

Product datasheet for **RC218865**

SEMA6B (NM_032108) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SEMA6B (NM_032108) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SEMA6B
Synonyms:	EPM11; SEM-SEMA-Y; SEMA-VIB; SEMAN; semaZ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC218865 representing NM_032108
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCAGACCCCGGAGCGTCCCCTCCCCGCCCGCCCTGCTGCTTCTGCTGCTACTGGGGGGCGCC
 ACGGCCTTTTCTGAGGAGCCGCCGCTTAGCGTGGCCCCAGGGACTACCTGAACCACTATCCCGT
 GTTTGTGGGACGCGGCCCGGACGCTGACCCCGCAGAAGGTGCTGACGACCTCAACATCCAGCGAGTC
 CTGCGGGTCAACAGGACGCTGTTCAATGGGGACAGGGACAACCTCTACCGCTAGAGCTGGAGCCCCCA
 CGTCCACGGAGCTGCGGTACCAGAGGAAGCTGACCTGGAGATCTAACCCAGCGACATAAACGTGTGTCG
 GATGAAGGGCAAACAGGAGGGCGAGTGTGAAACTTCGTAAGGTGCTGCTCCTTCGGGACGAGTCCACG
 CTCTTTGTGTGCGGTTCCAACGCCTTCAACCCGGTGTGCGCAACTACAGCATAGACACCCTGCAGCCCG
 TCGGAGACAACATCAGCGGTATGGCCCGTGCCTGACGCCCAAGCACGCAATGTTGCCCTCTTCTC
 TGACGGGATGCTCTTACAGCTACTGTTACCGACTTCTAGCCATTGATGCTGTCATCTACCGCAGCCTC
 GGGGACAGGCCACCCTGCGCACCGTGAACATGACTCCAAGTGGTTCAAAGAGCCTTACTTTGTCCATG
 CCGTGGAGTGGGGCAGCCATGTCTACTTCTTCCGGGAGATTGCGATGGAGTTAACTACCTGGAGAA
 GGTGGTGGTGTCCCGCTGGCCGAGTGTGCAAGAACGACGTGGGAGGCTCCCCCGCGTGTGGAGAAG
 CAGTGGACGCTCTTCTGAAGGCGCGGCTCAACTGCTCTGTACCCGGAGACTCCCATTTCTACTTCAACG
 TGCTGCAGGCTGTACGGGCGTGGTCAAGCTCGGGGCGGCCGCTGGTCTGGCCGTTTTTCCACGCC
 CAGCAACAGCATCCCTGGCTCGGCTGTCTGCGCTTTGACCTGACACAGGTGGCAGCTGTGTTTGAAGGC
 CGCTTCCGAGAGCAGAAGTCCCCGAGTCCATCTGGACGCCGTGCCGGAGGATCAGTGCCTCGACCC
 GGCCCGGGTGTGCGCAGCCCGGGGATGCAATGCAATGCCCTCCAGCGCCTTCCGGGATGACACTCAA
 CTTTGTCAAGACCCACCCTCTGATGGACGAGGCGGTGCCCTCGCTGGGCCATGCGCCCTGGATCCTGCGG
 ACCCTGATGAGGACACAGCTGACTCGAGTGGTGTGGACGTGGGAGCGGCCCTGGGGCAACAGACCG
 TTGTCTTCTGGGTTCTGAGGCGGGGACGGTCTCAAGTCTCTCGTCCGGCCCAATGCCAGCACCTCAGG
 GACGTCTGGGCTCAGTGTCTTCTGGAGGAGTTTGAACCTACCGGCCGACAGGTGTGGACGGCCCGGC
 GGTGGCGAGACAGGGCAGCGGCTGCTGAGCTTGGAGCTGGACGACGCTTCCGGGGGCTGCTGGTGCCT
 TCCCCCGTGCCTGGTCCGAGTGCCTGTGGCTCGCTGCCAGCAGTACTCGGGGTGTATGAAGAACTGTAT
 CGGCAGTCAAGACCCCTACTGCGGGTGGCCCCGACGGCTCCTGCATCTTCTCAGCCCGGGCACCAGA
 GCCGCTTTGAGCAGGACGTGTCCGGGGCAGCACCTCAGGCTTAGGGGACTGCACAGGACTCCTGCGGG
 CCAGCCTCTCCGAGGACCGCGCGGGGCTGGTGTGGTGAACCTGCTGGTAACTGCTCGTGGCGGCGCTT
 CGTGGTGGGAGCCGTGGTGTCCGGCTTACGCTGGGCTGGTTCGTGGGCCTCCGTGAGCGCGGGAGCTG
 GCCCGGCAAGGACAAGGAGGCCATCCTGGCGCACGGGGCGGGCAGGGCGGTGCTGAGCGTCAGCCGCC
 TGGGCGAGCGCAGGGCGCAGGGTCCCAGGGGCGGGGCGGAGGCGGTGGCGGTGGCGCGGGGTTCCCCC
 GGAGGCCCTGCTGGCGCCCTGATGCAGAACGGCTGGGCCAAGGCCACGCTGCTGCAGGGCGGGCCCCAC
 GACCTGGACTCGGGGCTGCTGCCACGCCCGAGCAGACGCCGCTGCCGAGAAGCGCTGCCACTCCGC
 ACCCGCACCCACGCCCTGGCCCCCGCGCTGGGACCACGGCCACCCCTGCTCCGGGCTCCGCTTC
 ATCCTCCTCTGCTGCTGGCGCCCGCCGGGCCCGGAGCAGCCCGCGCCTGGGGAGCCGACCCCC
 GACGCGCGCTCTATGCTGCCCGCCCGCGCCGCGCTCCACGGCGACTTCCCGCTCACCCCCACGCCA
 GCCCGGACCGCGCGGGTGGTGTCCGCGCCACGGGCCCTTGGACCCAGCCTCAGCGCGGATGGCCT
 CCCGCGGCTGGAGCCCGCCCGACGGGACGCTGAGGAGGCACTGGGCCCCACGCCCTCCGGCC
 GCCACCTGCGCCGACCCACACGTTCAACAGCGGCGAGGCCCGGCTGGGGACCGCCACCGCGGCTGCC
 ACGCCCGCGGGCACAGACTTGGCCACCTCCTCCCTATGGGGGGCGGACAGGACTGCGCCCCCGT
 GCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC218865 representing NM_032108
 Red=Cloning site Green=Tags(s)

