

## Product datasheet for **RG218865**

### SEMA6B (NM\_032108) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SEMA6B (NM_032108) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SEMA6B
Synonyms:	EPM11; SEM-SEMA-Y; SEMA-VIB; SEMAN; semaZ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

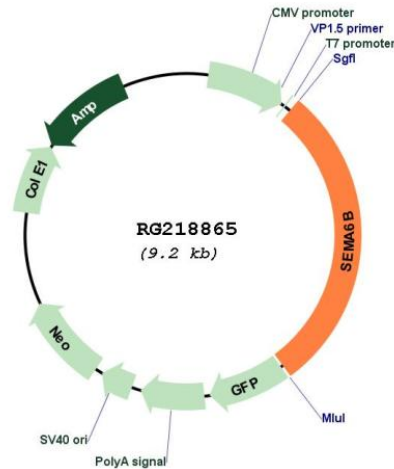
>RG218865 representing NM\_032108  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCAGACCCCGGAGCGTCCCCTCCCCGCCCGCCCTGCTGCTTCTGCTGCTACTGGGGGGCGCC  
 ACGGCCTTTTCTGAGGAGCCGCCCGCTTAGCGTGGCCCCAGGGACTACCTGAACCACTATCCCGT  
 GTTTGTGGGACGCGGCCCGGACGCTGACCCCGCAGAAGGTGCTGACGACCTCAACATCCAGCGAGTC  
 CTGCGGGTCAACAGGACGCTGTTCAATGGGGACAGGGACAACCTCTACCGCTAGAGCTGGAGCCCCCA  
 CGTCCACGGAGCTGCGGTACCAGAGGAAGCTGACCTGGAGATCTAACCCAGCGACATAAACGTGTGTCG  
 GATGAAGGGCAAACAGGAGGGCGAGTGTGAAACTTCGTAAGGTGCTGCTCCTTCGGGACGAGTCCACG  
 CTCTTTGTGTGCGGTTCCAACGCCTTCAACCCGGTGTGCGCAACTACAGCATAGACACCCTGCAGCCCG  
 TCGGAGACAACATCAGCGGTATGGCCCGTGCCTGACGCCCAAGCACGCAATGTTGCCCTCTTCTC  
 TGACGGGATGCTCTTACAGCTACTGTTACCGACTTCTAGCCATTGATGCTGTCATCTACCGCAGCCTC  
 GGGGACAGGCCACCCTGCGCACCGTGAACATGACTCCAAGTGGTTCAAAGAGCCTTACTTTGTCCATG  
 CGGTGGAGTGGGGCAGCCATGTCTACTTCTTCCGGGAGATTGCGATGGAGTTAACTACCTGGAGAA  
 GGTGGTGGTGTCCCGCTGGCCGAGTGTGCAAGAACGACGTGGGAGGCTCCCCCGCGTGTGGAGAAG  
 CAGTGGACGCTCTTCTGAAGGCGCGGCTCAACTGCTCTGTACCCGGAGACTCCCATTTCTACTTCAACG  
 TGCTGCAGGCTGTACGGGCGTGGTCAAGCTCGGGGCGCGCCGTGGTCTGGCCGTTTTTCCACGCC  
 CAGCAACAGCATCCCTGGCTCGGCTGTCTGCGCTTTGACCTGACACAGGTGGCAGCTGTGTTTGAAGGC  
 GCCTTCCGAGAGCAGAAGTCCCCGAGTCCATCTGGACGCCGTGCCGGAGGATCAGTGCCTCGACCC  
 GGCCCGGGTGTGCGCAGCCCGGGATGCAGTACAATGCCTCCAGCGCCTTCCGGGATGACACTCAA  
 CTTTGTCAAGACCCACCCTCTGATGGACGAGGCGGTGCCCTCGCTGGGCCATGCGCCCTGGATCCTGCGG  
 ACCCTGATGAGGACACAGCTGACTCGAGTGGCTGTGGACGTGGGAGCCGCCCCCTGGGGCAACAGACCG  
 TTGTCTTCTGGGTTCTGAGGCGGGGACGGTCTCAAGTCTCGTCCGGCCCAATGCCAGCACCTCAGG  
 GACGTCTGGGCTCAGTGTCTTCTGGAGGAGTTTGAACCTACCGGCCGACAGGTGTGGACGGCCCGGC  
 GGTGGCGAGACAGGGCAGCGGCTGCTGAGCTTGGAGCTGGACGACGCTTCCGGGGGCTGCTGGTGCCT  
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 CGGCAGTCAAGACCCCTACTGCGGGTGGCCCCCGACGGCTCCTGCATCTTCTCAGCCCGGGCACCAGA  
 GCCGCTTTGAGCAGGACGTGTCCGGGGCCAGCACCTCAGGCTTAGGGGACTGCACAGGACTCCTGCGGG  
 CCAGCCTCTCCGAGGACCGCGCGGGGCTGGTGTGGTGAACCTGCTGGTAACTGCTCGTGGCGGCGCTT  
 CGTGGTGGGAGCCGTGGTGTCCGGCTTACGCTGGGCTGGTTCGTGGGCCTCCGTGAGCGCGGGAGCTG  
 GCCCGGCAAGGACAAGGAGGCCATCCTGGCGCACGGGGCGGGCGAGGCGGTGCTGAGCGTCAAGCCG  
 TGGGCGAGCGCAGGGCGCAGGGTCCCAGGGGCGGGGCGGAGGCGGTGGCGGTGGCGCGGGGTTCCCC  
 GGAGGCCCTGCTGGCGCCCTGATGCAGAACGGCTGGGCCAAGGCCACGCTGCTGCAGGGCGGGCCCCAC  
 GACCTGGACTCGGGGCTGCTGCCACGCCCGAGCAGACGCCGCTGCCGAGAAGCGCTGCCACTCCGC  
 ACCCGCACCCACGCCCTGGCCCCCGCGCTGGGACCACGGCCACCCCTGCTCCCGGCTCCGCTTC  
 ATCCTCCTCCTGCTGCTGGCGCCCGCCGGGCCCGGAGCAGCCCGCGCCTGGGGAGCCGACCCCC  
 GACGCGCGCTCTATGCTGCCCGCCCGCGCCGCGCTCCACGGCGACTTCCCGCTCACCCCCACGCCA  
 GCCCGGACCGCGCGGGTGGTGTCCGCGCCACGGGCCCTTGGACCCAGCCTCAGCCGCGATGGCCT  
 CCCGCGGCTGGAGCCCGCCCCGACGGGACGCTGAGGAGGCACTGGGCCCCACGCCCTCCGCGC  
 GCCACCTGCGCCGACCCACACGTTCAACAGCGGCGAGGCCCGGCTGGGGACCGCCACCGCGGCTGCC  
 ACGCCCGCGGGCACAGACTTGGCCACCTCCTCCCTATGGGGGGCGGACAGGACTGCGCCCCCGT  
 GCCC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – **GTTTAA**



**Plasmid Map:**


**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:**

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

**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]