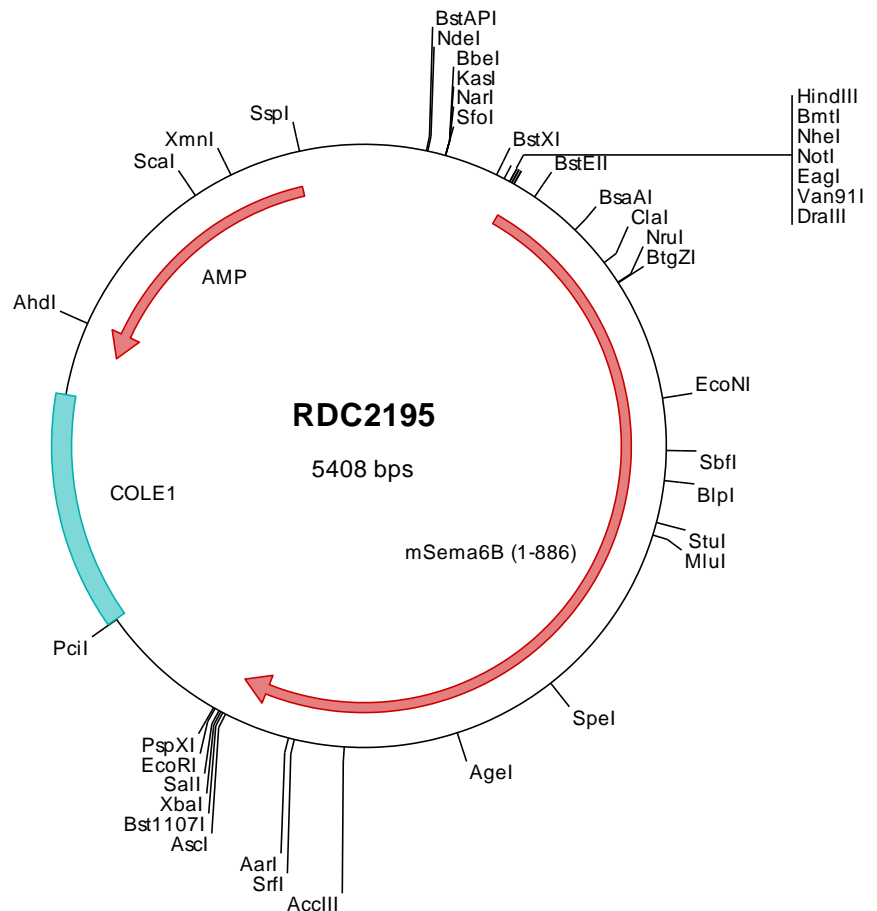
Sema6B is a member of the Semaphorin family of axon guidance molecules. Full-length Sema6B is thought to form disulfide-linked homodimers. Sema6B is expressed developmentally in subregions of the nervous system and muscle, and at low levels in most adult tissues. Semaphorins transduce signals through transmembrane plexins, either directly, or by binding associated neuropilin receptors. Plexin-A4 binds Sema6A (high affinity) and 6B (low affinity) and mediates sympathetic ganglion axon-repulsion, independent of neuropilin-1.

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

