

Product datasheet for **MR224118**

Sema6c (NM_011351) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sema6c (NM_011351) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sema6c
Synonyms:	mKIAA1869; Semay
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR224118 representing NM_011351
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCCGTGCCCCCACTCCATGCCCTGCTGCTCCTGTGCTGTTGCTGTCATCGCTCCCCAAGCCC
 AGGCTGCCTTTCCCAGGACCCACCCCTCTGTTGACCTCTGACCTTCAAGGTGCCTCTCCATCCTG
 GTTCCGGGGCTGGAGGACGATGCTGTGGCTGCGAACTTGGGCTGGACTTTCAGAGATTCTGACCTTG
 AACCGGACCTTGCTTGTGGCTGCCCGGGATCACGTTTTCTCCTTCGATCTTCAAGCCCAAGAAGAAGGGG
 AGGGGCTGGTGCCCAACAAGTTTCTGACATGGAGGAGTCAAGATATGGAGAACTGTGCAGTCCGGGGAAA
 GCTGACGGACGAATGCTACAACATACATCCGTGTTCTTGTCCCTGGAACCTGCAGACACTTCTTGCTGT
 GGAACAAATTCCTCAGCCCTATGTGCCGAGCTATGGGATAACATCTCTGCAACAGGAGGGTGAGGAGC
 TGAGTGGGAGGCTCGATGCCCTTTGATGCCACCCAGTCCACTGTGCCATCTTTGAGAGGGCAGTTT
 GTACTCAGCCACAGCAGAGATTTCCAGGCCAGTGTGTGTAGTTTACAGAAGTCTTGACCTCAGCCT
 CCACTCCGTTCTGCAAAGTATGACTCCAAGTGGCTTCGAGAGCCACACTTTGTCTATGCGTTGGAGCATG
 GAGAGCACGTCTACTTCTTCCGAGAAGTCTGTGGAGGATGCCCGCTTAGGGAGGGTGCAATTTTC
 CAGGGTAGCCCGGTATGTAACAGTGACATGGGTGGCTCACCTCGGGCTTGGATCGCCACTGGACATCC
 TTCTTAAGCTGAGGCTCAACTGCTCTGTCCCTGGGACTCTACCTTCTACTTTGACGCTTACAGTCTCT
 TAACTGGGCTGTGAACCTGCATGGCCGCTCCGCTCTCTTTGGGGTCTTCACTACTCAGACCAATAGCAT
 TCCTGGGTCTGCAGTCTGCGCTTCTACCTAGATGATATTGAACGTGGCTTTGAGGGCAAGTTCAAGGAG
 CAGAGGAGTCTGGATGGGGCTGGACTCCTGTGTCTGAGGACAAGTCCCCTCACCCAGGCCAGGGTCTCT
 GTGACGTGTGGGTGCAGTGCCTCGTTCTCCTCTCAAGACCTACCTGATGATGTCTCTTTCAT
 CAAGGCACACCCGCTGCTGGATCCTGCTGTGCCACCCGCCACCCATCAACCGCTCCTCACTCTGACTAGC
 AGGGCCCTGCTGACCCAGGTAGCTGTGGACGGAATGGCTGGTCCCCACAGAAATACTACTGTCTGTTTC
 TTGGCTCCAACGATGGGACAGTGTGAAGGTGCTACCTCCAGGGGGTCACTCTTTGGGCTGTGAGCCTAT
 CGTCTTGAAGAGATTGATGCCTACAGCCATGCCCGGTGCAGTGGGAAGCGGTACCCCCGAGCTGCGCGG
 CGGATCATAGGGCTGGAGCTGGACTGAGGGTACAGGCTTTTTGTGGCCTTCTCTGGATGATCGTCT
 ACCTCTCTCTCAGCCGGTGTGCCCGCATGGAGCATGTCAGAGGAGCTGCCTGGCTTCTCTGGACCCATA
 CTGTGGATGGCATCGATCCAGAGGCTGCATGAGTATCAGGGGACCTGGTGGGACTGATGTCGATCTGACT
 GGAACACAGGAATCCACAGAGCACGGTACTGCCAAGATGGAGCGACCGGAGTCACTGTGCCCTGGAG
 ATTCTGCTTATGGCGTGGCAGGGACCTTTCCCAGCCTCAGCCTCCCGATCCATTCCCATCCCCTCTCT
 CCTGGCCTGTGTGGCCGCGGCCTTCGCTTTGGGCGCCTCAGTCTCCGGTCTCTTGGTGTCTGTGCTTGT
 CGTCGCGCAACCGCCGTCGGAGCAAGGACATCGAGACCCCGGGGCTGCCGCGCCCCCTCTCCCTTCGCA
 GCCTGGCCCGGCTGCACGGTGGCGGTCTGAGCCCCCGCTCCGCCAAGGATGGAGATGCAGCGCAAAAC
 GCCCAGCTCTACACTACCTTCTGCCTCCGCCGACGGCGGATCCCCACCGGAGCTGGCCTGCCTACCC
