

Product datasheet for **RR214271**

Sema6c (NM_017308) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sema6c (NM_017308) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sema6c
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR214271 representing NM_017308
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCCGTGCCCCCACTCCATGCCCTTGCTGCTGCTGTGCTGCTGCTACTCCCCAAGCCAGACTG
 CCTTCCCGAGGACCCCATCCCTCTGTTGACCTCTGACCTACAAGGTACCTCTCCGTCATCCTGGTTCCG
 GGGCCTGGAGGACGATGCTGTGGCTGCGGAACCTGGGCTGGACTTTCAGAGATTCCTGACCTTGAACCGG
 ACCTTGCTGTGGCTGCCCGGGATCACGTTTTCTCCTTCGATCTTCAAGCCCAAGAAGAAGGGGAGGGGC
 TGGTGCCCAACAAGTTTCTGACATGGCGGAGCCAAAGACATGGAGAATTGTGCTGTCCGGGAAAGCTGAC
 GGACGAATGCTACAACACTACATCCGTGTTCTTGTCCCTGGGACTCGCAGACACTCCTTGCCTGTGGAACA
 AATTCCTTCAGCCCTGTGTGTCGACGATGGGATAACATCTCTGCAACAGGAGGGTGAGGAGCTGAGTG
 GGCAAGCTCGATGCCCTTTGATGCCACCCAGTCCACTGTGCCATCTCTGCAGAGGGTAGTTTGTACTC
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 CGTTCTGCAAAGTATGACTCCAAGTGGCTTCGAGAGCCACACTTTGTCTATGCTTTGGAGCATGGAGACC
 ATGTCTACTTCTTCTCCGAGAAGTCTCTGTGGAGGACGCCCGCCTGGGAGGGTGCAGTTTTCCCGGGT
 GGCCCGGGTGTGTAACGTGACATGGGTGGCTCACACGGGCCTTGGATCGCCACTGGACATCCTTCCTT
 AAGCTGAGGCTCAACTGCTCCGTCCTGGGACTCTACCTTCTACTTTGATGTCTTACAGTCCTTAACTG
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 AGTCTGGATGGGCGCTGGACTCCTGTGTCTGAGGACAAAGTCCCTCACCCAGGCCAGGGTCTGTGCAG
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 ACACCCACTGCTGGATCCCGCTGTGCCACTGCCACCCATCAACCTCTCCTCACTCTGACTAGCAGGGCT
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 CCAATGATGGGACAGTGTGAAGGTGCTACCTCCAGGGGACAGTCTCTGGGACCCGAGCCTATCATATT
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 CTCTCAGCCGCTGTGCCCGCATGGAGCATGTGAGGAGCTGCCTGGCTTCTTGGACCCATACTGTGG
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 CAGTCTTCCACTCTTGGAGCTCACACTCAGGGCGTGCGCAGGGACCTTCCCCAGCCTCAGCCTCCCGA
 TCCATCCCATCCCACTCCTCCTGGCCTGTGTGGCGCGGCCCTTCGCTTTGGGCGCCTCAGTCTCCGGCC
 TCTTGGTGTCTGTGCTGTGCTGCGCGAACCGCCGTCCGGAGCAAGGACATCGAGACCCCGGGGCTGCC
 GCGCCCCCTCTCCCTTCGAGTCTGGCGAGGCTGCACGGTGGCGGTCTGAGCCCCCGCCTCCGCCCAAG
 GATGGTATGCAGCGCAAACGCCCAAGCTCTACACTACCTTCTGCTCCGCCGAGGGCGGATCCCCAC
 CGGAGCTGGCTGCCTGCCACCCCGGAGACCAGCCCGAGCTGCCGGTGAAGCACCTCCGTGCCTCCGG
 GGGTCCCTGGGAGTGAACCCAGAACCGGAACAACGCTTCGGAGGGCCAGGCCGCCACGGGGCTGCAGC
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 AGGTGACCACGCTGGAGGAACTGCTGCGTACCTGCACGGCCCGAGCCGCCAGGAAGGGCAGCGAACC
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 GGGCCCGGAGGACCTCTGTACTGGCCGGCCGACGGCCACCGCGCGCTCCTGAAGAGGGTGG
 ACGTGAAGTCTCACTGTGCCCCAACCCGCCCTCGCCACACCGCCGAGCCCGCCCGCACGGCAGCCA
 TTTAACTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR214271 representing NM_017308
 Red=Cloning site Green=Tags(s)

