

Product datasheet for MR216182

Sema5b (NM_013661) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sema5b (NM_013661) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Sema5b
Synonyms: AI893641; mKIAA1445; Semag; SemG
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR216182 representing NM_013661
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGTAGTCCCAGGACCCCTGGCTCTCTCGCTGTTGCTGTCCAGCCTCACCTGCTGGTGTCCCACCTCT
 CCAGCTCCAGGACATTGCCAGTGAGTCCAGCAGTGAGCAACAGATGTGCACGCGGAGGGAGCACCCCAT
 CGTGGCCTTTGAAGATCTGAAGCCGTGGGTCTTAACTTCACCTACCCTGGAGTCCGGGATTTCTCCAG
 CTTGCTCTTGATCCCTCGAGGAATCAGCTCATCGTGGGAGCCAGGAACTACCTCTTCAGACTCAGCTCG
 CCAATGTCTCCCTCCTCAGGCTACAGAGTGGGCTCCAGTGAGGACACGCGCCGCTCCTGCCAGAGCAA
 AGGGAAAACGGAGGAGGAGTGTCAGAATATGTACGAGTCTGATTGTTTCCGGCCGGAAGTGTTTCATG
 TCGCGTACCAATGCCTTTTCCCCAGTGTCTCCAGCAGACAGGTAGGGAACCTCAGCCGGACTATTGAGA
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 GGAGCTCTATGCAGCCACAGTCATTGACTTCTCCGGTCCGGACCCAGCCATCTACCGCAGCTGGGCAGT
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CTGCGGGTCCCCTGGAGAGGTGTTCCGGCCTATCATAGCCAGGGGGCATGCCTGGGAGCACGGGACCCAT
 ACTGCGGTGGGATGGGAAGCGCAACTTTGCAGCACGCTTGAAGACAGTTCCAACATGAGCCTGTGGAT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>MR216182 representing NM_013661
 Red=Cloning site Green=Tags(s)

MVVPGLALSLLLSSLTLLVSHLSSSQDIASESSSEQMCTREHPIVAFEDLKPWFNFYTPGVRDFSQ
 LALDPSRNQLIVGARNYLFRLSLANVSLQATEWASSEDTRRSCQSKGKTEEEQNYVRVLIIVSGRKVFM
 CGTNAFSPVCSRRQVGNLSRTIEKINGVARCPYDPRHNSTAVISSQELYAATVIDFSGRDPAIYRSLGS
 GPPLRTAQYNSKWLNEPNFVAADFIDGLFAYFFLRENAVEHDCGRTVYSRVARVCKNDVGGRFLEDTWTT
 FMKARLNCSRPEVFPFYNELQSAFHLPEQDLIYGVFTTNVNSIAASAVCAFNLSAISKAFNGPFRYQEN
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 VQAKDTLYHVLVIGTESGTLKALSTASRSLRGCYLEELHVLPPGRLEPLRSLRILHSARALFVGLSDRV
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 KPCEHLGDNGSCLCRARSCDPRPRCGGLECLGPSIHIANCSRNGAWTAWSSWAQCSTSCGIGFQVRQ
 RSCSNPAPRHGGRICVKGKSREERFCNENTPCPVPIFWASWGSWSKCSNCCGGVQSRRRSCENGNPCGC
 GVEFKTCNPEACEPEVRRNTPWTPWLNVNTQGGARQEQRFRTCRAPLPDPHGLQFGKRRTETRTCPADG
 TGACDLDALVEDLLRSGTSPHTLNGGWATWGPWSSCSRDCLELGFVRKRTCTNPEPRNGGLPCVGDAAE
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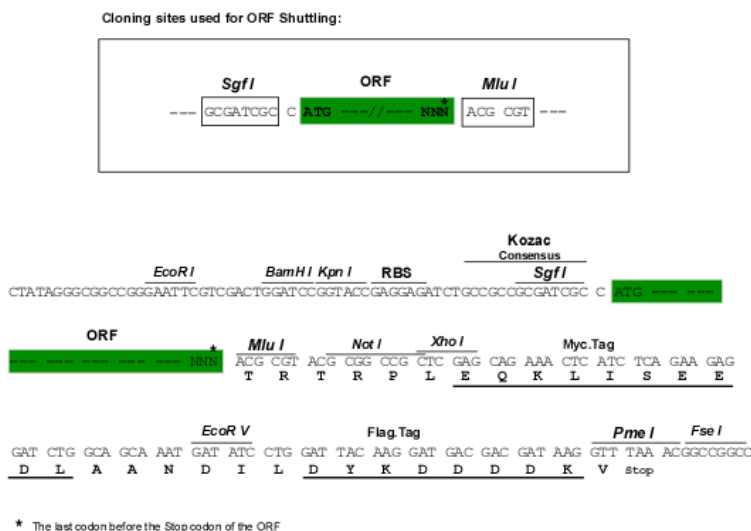
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9002_c10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013661

ORF Size: 3279 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_013661.2](#), [NP_038689.2](#)

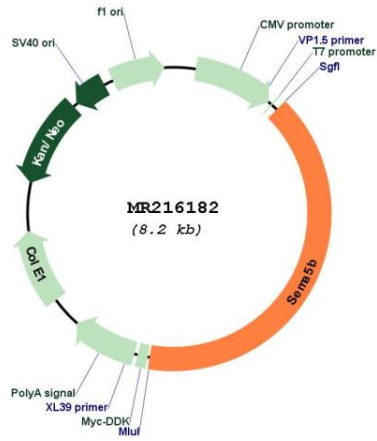
RefSeq Size: 4556 bp

RefSeq ORF: 3282 bp

Locus ID: 20357

UniProt ID: [Q60519](#)
 Cytogenetics: 16 B3
 MW: 120.8 kDa
 Gene Summary: May act as positive axonal guidance cues.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR216182