

## Product datasheet for **MG224852**

### Sema6d (NM\_172537) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Sema6d (NM\_172537) 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:** >MG224852 representing NM\_172537  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**C

ATGGGGTTCCTTCTGCTTTGGTTCTGCGTGCTGTTCTTCTGGTCTCCAGGTTACGGGCGGTACAGCTTCC  
 CAGAAGACGATGAGCCCCTCAACACGGTTGACTATCACTATTCAGGCAATATCCGGTTTTAGAGGACG  
 CCCTTCAGGCAACGAATCGCAGCACAGGCTGGACTTTCAGCTGATGTTGAAAATTCGAGACACACTTTAT  
 ATTGCTGGCAGGGATCAAGTCTATACAGTGAACCTAAATGAAATCCCCAAACAGAGGTGATACCAAGCA  
 AGAAGCTGACGTGGAGGTCAGACAGCAGGATCGAGAAAATTGTGCTATGAAAGGCAAGCATAAAGATGA  
 ATGCCACAACCTCATCAAAGTCTTTGTCCCAAGAAATGATGAGATGGTTTTGTCTGTGGTACCAATGCT  
 TTCAACCCGATGTGCAGATACTATAGGTTGAGAACGTTAGAGTATGATGGGGAAGAAATTAGTGGCTGG  
 CACGATGCCCGTTTGTGCCCCGACAAACCAATGTCGCCCTCTTTGCTGATGGAAAACCTATTCTGCCAC  
 AGTGGCTGATTTCTGGCCAGTGATGCTGTCAATTTACAGAAGCATGGGAGATGGATCTGCCCTTCGCACA  
 ATAAAATACGATTCGAAGTGGATCAAAGAACCACACTTCCTTCATGCCATAGAATATGAAAACATGTCT  
 ATTTCTTCTCAGAGAAATCGCCGTGGAACATAATAACTTAGGCAAGGCTGTGTATCCCGCGTGGCTCG  
 CATTTGTAAAAACGACATGGGTGGCTCACAGCGGGTCTGGAGAAACACTGGACTTCCTTCTTAAGGCT  
 CGGCTGAACCTGCTCCGTTCTGGAGATTCCTTTTCTACTTCGACGTCCTGCAGTCTATAACAGACATAA  
 TCCAAATCAATGGCATCCCCACTGTGGTTGGGCTTCCACACACAGCTCAACAGCATTCTGGTTCTGC  
 AGTCTGTGCCCTTAGCATGGACGACATTGAGAAAGTGTCAAAGGGCGGTTCAAAGAGCAGAAAAACCCCA  
 GACTCTGTTTGGACAGCAGTTCCCGAAGACAAAGTACCAAAACCAAGGCCTGGCTGTTGTGCCAAACACG  
 GCCTCGCAGAAGCTTACAAGACCTCCATCGACTTTCAGATGACACCCTGGCTTTCATCAAGTCCCACCC  
 GCTGATGGACTCTGCCGTCACCCATTGCCGATGAGCCCTGGTTCACAAAGACACGGGTACAGGTACAGG  
 TTGACAGCCATCGAAGTGGACCGTTCAGCAGGGCCATACCAAACTACACAGTCATCTTTGTTGGCTCTG  
 AAGCTGGCGTGGTACTTAAAGTTTTGGCAAAGACCAGTCTTTCTCTGAAATGACAGTGTATTACTCGA  
 AGAGATGAAGCTTATAACCCAGCCAAGTGCAGCGCCGAGAGTGAGGAGGACAGAAAGTGGTCTCATT



