

Product datasheet for MR211412

Sema6d (NM_199238) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sema6d (NM_199238) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Sema6d
Synonyms: 1110067B02Rik; AA409156; D330011G23; mKIAA1479
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR211412 representing NM_199238
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGTTCCTTCTGCTTTGGTTCTGCGTGCTGTTCTTCTGGTCTCCAGGTTACGGGCGGTACAGCTTCC
 CAGAAGACGATGAGCCCCTCAACACGGTTGACTATCACTATTCAGGCAATATCCGGTTTTAGAGGACG
 CCCTTCAGGCAACGAATCGCAGCACAGGCTGGACTTTCAGCTGATGTTGAAAATTCGAGACACACTTTAT
 ATTGCTGGCAGGGATCAAGTCTATACAGTGAACCTAAATGAAATCCCCAAACAGAGGTGATACCAAGCA
 AGAAGCTGACGTGGAGGTCAGACAGCAGGATCGAGAAAATTGTGCTATGAAAGGCAAGCATAAAGATGA
 ATGCCACAACCTCATCAAAGTCTTTGTCCCAAGAAATGATGAGATGGTTTTGTCTGTGGTACCAATGCT
 TTCAACCCGATGTGCAGATACTATAGGTTGAGAACGTTAGAGTATGATGGGGAAGAAATTAGTGGCTGG
 CACGATGCCCGTTTGATGCCCGACAAACCAATGTCGCCCTCTTTGCTGATGGAAAATCTATTCTGCCAC
 AGTGGCTGATTTCTGGCCAGTGATGCTGTCAATTTACAGAAGCATGGGAGATGGATCTGCCCTTCGCACA
 ATAAAATACGATTCGAAGTGGATCAAAGAACCACACTTCCTTCATGCCATAGAATATGAAAATATGTCT
 ATTTCTTCTTCAGAGAAATCGCCGTGGAACATAATAACTTAGGCAAGGCTGTGTATCCCGCGTGGCTCG
 CAGTGAAGTCTCCGTTCTGGAGATTCCTTTTCTACTTCGACGTCCTGCAGTCTATAACAGACATAA
 TCCAAATCAATGGCATCCCCTGTGGTTGGGCTTCCACACACAGCTCAACAGCATTCTGGTTCTGC
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 GACTCTGTTTGGACAGCAGTTCCCGAAGACAAAGTACCAAAACCAAGGCCTGGCTGTTGTGCCAAACACG
 GCCTCGCAGAAGCTTACAAGACCTCCATCGACTTCCAGATGACACCCTGGCTTTCATCAAGTCCCACCC
 GCTGATGGACTCTGCCGTCACCCATTGCCGATGAGCCCTGGTTCACAAAGACACGGGTACAGGTACAGG
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 AGAGATGAAGCTTATAACCCAGCCAAGTGCAGCGCCGAGAGTGAGGAGGACAGAAAGTGGTCTCATT



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CAGCTGGACAAGGATCACCATGCTTTATACGTGGCCTTCTAGCTGCGTGGTCCGCATCCCCCTCAGCC
 GCTGTGAGCGCTACGGATCGTGTAAAAAGTCTTGCAATGCATCACGTGACCCGACTGTGGTTGGTTAAG
 CCAGGGAGTTTGTGAGAGAGTGACCCTAGGGATGCTCCCTGGAGGATATGAGCAGGACACGGAGTACGGC
 AACACAGCCCACCTAGGGGACTGCCACGGTGTACGGTGGGAAGTCCAGTCTGGAGAATCCAATCAGATGG
 TCCACATGAATGTCCTCATCACCTGCGTGTGGCCGCTTTGCTTGGGCGGTTTCATCGCAGGAGTGGC
 CGTGTACTGCTACCGTGACATGTTGTTTCGGAAGAACAAGAAATCCATAAAGACGCAGAATCCGCCAC
 TCGTGCACAGACTCCAGCGGAAGCTTCGCCAAGCTGAACGGCCTCTTTGACAGCCCCGTCAAGGAATACC
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 GTGCTTCAAGGAAAGAACACCCCGATTTTTCTTCTAGTCTCCACCCATTCCCATTTAGTACCGG
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 CCCCAAAGCCATCTGGGAGAGATCCATATGGCTCATCAAACCTCATGTGGACCCGGTGGGACCAATG
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 GGTGTTTTGTTATCTAGACAGCCGAGTATGAACCGTGGAGGCTATATGCCACCCCAACAGGGGCGAAGG
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 CAGTAATGGCACCTCCCAGGACGGGACTAAAGAGGACACCATCCTTAAACCTGATGTGCCACCAAAG
 CCTTCTTTGTTCCGCAAACCACATCTGTCAGACCACTGAACAAGTACACGTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211412 representing NM_199238
 Red=Cloning site Green=Tags(s)

