

## Product datasheet for **SC329090**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Semaphorin 3E (SEMA3E) (NM_001178129) Human Untagged Clone
Tag:	Tag Free
Symbol:	Semaphorin 3E
Synonyms:	coll-5; M-SEMAH; M-SemaK; SEMAH
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001178129, the custom clone sequence may differ by one or more nucleotides

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ATGCTGCTGGATGAATATCAAGAGAGGCTCTTCGTGGGAGGCAGGGACCTTGATATTCC
CTCAGCTTGGAGAGAATCAGTGACGGCTATAAAGAGATACACTGGCCGAGTACAGCTCTA
AAAATGGAAGAATGCATAATGAAGGAAAAGATGCGGGTGAATGTGCAAATTATGTTCCG
GTTTTGCATCACTATAACAGGACACACCTCTGACCTGTGGTACTGGAGCTTTTGATCCA
GTTTGTGCCTTCATCAGAGTTGGATATCATTGGAGGATCCTCTGTTTTCACCTGGAAATCA
CCCAGATCTGAGAGAGGAAGGGCAGATGTCCTTTTGACCCAGCTCCTCCTTCATCTCC
ACTTTAATTGGTAGTGAATTGTTTGCTGGACTCTACAGTGACTACTGGAGCAGAGACGCT
GCGATCTTCCGCAGCATGGGGCGACTGGCCATATCCGCACTGAGCATGACGATGAGCGT
CTGTTGAAAGAACCAAAATTTGTAGGTTACATACATGATTCCTGACAATGAAGACAGAGAT
GACAACAAAGTATATTTCTTTTTACTGAGAAGGCACTGGAGGCAGAAAACAATGCTCAC
GCAATTTACACAGGGTCGGGCGACTCTGTGTGAATGATGTAGGAGGGCAGAGAATACTG
GTGAATAAGTGGAGCACTTTCTAAAAGCGAGACTCGTTTGCTCAGTACCAGGAATGAAT
GGAATTGACACATATTTTGTGAATTAGAGGACGTTTTTTGCTACCTACCAGAGATCAT
AAGAATCCAGTGATATTTGGACTCTTAACTACCAGTAATATTTTTCGAGGGCATGCT
ATATGTGTCTATCACATGTCTAGCATTCCGGCAGCCTTCAACGGACCATATGCACATAAG
GAAGGACCTGAATACCACTGGTCAGTCTATGAAGGAAAAGTCCCTTATCCAAGGCCTGGT
TCTTGTGCCAGCAAAGTAAATGGAGGGAGATACGGAACCAAGGACTATCCTGATGAT
GCCATCCGATTTGCAAGAAGTCACTCCACTAATGTACCAGGCCATAAAACCTGCCCATAAA
AAACCAATATTGGTAAAAACAGATGGAAAATAAACCTGAAACAAATAGCAGTAGATCGA
GTGGAAGCTGAGGATGGCCAATATGACGTCTTGTATTGGGACAGATAATGGAATTGTG
CTGAAAGTAATCACAATTTACAACCAAGAAATGGAATCAATGGAAGAAGTAATTTAGAA
GAACTTCAGATATCAAGGATCCAGTTCCTATTATTTCTATGGAGATTTCTTCAAAGCGG
CAACAGCTGTATATTGGATCTGCTTCTGCTGTGGCTCAAGTCAGATTCCATCACTGTGAC
ATGTATGGAAGTGCTTGTGCTGACTGCTGCCTGGCTCGAGACCCTTACTGTGCCTGGGAT
GGCATATCCTGCTCCCGGTATTACCAACAGGCACACATGCAAAAAGGCGTTTCCGGAGA
CAAGATGTTTCAGATGGAATGCAGCTCAGCAGTGCTTTGGACAACAGTTTGTGGGGAT
GCTTTGGATAAGACTGAAGAACATCTGGCTTATGGCATAGAGAACAACAGTACTTTGCTG
GAATGTACCCACGATCTTTACAAGCGAAAGTTATCTGGTTTGTACAGAAAGGACGTGAG
ACAAGAAAAGAGGAGGTGAAGACAGATGACAGAGTGGTTAAGATGGACCTTGGTTTACTC
TTCTTAAGGTTACACAAATCAGATGCTGGGACCTATTTTTGCCAGACAGTAGAGCATAGC
TTTGTCATACGGTCCGTAATAACCTTGGAGGTAGTGGAAAGAGGAGAAAGTCCGAGGAT
ATGTTTAAACAAGGACGATGAGGAGGACAGGCATCACAGGATGCCTTGTCTGCTCAGAGT
AGCATCTCGCAGGGAGCAAAACCATGGTACAAGGAATCTTGCAGCTGATCGGTTATAGC
AACTTCCAGAGAGTGAAGAATACTGCGAGAAAGTATGGTGCACAGATAGAAAGAGGAAA
AAGCTTAAATGTCACCTCCAAGTGAAGTATGCCAACCTCAGGAAAAGAAGCTCCGT
TCCAAACCTGAGCATTACCGCTGCCAGGCACACGCTGGACTCCTGA

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- Restriction Sites:** Please inquire
- ACCN:** NM\_001178129
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001178129.1, NP_001171600.1</u>
<b>RefSeq Size:</b>	5993 bp
<b>RefSeq ORF:</b>	2148 bp
<b>Locus ID:</b>	9723
<b>UniProt ID:</b>	<u>O15041</u>
<b>Cytogenetics:</b>	7q21.11
<b>Protein Families:</b>	Secreted Protein
<b>Protein Pathways:</b>	Axon guidance
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>