

Product datasheet for **MR221958**

Sema6b (NM_013662) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sema6b (NM_013662) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sema6b
Synonyms:	Sema; Seman; semaZ; Vlb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR221958 representing NM_013662
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGGACCCCGGAGTGCCCCCTCACGCCCGGCCCTGTCGTTTTCTGCTGTTGCTCCTGGGGTCA
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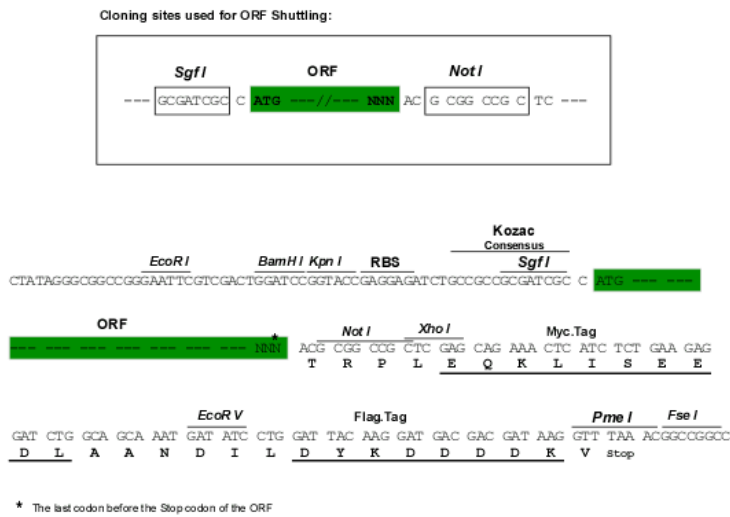
Protein Sequence: >MR221958 representing NM_013662
 Red=Cloning site Green=Tags(s)

MWTPRVPPRPALSFFLLLLLVGTYGLFPEEPPPLSVAPRDYLSHYPVFGSGPGRLLTAAEGAEDLNIQR
 VLRVNRFLFIGDRDNLQVELEPSTSTELRYQRKLTWRSNPSDIDVCRMKGKQEGECRNFVKVLLLRDES
 TLFVCGSNAFNPICANYSMDTLQLLGDSSIGMARCPYDPKHANVALFSDGMLFTATVTDFLAIDAVIYRS
 LGDRPTLRTVKHDSKWFKEPYFVHAVEWGSVYFFREIAMEFNYLEKVVVSRVARVCKNDVGGSPRVLE
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 GRFREQKSPESIWTPVPEDQVPRPRPGCCAAPGMQYNASSALPDEILNFVKTHPLMDEAVPSLGHSPWIV
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 ELARRKDEAILAHGGSEAVLSVSRLGERRGTGPGRRGGAGGGPGPPEALLAPLMQNGWTKAALLHGGP
 HDLDTGLLPTPEQTPLPQKRLPTPHPHALGSRAWDHSHALLSASASTLLLLAPARASEQPQVPAEPG
 PESRLCAPRSCRASHPGDFPLTPHASPXRRRVVSAPTGPLDPSVGDGLPGWSPPATSSLRRPGPHGPP
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Restriction Sites: SgfI-NotI

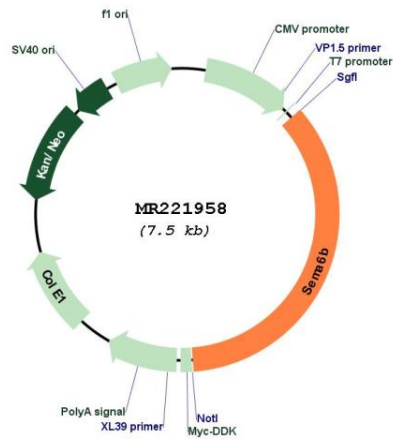
Cloning Scheme:



ACCN: NM_013662

ORF Size:	2661 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_013662.1 , NM_013662.2 , NP_038690.1
RefSeq Size:	3847 bp
RefSeq ORF:	2661 bp
Locus ID:	20359
UniProt ID:	O54951
Cytogenetics:	17 D
MW:	95.6 kDa
Gene Summary:	Functions as a cell surface repellent for mossy fibers of developing neurons in the hippocampus where it plays a role in axon guidance (PubMed:20484647). May function through the PLXNA4 receptor expressed by mossy cell axons (PubMed:20484647). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221958