MPRAPHSMPLLLLLLLLSLPQAQTAFPQDPIPLL TSDLQGTSPSSWFRGLEDDAVAAELGLDFQRFLTLNR
 TLLVAARDHVFSFDLQAQEEGGLVFNKFLTWRSQDMENCAVRGKLTDECYNYIRVLVPWDSQTLACGT
 NSFSPVCRSYGITSLQQEHEELSGQARCPFDATQSTVAISAEGSLYSATAADFQASDAVVYRSLGPQPPL
 RSAKYDSKWLREPHFVYALEHGDHVVYFFREVSVEDARLGRVQFSRVARVCKRDMGGSRALDRHWTSL
 KLRLNCSVPGDSTFYFDVLQSLTGPVNLHGRSALFGVFTTQTNSIPGSAVCAFYLDDIERGFEGKFKEQR
 SLDGAWTPVSEDKVPSRPGSCAGVGAALFSSSQDLPDDVLLFIKAHPLLDPVPPATHQPLLTLTSRA
 LLTQVAVDGMAGPHRNTTVLFLGSNDGTVLKVLPPGGQSLGPEPIILEEIDAYSHARCSGKRSPRAARRI
 IGLELDTEGHRLFVAFPGCIVYLSLRCARHGACQRSCLASLDPYCGWHRFRGCVNIRGPGGTDVDLTGN
 QESMEHGDCQDGATGSQSGPGDSAYVLLGPGSPETPSSPSDAHGPQSSTLGAHTQGVRRDLSPASASR
 SIPIPLLLACVAAAFALGASVGLLVSCACRRANRRRSKDIETPGLPRPLSLRSLARLHGGGPEPPPPPK
 DGDAAQTPQLYTTFLPPPEGGSPELACLPTPETTPEL PVKHLRASGGPWEWNQNGNNASEGPRPRGCS
 AAGGPAPRVLVRPPPGCPGQEVVTTLEELLRYLHGPQPPRKGSEPLASAPFTSRPPASEPGAALFVDS
 SPMPRDCVPLRLDVPDGKRAAPSGRPALSAPAPRLGVSGRRLPFPTHRAPPGLLTRVPSGGPSRYSG
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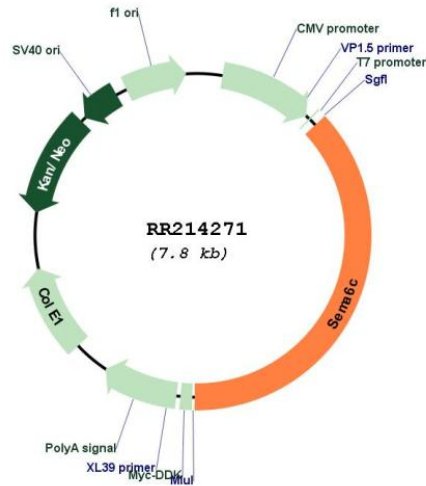
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_017308

ORF Size: 2880 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_017308.1](#), [NP_059004.1](#)

RefSeq Size: 3272 bp

RefSeq ORF: 2883 bp

Locus ID: 29744

UniProt ID: [Q9WTL3](#)

Cytogenetics: 2q34
MW: 102.6 kDa
Gene Summary: shows growth cone collapsing activity and is involved in axonal guidance [RGD, Feb 2006]