

Product datasheet for MC225047

Plxnd1 (NM_026376) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plxnd1 (NM_026376) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Plxnd1
Synonyms:	6230425C21Rik; b2b553Clo; b2b1863Clo
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC225047 representing NM_026376 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCGTCGCGCCGCGGGCGGCACCCCTAGCGCCGGGCGCGCGGCCGTCCCCTTGCCTCCG
GCCCTCACTCGCGGGCCCTGGTCTGCTGCCGTGCCTCTGCTGCTGCTGCTCGGGCGGCACGGGCCG
CGCCCTAGAGATCCAGCGCCGTTTCCCCTCGCCACGCCACCAACAACCTTCGCCCTGGACGGCAGGGC
GGCACCCTGTACTTGGCGCAGTGAACCGCTGTACCAACTGTCGAGTGCCAACCTTGAGCCTGGAAGCCG
AGGCGACCGTGGGTCCCCTGCCGACAGCCCGTGTGTACGCCCGCAGCTCCCGCAGGCCTCGTGCGA
GCACCCGCGGCCCTCACGGACAATAACAATAATCCTGCAGTTGGACCCGGGCCAGGGTCTGGTGGTC
GCGTGCCGCTCCATCTACCAGGGTCTGTGCCAGCTGAGGCGCCGGGGCAACATCTCAGCCCTGGCCGTGA
GCTTTCGCCCTGCCGCGCCGACCGCAGAACCGGTACCGTGTTCGCCAGCATGCTCAACGTGGCCGCAA
CCACCCCAACCGTCCACTGTGGGACTGGTGTGCCGCTACCTCGGGCACCGGGGGCAGCCGTCTGCTC
GTGGGCGCCACGTACACCGGCTTCGGCAGCGCTTCTTCCCGCAACCGTAGCCTAGAAGACCACCGCT
TCGAGAACACGCCGAGATCGCTATCCGCTCCCTGGACGCGCTGGAGACTTGGCCAAGCTTTACCTT
CGACCTTAACCGTCGGACGATAACATCCTGAAGATCAAGCAGGGCGCCAAGGAGCAGCACAAGCTGGGC
TTCGTGGTGCCTTCTTGACCCGGCGGTGCCACCGCACAGCGCAGCCCTACCGGTACCTGGCGCTCA
ACAGCGAGGCGCGTGCAGGCGACAAGGACAGCCAGGCGCGCAGCCTGCTGGCGCGCATCTGCCTGCCCG
CGGCGCGGGTGGCGACGCAAGAAGCTCACCGAGTCTACATCCAACCTGGGCTTGCAGTGCAGCGGGCGG
GCGGGCGCGGCGACCTTACAGCCGCTCGTGTGGTTTTCCCGCGCGCAGCAGTCTTTCGCTGTCT
TCGAGAGGCCCCAGGGCGCCCAAGTGCAGCGAACGCCCGCGCGCTTTCGCGCTTCCGCTTCGACGA
CGTGCAGGCTGCCATTCGTGCAGCGCACCGCCTGCTTTCGTGGAGCCGGCGCCGACGTGGTGGCGGTG
TTGGACAGTGTGGTGCAGGGCACCGGGCCGGCTGCGAGAGCAAGCGCAACATACAGCTGCAGCCGGAGC
AACTGGATTGCGGAGCGGCCACCTGCAGCACCACTGACCATCTGCAGCCGCTGAGGGCATCGCCGT
GTTCCGTGCTCCAGGGCTCACGGCGTGGCTGTGGCCAGTGCCAACAACCTACACGGCCGCTTTCTGGG



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ACCGCCACAGGGAGGCTCCTCAAGATCAGCCTGAACGAGAGCATGCAGGTAGTAAGCAGGCGAGTGCTGA
