

Product datasheet for **MG224045**

Sema6d (NM_199240) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sema6d (NM_199240) 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: >MG224045 representing NM_199240
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGTTCTTCTGCTTTGGTTCTGCGTGCTGTTCTTCTGGTCTCCAGGTTACGGGCGGTACAGCTTCC
 CAGAAGACGATGAGCCCCTCAACACGGTTGACTATCACTATTCAAGGCAATATCCGGTTTTAGAGGACG
 CCCTTCAGGCAACGAATCGCAGCACAGGCTGGACTTTCAGCTGATGTTGAAAATTCGAGACACACTTTAT
 ATTGCTGGCAGGGATCAAGTCTATACAGTGAACCTAAATGAAATCCCCAAACAGAGGTGATACCAAGCA
 AGAAGCTGACGTGGAGGTCAGACAGCAGGATCGAGAAAATTGTGCTATGAAAGGCAAGCATAAAGATGA
 ATGCCACAACCTCATCAAAGTCTTTGTCCCAAGAAATGATGAGATGGTTTTGTCTGTGGTACCAATGCT
 TTCAACCCGATGTGCAGATACTATAGGTTGAGAACGTTAGAGTATGATGGGGAAGAAATTAGTGGCTGG
 CACGATGCCCGTTTGATGCCCGACAAACCAATGTCGCCCTCTTTGCTGATGGAAACTCTATTCTGCCAC
 AGTGGCTGATTTCTGGCCAGTGATGCTGTCAATTTACAGAAGCATGGGAGATGGATCTGCCCTTCGCACA
 ATAAAATACGATTCGAAGTGGATCAAAGAACCACACTTCTTCATGCCATAGAATATGAAAATATGTCT
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 CGGTGAACCTGCTCCGTTCTGGAGATTCCTTTTCTACTTCGACGTCCTGCAGTCTATAACAGACATAA
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 GCTGATGGACTCTGCCGTCACCCATTGCCGATGAGCCCTGGTTCACAAAGACACGGGTACAGGTACAGG
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 AGAGATGAAGCTTATAACCCAGCCAAGTGCAGCGCCGAGAGTGAGGAGGACAGAAAGTGGTCTCATT



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CAGCTGGACAAGGATCACCATGCTTTATACGTGGCCTTCTAGCTGCGTGGTCCGCATCCCCCTCAGCC
 GCTGTGAGCGCTACGGATCGTGTAAAAAGTCTTGCATTGCATCACGTGACCCGCTACTGTGGTTGGTTAAG
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 TCAAGATGACCCAAATACTTCTGATTTTACTGATACTATATCAGGTATCCCAAAGGGTGTACGGTGGGAA
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 CTCACCCCATTTCCCATTTGAGTCACGGGCATATCCCAGTGCCATCGTCTTCCAAACGCCACTCAGCA
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 TGCCAATGACTTCTCTGGAAAGCAAAGGGTTATCACAAAAATCTCCAGAGGCACTCTATATCTGC
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 CCTCCCTCCAGACAGAGCAGCTATACCAGTAATGGCACCTCCCAGGACGGGACTAAAGAGGACACC
 ATCCTTAAAACCTGATGTGCCACCAAGCCTTCTTTGTTCCGCAAACCCATCTGTGACAGCCACTGAAC
 AAGTACACGTAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG224045 representing NM_199240
 Red=Cloning site Green=Tags(s)

MGFLLLWFCVLFLVLSRLRAVSFPEDDEPLNTVDYHYSRQYPVFRGRPSGNESQHRLDFQLMLKIRDLY
 IAGRDQVYTVNLNEIPQTEVIPS KKL TWRSRQQDRENCAMK GKHKDECHNF IKV FVPRNDEMVFVCGTNA
 FNPMCRYRLR L TLEYDGEEISGLARCPFDARQTNVALFADGKLYSATVADFLASDAVIYRSMGDGSALRT
 IKYDSKWIKEPHFLHAIEYGNVYVFFREIAVEHNNLGKAVYSRVARICKNDMGGSQRVLEKHWTSFLKA
 RLNCSVPGDSFFYFDVLQSI TDI IQINGIPTVVG VFTTQLNSIPGSAVCAF SMD D IEKVFKGRFKEQKTP
 DSVWTA VPEDKVPKPRPGCCAKHGLAEAYKTSIDFPDDTLAFIKSHPLMDSAVPPIADEPWFTKTRVYR
 LTAIEVDRSAGPYQNYTVIFV GSEAGVVLKVLAKTSPFSLNDSV LLEEIEAYNPAKCSAESEEDR KVVSL
 QLDKDHHALYVAFSSCVRIPLSRCERYGSCCKSCIASRDPYCGWLSQGV CERVTLGMLPGGYEQDTEYG
 NTAHLGDCHDMEVSSSVTTVA SPEITSKVIDTWRPKL TSSRKFVVD PNTSDFDTDISGIPKGV RWE
 VQSGESNQMVHMNVLITCVFAAFVLGAFIAGVAVYCYRDMFVRKNRKHKDAESAQSCTDSSGSF AKLNG
 LFDSPVKEYQQNIDSPKLYSNLLTSRKELPPNTDTKSMVDHRGQPPELAALPTPESTPVLHQTLQAMK
 SHSEKAHSHGASRKEHPQFFPSSPPHSPLSHGHIPSAIVLPNATHDYNTSF SNSNAHKA EKKLQSM DHP
 LTKSSSKREHRRSVDSRNTLNDLLKHLNDPNSNP KAILGEIHMAHQTLMLDPVGPMAEVPPKVPNREASL
 YSPPSTLPRNSPTKRVDVPTTPGVPM TSLERQRYHKNSSQRHSI SAVPKNLNSP NGLLSRQPSMNRGG
 YMPTPTGAKVDYIQGTPVSVHLQPSLSRQSSYTSNGTLPR TGLKRTPSLKPDPVPPKPSFVPQTTSVRPLN
 KYTY

TRTRPLE – GFP Tag – V

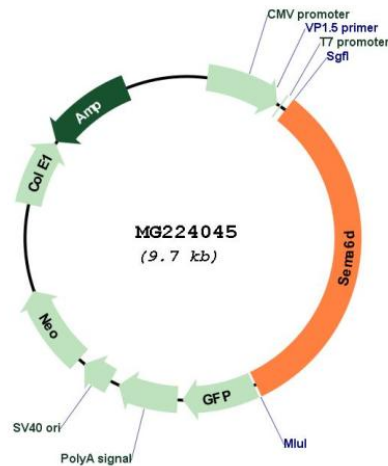
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



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:	<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_199240.3
RefSeq Size:	6470 bp
RefSeq ORF:	3165 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]