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Product datasheet for SC102888

Semaphorin 3E (SEMA3E) (AK021753) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Semaphorin 3E (SEMA3E) (AK021753) Human Untagged Clone
Tag:	Tag Free
Symbol:	Semaphorin 3E
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>NCBI ORF sequence for AK021753, the custom clone sequence may differ by one or more nucleotides

ATAAATTAAACTTTATCATGGGTATGTATATAGGAAAAAATAATAGTTTGTATAAGGTTCGAATAGTTTG
TATAAGGTTCGGTACTATCCACAGTTTCAGGCATACACCGGGGGTCTTGGAACATATTCCCCTCAGATAA
GAGAGAATTCCTGTGTATGGAAGAGACTCCTCAGATACAGCTTCTCTTCAACTGTAAACCTATGAATTAA
AAAAAAGTTATTGGTCCTATCCACCCCCGCACATACAACCTACATTGTTATGGCAAGGATACGATGTCAC
ATGAATTGACTAAGTTTACAAGAGAGGAAATTGAAGGCATGTAGCAATCCCATGGCAGTTGTGAAATCCA
TCTGCCTATATGTCACCAATTCCCCCAATTCCAGGGGTAGGGAACATTTGATTAGTCTACTTTGGTTCTC
TGAAGTTGGCTCCCTTTTCTTTTTCTCAGTTCTTGACTTTTTTCTTTGAGCTGTCTTTCCTTTTCCATGA
GAAATGTCCTCTTTTTGTAGCTTTCTCAGCCTGCTTCTAGGCTCTGTCCCAACTGGCACAGTTATCCACA
CTGGCACAACTTCTTTAAAAAGCTTTGTGGACTTTCAAATTATAAACCACTCACTCCACCAGAGAGAAGC
CACACCCACAAATTTCTTCAAGAAGTCCTCTATGTACTTTGAATGTCAATCAGGGAATGATACCCTTTAG
AGTCATATATGTCTTTTGTCTACCTGAGAGCGTCAGCTAGACACTGGCTTAAATCTTTCTGAAGTACAGG
TGGTCGTCCACTTATGATGGTTCAACTTAGAATTCTTTTACTTTAGGATGGTATGAAAGCTATATGCATT
CAGTAGCAACCATACTTCAAGTACCCATACAACCATTCTATTTTTTACATTCAGTACAGTATTCAGTAAA
TCATGAAATATTCAGCACTTCATTATAAAATAGGCTTTGTGTTAGATTACTTTGTTCAATATAACATAAT
GCAAGTGTTCTGAGCACATTTAAGCAATGACGGGTTAAGCTGTGATGTATGGTAGGTTACGTGTACTATT
CAACTTAATATTTTCAGCTTACGATGGGTTTGTCAGGACATAACCCCATTGTAAGTCAGGGAGCATCTGT
AGTAGTAACAAGGTTGTATTGCATGTGCTTTATTTTATCTTGATCCTCAGACCATAATCTTACAGTTAAC
ACCCTGGATTTTTTTTTTTTTAACTTCAGAACCTTTTGCTGAAGAAGCTGGTAACGAGAAAGTTTTATTT
TGTAACCCTGCAAGTCCCAGGTTGAAAGTATTTTCCTCTAAATTCTGCTTGAAACTGAGCAGTTCCTTGT
TTAGTTCTTCTCTCTTTTAATACCTTTCTACAGGTGTTTTTTGAAAAATTGCTTATCACTTTCAGCATTT
TTCCTGGAAACCTTAGCCAGATCTATAACTTCAATAGGTACTTTTTCTATCTTCCAAGATACTGTCTCAC
TTGTTTTGTCAGTAGATTACATGGCTTCTGTCCAGCCTGAAATACCAATTTCCTCAGTGGTTTTCCAGCC
TCCGTTAGTAGTCTCTTTGCTGCTCTTCCACCAAATGTCTATAACCCAGTCCCCAAACTAGTGCTACATG
TCTTAAGTTTCTGTCATGGCAATGCCCTGTTTAAATACCAAATACTATTTCAGTTATCTTTTTCTGCCTA
ACAAATCACCCCAAAATTTACTACCTTAAAACAAAACTATTCTTTGCTTGAGATTCTACTGTCTGAACTG
GACTCAGCTGGGCATTTCTTCTGGTCTCACCTGGAGTCATTTATGCAACTGCAGACATGTGGGGACTCCA
CCAAAGATGGCTTTACTCAAATGTCTGGGGCCTCAACTGGGGTGGCTGCATTAGCTCTGGCACAGCTGCA
GTTCCCTCTCCAGCAGGGTCCTGGGCCATTTCACATGATGACTGAGGGCTCCAAGAGGGTGAAAGCAGGA
GCATCTGGGCTAGGCCTCTTAGAGCCTGTGCATAAAACTGAAACAGCACTACTTCATCCATGCTGCCTTT
CAAAGCAAGTCCCGGGGCCTGCTCAAAATTACAGGCAGGGAAAATATCCTCTACCTGATGGTAGTGACAA
AGAATATGTGTCCCATCGTTAATTCACCAGTTGCCTTCACAGTTGCAACAATGAGACTGTTAGCTTTTAA
ACAGAAATGATAAAAACTAGAAGCCGGCCGGGCGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAG
GCCGAGGCGGGTGGATCAGGAGGTCAGGAGATTGAGACCGTCCTGGCTAACAAGGTGAAACCCCGCCTCT
ACTAAAAATACAAAAAATTAGCCGGGCGCAGTGGCGGGCGCCTCTAGTCCCGGCTACTCGGGAGGCTGAG
GCAGGAGAATGGCGTGAACCCGGGAAGCGGAGCTTGCAGTGAGCCGAGATTGCGCCACTGCAGTCCGCAG
TCCGGCCTGGGCGACAGAGCGAAACTCCGTCTC