 CTGTAGCCTATGGGGAGCCTGTGCATCAGCTCATGCAGTTTGACCCCATGGATCCTGGTTACCTATACT
 GATGACATCCCACCAGATGGCCCGAGTGAAGGTGGCAGCGTGTGAGGTACACTCCACCTGCGGGGACTGC
 GTGGGTGCGGCCGATGCCTACTGTGGTTGGTGCACCTCTGGAGACCCGGTGACACTCCAGCAGGATTGCA
 CCAACTCCAGCCAGCCACATTTCTGGACCAGTGCCAGTGAGGGCCCCAGCCGCTGCCCTGCCATGACAGT
 ACTGCCCTCGGAGATTGATGTGCACCCGGGACTACACAGGTATGATCTTACAGATCTCAGGAAGCCGTGCC
 AGCCTCAGCGGCATGGAGATGGCTTGTGACTATGGAAATGGCGTTCGAACGGTGGCCCGGGTACCTGGCC
 CTGCCTATGATCATCAGATTGCCTACTGCAATCTCCTGCCAGGGCCAGTTTCCATCCTTTCTGTCTGG
 CCAGGACCACGTGACCCTTGAGATGTCTGTAAGGGTCAAAGGACACAACATTGTCTCAGCCAATTTACC
 ATCTACGACTGCAGCCGAATTGGACAAGTCTACCCCATACAGCCTGTACCAGCTGCCTGTCCACACAGT
 GGCCTTGTCTGGTGCATCCAGCTGCATTATGTGTCTCCAACCAGTCTCAGTGCCAGGACTCGCCAAA
 CCCCACGAGTCTCAGGACTGTCCCAGATCCTGCCCTCGCCCTAGCGCCCGTCCACAGGTGGCTCC
 CAAGACATCCTGGTGGCCCTGACTAAGCCACCTTCTCCATGGTTCTCCCTCGAGTGCAGCTTTGGG
 TGAAGAGAGCTTTGAGGCTGTATGGGGAATAACTACTGGTCCGCTGCAACCAAGTGGTGTGCACAC
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 CCTAACCCCATGACAGTTGTGGTCTACAACGTGCTATGGGCAGCCCTGACTGTTCCAGTGCCTGGGCC
 GTGAGGACCTGGGTACCTCTGTGTTTGAATGATGGCTGTCTGTAAGAGGGCCCTGCAGCCACTCCC
 TGGCACCTGCCAGCCCTGAAATCCGAGCGATTGAGCCTCTGAGTGGCCCTTGGACGGTGGGACTTTG
 CTGACCATCCGTGGCAGGAACCTGGGCCGTGGCTCAGTGATGTGGCAGTGGTGTGGATTGGCAGTG
 TGGCCTGTGAACCCCTGGCTGACAGATACACCGTTTTCAGAGGAGATCGTGTGTGCCACAGGGCCTGCCG
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 GTGTGCCACAGTCCACTCACTGGAGCCTTCCATGGGCCAAAGGCCGGGGTACAAGGATCACCATT
 ACGGCAGTGACCTCAACGTGGGCTCTATGCTCCAGTCTGGTGAATGACACGGACCCCTGCACAGTCT
 TACGCGACAGCCACCAGCATCACCTGCACGTGCCAGGGGTACCCTGCCCTCCTCAGTGCCTGTGTGT
 GTGCGCTTCGAGAGCCGGGGTGCCTGCACGAAACCTCACCTTCTGGTACATGCAGAACCCAGTCA
 CAGCCATCAGCCAGGCCGAGCCCTGTGAGTGGCGCAGGACCATCACTGTGGCTGGCAACGCTTCCA
 CATGGTGCAGAAATGATCAATGGCTGTACACCATTGGCCGGGAGCCACGTTCTGCAAGGTTCTCAAC
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 ATGGCCGGGCATATGCAGACGAGGCAGCCGAGGAGCTGCTGGACCCTGCAGAGGCACAGAGGGCAGCCG