MQTPRASPPRPALLLLLLLLGGAHGLFPEEPPPLSVAPRDYLNHYVPVFGSGPGRLLTPAEGADDLNIQRV
 LRVNRTLFIGDRDNLRYVELEPPTSTELRYQRKLTWRNSNPDIIVCRMKGKQEGECRNFVKVLLLRDEST
 LFVCGSNANPVCANYSIDLQPVGDNISGMARCPYDPKHANVALFSDGMLFTATVTDFLAIDAVIYRSL
 GDRPTLRVTKHDSKWFKEPYFVHAVEWGSHVYFFREIAMEFNYLEKVVVSRVARVCKNDVGGSPRVLEK
 QWTSFLKARLNCSVPGDASHFYFNVLQAVTGVVSLGGRPVVLAVFSTPSNSIPGSAVCAFDLTQVAAVFEG
 RFREQKSPESIWTPVPEDQVPRPRPGCCAAPGMQYNASSALPDDILNFVKTHPLMDEAVPSLGHPWILR
 TLMRHQLTRVAVDVGAGPWGNQTVVFLGSEAGTVLKFLVRPNASTSGTSGLSVFLEEFETYRPDRCGRPG
 GGETGQRLLSLELDAASGGLLAAFPRCVVRVPVARCQYSGCMKNCIGSQDPYCGWAPDGCIFLSPGTR
 AAFEQDVSGASTSGLGDCTGLLRASLSEDRAGLVSVNLLVTSSVAAFVVGAVVSGFVSGWFVGLRERREL
 ARRKDKEAIIAHGAGEAVLSVSRLGERRAQPGGRGGGGGGGAGVPPEALLAPLMQNGWAKATLLQGGPH
 DLDSGLLPTPEQTPLPQKRLPTPHPHALGPRAWDHGHPLLPASASSLLLLAPARAPEQPAPGPEPTP
 DGRLYAARPGRASHGDFLTPHASPDRRRVVSAPTGPLDPASAADGLPRPWSPPPTGSLRRPLGPHAPPA
 ATLRRHTFNSGEARPGDRHRGCHARPGTDLAHLPPYGGADRTAPPVP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8103_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

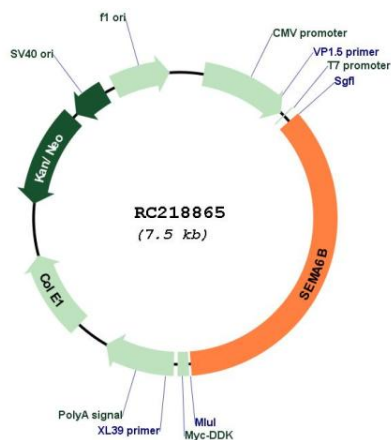


* The last codon before the Stop codon of the ORF

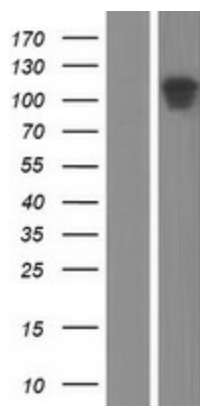
ACCN: NM_032108

ORF Size:	2664 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_032108.4
RefSeq Size:	3961 bp
RefSeq ORF:	2667 bp
Locus ID:	10501
UniProt ID:	Q9H3T3
Cytogenetics:	19p13.3
Protein Families:	Transmembrane
Protein Pathways:	Axon guidance
MW:	95.3 kDa
Gene Summary:	This gene encodes a member of the semaphorin family, a group of proteins characterized by the presence of a conserved semaphorin (sema) domain. Whereas some semaphorins are transmembrane proteins, others are secreted. Semaphorins play a major role in axon guidance. The protein encoded by this gene may be involved in both peripheral and central nervous system development. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC218865



Western blot validation of overexpression lysate (Cat# [LY410389]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218865 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).