

Product datasheet for **MG224863**

Sema6d (NM_199241) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sema6d (NM_199241) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Sema6d
Synonyms: 1110067B02Rik; AA409156; D330011G23; mKIAA1479
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG224863 representing NM_199241
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGTTCCTTCTGCTTTGGTTCTGCGTGCTGTTCTTCTGGTCTCCAGGTTACGGGCGGTACAGCTTCC
 CAGAAGACGATGAGCCCCTCAACACGGTTGACTATCACTATTCAAGGCAATATCCGGTTTTAGAGGACG
 CCCTTCAGGCAACGAATCGCAGCACAGGCTGGACTTTCAGCTGATGTTGAAAATTCGAGACACACTTTAT
 ATTGCTGGCAGGGATCAAGTCTATACAGTGAACCTAAATGAAATCCCCAAACAGAGGTGATACCAAGCA
 AGAAGCTGACGTGGAGGTCAGACAGCAGGATCGAGAAAATTGTGCTATGAAAGGCAAGCATAAAGATGA
 ATGCCACAACCTCATCAAAGTCTTTGTCCCAAGAAATGATGAGATGGTTTTGTCTGTGGTACCAATGCT
 TTCAACCCGATGTGCAGATACTATAGGTTGAGAACGTTAGAGTATGATGGGGAAGAAATTAGTGGCTGG
 CACGATGCCCGTTTGATGCCCGACAAACCAATGTCGCCCTCTTTGCTGATGGAAAATCTATTCTGCCAC
 AGTGGCTGATTTCTGGCCAGTGTGCTGTCATTTACAGAAGCATGGGAGATGGATCTGCCCTTCGCACA
 ATAAAATACGATTCGAAGTGGATCAAAGAACCACACTTCTTCATGCCATAGAATATGAAAATATGTCT
 ATTTCTTCTCAGAGAAATCGCCGTGGAACATAATAACTTAGGCAAGGCTGTGTATCCCGCGTGGCTCG
 CAGTGAAGTCTCCGTTCTGGAGATTCCTTTTCTACTTCGACGTCCTGCAGTCTATAACAGACATAA
 TCCAAATCAATGGCATCCCCTGTGGTTGGGCTTCCACACACAGCTCAACAGCATTCTGGTTCTGC
 AGTCTGTGCCCTTAGCATGGACGACATTGAGAAAGTGTCAAAGGGCGGTTCAAAGAGCAGAAAAACCCCA
 GACTCTGTTTGGACAGCAGTTCCCGAAGACAAAGTACCAAAACCAAGGCTGGCTGTTGTGCCAAACAG
 GCCTCGCAGAAGCTTACAAGACCTCCAATCGACTTCCAGATGACACCCTGGCTTTCATCAAGTCCCACCC
 GCTGATGGACTCTGCCGTCACCCATTGCCGATGAGCCCTGGTTCACAAAGACACGGGTGAGGTACAGG
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 AAGCTGGCGTGGTACTTAAAGTTTTGGCAAAGACCAGTCTTTCTCTGAAATGACAGTGTATTACTCGA
 AGAGATGAAGCTTATAACCCAGCCAAGTGCAGCGCCGAGAGTGAGGAGGACAGAAAGTGGTCTCATT



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CAGCTGGACAAGGATCACCATGCTTTATACGTGGCCTTCTAGCTGCGTGGTCCGCATCCCCCTCAGCC
 GCTGTGAGCGCTACGGATCGTGTAAAAAGTCTTGCATTGCATCACGTGACCCGCTACTGTGGTTGGTTAAG
 CCAGGGAGTTTGTGAGAGAGTGACCCTAGGGATGCTCCCTGGAGGATATGAGCAGGACACGGAGTACGGC
 AACACAGCCCACCTAGGGGACTGCCACGAAAGTTTGCCTCCTTCAACTACACCAGATTACAAAATATTTG
 GCGGTCCAACATCTGACATGGAGGTATCCTCATCTTCTGTTACCACTGTGGCAAGTAGCCCAGAAATTAC
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 GCAGAATCCGCCAGTCTGTCACAGACTCCAGCGGAAGCTTCGCCAAGCTGAACGGCCTCTTTGACAGCC
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 ACTGCCACCAAACACGGATACAAAGTCCATGGCCGTGGACCACAGAGGCCAGCCTCCCGAGCTGGCTGCT
 CTCCCACGCCGAATCCACACCTGTCTCCACCAGAAGACCTGCAGGCCATGAAGAGCCACTCTGAGA
 AGGCCACAGCCACGGTCTTCAAGGAAAGAACCCCCAGTTTTTCTTCTAGTCTCCACCCCATTC
 CCCATTGAGTACGGGCATATCCCAGTCCATCGTTCTTCCAAACGCCACTCAGACTACAATACATCC
 TTCTCAAACCTCGAATGCCCAAAGCCGAAAAGAGCTTCAGAGCATGGATCACCCCTTACGAAGTCAT
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 CCGGTGGGACCAATGGCTGAGGTCCCACCAAGGTCCCTAACCGGGAGGCATCTCTATACTCCCCTCCCT
 CCACACTCCCCAGAAATAGTCCAACCAAGAGAGTAGATGTCCCCACCACTCCTGGGGTCCCAATGACTTC
 TCTGGAAGACAAAGGGTTATCACAAAATCCTCCCAGAGGCACTCTATATCTGCCGTGCCTAAAAAC
 TTAACCTACCAAATGGTGTGTTTGTATCTAGACAGCCGAGTATGAACCGTGGAGGCTATATGCCACCC
 CAACAGGGGCGAAGGTGACTATATTCAGGGGACACCGGTGAGTGTTTCTCTGACGCCCTCCCTCTCCAG
 ACAGAGCAGCTATACCAGTAATGGCACCCCTCCCAGGACGGGACTAAAGAGGACACCATCCCTTAAACCT
 GATGTGCCACCAAAGCCTTCTTTGTTCCGCAAACCACATCTGTGACACCACTGAACAAGTACACGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG224863 representing NM_199241

