

Product datasheet for **RR203840**

Sema6b (NM_053471) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sema6b (NM_053471) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sema6b
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR203840 representing NM_053471
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGGACCCCGGAGCGCCCCCTCACGCCCGGCCCTGCTGTTCTCTGCTGTTGCTTCTGAGGGTCA
 CCCATGGCCTTTTCCAGATGAACCACCTCCACTCAGTGTGGCTCCAGGGACTACTGAGCCACTACCC
 CGTGTTCGTGGGACGGGCTGGTCTGACCCCTGCAGAGGGTGTGAGGACCTCAACATCCAGAGA
 GTGCTACGTGTTAACAGGACACTGTTTCATCGGGGACAGAGACAACCTGTACCAAGTAGAACTGGAGCCAT
 CCACATCCACGGAGCTGCGGTATCAGCGGAAGCTTACCTGGCGCTCAACCCCAAGTACATCGATGTGTG
 TCGGATGAAGGGCAAGCAAGAGGGTGTGAGTGTGGAACTTTGTCAAGGTGCTCCTGCTTGTGACGAATCC
 ACGCTCTCGTGTGCGGCTCCAATGCATTCAATCCCATCTGTGCCAATTACAGTATGGACACACTGCAGC
 TTCTTGGAGACAACATCAGTGGTATGGCCCGCTGCCCTACGACCCCAAGCATGCCAATGTCCGCCCTTT
 CTCAGATGGGATGCTCTTACAGCCACAGTAACTGACTTCTAGCCATCGACGCTGTTATCTACCGTAGC
 CTTGGGGACCGCCACACTGCGCACAGTAAAGCATGACTCCAAGTGGTTTAAAGAGCCATACTTTGTGC
 ATGCGGTGGAGTGGGGAAGCCACGTCTACTTCTTCCGGGAGATCGCCATGGAGTTTAACTATCTGGA
 AAAGTGGTGGTGTCCCGTGTGGCCCGTATGCAAGAATGATGTGGCGGCTCCACCGGGTGTGGAG
 AAGCAGTGGACTTCTTCTGAAGGCCCGGCTCAACTGCTCCGTGCCTGGGGACTCACACTTCTACTTCA
 ATGTAAGTGCAGGCTGTGACTGGTGTGGTGGAGCCTTGGCGCCGTCCAGTATTCTTGTGCTTCTCAAC
 TCCTAGCAACAGCATCCCTGGCTCAGCTGTCTGTGCCCTTGACATGAACCAAGTGGCTGTGTGTTGAA
 GGCCGCTTCCGGGAGCAGAAGTCACTGAGTCAATCTGGACCCCAAGTGCCTGAGGACCAAGTACCACGGC
 CCAGGCCCGGGTGTGTGACGCGCCCGTATCAGTACAACGCATCCAATGCCCTTCTGACGAGATTCT
 CAACTTTGTAAAGACCCACCCACTGATGGACGAAGCGGTGCCCTCCCTGGGCCACTCGCCTTGGATTGTG
 AGAACTCTGATACGGCACCCAGCTGACCCGAGTGGCTGTGGATGTGGGTGCAGGCCATGGGGCAATCAGA
 CAATAGTCTTCTTGGCTCTGAGGTTGGCACAGTCTCAAAATCCTTGTGAAGCCCAATGCCAGTGTCTC
 AGGGACCACAGGGCCAGCATCTTTTGGAGGAGTTTGGAGCCTACCGGCCAGACAGGTGTGGACGATCC
 AGCAGTGTGGTGTGAGTGGGACAAAGCTTCTGAGCCTGGAGCTAGATGTGCCTCAGGTGGCCTGTGG
 CAGCCTTCCCGGCTGTGTGGTTCGTGTTCTGTTGCCCGCTGCCAGTGTACTCGGGTGCATGAAGAA
 CTGCATTGGCAGCAAGATCCATACTGCGGGTGGGCCCCGATGGCTCCTGCATCTTCTCAGACCAGGA
 ACCAGTGCACGTTTGGCAAGATGTGTCCGGGGCCAGCACCTTGGCTTAGGTGACTGCACTGGACTCT
 TGCAGCCAGCCTCTCAGATGACCGCGCAGGGCTGGTATCGGTGAACCTGCTGGTACGCTCCTCGGTGGC
 AGCGTTCTGTGGTGGGTGCCGTGGTGTCCGGTTTACGCTGGGCTGGTTCGTGGGTCTCCGCGAGCGCGG
 GAGCTGGCCCGCGCAAGGACAAGGAAGCCATCCTGGCGCATGGCGGCAGCGAGGCAAGTGTGAGCGTGA
 GCCGACTGGGCGAGCGCAGGGGAACCGGACTGGGGTGTGGGGAGCCGGCGGGTCCCGGGGGTCC
 CCCGGAGGCCCTGCTGGCCCCGTTATGCAGAATGGCTGGACAAAGGCGGCACTGCTGCATGGTGGTCTC
 CACGACCTGGATTCGGGGCTGCTGCCACCCCTGAGCAGACGCCTTCCCCAGAAACGCCTGCCACAA
 CACACCCACAGCCACGCCCTAGGACCGGAGCCTGGGACCACAGCCACGCGCTGCTGTCCGCCCTGCG
 CTCCACATCCTTGTCTCTGCTGGCGCACACCCGCGCCCTGAGCAGCCCCCAGTGGCGACTGAGTACAGC
 CCGGAATCTCGCCTCTGCGCCCCAAGATCCTGCCGGCCTCTACCCAGGCGACTTCCCCTCACGCTC
 ACGCCAGCCCGGACCGCGGGTGTGTCCGCACCCACGGGCCCTTGGACTTCTTCTCGGTGGGCGA
 CGACCTTCCAGGGCCATGGAGCCACCTGCAACCAGCAGCCTGCGGAGGCCGGGCCCATGGGCCCA
 ACAGCCGCCCTGCGGCGCACACACATTCAACAGCGCGAGGCGAGGCCGGGGTACCGTCTCGCC
 GCCACGCACCCGCGGACTCTACACACTTGTGCCCTGCGGACGGGCGAGCGGACTGCACCCCGGTACC
 C

