

Product datasheet for MR231544

Sema6d (NM_001291000) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sema6d (NM_001291000) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sema6d
Synonyms:	1110067B02Rik; AA409156; D330011G23; mKIAA1479
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR231544 representing NM_001291000 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGTTCCTTCTGCTTTGGTTCTGCGTGCTGTTCTTCTGGTCTCCAGGTTACGGGCGGTACGCTTCC
CAGAAGACGATGAGCCCCTCAACACGGTTGACTATCACTATTCAAGGCAATATCCGGTTTTAGAGGACG
CCCTTCAGGCAACGAATCGCAGCACAGGCTGGACTTTCAGCTGATGTTGAAAATTCGAGACACACTTTAT
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AGAAGCTGACGTGGAGGTCCAGACAGCAGGATCGAGAAAATTGTGCTATGAAAGGCAAGCATAAAGATGA
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TTCAACCCGATGTGCAGATACTATAGGTTGAGAACGTTAGAGTATGATGGGGAAGAAATAGTGGCCTGG
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AGTGGCTGATTTCTGGCCAGTGTGCTGTCATTTACAGAAGCATGGGAGATGGATCTGCCCTTCGCACA
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GCTGTGAGCGCTACGGATCGTGTAAAAAGTCTTGCATTGCATCACGTGACCCGACTGTGGTTGGTTAAG
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Protein Sequence:

>MR231544 representing NM_001291000
 Red=Cloning site Green=Tags(s)

MGFLLLWFCVLFLVLSRLRAVSFPEDDEPLNTVDYHYSRQYPVFRGRPSGNESQHRLDFQLMLKIRDLY
 IAGRDQVYTVNLNEIPQTEVIPS KKL TWRSRQQDRENCAMK GKHKDECHNF IKVFVPRNDEMVFVCGTNA
 FNPMCRYRLRLETDGEEISGLARCPFDARQTNVALFADGKLYSATVADFLASDAVIYRSMGDGSALRT
 IKYDSKWIKEPHFLHAIEYGNVYVFFREIAVEHNNLGKAVYSRVARICKNDMGGSQRVLEKHWTSFLKA
 RLNCSVPGDSFFYFDVLQSI TDI IQINGIPTVVG VFTTQLNSIPGSAVCAF SMD D IEKVFKGRFKEQKTP
 DSVWTAVPEDKVPKPRPGCCAKHGLAEAYKTSIDFPDDTLAFIKSHPLMDSAVPPIADEPWFTKTRVRYR
 LTAIEVDRSAGPYQNYTVIFVGSEAGVVLKVLAKTSPFSLNDSVLLLEEIEAYNPAKCSAESEEDRKYVSL
 QLDKDHHALYVAFSSCVRIPLSRCERYGSCCKSCIASRDPYCGWLSQGCERVTLGMLPGGYEQDTEYG
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 QSCTDSSGSFAKLNGLFDSPVKEYQNI DSPKLYSNLLTSRKELPPNTDTKSMVDHRGQPPELAALPTP
 ESTPVLHQKTLQAMKSHSEKAHSHGASRKEHPQFFPSSPPPHSPLSHGHIPSAIVLPNATHDYNTSFSNS
 NAHKAEEKLQSMDHPLTKSSSKREHRRS VDSRNTLNDLLKHLNDPNSNPKAILGEIHMAHQTLMLDPVGP
 MAEVPPKVPNREASLYSPPSTLPRNSPTKRVDVPTTPGVPM TSLERQRGYHKNSSQRHSISAVPKNLNSP
 NGVLLSRQPSMNRGGYMPPTGAKVDYIQGTPVSVHLQPSLSRQSSYTSNGTLPRPTGLKRTPSLKPDPVPP
 KPSFVPQTTSVRPLNKYTY

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

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:	<u>NM_001291000.1, NP_001277929.1</u>
RefSeq Size:	6509 bp
RefSeq ORF:	3210 bp
Locus ID:	214968
UniProt ID:	<u>Q76KF0</u>
Cytogenetics:	2 F1
MW:	119.9 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]