Red=Cloning site Green=Tags(s)

MGFLLLWFCVLFLVLSRLRAVSFPEDEPLNTVDYHYSRQYPVFRGRPSGNESQHRLDFQLMLKIRDLY
 IAGRDQVYTVNLNEIPQTEVIPS KKL TWRSRQQDRENCAMK GKHKDECHNF IKVFVPRNDEMVFVCGTNA
 FNPMCRYRLRLETDGEEISGLARCPFDARQTNVALFADGKLYSATVADFLASDAVIYRSMGDGSALRT
 IKYDSKWIKEPHFLHAIEYGNVYVFFREIAVEHNNLGKAVYSRVARICKNDMGGSQRVLEKHWTSFLKA
 RLNCSVPGDSFFYFDVLQSI TDI IQINGIPTVVG VFTTQLNSIPGSAVCAF SMDDIEKVF KGRFKEQKTP
 DSVWTAVPEDKVPKPRPGCCAKHGLAEAYKTSIDFPDDTLAFIKSHPLMDSAVPPIADEPWFTKTRVYR
 LTAIEVDRSAGPYQNYTVIFVGSEAGVVLKVLAKTSPFSLNDSVLLLEEIEAYNPAKCSAESEEDR KVVSL
 QLDKDHHALYVAFSSCVRIPLSRCERYGSCCKSCIASRDPYCGWLSQGV CERVTLGMLPGGYEQDTEYG
 NTAHLGDCHESLPPSTTPDYKIFGGPTS DMEVSSSVTTVASSPEITSKVIDTWRPKLTS SRKFVVQDDP
 NTSDFDTDISGIPKGV RWEVQSGESNQMVHMVNLITCVFAAFVLGAFIAGVAVYCYRDMFVRKNRKHKD
 AESAQSCDSSGSF AKL NGLF DSPVKEYQQNIDSPKLYSNLLTSRKELPNTDTKSMAVDHRGQPPELAA
 LPTPESTEPVLHQKTLQAMKSHSEKAHSHGASRKEHPQFFPSSPPPHSPLSHGHIPSAIVLPNATHDYNTS
 FSNSNAHKA EKKLQSM D HPLTKSSSKREHRRS VDSRNTLNDLLKHLNDPN SNP KAILGEIHMAHQ TMLMD
 PVGPMAEVPPKVPNREASLYSPPSTLPRNSPTKRVDVPTTPGVPMTSLERQRYHKNS SQRHSISAVPKN
 LNSPNGVLLSRQPSMNRGGYMP TPTGAKVDYIQGTPVSVHLQPSLSRQSSYTSNGTLPR TGLKRTPSLKP
 DVPPKPSFVPQTTSVRPLNKYTY

TRTRPLE - GFP Tag - V

Restriction Sites:

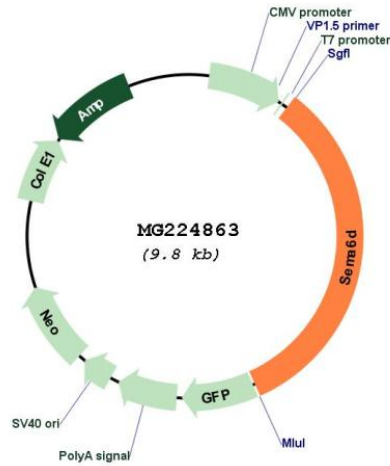
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



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:	<ol style="list-style-type: none"> 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
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]