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR203840 representing NM_053471
 Red=Cloning site Green=Tags(s)

MWTPRAPP RPALL FLLLLL RVTHGLFPDEPPPLSVAPRDYLSHYPVFVGS GPGRLTPAEGAEDLNIQR
 VLRVNRTLFIGDRDNL YQVELEPSTSTELRYQRKLTWRSNPSDIDVCRMKGKQEGECRNFKVLLLRDES
 TLFVCGSNAFNPICANYSM DTLQLLGDNISGMARCPYDPKHANVALFSDGMLFTATVTDFLAIDAVIYRS
 LGDRPTLRTVKHDSKWFKEPYFVHAVEWGS HVYFFFREIAMEFNYLEKVVVSRVARVCKNDVGGSPRVLE
 KQWTSFLKARLNCSVPGDSHFYFNVLQAVTGVVSLGGRPVILAVFSTPSNSIPGSAVCAFDMNQVA AVFE
 GRFREQKSPESIWTPVPEDQVPRPRPGCCAAPGMQYNASNALPDEILNFVKTHPLMDEAVPSLGHSPWIV
 RTLIRHQLTRVAVDVGAGPWGNQTI VFLGSEVGTVLKFLVKPNASVSGTTGPSIFLEEFETYRPDRCGRS
 SSAGEWGQRLLSLELDAASGGLLA AFPRCVVRVPVARCQLYSGCMKNCIGSQDPYCGWAPDGSCIFLRPG
 TSATFEQDVSGASTSGLGDCTGLLRASL SDDRAGLVSVNLLVTSSVAAFVVGAVVSGF SVGWVGLRERR
 ELARRKDKEAILAHGGSEAVLSVSRLGERRGTGTGRRGGAGGGPGPPEALLAPLMQNGWTKAALLHGGP
 HDLDSGLLPTPEQTPLPQKRLPTT PHAHALGPRAWDHSHALLSASASTSLLLLAHTRAPEQPPVPTESG
 PESRLCAPRSCRASHPGDFLTPHASPDRRRVVSAPTGPLDSSSVGDDLPGPWSPPATSSLRRPGPHGPP
 TAALRRTHTFNSGEARPGGHRPRRHAPADSTHLLPCGTGERTAPPVP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

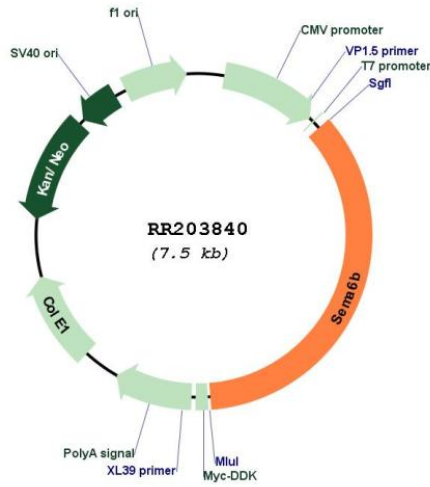
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_053471
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_053471.2 , NP_445923.1
RefSeq Size:	3847 bp
RefSeq ORF:	2664 bp
Locus ID:	84609
UniProt ID:	O70141
Cytogenetics:	9q12
MW:	95.8 kDa
Gene Summary:	may play roles in neurogenesis and axon guidance [RGD, Feb 2006]