

Specifications:

Gene:	mSema3e
Accession:	CAB02590.1
Insert size:	2341bp
Concentration:	10µg at 0.2µg/µL

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.

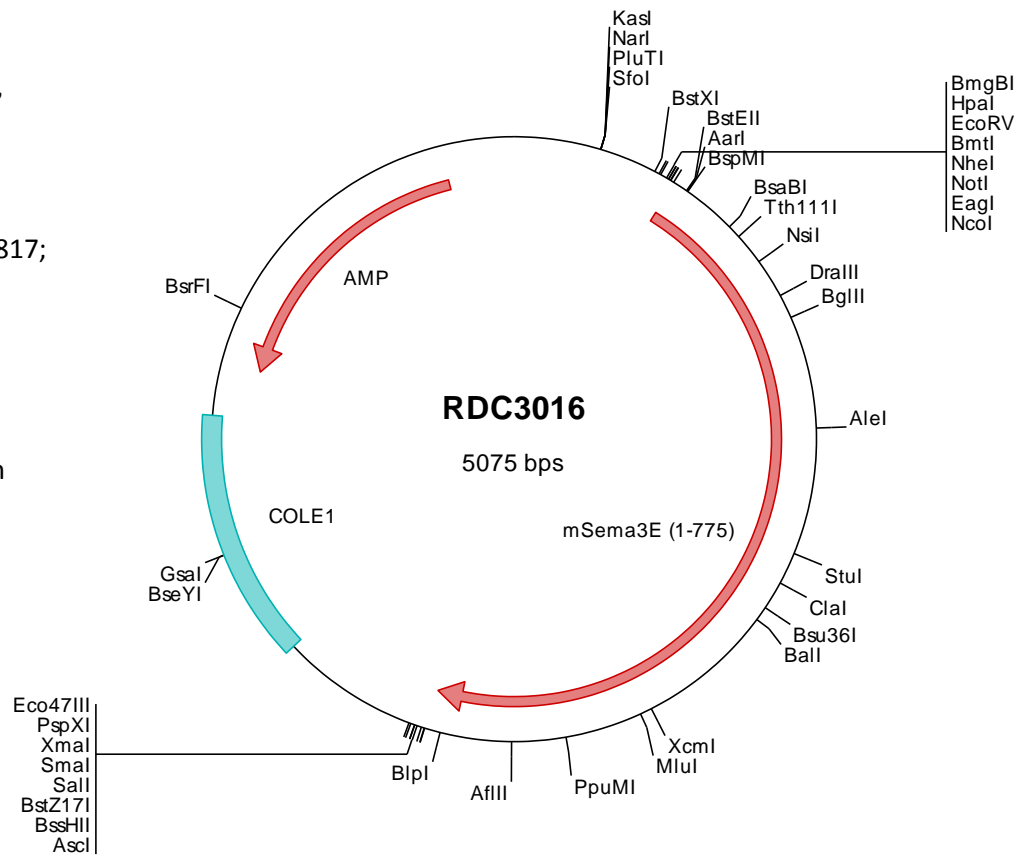
**mSemaphorin 3E
cDNA Plasmid**

Sema3e sema domain,
immunoglobulin domain (Ig),
short basic domain, secreted,
(semaphorin) 3E [*Mus
musculus* (house mouse)]

Also known as: Semah; AA408817;
mKIAA0331; 6430702L12

Summary:

Sema3E is a Class 3 secreted semaphorin which are potent chemorepellents that function in axon guidance and/or vascular tip cell guidance during development. Sema3E is highly expressed by a subset of motor neurons in developing somites, where it acts as a repulsive cue for PlexinD1-expressing endothelial cells of adjacent intersomitic vessels. Sema3E signaling is transduced by a transmembrane Plexin dimer, which also has a Sema domain and is coupled to kinase pathways.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC3016 Plasmid DNA Sequence

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1 tcgcgcgctt cggatgatgac ggtgaaaacc totgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
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201 ccgcacacgat gcgtaaggag aaaataccgc atcaggcgcc attgccatt caggctcgcg aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
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601 agcccccttg gatttcttga tctocataca atgctgctgg atgagatca agaacggctc tttgtgggag gcagagacct tgtctatttc ctgacttgg
701 aacagatcag tgcgctgac agagagatat actggccgag cacagcagta aagtagaagc aatgcaaat gaaagggaaa gacgcaaatg agtgtgccaa
801 ttataccggg gttttgcatc actacaacag gacacacctt ctgacctgtg ctactggagc ttttgatcca cactgtgcct tcatcagagt cgggcaccat
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> RDC3016 Translated Insert Sequence

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201 aifrsngklg hirtehdder llkepkfvgs ymipdnedr dnkmyfffte kaleaennah tiytrvgrlc vndmqqgril vnkwtstflka rlvcsvpgmn
301 gidtyfdele dvfllptrdp knpvifglfn tsnifrgaha vcvyhmssir eafngpyahk egpeyhwsly egkvpyprrp scaskvnggk ygttkdypdd
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601 ectprslqak viwfvqkgrd vrkeevktd rrvkmdlgl flrvrksdag tyfcqtvehn fvhtvrkitl evveehkveg mfhkdhdeer hhkmpcplls
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