

## Product datasheet for **MG216182**

### Sema5b (NM\_013661) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sema5b (NM_013661) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sema5b
Synonyms:	AI893641; mKIAA1445; Semag; SemG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG216182 representing NM_013661 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTAGTCCCAGGACCCCTGGCTCTCTCGCTGTTGCTGTCCAGCCTCACCTGCTGGTGTCCCACCTCT  
CCAGCTCCCAGGACATTGCCAGTGAGTCCAGCAGTGAGCAACAGATGTGCACGCGGAGGGAGCACCCCAT  
CGTGGCCTTTGAAGATCTGAAGCCGTGGGTCTTTAACTTCACCTACCCTGGAGTCCGGGATTTCTCCCAG  
CTTGCTCTTGATCCCTCGAGGAATCAGCTCATCGTGGGAGCCAGGAACTACCTCTTCAGACTCAGCTCG  
CCAATGTCTCCCTCCTCAGGCTACAGAGTGGGCTCCAGTGAGGACACGCGCCGCTCCTGCCAGAGCAA  
AGGGAAAACGGAGGAGGAGTGTCAAGAACTATGTACGAGTCTGATTGTTTCCGGCCGGAAGTGTTTCATG  
TGCGGTACCAATGCCTTTTCCCCAGTGTCTCCAGCAGACAGGTAGGGAACCTCAGCCGGACTATTGAGA  
AGATCAACGGTGTGGCCCGGTGCCCTATGACCCACGCCACAACCTCTACAGCCGTCATCTCTCAGGG  
GGAGCTCTATGCAGCCACAGTCATTGACTTCTCCGGTCCGGACCCAGCCATCTACCGCAGCTGGGCAGT  
GGGCCACCGCTTCGCACTGCCAGTATAACTCCAAATGGCTCAATGAGCCAAATTTGTGGCAGCCTTTG  
ACATCGGGCTGTTTGGTATTTCTCTCCTCGGGAGAATGCCGTGGAGCATGATTGTGGGCGCACTGTGTA  
CTCTCGGGTGGCCCGGTGTGCAAGAATGATGTAGGTGGCCGTTTCTCTGCTGGAGGACACGTGGACCACA  
TTCATGAAGCCCGGCTCAACTGCTCCCGCCGGGAGAGGTCCCCTTCTACTATAATGAGCTGCAGAGTG  
CCTTCCATCTGCCCGAGCAGGACCTCATCTATGGCGTCTTCACTAAGTAAACAGCATTGCCGCTTC  
TGCTGTCTGCGCCTTCAACCTCAGTGCCATCTCCAAGGCTTTCAATGGCCATTTCTGTTACCAGGAAAAC  
CCCAGGGTGCCTGGCTCCCAATCGCCAATCCCATCCCAATTTCCAGTGTGGCACTCTGCCGAGACTG  
GCCCAACGAGAACCTCACGGAGCGCAGCCTGCAGGACGCACAGCGGCTCTTCTGATGAGCGAAGCTGT  
GCAGCCAGTGACACCAGAGCCCTGTGTACCCAGGACAGCGTCCGCTTCTCACATCTCGTGGTAGACCTT  
GTGCAAGCTAAGGACACGCTCTATCAGTACTCTACATAGGCACGGAGTCCGGTACCATCCTGAAAGCGC  
TGTCACGCGCCAGCCGAGCCTCCGTGGCTGCTACCTGGAGGAGTACATGTGCTGCCTCCTGGGCGCT  
TGAACCTCTGCGGAGCCTGCGCATCTGCACAGCGCGCTGCGCTTTCGTGGGATTGAGCGACAGGGT



