

Product datasheet for **MR231436**

Sema6c (NM_001272024) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sema6c (NM_001272024) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sema6c
Synonyms:	mKIAA1869; Semay
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR231436 representing NM_001272024
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCGTGCCCCCACTCCATGCCCTGCTGCTCCTGCTGCTGTTGCTGTCATCGCTCCCCAAGCCC
 AGGCTGCCTTTCCCAAGACCCACCCCTCTGTTGACCTCTGACCTTCAAGGTGCCTCTCCATCATCCTG
 GTTCCGGGGCTGGAGGACGATGCTGTGGCTGCGAACTTGGGCTGGACTTTCAGAGATTCTGACCTTG
 AACCGGACCTTGCTTGTGGCTGCCCGGATCACGTTTTCTCCTTCGATCTTCAAGCCCAAGAAGAAGGGG
 AGGGGCTGGTGCCCAACAAGTTTCTGACATGGAGGAGTCAAGATATGGAGAACTGTGCAGTCCGGGGAAA
 GCTGACGGACGAATGCTACAACATACATCCGTGTTCTTGTTCCTGGAACCTGCAGACACTTCTTGCTGT
 GGAACAAATTCCTCAGCCCTATGTGCCGAGCTATGGGATAACATCTCTGCAACAGGAGGGTGAGGAGC
 TGAGTGGGAGGCTCGATGCCCTTTGATGCCACCCAGTCCACTGTGGCCATCTTTCAGAGGGCAGTTT
 GTACTCAGCCACAGCAGAGATTTCCAGGCCAGTGTGTGTAGTTTACAGAAGTCTTGACCTCAGCCT
 CCACTCCGTTCTGCAAAGTATGACTCCAAGTGGCTTCGAGAGCCACACTTGTCTATGCGTTGGAGCATG
 GAGAGCACGTCTACTTCTTCCGAGAAGTCTCTGTGGAGGATGCCCGCTTAGGGAGGGTGCAGTTTTTC
 CAGGGTAGCCCGGTATGTAACGTGACATGGGTGGCTCACCTCGGGCCTTGGATCGCCACTGGACATCC
 TTCCTTAAGCTGAGGCTCAACTGCTCTGTCCCTGGGGACTCTACCTTCTACTTTGACGCTTACAGTCTT
 TAACTGGGCTGTGAACCTGCATGGCCGCTCCGCTCTCTTTGGGGTCTTCACTACTCAGACCAATAGCAT
 TCCTGGGTCTGCAGTCTGCGCTTCTACCTAGATGATATTGAACGTGGCTTTGAGGGCAAGTTCAAGGAG
 CAGAGGAGTCTGGATGGGGCTGGACTCCTGTCTGAGGACAAGTCCCCTCACCCAGGCCAGGGTCTCT
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 CAAGGCACACCCGCTGCTGGATCCTGCTGTGCCACCCGCCACCCATCAACCGCTCCTCACTCTGACTAGC
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 ACCTCTCTCTCAGCCGGTGTGCCCGCATGGAGCATGTCAGAGGAGCTGCCTGGCTTCTCTGGACCCATA
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 GGAACCAAGGAATCCACAGAGCACGGTACTGCCAAGATGGAGCGACCGGGAGTCACTGTGCCCTGGAG
 ATTCTGCTTATGTGCTTCTGGGTCTGGCCCTTCCCCTGAGACCCCAAGTTCCCCAGTGTGCCCAACA
 AGGGCCCCAGTCTTCACTCTTGGAGCTCACACACAGGGCGTGGCAGGGACCTTTCCCCAGCCTCAGCC
 TCCCGATCCATCCCATCCCACTCCTCCTGGCCTGTGTGGCCGCGGCCCTTCGCTTTGGGCGCCTCAGTCT
 CCGGTCTCTTGGTGTCTGTGCTGTGCTGCGCGCAACCGCCGTGCGAGCAAGGACATCGAGACCCCGGG
 GCTGCCGCGCCCCCTCTCCCTTCGCAGCCTGGCCCGGTGCACGGTGGCGGTCTGAGCCCCGCTCCG
 CCCAAGGATGGAGATGCAGCGCAACGCCCCAGCTTACACTACCTTCTGCCTCCGCCCCGACGGCGGAT
 CCCACCGGAGCTGGCCTGCCTACCCACGCCGGAGACGACGCCCGAGCTGCCCGTGAAGCACCTCCGTGC
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 TAGCGAACCTCTCGCTCCGCCCGTTACCTCCCGGCCCGCCGCTCGGAGCCCGGCGCTCGCTGTTT
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 ATTGCCCTTTCCACACACCGGGCGCCCCGGCCTGCTCAGCGAGTGCCTCGGGAGGCCCGGCCAGG
 TACTCCGGGGGGCCGGAGGCACCTCCTGTACCTGGGCCGCCCGAAGGCCATCGCGGCCGCTCCCTGA
 AGAGGGTGGACGTGAAGTCTCCGCTGTGCCCAAGCCGCCCTCGCTCCCCGCCGAGCCCGCCCGCA
 CGGTGGTCATTTCACTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231436 representing NM_001272024
 Red=Cloning site Green=Tags(s)

