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Product datasheet for MC229333

Sema6d (NM_001291000) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sema6d (NM_001291000) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Sema6d
Synonyms:	1110067B02Rik; AA409156; D330011G23; mKIAA1479
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC229333 representing NM_001291000 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGGGTTCCTTCTGCTTTGGTTCTGCGTGCTGTTCCTTCTGGTCTCCAGGTTACGGGCGGTCAGCTTCC CAGAAGACGATGAGCCCCTCAACACGGTTGACTATCACTATTCAAGGCAATATCCGGTTTTTAGAGGACG CCCTTCAGGCAACGAATCGCAGCACAGGCTGGACTTTCAGCTGATGTTGAAAATTCGAGACACACTTTAT ATTGCTGGCAGGGATCAAGTCTATACAGTGAACTTAAATGAAATCCCCCAAACAGAGGTGATACCAAGCA AGAAGCTGACGTGGAGGTCCAGACAGCAGGATCGAGAAAATTGTGCTATGAAAGGCAAGCATAAAGATGA ATGCCACAACTTCATCAAAGTCTTTGTCCCAAGAAATGATGAGATGGTTTTTGTCTGTGGTACCAATGCT TTCAACCCGATGTGCAGATACTATAGGTTGAGAACGTTAGAGTATGATGGGGAAGAAATTAGTGGCCTGG CACGATGCCCGTTTGATGCCCGACAAACCAATGTCGCCCTCTTTGCTGATGGAAAACTCTATTCTGCCAC AGTGGCTGATTTCCTGGCCAGTGATGCTGTCATTTACAGAAGCATGGGAGATGGATCTGCCCTTCGCACA ATAAAATACGATTCCAAGTGGATCAAAGAACCACACTTCCTTCATGCCATAGAATATGGAAACTATGTCT ATTTCTTCTTCAGAGAAATCGCCGTGGAACATAATAACTTAGGCAAGGCTGTGTATTCCCGCGTGGCTCG CATTTGTAAAAACGACATGGGTGGCTCACAGCGGGTCCTGGAGAAACACTGGACTTCCTTCCTTAAGGCT CGGCTGAACTGCTCCGTTCCTGGAGATTCCTTTTTCTACTTCGACGTCCTGCAGTCTATAACAGACATAA TCCAAATCAATGGCATCCCCACTGTGGTTGGGGTCTTCACCACACAGCTCAACAGCATTCCTGGTTCTGC AGTCTGTGCCTTTAGCATGGACGACATTGAGAAAGTGTTCAAAGGGCGGTTCAAAGAGCAGAAAACCCCA GACTCTGTTTGGACAGCAGTTCCCGAAGACAAAGTACCAAAACCAAGGCCTGGCTGTTGTGCCAAACACG GCCTCGCAGAAGCTTACAAGACCTCCATCGACTTTCCAGATGACACCCTGGCTTTCATCAAGTCCCACCC GCTGATGGACTCTGCCGTCCCACCCATTGCCGATGAGCCCTGGTTCACAAAGACACGGGTCAGGTACAGG TTGACAGCCATCGAAGTGGACCGTTCAGCAGGGCCATACCAAAACTACACAGTCATCTTTGTTGGCTCTG AAGCTGGCGTGGTACTTAAAGTTTTGGCAAAGACCAGTCCTTTCTCTCTGAATGACAGTGTATTACTCGA AGAGATTGAAGCTTATAACCCAGCCAAGTGCAGCGCCGAGAGTGAGGAGGACAGAAAGGTGGTCTCATTA CAGCTGGACAAGGATCACCATGCTTTATACGTGGCCTTCTCTAGCTGCGTGGTCCGCATCCCCCTCAGCC