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CTGCGGGTCCCACTGGAGAGGTGTTCCGGCCTATCATAGCCAGGGGGCATGCCTGGGAGCACGGGACCCAT  
 ACTGCGGCTGGGATGGGAAGCGGCAACTTTGCAGCACGCTTGAAGACAGTTCCAACATGAGCCTGTGGAT  
 CCAGAACATCACAACTGTCTGTACGAAATGTGACACGGGATGGGGGCTTCGGCCCATGGTCACCATGG  
 AAACCGTGTGAGCACTTAGATGGAGACAACTCGGGTCTTGCCTGTGCCGGGCCAGATCCTGTGACTCCC  
 CAAGGCCCTCGTGTGGGGCCTCGAGTGCCTGGGGCCATCCATCCATATTGCCAATTGCTCCAGGAATGG  
 GCGTGGACCCGATGGTTCATCGTGGGCTCAGTGCAGACGTCCTGTGGGATCGGCTCCAGTCCGTCAG  
 GGAAGTTGCAGCAACCCGGCGCCCGCCATGGGGCCGCAATTTGGTGGGCAAGAGCCGGAGGAGCGGT  
 TCTGTAATGAAAATACACCTTGCCAGTGCCATCTTCTGGGCTTCTGGGGTTCCTGGAGCAAGTGCAG  
 CAACAACGTGGAGGCGGCGTGCAGTCCGACGCGCTTCTTGCAGAAATGGCAACTCGTGCCCGGTTGC  
 GGCGTGGAGTTCAAGACCTGCAACCCCGAGGCTTGCCCGAAGTGCAGCAACACACCTGGACGCCCT  
 GGCTGCCCGTGAACGTGACCCAGGGTGGAGCGCCAGGAGCAGCGATTCCGCTTCACTGCCGCGCGCC  
 GCTGCCGACCCGACGGTCTGCAGTTCGGCAAGAGGAGGACAGAGACCAGGACTTGCCCGCAGACGGC  
 ACCGGAGCCTGCGACACCGACGCCCTGGTGGAGGATCTCTGCGCAGCGGGAGCACGTACCACACACTC  
 TGAACGGAGGCTGGGCCACTGGGGCCCGTGGTATCCTGCTCCGGGACTGCGAGCTGGGCTCCGCGT  
 CCGCAAGAGAACTTGTACCAACCCGAGCCTCGCAACGGGGCTTGCCCTGCGTGGGAGACGCTGCGGAG  
 TACCAAGACTGCAACCCACAGGCTTGCCAGTGCGGGGTCTTGGTCTGCTGGACCGCATGGTCCCACT  
 GCTCAGCATCCTGCGGTGGTGGCCACTATCAACGCACCCGTTCTTGCACACGCCCGCCCATCCCAGG  
 TGAGGACATCTGCCTCGGCCTGCACACGGAGGAGGCCCTATGTTCAACACAGGCCTGCCAGAAAGCTGG  
 TCACTGTGGTCTGAGTGGGGTGTCTGCACTGAGGATGGGGCCAGAGCCGGAGCCGGAGCTGTGAGGAGC  
 TTCTCCAGGACCCAGGTGCCTGTGTTGGCAACAGCAGCCAGAGCCGGCCCTGCCCTACAGTGAGATTCC  
 TGTCATCTACCTGCTCCAGTGTGGAGGAGACCACAGCTGTGGAGGTTCAATCTCATCCACCTGATA  
 GTCAGTGGTGTCTCTGCTTCTGGTCTTGGCTCTTACCTTGGCAGTGTACCTGTCTTGCAGCACT  
 GCCAGCCAGTCTCAGGAGTCCACGCTGTCCATCCTGCCACACCTAACCACTTGCATCAAGAGGTTGG  
 GGCACCCCAAGAATGAGAAGTACACCCCTATGGAATCAAGACACTGAACAAGAACAATAATCCCT  
 GATGACAGAGCCAACTTCTACCCACTGCAGCAGACCAATGTGTATACAACCACGTAACCCAGCCAC  
 TGAACAAGCCAGCTTCCGGCCTGAGGCCTCACCTGGACAGCGCTGTTTCCCAACAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG216182 representing NM\_013661  
 Red=Cloning site Green=Tags(s)

MVVPGLALSLLLSSLTLLVSHLSSSQDIASESSSEQMCTRREHPIVAFEDLKPWFNFYTPGVRDFSQ  
 LALDPSRNQLIVGARNYLFRLSLANVSLQATEWASSEDTRRSCQSKGKTEECQNYVRVLIIVSGRKVFM  
 CGTNAFSPVCSRRQVGNLSRTIEKINGVARCPYDPRHNSTAVISSQEL YAATVIDFSGRDPAIYRSLGS  
 GPPLRTAQYNSKWLNEPNFVAAFDIFLFAFYFLRENAVEHDCGRTVYSRVARVCKNDVGGRFLEDTWTT  
 FMKARLNC SRPGEVFPFYNELQSAFHLPEQDLIYGVFTTNVNSIAASAVCAFNL SAISKAFNGPFRYQEN  
 PRAAWLP IANP IPNFQCGTLPETGPNENL TERSLQDAQRLFLMSEAVQPVTPEPCVTQDSVRF SHLVVDL  
 VQAKDTLYHVL YIGTESGTLKALSTASRLRGCYLEELHVLPPGRLEPLRSLRILHSARALFVGLSDRV  
 LRVPLERCSAYHSQGA CLGARDPYCGWDGKRQLCSTLEDSSNMSLWIQNIITCPVRNVTRDGGFGPWSWP  
 KPCEHL DGDNSG SCLCRARSCDSPRPRCGLECLGPSIHIANCSRNGAWTAWSSWAQCSTSCGIGFQVRQ  
 RSCSNPAPRHGGRICV GKSREERFCNENTPCPVP IFWASWGSWSKCSNCCGGGVQSRRRSCENGN SPCGC  
 GVEFKTCNPEACPEVRRNTPWTPWL PVNVTQGGARQEQRFRFTCRAPLPDPHGLQFGKRRTETRTCPADG  
 TGACD TDALVEDLLRSGTSPHTLNGGWATWGPWSSSRDCELGFRVRKRTCTNPEPRNGGLPCVGDAAE  
 YQDCNPQACPV RGAWSWTAWSQCSASC GGHYQRTR SCTSPAPSPGEDICLGLHTEALCSTQACPEGW  
 SLWSEWGVCTEDGAQSRSRSC EELLPGPGACVGNSSQSRPCPYSEIPVILPASSVEETSCGGFNL IHLI  
 VTGVSCFLVSGLLT LAVYLSQC HQRSQESTLVHPATPNHLHYKGGGTPKNEKYPMEFKTLNKNLIP  
 DDRANFYPLQQTNYVYTTTYPSP LNKPSFRPEASPGQRCFPNS

TRTRPLE – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_013661.2</a></u> , <u><a href="#">NP_038689.2</a></u>
<b>RefSeq Size:</b>	4556 bp
<b>RefSeq ORF:</b>	3282 bp
<b>Locus ID:</b>	20357
<b>UniProt ID:</b>	<u><a href="#">Q60519</a></u>
<b>Cytogenetics:</b>	16 B3
<b>Gene Summary:</b>	May act as positive axonal guidance cues.[UniProtKB/Swiss-Prot Function]