5' Read Nucleotide Sequence:

>OriGene 5' read for AK021753 unedited
TTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGATCTGCCTGGCTTC
TCAAAGCCTAGAAACTCATAGAGCATCATTTCAACTGCATTCTTGTTGGTCAGAGCCAGT
CATCACAAAGCCAGCTGAGATTCAAGGAAACAGATAGAACTTCACTTCTTGATAAGACAT
GGGTGAAGAGGAGGGCAGATAGAATTTTAGGGCATCTCTCATTTGCCTGAGTCTTCCTAC
TGGCTCACATTGCTTAAATTCCTCCGACATGCAAAATGACACCCACCCCAAGAACCCCAC
AGTCCCATCCAATTATGGCATCAGGCTCAGAGTCTACTTGTGTACAGTAGTTCCCCCTCA
ACTGTGGTTTCGCTTTCCACAGTTTTCAGTTACCCACAGTCAACTGAGGTTCAAAAATAG
ATGAGTACAGTATTAATAAGACATTTTGAGGTAGAGAAAGATGCAGACCACATCCACACA
ACTTCTATTACAGTGTATTATTTTAATTGTTCTGTTTTATTATTATTAATCTCTTACTGT
GTCTAATTTATAAATTAAACTTTATCATGGGTATGTATATAGGAAAAAATAATAGTTTGT
ATAAGGTTCGAATAGTTTGTATAAGGTTCGGTACTATCCACAGTTTCAGGCATACACCGG
GGGTCTTGGAACATATTCCCCTCAGATAAGAGAGAATTCCTGTGTATGGAAGAGACTCCT
CAGATACAGCTTCTCTTCAACTGTAAACCTATGAATTAAAAAAAAGTTATTGGTCCTATC
CACCCCCGCACATACAACCTACATTGTTATGGNCAGGATACGATGTCACATGAATTGACT
AAGTTTACAAGAGAGGANNNATGAGGCATGTNAGCATCCATGGNCAGTGTGAAATCATCT
GCCTATATGTCACCAATTCCCCCATNC

3' Read Nucleotide Sequence:

>OriGene 3' read for AK021753 unedited
GTCATTAGNACCGCGCCGCAATCTANGATCAGTTTTTTTTTTTTTTTTTTTTTTTTTTG
AGACGGAGTTTCGCTCTGTCGCCCAGGCCGGACTGCGGACTGCAGTGGCGCAATCTCGGC
TCACTGCAAGCTCCGCTTCCCGGGTTCACGCCATTCTCCTGCCTCAGCCTCCCGAGTAGC
CGGGACTACAGGCGCCCGCCACTGCGCCCGGCTAATTTTTTGTATTTTTAGTAAAGGCGG
GGTTTCACCTTGTTAGCCAGGACGGTCTCAATCTCCTGACCTCCTGATCCACCCGCCTCG
GCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACCGCGCCCGGCCGGCTTCTAGTTTT
TATCATTTCTGTTTAAAAGCTAACAGTCTCATTGTTGCAACTGTGAAGGCAACTGGTGAA
TTAACGATGGGACACATATTCTTTGTCACTACCATCAGGTAGAGGATATTTTCCCTGCCT
GTAATTTTGAGCAGGCCCCGGGACTTGCTTTGAAAGGCAGCATGGATGAAGTAGTGCTGT
TTCAATTTTATGCACAGGCTCTAAGAGGCCTAGCCCAGATGCTTCTGCTTTCACCCTCTT
GGAGCCCTCAGTCATCATGTGAAATGGCCCAAGACCCCGCTGGAGAAGGAACTGCAGCTG
TGCCAAACCTAATGCAGCCACCCCATTTGAGGCCCCAAACATTTGAGTAAAGCCCTCTCT
TGGTGGAGTCCCCCCATGTCTTGCAGTTGCCCTAATGAATCCCGGGGGAGACCCAAAAAA
ATGCCCACCTGATTCCCCTTCTAACCGGGTGATCCTTAGCAAGGAAATATTTGGTTTAAG
GAGTAAAATTTGGGGGGAGTTTGTTAGGCACAAAAAAGAACCGAAAAAATTTTTGGTTTT
TAAACAGGGATTCCCCGACAAA

Restriction Sites: NotI-NotI

ACCN: AK021753

Insert Size: 3080 bp

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).

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:	AK021753.1
RefSeq Size:	2483 bp
RefSeq ORF:	2483 bp
Locus ID:	9723
Cytogenetics:	7q21.11
Protein Families:	Secreted Protein
Protein Pathways:	Axon guidance
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]