

Product datasheet for **MR208910**

Sema5a (BC065137) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sema5a (BC065137) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sema5a
Synonyms:	5930434A13, semF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208910 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGGGAGCCTGCATCCTTGCATGGCTGTTCTCAAGCCTGGGAGTGTGGAGACTTGCTAGGCCGAGA
 CCCAGGACCCTGCCAAGTGCCAGAGAGCTGAGCACCCCTGTCGCTCTTACAAAGAAATTGGCCCCTGGTT
 ACGGGAGTTCAGAGCCGAGAATGCTGTGGATTTCTCGAGGTTAACATTTGACCCAGGACAGAAAAGAACTT
 GTCGTAGGAGCGAGAAACTATCTTTCAGATTAGAGCTTGAGGATCTGTCTCTCATCCAGGCTGTGGAGT
 GGGAGTGTGACGAAGCCACCAAGAAGGCCTGTTACAGCAAGGGCAAATCGAAGGAGGAATGTCAGAACTA
 CATACGAGTGTCTTAGTTGGTGGGACCCGCTATTACCTGTGGGACCAATGCCTTCACACCTGTCTGT
 ACCATCCGCTCGTTAAGTAACCTGACTGAGATCCATGATCAGATCAGTGGCATGGCCCGCTGTCCCTACA
 GTCCCCAGCACAATTCTACCGCCCTACTACTGCCAGTGGTGGCTCTATGCTGCAACAGCCATGGATTT
 CCCAGGGCGAGATCCAGCCATTTACCGAAGTCTGGGCACCTTGCCTCCTCTTCGAACTGCACAGTACAAC
 TCCAAATGGCTCAATGAACCAAACCTTTGTGTCTTCTACGACATCGGAAATTTACCTACTTCTTCTTCC
 GAGAAAACGCGCTGGAACATGACTGTGGGAAGACGGTGTCTCCAGGGCTGCCCGGGTCTGTAAAAATGA
 CATTGGAGGGCGATTTCTTCTGGAGGACACCTGGACTACCTTCATGAAGGCTCGCCTCAACTGCTCCCGG
 CCTGGTGAAGTGCCTTCTACTACAATGAGCTGCAGGGTACTTTCTTCTGCCGGAGCTGGATCTGATCT
 ATGGTATCTTACCACCAATGTAACAGCATCGCTGCCTCTGCTGTCTGTCTTCAACCTGAGCGCCAT
 CTCACAGGCCCTCAATGGACCCTCAAGTACCAAGAAAACCTCTCGCTCAGCCTGGCTGCCTATCCCAAC
 CCCAACCCCAATTTTCAGTGGCGCACCATGGACCAGGGCCTGTACGTAACCTGACGGAAGAAAACCTAC
 AGGATGCTCAGAAGTTCATTCTGATGCATGAAGTGGTGCAGCAGTGACCACAGTGCCTCTTTTCATGGA
 GGACAACAGCCGCTTCTCCCACTTAGCTGTTGATGTTGTGCAAGGCAGGGAGACTCTGGTCCACATCATT
 TATCTGGCCACAGATTATGGCACCATTAAGAAAGTACGAGCTCCCTGAGTCAGAGCTCAGGCAGCTGTT
 TGCTGGAAGAGATTGAGCTTTTCCAGAGAGGAGGAGTGAAGCCATCAGGAGCCTGCAGATCCTCCACAG
 CCAGAGTGTCTATTTGTGGGACTACAGGAGCATGTGGCCAAGATCCCCCTGAAGAGGTGCCACTTCCAT
 CAAACACGCAAGTGCCTGCATTGGCGCTCAGGACCCTTACTGTGGCTGGGATGCGGTGATGAAGAAATGCA
 CCAGCCTGGAGGAGTCTGAGCATGACCCAGTGGGATCAGAGCATCCCCACCTGTCCGACCAGAAATCT
 CACTGTAGATGGGAGCTTTGGCCATGGTCACCGTGGACACCCTGTACACACTGATGGCATCTGGCT
 GGTGTG

ACGCGTACGCGGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208910 protein sequence
 Red=Cloning site Green=Tags(s)

MKGACILAWLFSSLGVWRLARPETQDPKACQRAEHPVVSYKEIGPWLREFRAENAVIDFSRLTFDPGQKEL
 VVGARNYLFRLELEDLSLIQAVEWECDEATKKACYSKSKSKEECQNYIRVLLVGGDRLFTCGTNAFTPVC
 TIRLSNLTETIHDQISGMARCPYSPQHNSALLTASGELYAATAMDFPGRDPAIYRSLGTLPLRLTAQYN
 SKWLNPNFVSSYDIGNFTYFFRENAVEHDCGKTVFSRAARVCKNDIGGRFLLEDTWTFMKARLNCSR
 PGEVPHYNELQGTFFLPELDLIYGIFFTNNVNSIAASAVCVFNLSAISQAFNGPFKYQENSRSAWLPYPN
 PNPNFQCGTMDQGLYVNLTERNLQDAQKILMHEVVQPVTVPFSFEDNSRFSLAVDQVQGRETLVHII
 YLATDYGTIKKVRAPLSQSSGSCLLEEIELFPERRSEPIRSLQILHSQSVLQVGLQEHVAKIPLKRCHF
 QTRSACIGAQDPYCGWDAVMKCTSLSEESLSMTQWDQSIPTCPTRNLTVDGSFGPWPWPCTHTDGIWA
 GV

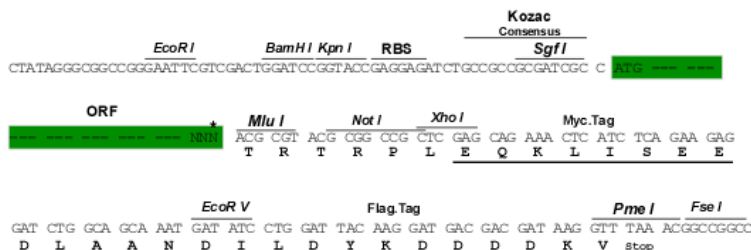
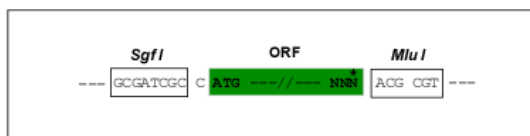
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC065137

ORF Size: 1686 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: [BC065137](#), [AAH65137](#)
RefSeq Size: 4259 bp

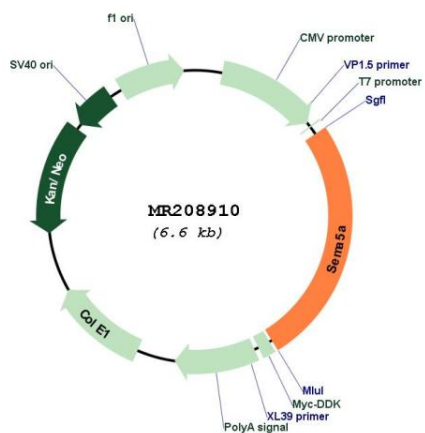
RefSeq ORF: 1688 bp

Locus ID: 20356

Cytogenetics: 15 13.02 cM

MW: 63.4 kDa

Product images:



Circular map for MR208910