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GCTGTGAGCGCTACGGATCGTGTAAAAAGTCTTGCATTGCATCACGTGACCCGTACTGTGGTTGGTTAAG
CCAGGGAGTTTGTGAGAGAGTGACCCTAGGGATGCTCCCTGGAGGATATGAGCAGGACACGGAGTACGGC
AACACAGCCCACCTAGGGGACTGCCACGAAAGTTTGCCTCCTTCAACTACACCAGATTACAAAATATTTG
GCGGTCCAACATCTGACATGGAGGTATCCTCATCTTCTGTTACCACTGTGGCAAGTAGCCCAGAAATTAC
ATCTAAAGTGATTGATACCTGGAGACCTAAACTGACGAGCTCCCGGAAATTTGTAGTTCAAGATGACCCA
AATACTTCTGATTTTACTGATACTATATCAGGTGTACGGTGGGAAGTCCAGTCTGGAGAATCCAATCAGA
TGGTCCACATGAATGTCCTCATCACCTGCGTGTTTGCCGCTTTTGTCTTGGGCGCGTTCATCGCAGGAGT
GGCCGTGTACTGCTACCGTGACATGTTCGTTCGGAAGAACAGAAAGATCCATAAAGACGCAGAATCCGCC
CAGTCGTGCACAGACTCCAGCGGAAGCTTCGCCAAGCTGAACGGCCTCTTTGACAGCCCCGTCAAGGAAT
ACCAGCAGAACATTGATTCTCCCAAACTCTACAGCAACCTGCTGACCAGTCGGAAGGAACTGCCACCAAA
CACGGATACAAAGTCCATGGCCGTGGACCACAGAGGCCAGCCTCCCGAGCTGGCTGCTCTCCCCACGCCG
GAATCCACACCTGTCCTCCACCAGAAGACCCTGCAGGCCATGAAGAGCCACTCTGAGAAGGCCCACAGCC
ACGGTGCTTCAAGGAAAGAACACCCCCAGTTTTTTCCTTCTAGTCCTCCACCCCATTCCCCATTGAGTCA
CGGGCATATCCCCAGTGCCATCGTTCTTCCAAACGCCACTCACGACTACAATACATCCTTCTCCAACTCG
AATGCCCACAAAGCCGAAAAGAAGCTTCAGAGCATGGATCACCCTCTTACGAAGTCATCCAGTAAGCGGG
AGCACCGGCGGTCTGTGGATTCCAGGAATACTCTCAATGATCTCCTGAAGCATCTAAATGACCCAAACAG
TAACCCCAAAGCCATCCTGGGAGAGATCCATATGGCTCATCAAACCCTCATGCTGGACCCGGTGGGACCA
ATGGCTGAGGTCCCACCCAAGGTCCCTAACCGGGAGGCATCTCTATACTCCCCTCCCTCCACACTCCCCA
GAAATAGTCCAACCAAGAGAGTAGATGTCCCCACCACTCCTGGGGTGCCAATGACTTCTCTGGAAAGACA
AAGGGGTTATCACAAAAATTCCTCCCAGAGGCACTCTATATCTGCCGTGCCTAAAAACTTAAACTCACCA
AATGGTGTTTTGTTATCTAGACAGCCGAGTATGAACCGTGGAGGCTATATGCCCACCCCAACAGGGGCGA
AGGTGGACTATATTCAGGGGACACCGGTGAGTGTTCATCTGCAGCCCTCCCTCTCCAGACAGAGCAGCTA
TACCAGTAATGGCACCCTCCCCAGGACGGGACTAAAGAGGACACCATCCTTAAAACCTGATGTGCCACCA
AAGCCTTCCTTTGTTCCGCAAACCACATCTGTCAGACCACTGAACAAGTACACGTACTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001291000

Insert Size: 3210 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001291000.1, NP_001277929.1
RefSeq Size:	6509 bp
RefSeq ORF:	3210 bp
Locus ID:	214968
UniProt ID:	Q76KF0
Cytogenetics:	2 F1
Gene Summary:	Shows growth cone collapsing activity on dorsal root ganglion (DRG) neurons in vitro. May be a stop signal for the DRG neurons in their target areas, and possibly also for other neurons. May also be involved in the maintenance and remodeling of neuronal connections (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (7) uses an alternate in-frame splice site and contains two additional in-frame exons in the central coding region, compared to variant 1. The encoded isoform (3) is longer than isoform Sema6D-1.