

Specifications:

Gene:	mSema4f
Accession:	NP_035480
Insert size:	2347bp
Concentration:	10µg at 0.2µg/µL

mSemaphorin 4F cDNA Plasmid

Sema4f sema domain, immunoglobulin domain (Ig), TM domain, and short cytoplasmic domain [*Mus musculus* (house mouse)]

Also known as: S4F; SEMAM; SEMAW; M-SEMA; PRO2353; m-Sema-M

Summary:

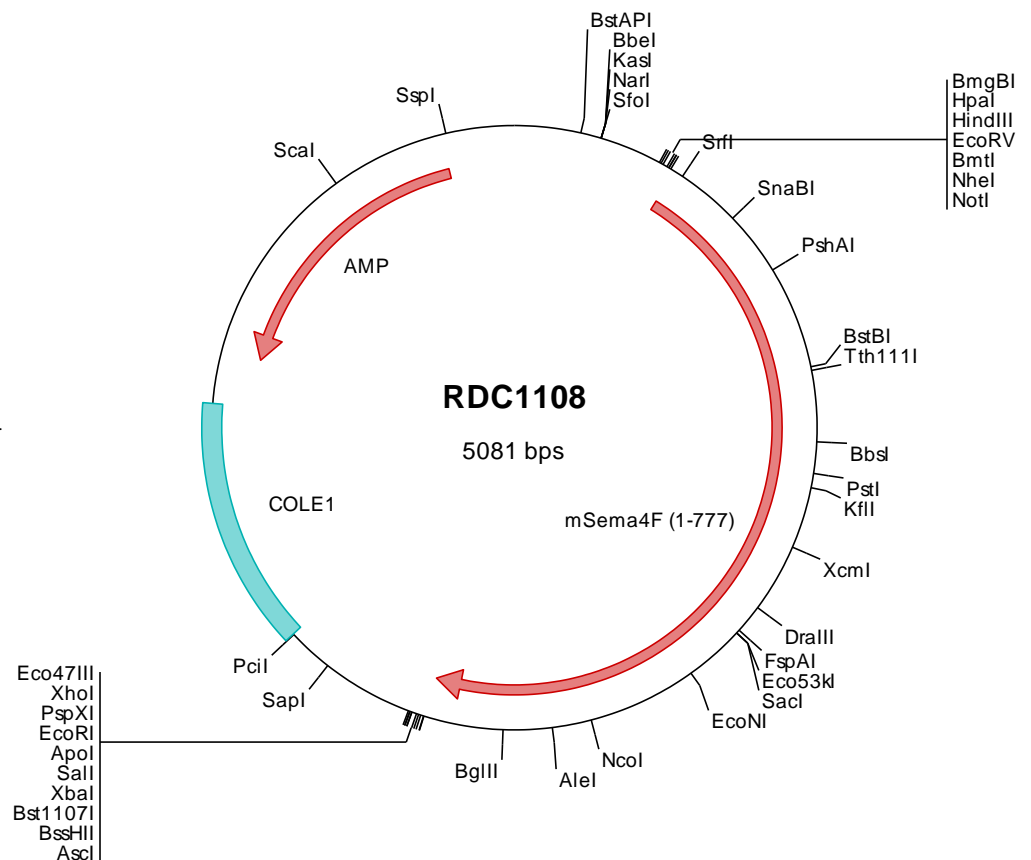
Sema4F is a transmembrane class 4 semaphorin family protein and plays a role in neural development. Sema4F is expressed by cell types that include Schwann cells, oligodendrocyte (highest in precursors), retinal ganglion cells, and neurons, especially along migratory pathways. It is found within post-synaptic densities at glutamatergic synapses, where it binds and probably recruits the cytoplasmic scaffolding protein PSD-95. In Schwann cells, Sema4F likely acts as an adhesive protein and mediator of contact inhibition, and thus an inhibitor of cell proliferation.

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.





> RDC1108 Plasmid DNA Sequence

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> RDC1108 Translated Insert Sequence

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