

Product datasheet for **MR224045**

Sema6d (NM_199240) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sema6d (NM_199240) 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: >MR224045 representing NM_199240
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGGTTCCTTCTGCTTTGGTTCTGCGTGCTGTTCTTCTGGTCTCCAGGTTACGGGCGGTACAGCTTCC
CAGAAGACGATGAGCCCCTCAACACGGTTGACTATCACTATTCAAGGCAATATCCGGTTTTAGAGGACG
CCCTTCAGGCAACGAATCGCAGCACAGGCTGGACTTTCAGCTGATGTTGAAAATTCGAGACACACTTTAT
ATTGCTGGCAGGGATCAAGTCTATACAGTGAACCTAAATGAAATCCCCAAACAGAGGTGATACCAAGCA
AGAAGCTGACGTGGAGGTCCAGACAGCAGGATCGAGAAAATTGTGCTATGAAAGGCAAGCATAAAGATGA
ATGCCACAACCTCATCAAAGTCTTTGTCCCAAGAAATGATGAGATGGTTTTGTCTGTGGTACCAATGCT
TTCAACCCGATGTGCAGATACTATAGGTTGAGAACGTTAGAGTATGATGGGGAAGAAATTAGTGGCTGG
CACGATGCCCGTTTGATGCCCGACAAACCAATGTCGCCCTCTTTGCTGATGGAAACTCTATTCTGCCAC
AGTGGCTGATTTCTGGCCAGTGATGCTGTCAATTTACAGAAGCATGGGAGATGGATCTGCCCTTCGCACA
ATAAAATACGATTCGAAGTGGATCAAAGAACCACACTTCTTCATGCCATAGAATATGAAAATATGTCT
ATTTCTTCTTCAGAGAAATCGCCGTGGAACATAATAACTTAGGCAAGGCTGTGTATCCCGCGTGGCTCG
CATTTGTAAAAACGACATGGGTGGCTCACAGCGGGTCTTGAGAAAACACTGGACTTCTTCTTAAAGGT
CGGCTGAACCTGCTCCGTTCTGGAGATTCCTTTTCTACTTCGACGTCCTGCAGTCTATAACAGACATAA
TCCAAATCAATGGCATCCCCACTGTGGTTGGGGTCTTACCACACAGCTCAACAGCATTCTGGTTCTGC
AGTCTGTGCCCTTAGCATGGACGACATTGAGAAAGTGTCAAAGGGCGGTTCAAAGAGCAGAAAAACCCCA
GACTCTGTTTGGACAGCAGTTCCCGAAGACAAAGTACCAAAACCAAGGCCTGGCTGTTGTGCCAAACAG
GCCTCGCAGAAGCTTACAAGACCTCCAATCGACTTCCAGATGACACCCTGGCTTTCATCAAGTCCCACCC
GCTGATGGACTCTGCCGTCCCACCCATTGCCGATGAGCCCTGGTTCACAAAGACACGGGTACAGGTACAGG
TTGACAGCCATCGAAGTGGACCGTTCCAGAGGGCCATACCAAACTACACAGTCATCTTTGTTGGCTCTG
AAGCTGGCGTGGTACTTAAAGTTTTGGCAAAGACCAGTCTTCTCTCTGAATGACAGTGTATTACTCGA
AGAGATGAAGCTTATAACCCAGCCAAGTGCAGCGCCGAGAGTGAGGAGGACAGAAAGTGGTCTCATT



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CAGCTGGACAAGGATCACCATGCTTTATACGTGGCCTTCTAGCTGCGTGGTCCGCATCCCCCTCAGCC
 GCTGTGAGCGCTACGGATCGTGTAAAAAGTCTTGCATTGCATCACGTGACCCGCTACTGTGGTTGGTTAAG
 CCAGGGAGTTTGTGAGAGAGTGACCCTAGGGATGCTCCCTGGAGGATATGAGCAGGACACGGAGTACGGC
 AACACAGCCCACCTAGGGGACTGCCACGACATGGAGGTATCCTCATCTTCTGTTACCACTGTGGCAAAGTA
 GCCCAGAAATTACATCTAAAGTGATTGATACCTGGAGACCTAACTGACGAGCTCCCGGAAATTTGTAGT
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 TCTTGGGCGCGTTCATCGCAGGAGTGGCCGTACTGCTACCGTGACATGTTTCGTTCCGGAAGAACAGAAA
 GATCCATAAAGACGCAGAAATCCGCCAGTCTGTCACAGACTCCAGCGGAAGCTTCGCAAGCTGAACGGC
 CTCTTTGACAGCCCCGTCAAGGAATACCAGCAGAACATTGATTCTCCAAACTCTACAGCAACCTGCTGA
 CCAGTCGGAAGGAACTGCCACCAAAACACGGATACAAAGTCCATGGCCGTGGACCACAGAGGCCAGCTCC
 CGAGCTGGCTGCTCTCCCACGCCGGAATCCACACCTGTCTCCACCAGAAGACCCTGCAGGCCATGAAG
 AGCCACTCTGAGAAGGCCACAGCCACGGTCTTCAAGGAAAGAACACCCCAAGTTTTTCTTCTAGTC
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 TGAAGCATCTAAATGACCCAAACAGTAACCCCAAAGCCATCTGGGAGAGATCCATATGGCTCATAAAC
 CCTCATGCTGGACCCGGTGGGACCAATGGCTGAGGTCCCACCAAGGTCCCTAACCGGGAGGCATCTCTA
 TACTCCCTCCCTCCACACTCCCAGAAATAGTCCAACCAAGAGAGTAGATGTCCCACCACTCTGGGG
 TGCCAATGACTTCTCTGGAAAGCAAAGGGTTATCACAAAAATCTCCCAGAGGCACTCTATATCTGC
 CGTGCCTAAAACTTAACTCACCAATGGTGTGTTTGTATCTAGACAGCCGAGTATGAACCGTGGAGGC
 TATATGCCACCCCAACAGGGGCGAAGGTGGACTATATCAGGGGACACCGGTGAGTGTTCATCTGCAGC
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 ATCCTTAAAACCTGATGTGCCACCAAGCCTTCTTTGTTCCGCAAAACCATCTGTGACAGCCACTGAAC
 AAGTACACGTAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224045 representing NM_199240

