

## Product datasheet for **RC230452**

### Semaphorin 3E (SEMA3E) (NM\_001178129) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Semaphorin 3E (SEMA3E) (NM_001178129) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Semaphorin 3E
Synonyms:	coll-5; M-SEMAH; M-SemaK; SEMAH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC230452 representing NM\_001178129  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCTGCTGGATGAATATCAAGAGAGGCTCTTCGTGGGAGGCAGGGACCTTGTATATTCCTCAGCTTGG  
AGAGAATCAGTGACGGCTATAAAGAGATACACTGGCCGAGTACAGCTCTAAAAATGGAAGAATGCATAAT  
GAAGGGAAAAGATGCGGGTGAATGTGCAAATTATGTTTCGGTTTTGCATCACTATAACAGGACACACCTT  
CTGACCTGTGGTACTGGAGCTTTTGATCCAGTTTGTGCCTTCATCAGAGTTGGATATCATTTGGAGGATC  
CTCTGTTTCACCTGGAATCACCCAGATCTGAGAGAGGAAGGGGCAGATGTCCTTTTGACCCAGCTCCTC  
CTTCATCTCCACTTAAATTGGTAGTGAATTGTTTGTGCTGGACTCTACAGTGACTACTGGAGCAGAGACGCT  
GCGATCTCCGCAGCATGGGGCAGTGGCCATATCCGCACTGAGCATGACGATGAGCGTCTGTTGAAAG  
AACCAAAATTTGTAGGTTACATCATGATTCCTGACAATGAAGACAGAGATGACAACAAAGTATATTTCTT  
TTTTACTGAGAAGGCACTGGAGGCAGAAAACAATGCTCACGCAATTTACACCAGGGTCGGCGACTCTGT  
GTGAATGATGTAGGAGGGCAGAGAATACTGGTGAATAAGTGGAGCACTTTCCTAAAAGCGAGACTCGTTT  
GCTCAGTACCAGGAATGAATGGAATTGACACATATTTTGTGAATTAGAGGACGTTTTTTTTGCTACCTAC  
CAGAGATCATAAGAATCCAGTGATATTTGGACTCTTAACTACCAGTAATATTTTTTCGAGGGCATGCT  
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AATACCACTGGTCAGTCTATGAAGGAAAAGTCCCTTATCCAAGGCCTGGTCTTGTGCCAGCAAAGTAAA  
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TGGAAATTGTGCTGAAAGTAATCACAATTTACAACCAAGAAATGGAATCAATGGAAGAAGTAATTCTAGAA  
GAACTTCAGATATTCAAGGATCCAGTTCCTATTATTTCTATGGAGATTTCTTCAAAGCGCAACAGCTGT  
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TGACTGCTGCCTGGCTCGAGACCCTTACTGTGCCTGGGATGGCATATCCTGCTCCCGGATTACCCAACA  
GGCACACATGCAAAAAGGCGTTTCCGGAGACAAGATGTTGACATGGAATGCAGCTCAGCAGTCTTTG  
GACAACAGTTTGTGGGGATGCTTTGGATAAGACTGAAGAACATCTGGCTTATGGCATAGAGAACAACAG  
TACTTTGCTGGAATGTACCCACGATCTTACAAGCGAAAGTTATCTGGTTTGTACGAAAGGACGTGAG  
ACAAGAAAAGAGGAGGTGAAGACAGATGACAGAGTGGTTAAGATGGACCTTGGTTTACTCTTCTAAGGT  
TACACAAATCAGATGCTGGGACCTATTTTGGCCAGACAGTAGAGCATAGCTTTGTCCATACGGTCCGTAA  
AATCACCTTGAGGTAGTGAAGAGGAGAAAGTCGAGGATATGTTTAAACAGGACGATGAGGAGGACAGG  
CATCACAGGATGCCTTGTCTGCTCAGAGTAGCATCTCGCAGGGAGCAAAACCATGGTACAAGGAATTCT  
TGCAGCTGATCGGTTATAGCAACTTCCAGAGAGTGAAGAATACTGCGAGAAAAGTATGGTGCACAGATAG  
AAAGAGGAAAAAGCTTAAATGTACCCTCCAAGTGAAGTATGCCAACCTCAGGAAAAGAGCTCCGT  
TCCAAACCTGAGCATTACCGCTGCCAGGCACACGCTGGACTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**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\\_001178129.1](#), [NP\\_001171600.1](#)

**RefSeq ORF:** 2148 bp

**Locus ID:** 9723

**UniProt ID:** [O15041](#)

**Cytogenetics:** 7q21.11

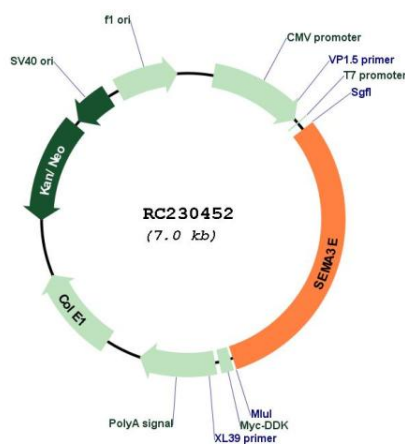
**Protein Families:** Secreted Protein

**Protein Pathways:** Axon guidance

**MW:** 82.9 kDa

**Gene Summary:** Semaphorins are a large family of conserved secreted and membrane associated proteins which possess a semaphorin (Sema) domain and a PSI domain (found in plexins, semaphorins and integrins) in the N-terminal extracellular portion. Based on sequence and structural similarities, semaphorins are put into eight classes: invertebrates contain classes 1 and 2, viruses have class V, and vertebrates contain classes 3-7. Semaphorins serve as axon guidance ligands via multimeric receptor complexes, some (if not all) containing plexin proteins. This gene encodes a class 4 semaphorin. This gene encodes a class 3 semaphorin. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2010]

### Product images:



Circular map for RC230452