

Product datasheet for MR224863

Sema6d (NM_199241) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sema6d (NM_199241) 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:	>MR224863 representing NM_199241 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGTTCCTTCTGCTTTGGTTCTGCGTGCTGTTCTTCTGGTCTCCAGGTTACGGGCGGTACAGCTTCC
CAGAAGACGATGAGCCCCTCAACACGGTTGACTATCACTATTCAGGCAATATCCGGTTTTAGAGGACG
CCCTTCAGGCAACGAATCGCAGCACAGGCTGGACTTTCAGCTGATGTTGAAAATTCGAGACACACTTTAT
ATTGCTGGCAGGGATCAAGTCTATACAGTGAACCTAAATGAAATCCCCAAACAGAGGTGATACCAAGCA
AGAAGCTGACGTGGAGGTCCAGACAGCAGGATCGAGAAAATTGTGCTATGAAAGGCAAGCATAAAGATGA
ATGCCACAATTCATCAAAGTCTTTGTCCCAAGAAATGATGAGATGGTTTTGTCTGTGGTACCAATGCT
TTCAACCCGATGTGCAGATACTATAGGTTGAGAACGTTAGAGTATGATGGGGAAGAAATTAGTGGCTGG
CACGATGCCCGTTTGATGCCCGACAAACCAATGTCGCCCTCTTTGCTGATGGAAAATCTATTCTGCCAC
AGTGGCTGATTTCTGGCCAGTGATGCTGTCAATTTACAGAAGCATGGGAGATGGATCTGCCCTTCGCACA
ATAAAATACGATTCGAAGTGGATCAAAGAACCACACTTCCTTCATGCCATAGAATATGAAAATATGTCT
ATTTCTTCTTCAGAGAAATCGCCGTGGAACATAATAACTTAGGCAAGGCTGTGTATCCCGCGTGGCTCG
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AGTCTGTGCCCTTAGCATGGACGACATTGAGAAAGTGTCAAAGGGCGGTTCAAAGAGCAGAAAAACCCCA
GACTCTGTTTGGACAGCAGTTCCCGAAGACAAAGTACCAAAACCAAGGCTGGCTGTTGTGCCAAACAGC
GCCTCGCAGAAGCTTACAAGACCTCCAATCGACTTCCAGATGACACCCTGGCTTTCATCAAGTCCCACCC
GCTGATGGACTCTGCCGTCACCCATTGCCGATGAGCCCTGGTTCACAAAGACACGGGTACAGGTACAGG
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AGAGATGAAGCTTATAACCCAGCCAAGTGCAGCGCCGAGAGTGAGGAGGACAGAAAGTGGTCTCATT



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CAGCTGGACAAGGATCACCATGCTTTATACGTGGCCTTCTAGCTGCGTGGTCCGCATCCCCCTCAGCC
 GCTGTGAGCGCTACGGATCGTGTAAAAAGTCTTGCAATGCATCACGTGACCCGACTGTGGTTGGTTAAG
 CCAGGGAGTTTGTGAGAGAGTGACCCTAGGGATGCTCCCTGGAGGATATGAGCAGGACACGGAGTACGGC
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 CCGGTGGGACCAATGGCTGAGGTCCCACCAAGGTCCCTAACCGGGAGGCATCTCTATACTCCCCTCCCT
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 ACAGAGCAGCTATACCAGTAATGGCACCCCTCCCAGGACGGGACTAAAGAGGACACCCCTTAAACCT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224863 representing NM_199241
 Red=Cloning site Green=Tags(s)

MGFLLWFVLLVSRRLRAVSFPEDDEPLNTVDYHYSRQYQVFRGRPSGNESQHRLEDLQMLKIRDTLY
 IAGRDQVYTVNLNEIPQTEVIPS KKL TWRSRQDRENCAMK GKHKDECHNF IKV FVPRNDEMVFVCGTNA
 FNPMCRYRLR LLEYDGEEISGLARCPFDARQTNVALFADGKLYSATVADFLASDAVIYRSMGDGSALRT
 IKYDSKWIKEPHFLHAIEYGNVYVFFREIAVEHNNLGKAVYSRVARICKNDMGGSQRVLEKHWTSFLKA
 RLNCSVPGDSFFYFDVLSITDIIQINGIPTVVGVTTLQNSIPGSAVCAF SMDDIEKVFKGRFKEQKTP
 DSVWTA VPEKVPKPRPGCCAKHGLAEAYKTSIDFPDDTLAFIKSHPLMDSAVPPIADEPWF TKTRVRYR
 LTAIEVDRSAGPYQNYTIFV GSEAGVVLKVLAKTSPFSLNDSVLLLEEIEAYNPAKCSAESEEDR KVVSL
 QLDKDHHALYVAFSSCVRIPLSRCERYGSKKSCIASRDPYCGWLSQGVCEVTLGMLPGGYEQDTEYG
 NTAHLGDCHESLPPSTTPDYKIFGGPTSDMEVSSSVTVVASSPEITSKVIDTWRPKLTSRRKFVVDPP
 NTSDFDTISGIPKGVREVEVQSGESNQMVHMNVLITCVFAAFVLGAFIAGVAVYCYRDMFVRKNRKIHKD
 AESAQSCDSSGSFAKLNGLFDSVPVKEYQQNIDSPKLYSNLLTSRKE LPPNTDTKSMAVDHRGQPPELAA
 LPTPESTPVLHQKTLQAMKSHSEKAHSHGASRKEHPQFPSSPPPHSPLSHGHIPSAIVLPNATHDYNTS
 FSNSNAHKA EKKLQSMDHPLTKSSSKREHRSVDSRNTLNDLLKHLNDPNSNPKAILGEIHMAHQTLMLD
 PVGPMAEVPPKVPNREASLYSPPSTLPRNSPTKRVDVPTTPGVPMTSLERQRYGHNSSQRHSISAVPKN
 LNSPNGVLLSRQPSMNRGGYMPPTGAKVDYIQGTPVSVHLQPSLSRQSSYTSNGTLPR TGLKRTPLSLPK
 DVPPKPSFVPQTTSVRPLNKYTY

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1774_h10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_199241

ORF Size: 3219 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

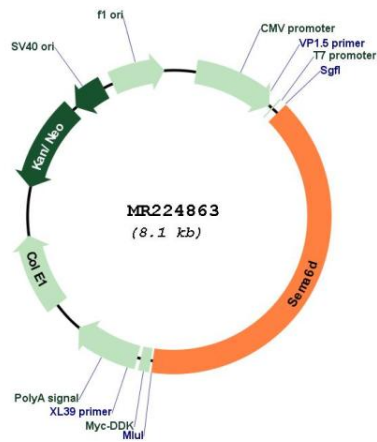
Reconstitution Method:

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_199241.3](#)
 RefSeq Size: 6527 bp
 RefSeq ORF: 3222 bp
 Locus ID: 214968
 UniProt ID: [Q76KF0](#)
 Cytogenetics: 2 F1
 MW: 120.3 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 MR224863