Red=Cloning site Green=Tags(s)

MGFLLWFVLLVSRRLRAVSFPEDDEPLNTVDYHYSRQYPVFRGRPSGNEQHRDLDFQLMLKIRDTLY
 IAGRDQVYTVNLNEIPQTEVIPS KKL TWRSRQDRENCAMK GKHKDECHNF IKVFVPRNDEMVFVCGTNA
 FNP MCRYRLR L TLEYDGEEISGLARCPFDARQTNVALFADGKLYSATVADFLASDAVIYRSMGDGSALRT
 IKYDSKWIKEPHFLHAIEYGNVYVFFREIAVEHNNLGKAVYSRVARICKNDMGGSQRVLEKHWTSFLKA
 RLNCSVPGDSFFYFDVLSITDIIQINGIPTVVGVTTLQNSIPGSAVCAF SMDDIEKVFKGRFKEQKTP
 DSVWTA VPEDKVPKPRPGCCAKHGLAEAYKTSIDFPDDTLAFIKSHPLMDSAVPPIADEPWF TKTRVRYR
 LTAIEVDRSAGPYQNYTVIFVGSEAGVVLKVLAKTSPFSLNDSVLLLEEIEAYNPAKCSAESEEDR KVVS
 QLDKDHHALYVAFSSCVRIPLSRCERYGSKKSCIASRDPYCGWLSQGVCEVTLGMLPGGYEQDTEY
 NTAHLGDCHDMEVSSSVTTVA S SPEITSKVIDTWRPKL TSSRFVVD PNTSDFDTISGIPKGV RWE
 VQSGESNQMVHMVNLITCVFAAFVVGAFIAGVAVYCYRDMFVRKNRKHKDAESAQSCTDSSGSF AKLNG
 LFDSPVKEYQQNIDSPKLYSNLLTSRKE LPPNTDTKSMVDHRGQPPELAALPTPESTPVLHQTLQAMK
 SHSEKAHSHGASRKEHPQFFPSSPPHSPLSHGHIPSAIVLPNATHDYNTSFSNSNAHKA EKKLQSM DHP
 LTKSSSKREHRRSVDSRNTLNDLLKHLNDPNSNP KAILGEIHMAHQTLMLDPVGPMAEVPPKVPNREASL
 YSPPSTLPRNSPTKRVDVPTTPGVPMTSLERQRYHKNSSQRHSISAVPKNLNSPNGVLLSRQPSMNRGG
 YMPTPTGAKVDYIQGTPVSVHLQPSLSRQSSYTSNGTLPR TGLKRTPSLKPDPVPPKPSFVQPTTSVRPLN
 KYTY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9002_d09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_199240

ORF Size: 3162 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_199240.3](#)

RefSeq Size: 6470 bp

RefSeq ORF: 3165 bp

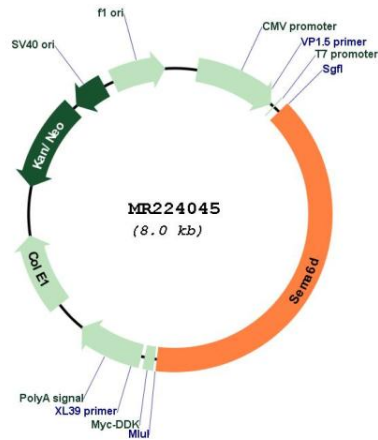
Locus ID: 214968

UniProt ID: [Q76KF0](#)

Cytogenetics: 2 F1
 MW: 118.3 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 MR224045