

## Product datasheet for **RR214586**

### Sema3e (NM\_001106579) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sema3e (NM_001106579) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sema3e
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide  
Sequence:

>RR214586 representing NM\_001106579  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCACCGACCGACACATCCTCACCTTGCTGCTCTGGGGTCACCTGCTGGAGCTCTGGACCCAGGTT  
ACACTGCGAACCCCTCCTATCCCAGGCTACGACTGTCTCATAAAGAAGCTTTGGAAGTGAACAGGACGTC  
AATATTTCAAAGCCCCTTTGGTTTTCTTGATCTCCACACAATGCTGCTGGATGAGTATCAAGAACGGCTC  
TTTGTGGGAGGCAGAGACCTTGCTATTCCCTGAACTTGAACCGCTCAGTGATGGCTACAGAGAGATAT  
ACTGGCCTAGCACAGCAGTAAAAGTAGAAGAATGCATAATGAAAGGAAAAGACGCAAAATGAGTGTGCCAA  
TTATGTCCGGTTTTGCATCACTACAACAGGACACACCTTCTGACCTGTGCTACGGGAGCCTTTGATCCA  
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AGAGAGGAAGGGCAGATGTCTTTGACCCCAACTCCTCTTTGTGTCCACACTAGTTGGTAATGAACT  
GTTTGTGGGCTCTACAGTGACTACTGGGGCCGAGACTCAGCGATCTTCCGACGCTGGGAAGCTCGGC  
CATATCCGCACCGAGCATGACGATGAGCGGCTGCTGAAAGAACCAAAATTTGTAGGTTTATATATGATTC  
CTGATAACGAAGACCCAGAGGACAACAAAATGTACTTCTTCTCACTGAGAAGGCATTGGAGGCAGAGAA  
CAATGCCACACGATCTACACCCGAGTGGGGCGGCTGTGCGTGAATGACATGGGAGGACAGAGAATCCTG  
GTGAATAAGTGGAGCACATTCCTCAAAGCACGGCTGGTTTGTCTCAGTACCAGGGATGAATGGAATTGACA  
CACACTTTGACGAATTAGAGGATGTGTTTTACTGCCTACCCGAGATCCCAAGAATCCAGTGATATTTGG  
GAAGCCTTTAATGGCCCATATGCACATAAAGAAGGCCCTGAATATCACTGGTCACTGTATGAAGGAAAG  
TCCCCTACCCAAGGCCTGGTTCTTGCCAGCAAAGTGAATGGAGGAAAGTACGGATCCACCAAAAGACTA  
CCCTGACGACGCCATCCGATTCGCAAGGATGCATCCACTAATGTATCAGCCCATAAAACCTGTCCATAAA  
AAACCAATACTGGTAAAACGGATGAAAATATAACCTGAGGCAACTAGCAGTGGACCGAGTGGAAAGCGG  
AGGATGGCCAGTATGACGTTTTATTTATTTGGAACAGACACAGGAATCGTGCTGAAAGTAATCACAATTTA  
CAACCAAGAAACAGAGTGGATGGAGGAAGTCACTTGGAGGAACCTCAAATATTCAAGGATCCAGCCCT  
ATCATTCTATGGAGATTTCTCAAAGAGGCAACAGCTCTATATTGGGTCAGCCTCTGCTGTGGCACAAG  
TCAGATCCATCACTGTGACATGTACGGCAGCGCCTGTGCTGACTGCTGCCTGGCTCGAGACCCTTACTG  
TGCCTGGGATGGTATCTCCTGCTCCAGGTAACCCGACAGGTGCACACTCAAAGAGGAGATCCGCAGG  
CAGGATGTTTCGGCACGGCAACGCCGCCAGCAGTGCTTTGGGCAGCAATTTGTGGGAGACGCTTTGGATA  
GGACTGAAGAGAGGCTGGCTTATGGCATAGAGAGCAACAGTACTTTGCTGGAATGCACCCACGATCACT  
ACAAGCAAAAGTTGTCTGGTTTTGTACAGAAGGGACGCGACGTAAGAAAAGGAAGAGGTAAGACGGATGAC  
AGAGTTGTTAAGATGGACTTGGGCTTGCTTCTCCTCAGAGTCCGCAAGTCGGATGCAGGGACCTACTTTT  
GCCAAACGGTAGAACATAGCTTCGTCCACACTGTGCGCAAAATCACCTTGGAGGTGGTCGAAGAGCATAA  
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GAGTGAAGAATACTGCGAAAAGGTGTGGTGTACAGATAAGAAGAGGAAAAAGCTGAAAAATGTCTCCCTC  
CAAGTGAAGTATGCCAACCCAGGAAAAGAGGCTTCGCTCCAAGCTGAGCATTTCGGCTGCCAGG  
CACACGCTGGTCTCT

**AGCGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
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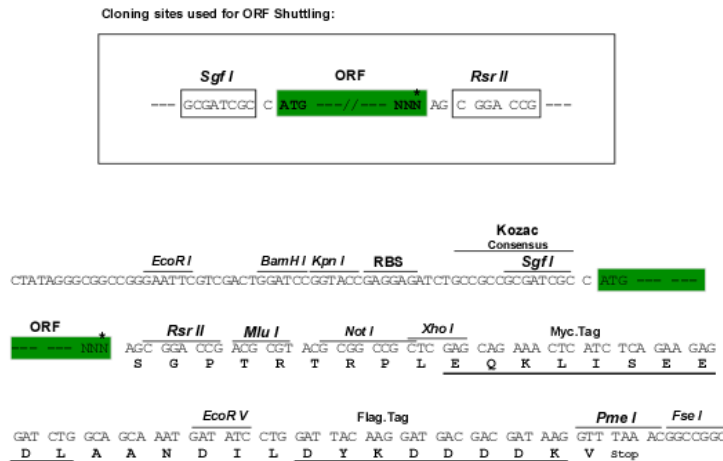
Protein Sequence: >RR214586 representing NM\_001106579  
 Red=Cloning site Green=Tags(s)

MAPTGHILTLLLWGHLELWTPGYTANPSYPRRLRSHKELLELNRTSIFQSPFGFLDLHTMLLDEYQERL  
 FVGGRLVYSLNLERVSDGYREIYWPSTAVKVEECIMKGDANECANYVRVLHHYNRTHLLTCATGAFDP  
 HCAFIRVGHHSSEDLFHLSEHRSEGRGRCPDFPNSSFVSTLVGNELFAGLYSDYWGRDSAIFRSLGKLG  
 HIRTEHDDERLLKEPKFVGSYMI PDNEDPEDNKMYFFFTEKALEAENNAHTIYTRVGRLCVNDMGGQRIL  
 VNKWSTFLKARLVCSVPMNGIDTHFDELEDVFLLPTRDPKNPVIFGLFNNTSNIFRGHAVCVYHMSSIR  
 EAFNGPYAHKEGPEYHWSLYEGKVPYPRPGSCASKVNGGKYGSTKDYPDDAIRFARMHPLMYQPIKPVHK  
 KPILVKTDGKYNLRQLAVDRVEAEDGQYDVLFIGTDTGIVLKVITIYNQETEWMEEVILEELQIFKDPAP  
 IISMEISSKRQQLYIGSASAVAQVRFHHCMDYGSACADCLARDPYCAWDGISCSSRYPTGAHSKRFRFR  
 QDVRHGNAQQCFGQQFVGDALDRTEERLAYGIESNSTLLECTPRSLQAKVWVFVQGRDVRKEEVKTD  
 RVVKMDLGLLFLRVRKSDAGTYFCQTVESFVHTVRKITLEVVEEHKVEGMFHKDREEEHHKMPCPPLT  
 GMSQGTKPWYKEFLQLIGYSNFQRVEEYCEKVWCTDKKRKCLKMSPSKWKYANPQEKRLRKAHFRLPR  
 HTLVS

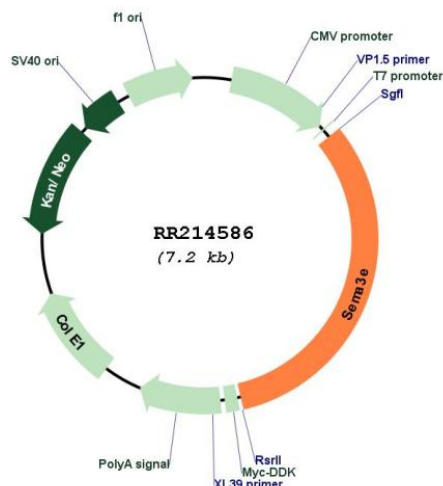
SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



\* The last codon before the Stop codon of the ORF

**Plasmid Map:**


**ACCN:** NM\_001106579

**ORF Size:** 2325 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\\_001106579.1](#), [NP\\_001100049.1](#)

**RefSeq Size:** 4476 bp

**RefSeq ORF:** 2328 bp

**Locus ID:** 296789

**Cytogenetics:** 4q12

MW: 89.5 kDa