

## Product datasheet for **RR217234**

### Sema4b (NM\_001170462) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sema4b (NM_001170462) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sema4b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR217234 representing NM\_001170462  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGCCGGGCGAGCCGCTCCGCCGACCTGCTGAGCGCGTGCAGCTGCTGTTGCTACTGCTGCGGACGA  
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 AGACTCTGTGGTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR217234 representing NM\_001170462  
 Red=Cloning site Green=Tags(s)

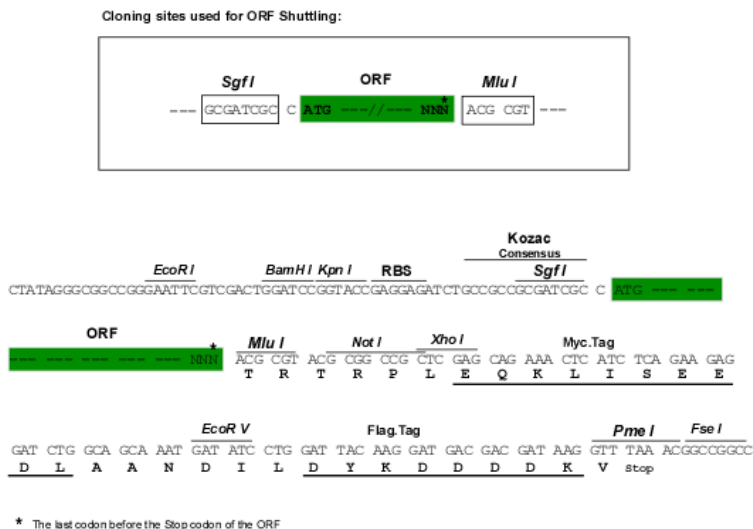
MGRASRSADLLSALQLLLLLLRTTTARALGPRISVPLDSEERLIRKFEAENISNYTALLLSQDGKTLVVG  
 AREALFALNSNLSFLPGGEYQELLWSADPDRKQCSFKGKDPKRDCQNYIKILLPLNSSHLLTCGTAAFS  
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 LQQRWTSFLKAQLLCSRPDGFFPNVLQDVFTLNPNPQDWRKTLFYGVFTSQWHRGTTEGSAICVFTMND  
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 RLLLLQPQARYQRVAVHRVPGLHSTYDVLFLGTGDGRLHKAVTLDSRVHIEELQVFPQQQPQNLLLDS  
 HGLLYASSHSGVVQVPVANCSLYPTCGDCLLARDPYCAWNGSTCKLLSLYQPDLASRPWIQDIEGANTK  
 ELCNISSAKARSFKPGKPKQVQIQANTVNTLACPLLSNLATRLWLHNGAPVNASASCRVLPDGLLLVG  
 SQQGLGVFQCWSIEEGFRQLVASYCPEVKEDGVMQNDQSDGTPVIINTSRVSAPAGGRASWGADKSYWN  
 EFLVMCTLFGLAVVLLVLFLLYRNRDGMKLFKQGECAVHPKTRPAVLPPETRPLNGVGPSTPLDHRG  
 YQALSDSSPGPRVFTESEKRPLSIQDSFVEVSPVCPRRVRLGSEIRDSVV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_001170462

ORF Size: 2463 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\\_001170462.1](#), [NP\\_001163933.1](#)

**RefSeq Size:** 3449 bp

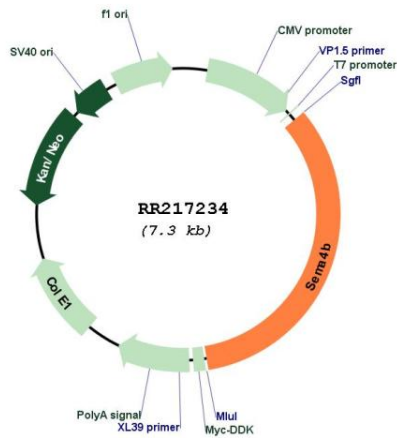
**RefSeq ORF:** 2466 bp

**Locus ID:** 293042

**Cytogenetics:** 1q31

**MW:** 90.7 kDa

**Product images:**



Circular map for RR217234