

Specifications:

Gene:	mSema4B
Accession:	NP_038687
Insert size:	2485bp
Concentration:	10µg at 0.2µg/µL

mSemaphorin 4B cDNA Plasmid

Sema4b sema domain,
immunoglobulin domain (Ig),
transmembrane domain (TM)
and short cytoplasmic domain,
(semaphorin) 4B [*Mus musculus*
(house mouse)]

Also known as: SemC; Semac

Summary:

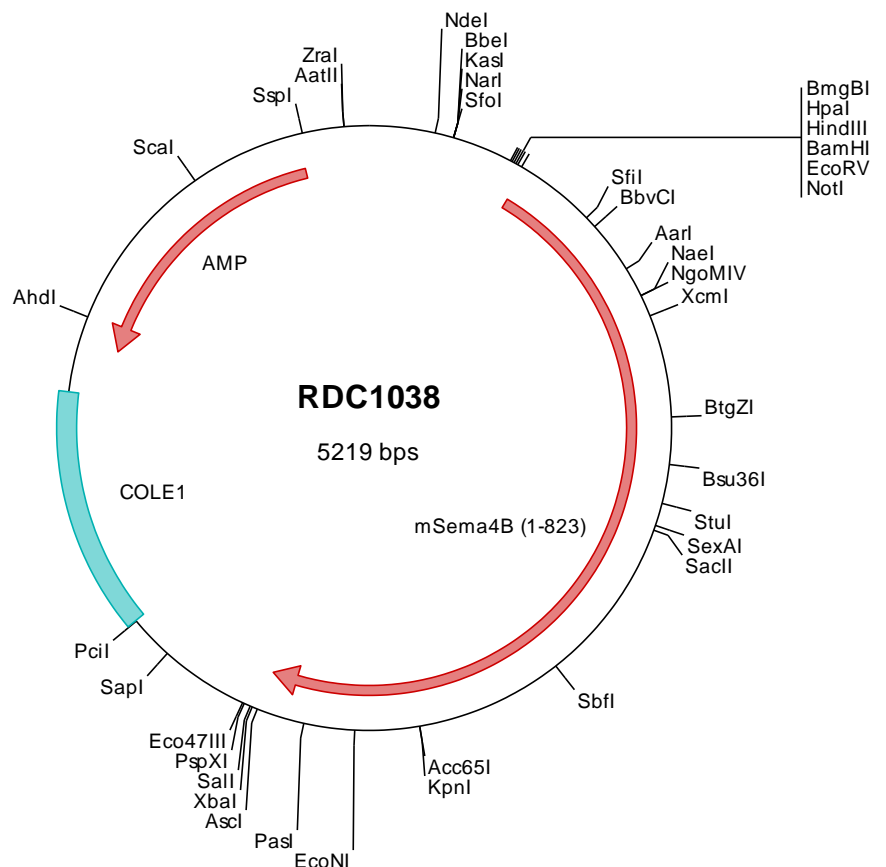
Sema4B is a class IV member of the semaphorin family of proteins. It is expressed in neurons, and following PSD-95 induced clustering, participates in the formation or functioning of glutamatergic synapses.

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.





> RDC1038 Plasmid DNA Sequence

1 tcgcgcggtt cggatgatgac ggtgaaaacc tctgacacat gcaagctccc gagacgggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
101 tcagggcgcg tcagcgggtg ttggcgggtg tccgggctgg cttactatg cggcatcaga gcagattgta ctgagagtgc accatattgc gtgtgaaata
201 ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attgcattc cagcgtcgc aactgttggg aagggcgatc ggtcggggcc tcttcgctat
301 taaggcagct ggcgaaaggg ggatgtgctg caaggcgatt aagtgggta acgcccaggt tttccagtc acgacgtgtg aaaacgacgg ccagtgaatt
401 ggagacgtgt taacaagcct ggatccgata tccgtagcgc ggcgcgccacc atgggcggg cagagccgctc cgctgtcctg cggcggcgcc tgcctgtctg
501 gctgctactg ctgctgctgc ggaccgctgc taocggggcg ctccgcccc ggatcagttg gccgctgggc tctgaagaaa ggtgattag aaaattgaa
601 gctgaaaaca tctccaacta cacggccctt ctgctgagcc aggatggcaa gacgctgtat gtggggggcc gagagccct ctttgcactt aacagcaacc
701 tcagcttctt gccaggcggg gactaccaag agctgctgtg gactgcagat gctgacagga agcagcagtg cagcttcaag ggaaggacc caaagcgtga
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> RDC1038 Translated Insert Sequence

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101 adrkqgcsfk gkdpkrdcqn yikillplns shlltcgtaa fsplcayihf asftlaqdea gnviledgkg rcpfdpnfks talvvdgely tgvssffgn
201 dpairsrsqss rptkttessln wlqdpafvas ayvpselgsp igdddkiyff fsetgqefef fentivsrva rvckgdegge rvlqqrwtscf lkaqllesrp
301 ddgfpfnvlq dvftlnpnpq dwrktllygv ftsqwhrgtt egsaicvftm ndvqkafdgf ykkvnretqq wytethqvpt prpgacitns arekinssl
401 qlpdrvlNFL kdHfLMDGQV rsrlllllqpr aryqrvaavhr vpghlstdydv lflgtgdgrl hkavtlssrv hieelqifp qgqpvqnl11 dshglllyas
501 shsgvvqvpv ancsllyptcg dcllardpyc awtgsacrla slyqpdlasr pwtqdiegas vkelcknssy karflvpgkp ckqvqiapnt vntlacp11s
601 nlatrlwvhn gapvnasasc rvlptgdlll vsgqglgvf qcwsieefq qlvasyqpev meegvmdqkn qrdgtpviin tsrvsapagg raswgadksy
701 wneflvmct1 fvfamvllf1 fflylhrdgm klflkqgeca svhpktrpiv lppetrplng vggpstp1dh rgyqalsdss pgrvrftese krplsiqdsf
801 vevspvcprp rvrlgseird svv