MPRAPHSMPLLLLLLLLLSSLPQAQAAFPQDPTLLTSDLQGASPSWFRGLEDDAVAAELGLDFQRFLTL
 NRTLLVAARDHVFSFDLQAQEEGGLVPNKFLTWRSQDMENCAVRGKLTDECYNYIRVLVPWNSQTLAC
 GTNSFSPMCRSYGITSLQQEGEELSGQARCPFDATQSTVAIFAEGSLYSATAADFQASDAVVYRSLGPQP
 PLRSKAYDSKWLREPHFVYALEHGEHVYFFREVSVEDARLGRVQFSRVARVCKRDMGGSPRALDRHWTS
 FLKLRNLNCSVPGDSTFYFDVLQSLTGPVNLHGRSALFGVFTTQNSIPGSAVCAFYLDDIERGFEGKFKE
 QRSLDGAWTPVSEDKVPSRPGSCAGVGAASFSSQDLRDDVLLFIKAHPLLDPAVPPATHQPLLTLS
 RALLTQVAVDGMAGPHRNTTVLFLGSNDGTVLKVLPDGGQSLGSEPIVLEEIDAYSHARCSGKRSPRAAR
 RIIGLELDTEGHRLFVAFPGCIVYLSLRCARHGACQRSCLASLDPYCGWHRSRGCM SIRPGGTDVLT
 GNQESTEHGDCQDGATGSQSGPDSAYVLLGPGSPETPSSPSDAQQGPQSSTLGAHTQGVRRDLSPASA
 SRSIPIPLLLACVAAAFALGASVSGLLVSCACRRANRRRSKDIETPLRPLSLRSLARLHGGGPEPPPP
 PKDGDAAQTPQLYTTFLPPPDDGSPPELACLPTPETTPEL PVKHLRASGGPWEWNQGNNASEGPRPPR
 GCSGAGGPAPRVLVRPPPPGCPGQAVEVTTLELLRYLHGPQPPRKGSEPLASAPFTRPPASEPGASLF
 VDSSPMPRDGVPLRLDVPPEGKRAAPSRPALAPAPRLGVGGSRRLLPFPTHRAPPGLLTRVPSGGPAR
 YSGGPGRHLLYLGRPEGHRGRSLKRVYKSPKPLASPPQAPHGHHNF

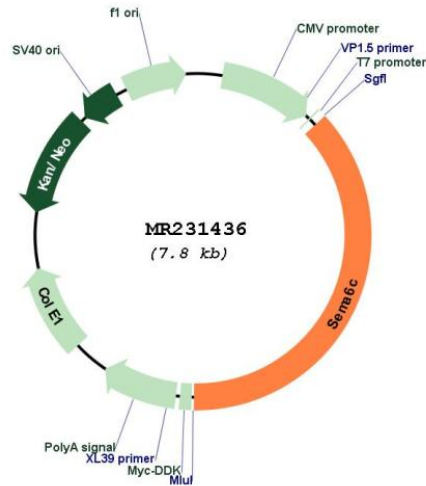
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001272024

ORF Size: 2889 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_001272024.1](#), [NP_001258953.1](#)

RefSeq Size: 4140 bp

RefSeq ORF: 2892 bp

Locus ID: 20360

UniProt ID: [Q9WTM3](#)

Cytogenetics:	3 F2.1
MW:	103.1 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]