

Product datasheet for RC238019

Semaphorin 3B (SEMA3B) (NM_001290062) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Semaphorin 3B (SEMA3B) (NM_001290062) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SEMA3B
Synonyms:	LUCA-1; SemA; SEMA5; SEMAA; semaV
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC238019 representing NM_001290062 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGAACGACGTGCGCCGGCCTTCTTGGGACCTTTGCACACAAGGAGGGGCCCATGCACCAGTGGGTGT
CATAACCAGGTCGCGTCCCCTACCCGCGCCAGGCATGTGCCCCAGCAAGACCTTTGGCACCTTCAGTTC
CACCAAGGACTTCCAGACGATGTCATCCAGTTTGGCGGAACCCCTCATGTACAACCTGTCTGCTGT
CCCACTGGGGGGCGCCCTTTTTCTACAAGTTGGAGCCAATTACACCTTCACTCAAATGCCGCGGACC
GGTTGACGCGCTGACGGACACTATGACGTCCTTTCATTGGCACAGACGTTGGCACGGTGTGAAGGT
GATCTCGGTCCCAAGGGCAGTAGGCCAGCGCAGAGGGGCTGCTCCTGGAGGAGCTGCACGTGTTTGGAG
GACTCGGCGCTGTACCAGCATGCAAATTTCTTCCAAGAGGCACCAGCTGTACGTAGCCTCGCGGAGCG
CGGTGGCCAGATCGCGTTGCACCGTGCCTGCCACGGCCGCTGTGCACCGAATGCTGTCTGGCGCG
TGACCCCTACTGCGCTGGGACGGGTGCGTGCACGCGCTTCCAGCCAGTGCCAAGAGGCGGTTCCGG
CGGCAAGACGTAAGGAATGGCGACCCAGCACGTTGTGCTCCGGAGACTCGTCTCGTCCCGCGTGTCTGG
AACACAAGGTGTTCCGGCTGGAGGGCAGCAGCGCTTTCTGGAGTGTGAGCCCGCTCGTGCAGGCGCG
CGTGGAGTGGACTTTCCAGCGCGCAGGGGTGACAGCCACACCCAGGTGCTGGCAGAGGAGCGCACCGAG
CGCACCGCCCGGGACTACTGCTGCGCAGGCTGCGGCGCCGGACTCGGGCGTGTACTTGTGCGCCGCCG
TCGAGCAGGGCTTACGCAACCGCTGCGTGCCTGCTGCTGACGCTGTTGAGTGTACGCAGGCCGAACG
ACTGGCGCGGGCCGAGGAGGCTGCGCCCGCGCCGCGGGCCCAAACCTGTGTACCGGGACTTTCTG
CAGCTGGTGGAGCCGGCGGAGGTGGCAGCGCAACTCCCTGCGCATGTGCCGCCCGCAGCTGCGTGC
AGTCACTGCCCTGGAGTCGCGGAGAAAGGGCCGTAACCGGAGGACCCACGCCCTGAGCCTGCGCTGA
GCGGGGGCCGCGCAGCGCAACGCACTGG

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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ORF Size:	1218 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001290062.1 , NP_001276991.1
RefSeq Size:	2247 bp
RefSeq ORF:	1221 bp
Locus ID:	7869
UniProt ID:	Q13214
Cytogenetics:	3p21.31
Protein Families:	Secreted Protein, Transmembrane
Protein Pathways:	Axon guidance
MW:	45.5 kDa
Gene Summary:	The protein encoded by this gene belongs to the class-3 semaphorin/collapsin family, whose members function in growth cone guidance during neuronal development. This family member inhibits axonal extension and has been shown to act as a tumor suppressor by inducing apoptosis. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Feb 2014]