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Product datasheet for MR223629

Sema6d (NM_199239) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sema6d (NM_199239) 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:	>MR223629 representing NM_199239 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGGGTTCCTTCTGCTTTGGTTCTGCGTGCTGTTCCTTCTGGTCTCCAGGTTACGGGCGGTCAGCTTCC CAGAAGACGATGAGCCCCTCAACACGGTTGACTATCACTATTCAAGGCAATATCCGGTTTTTAGAGGACG CCCTTCAGGCAACGAATCGCAGCACAGGCTGGACTTTCAGCTGATGTTGAAAATTCGAGACACACTTTAT ATTGCTGGCAGGGATCAAGTCTATACAGTGAACTTAAATGAAATCCCCCAAACAGAGGTGATACCAAGCA AGAAGCTGACGTGGAGGTCCAGACAGCAGGATCGAGAAAATTGTGCTATGAAAGGCAAGCATAAAGATGA ATGCCACAACTTCATCAAAGTCTTTGTCCCAAGAAATGATGAGATGGTTTTTGTCTGTGGTACCAATGCT TTCAACCCGATGTGCAGATACTATAGGTTGAGAACGTTAGAGTATGATGGGGAAGAAATTAGTGGCCTGG CACGATGCCCGTTTGATGCCCGACAAACCAATGTCGCCCTCTTTGCTGATGGAAAACTCTATTCTGCCAC AGTGGCTGATTTCCTGGCCAGTGATGCTGTCATTTACAGAAGCATGGGAGATGGATCTGCCCTTCGCACA ATAAAATACGATTCCAAGTGGATCAAAGAACCACACTTCCTTCATGCCATAGAATATGGAAACTATGTCT ATTTCTTCTTCAGAGAAATCGCCGTGGAACATAATAACTTAGGCAAGGCTGTGTATTCCCGCGTGGCTCG CATTTGTAAAAACGACATGGGTGGCTCACAGCGGGTCCTGGAGAAACACTGGACTTCCTTCCTTAAGGCT CGGCTGAACTGCTCCGTTCCTGGAGATTCCTTTTTCTACTTCGACGTCCTGCAGTCTATAACAGACATAA TCCAAATCAATGGCATCCCCACTGTGGTTGGGGTCTTCACCACACAGCTCAACAGCATTCCTGGTTCTGC AGTCTGTGCCTTTAGCATGGACGACATTGAGAAAGTGTTCAAAGGGCGGTTCAAAGAGCAGAAAACCCCA GACTCTGTTTGGACAGCAGTTCCCGAAGACAAAGTACCAAAACCAAGGCCTGGCTGTTGTGCCAAACACG GCCTCGCAGAAGCTTACAAGACCTCCATCGACTTTCCAGATGACACCCTGGCTTTCATCAAGTCCCACCC GCTGATGGACTCTGCCGTCCCACCCATTGCCGATGAGCCCTGGTTCACAAAGACACGGGTCAGGTACAGG TTGACAGCCATCGAAGTGGACCGTTCAGCAGGGCCATACCAAAACTACACAGTCATCTTTGTTGGCTCTG AAGCTGGCGTGGTACTTAAAGTTTTGGCAAAGACCAGTCCTTTCTCTCTGAATGACAGTGTATTACTCGA AGAGATTGAAGCTTATAACCCAGCCAAGTGCAGCGCCGAGAGTGAGGAGGACAGAAAGGTGGTCTCATTA CAGCTGGACAAGGATCACCATGCTTTATACGTGGCCTTCTCTAGCTGCGTGGTCCGCATCCCCCTCAGCC

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Protein Sequence:

>MR223629 representing NM_199239
Red=Cloning site Green=Tags(s)

MGFLLLWFCVLFLLVSRLRAVSFPEDDEPLNTVDYHYSRQYPVFRGRPSGNESQHRLDFQLMLKIRDTLY
IAGRDQVYTVNLNEIPQTEVIPSKKLTWRSRQQDRENCAMKGKHKDECHNFIKVFVPRNDEMVFVCGTNA
FNPMCRYYRLRTLEYDGEEISGLARCPFDARQTNVALFADGKLYSATVADFLASDAVIYRSMGDGSALRT
IKYDSKWIKEPHFLHAIEYGNYVYFFFREIAVEHNNLGKAVYSRVARICKNDMGGSQRVLEKHWTSFLKA
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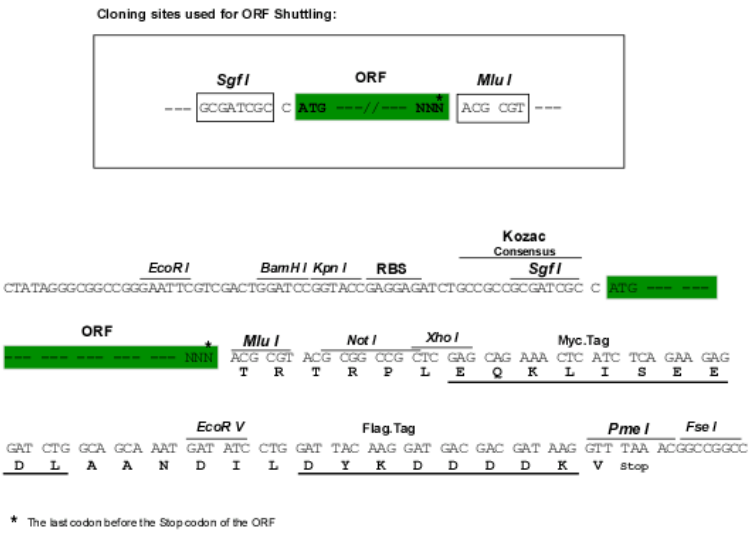
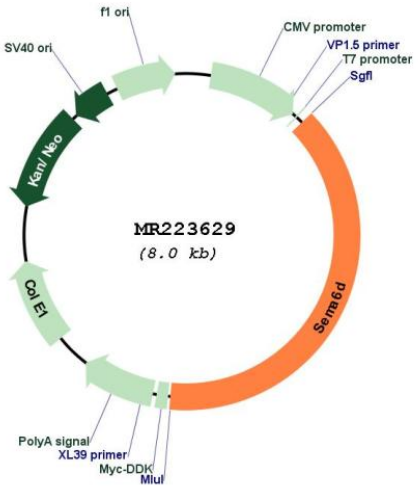
Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_199239

ORF Size: 3090 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_199239.3
RefSeq Size:	6398 bp
RefSeq ORF:	3093 bp
Locus ID:	214968
UniProt ID:	Q76KF0
Cytogenetics:	2 F1
MW:	115.8 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]