 ACGCCGGAGACGACGCCCGAGCTGCCCGTGAAGCACCTCCGTGCCTCCGGGGGCCCTGGGAATGGAACC
 AGAATGGGAACAACGCCCTCGGAGGGCCAGGCCGCCACCACGGGGTGCAGCGGGCGGGCGGGCCCGC
 ACCGCGAGTGTGGTGGGACCCGCCCTGGCTGCCCGGGCAGGCGGTAGAGGTGACCACGCTGGAG
 GAACTGCTGCGCTACCTGCACGGCCCTCAGCCGCCAGGAAGGTAGCGAACCTCTGCTCCTCCGCCCGT
 TCACTCCCGGCCGCGCCCTCGGAGCCGCGCCTCGCTGTTCTGTGACTCCAGCCGATGCCGCGGGA
 TGGCGTTCCGCCGCTCAGGCTCGACGTGCCACCCGAAGGCAAGCGCGCTGCCCGAGCGGGCGCCTGCT
 CTCTCGGCCCCAGCCCCGCGCTGGGTGTGGCGGCAGCCCGGATTGCCCTTTCCACACACCGGGCGC
 CCCCAGGCTGCTCAGCGAGTGCCTCGGAGGCCCGGCCAGGTAAGAGGGTGGACGTGAAGTCTCCGCTG
 CCTGTACTGGCCGCGCCGAAGCCATCGCGCCGCTCCCTGAAGAGGGTGGACGTGAAGTCTCCGCTG
 TCGCCCAAGCCGCCCTCGCTCCCGCCGACGCCCGCCCGCACGGTGGTCATTTCACTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR224118 representing NM_011351
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MPRAPHSMPLLLLLLLLLSSLPQAQAAPQDPTLLTSDLQGASPSWFRGLEDDAVAAELGLDFQRFLT
 NRTLLVAARDHVSFDLQAQEEGEGLVNPKFLTWRSDMENC AVRGLTDECYNYIRVLVPWNSQTL
 LACGTNSFSPMCRSYGITSLQQEGEELSGQARCPFDATQSTVAIFAEGSLYSATAADFQASDAV
 VYRSLGPQPLRS AKYDSKWLREPHFVYALEHGEHVYFFREVSVEDARLGRVQFSRVARVCKRDM
 GGS PRALDRHWTSFLKLRNLNCSVPGDSTFYFDVLQSLTGPVNLHGRSALFGVFTTQTN
 SIPGSAVCAFYLDDIERGFEGKFKEQRSLDGAWTPVSEDKVPSRPGSCAGVGAASFS
 SSSQDLPDDVLLFIKAHPLLDPAVPPATHQPLLTLSRALLTQVAVDGMAGPHRNTTVLFL
 GSN DGTVLKVLPPGGQSLGSEPIVLEEIDAYSHARCSGKRSRAARRIIGLELDTEGHRLF
 VAFPGCIVYLSLRCARHGACQRSCLASLDPYCGWHRSRGCM SIRPGGTDVLTGNQESTEH
 GDCQDGATGSQSGPGDSAYGVRRDLSPASASRSIPIPLLLACVAAAFALGASVSGLLVSCAC
 RRANRRRSKDIETPLRPLSLRSLARLHGGGPEPPPPKDGAAQTPQLYTTFLPPDGGSPPE
 LACLP TPETTPELPVKHLRASGGPWEWNQNGNASEGPRPPRGCSGAGGPAPRVLVRPPPPG
 CPGQAVEVTLE ELLRYLHGPQPPRKGSEPLASAPFTRPPASEPGASLFDVSSPMPRDGV
 PPLRLDVPPEGKRAAPSGRPA LSA PAPRLGVGSRRLPFPTHRAPPGLL TRVPSGGPAR
 YSGGPGRHLLYLGRPEGHRGRSLKRVDVKSP LSPKPPLASPPQAPHGHHFN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9049_f02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



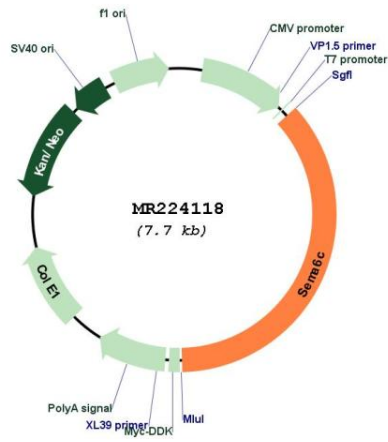
* The last codon before the Stop codon of the ORF

ACCN: NM_011351

ORF Size: 2793 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_011351.2 , NP_035481.1
RefSeq Size:	2843 bp
RefSeq ORF:	2796 bp
Locus ID:	20360
UniProt ID:	Q9WTM3
Cytogenetics:	3 F2.1
MW:	100 kDa
Gene Summary:	May be a stop signal for the dorsal root ganglion neurons in their target areas, and possibly also for other neurons. May also be involved in the maintenance and remodeling of neuronal connections (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224118