MGFLLLVFCVLFLLVSRRLRAVSFPEDDEPLNTVDYHYSRQYYPVFRGRPSGNE SQHRLDFQLMLKIRDLY
 IAGRDQVYTVNLNEIPQTEVIPSKKLTWRSRQQDRENCAMKGKHKDECHNF IKVFVPRNDEMVFVCGTNA
 FNP MCRYRLR L TLEYDGEEI SGLARCPFDARQTNVALFADGKLYSATVADFLASDAVIYRSMGDGSALRT
 IKYDSKWIKEPHFLHAI EYGNVYVFFREIAVEHNNLGKAVYSRVARICKNDMGGSQRVLEKHWTSFLKA
 RLNCSVPGDSFFYFDVLQSIDIIQINGIPTVVGVFTTQLNSIPGSAVCAF SMDDIEKVFKGRFKEQKTP
 DSVWTA VPEDKVPKPRPGCCAKHGLAEAYKTSIDFPDDTLAFIKSHPLMDSAVPPIADEPWF TKTRVYR
 LTAIEVDRSAGPYQNYTVIFVGSEAGVVLKVLAKTSPFSLNDSVLLLEEIEAYNPAKCSAESEDRKVVSL
 QLDKDHHALYVAFSSCVRIPLSRCERYGCKKSCIASRDPYCGWL SQGVCERVTLGMLPGGYEQDTEYG
 NTAHLGDCHGVRWEVQSGESNQMVHMNVLITCVFAAFVLGAFIAGVAVYCYRDMFVRKNRK IHKDAESAQ
 SCTDSSGSFAKLNGLF DSPVKEYQQNIDSPKLYSNLLTSRKELPNTDTK SMAVDHRGQPPELAALPTPE
 STPVLHQKTLQAMKSHSEKAHSHGASRKEHPQFFPSSPPHPSPLSHGHIPSAIVLPNATHDYNTSF SNSN
 AHKA EKKLQSM DHPLTKSSSKREHRRS VDSRNTLNDLLKHLNDPNSNPKAILGEI HMAHQTLMLDPV GPM
 AEVPPKVPNREASLYSPPSTLPRNSPTKRVDVPTTPGVPM TSLERQGYHKNSSQRHSISAVPKNLNSPN
 GVLLSRQPSMNRGGYMPPTGAKVDYIQGTPVSVHLQPSLSRQSSYTSNGTL PRTGLKRTPLSKPDVPPK
 PSFV PQTTSVRPLNKYTY

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_199238

ORF Size: 2994 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_199238.3](#)

RefSeq Size: 6302 bp

RefSeq ORF: 2997 bp

Locus ID: 214968

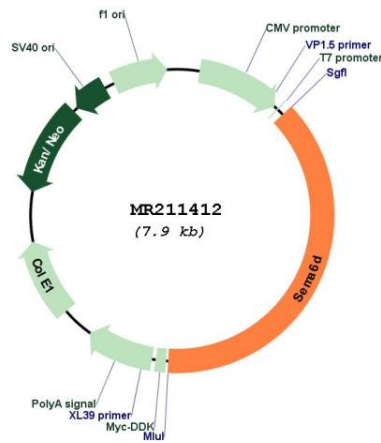
UniProt ID: [Q76KF0](#)

Cytogenetics: 2 F1

MW: 112.2 kDa

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]

Product images:



Circular map for MR211412