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CAGCTGGACAAGGATCACCATGCTTTATACGTGGCCTTCTCTAGCTGCGTGGTCCGCATCCCCCTCAGCC  
 GCTGTGAGCGCTACGGATCGTGTAAAAAGTCTTGCATTGCATCACGTGACCCGACTGTGGTTGGTTAAG  
 CCAGGGAGTTTGTGAGAGAGTGACCCTAGGGATGCTGCTGTTAACCGAAGACTTCTTTGCTTTCCATAAC  
 CACAGCCCTGGAGGATATGAGCAGGACACGGAGTACGGCAACACAGCCCACCTAGGGGACTGCCACGGTG  
 TACGGTGGGAAGTCCAGTCTGGAGAATCCAATCAGATGGTCCACATGAATGTCCTCATCACCTGCGTGTT  
 TGCCGCTTTTGTCTTGGGCGCGTTCATCGCAGGAGTGGCCGTGTACTGCTACCGTGACATGTTTCGTTCCG  
 AAGAACAGAAAGATCCATAAAGACGCGAGAATCCGCCAGTCCGTCACAGACTCCAGCGGAAGCTTCGCCA  
 AGCTGAACGGCCTCTTTGACAGCCCGTCAAGGAATACCAGCAGAACATTGATTCTCCAAACTCTACAG  
 CAACCTGCTGACCAGTCCGAAGGAACTGCCACCAAACACGGATACAAAGTCCATGGCCGTGGACCACAGA  
 GGCCAGCCTCCCGAGCTGGCTGCTCTCCCCACGCCGGAATCCACACCTGTCTCCACCAGAAGACCCCTGC  
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 TCCTTCTAGTCTCCACCCATTCCCATTTGAGTACGGGCATATCCCCAGTGCCATCGTCTTCCAAAC  
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 TGGATCACCTCTTACGAAGTCCAGTAAGCGGGAGCACCGGGGTCTGTGGATTCCAGGAATACTCT  
 CAATGATCTCCTGAAGCATCTAAATGACCCAAACAGTAACCCAAAGCCATCCTGGGAGAGATCCATATG  
 GCTCATAAACCTCATGCTGGACCCGGTGGGACCAATGGCTGAGGTCCCACCCAAAGTCCCTAACCCGGG  
 AGGCATCTCTATACTCCCTCCCTCCACTCCCCAGAAATAGTCCAACCAAGAGAGTAGATGTCCCCAC  
 CACTCCTGGGGTGCCAATGACTTCTCTGAAAGACAAAGGGTTATCACAAAAATTCCTCCAGAGGCAC  
 TCTATATCTGCCGTGCCTAAAACTTAACTCACCAAATGGTGTGTTTGTATCTAGACAGCCGAGTATGA  
 ACCGTGGAGGCTATATGCCACCCCAACAGGGGCGAAGGTGGACTATATTCAGGGGACACCGGTGAGTGT  
 TCATCTGCAGCCCTCCCTCTCCAGACAGAGCAGCTATACCAGTAATGGCACCCCTCCCCAGGACGGGACTA  
 AAGAGGACACCATCCTTAAAACCTGATGTGCCACCAAAGCCTTCCCTTGTCCGCAAACCATCTGTCA  
 GACCACTGAACAAGTACACGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG224852 representing NM\_172537  
 Red=Cloning site Green=Tags(s)

MGFLLLVFCVLFLLVSRRLRAVSFPEDDEPLNTVDYHYSRQYYPVFRGRPSGNE SQHRLDFQLMLKIRDLY  
 IAGRDQVYTVNLNEIPQTEVIPSKKLTWRSRQQDRENCAMKGGKHKDECHNFIKVFVPRNDEMVFVCGTNA  
 FNP MCRYRLRLTEYDGEIISGLARCPFDARQTNVALFADGKLYSATVADFLASDAVIYRSMGDGSALRT  
 IKYDSKWIKEPHFLHAIIEYGNVYFFFREIAVEHNNLGKAVYSRVARICKNDMGGSQRVLEKHWTSFLKA  
 RLNCSVPGDSFFYFDVLQSIDIIQINGIPTVVGFTTQLNSIPGSAVCAF SMDDIEKVFKGRFKEQKTP  
 DSVWTVAVPEDKVPKPRPGCCAKHGLAEAYKTSIDFPDDTLAFIKSHPLMDSAVPPIADEPWF TKTRVYR  
 LTAIEVDRSAGPYQNYTIVFGSEAGVVLKVLAKTSPFSLNDSVLLLEEIEAYNPAKCSAESEDRKVVSL  
 QLDKDHHALYVAFSSCVRIPLSRCERYGSCCKSCIASRDPYCGWLSQGV CERVTLGMLLLTEDFFAFHN  
 HSPGGYEQDTEYGNTAHLGDCHGVRWEVQSGESNQMVHMNVLITCVFAAFVVGAFIAGVAVYCYRDMFVR  
 KNRKIHKDAESAQSCTDSSGSFAKLNLGFDSPVKEYQQNIDSPKLYSNLLTSRKELPPNTDTKSMAVDHR  
 GQPELALPTPESTPVLHQKTLQAMKSHSEKAHSHGASRKEHPQFFPSSPPPHSPLSHGHIPSAIVLPN  
 ATHDYNTSFSNSNAHKAIEKQLQSMHPLTKSSSKREHRRSVDSRNTLNDLLKHLNDPNSNPKAILGEIHM  
 AHQTLMLDPVGPMAEVPPKVPNREASLYSPPSTLPRNSPTKRVDVPTTPGVPM TSLERQRYHKNSSQRH  
 SISAVPKNLNSPNGVLLSRQPSMNRGGYMPPTGAKVDYIQGTPVSVHLQPSLSRQSSYTSNGTLPR TGL  
 KRTPSLKPDVPPKPSFVPTTSVRPLNKYTY

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_172537.4</a> , <a href="#">NP_766125.2</a>
<b>RefSeq ORF:</b>	3036 bp
<b>Locus ID:</b>	214968
<b>UniProt ID:</b>	<a href="#">Q76KF0</a>
<b>Cytogenetics:</b>	2 F1
<b>Gene Summary:</b>	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]