 GTTCCGCTAGACTACCTCCCAACCCACAGTTCTCCACAGCCAAGAGGAGAAGTGGATCAAACATCAC
 CCAGGAGAGCCGCTCACCTCGTATCCATAAGGAGCAAGACAGCCTGGGGCTGGAGAGCCATGAGTACC
 ACATCAAGATTGGCCAGGTGCCTGCGACATCCAAATCATCTCAGACAGAGTATCCACTGCTCAGTCAA
 TGAGTCTGTTGGCAGGGCTGAAGGACAGCTGCCCATACAATCCAGGTGGGGAACTTCAACCAGACCATC
 GCCACACTGCAACTGGGGGGCAGCGAGACGGCCATTGTGGTGTCCATCGTCACTGTCAGTGTCTGTTGC
 TGCTGTCTGTGGTTGCTCTGTTCTGCTTCTGCACCAAGAGCCCGCTGCCGAGCGCTACTGGCAGAAGAC
 CCTGCTGCAGATGGAAGAGATGGAGTCTCAGATCCGAGAGGAGATCCGTAAAGGCTTTGCGGAGCTGCAG
 ACAGACATGACGGATCTACCAAGGAGTGAACCGCAGCCAGGGCATCCCCTTCTGGAGTACAAGCACT
 TCGTACTCGAACCTTCTCCCAAGTCTCTCCCTATGAAGAGCGGTATGTGCTGCCCTCGAAGAC
 CCTCAACTCCCAGGGTGGTCCCCGCCACAGGAAACCCACTGCTGGGAGAGTGAACATCCCTGAA
 CACTGTGCGCCAGCATGGAGGAGGGATCAGCCTGTTCTCCTCACTGCTCAACAACAAGCACTTCTCA
 TCGTCTTCTGCTCATGCTCTGGAGCAGCAGAAGGACTTCGAGTGCCTGACAGGTGCAGCCTGGCGTCCCT
 GCTGACCATCGCGCTGCACGGCAAGCTGGAGTACTATACGAGCATCATGAAGGAGCTGCTCGTGGACCTC
 ATCGACGCTCGGCGGCCAAGAACCCCAAGCTCATGTTGCGGCGCAGGAGTCTGTGGTGGAGAAGATGC
 TTACCAACTGGATGTCCATCTGCATGTACGGCTGCCTGAGGGAGACAGTGGTGGACCGTTCTTCTGCT
 GTTGTGTGCCATCAAGCAGCAGATCAACAAAGGCTCCATCGACGCCATCACAGGCAAAGCCCGCTACACA
 CTCAACGAGGAGTGGCTGCTGAGGGAGAACATTGAGGCCAAGCCCGGAACCTGAACTGCTCCTCCAGG
 GCTGTGGGATGGACTCCCTCAGCGTGGCGGCCATGGACACCGACAGCTGACGCAAGTGAAGGAGAAGAT
 CCTGGAAGCCTTCTGCAAGAACGTCCCCACTCACAGTGGCCGCGGGCGGAGGACGTGGACCTTGAATGG
 TTTGCCTCGAGTACCCAGAGTACGTCTCCGGGACCTGGATGACACATCAGTGGTGGAGGACGGCCGTA
 AGAACTGAACACACTGGCCACTACAAGATACCTGAGGGCGCCTCCCTAGCCATGAGCCTCACAGACAA
 GAAGGACAGTACCCTGGGAGAGTGAAGACTTGGACACAGAAAAGTATTTCCATTTGGTGTACCTACG
 GATGAGCTGGTAGAGCTAAGAAATCTCACCGCAGAGCCACCGCAAGAAAGTATTGCCAGAGATCTACC

TGACCCGCCTGTGTCCACCAAGGGCAGCTGCAGAAGTTCTAGATGACCTGTTCAAGGCTATCCTGAG
 CATCCGAGAGGACAAGCCCCGCTGGCTGTCAAGTATTTCTTTGACTTCCTAGAGGAACAGGCGGAGAAG
 AGAGGCATCTCCGACCCTGACACCCTGCATATCTGGAAGACCAACAGCCTTCCCCTGCGCTTCTGGGTGA
 ACATCTTAAAAATCCCAGTTTGTCTTCGACATAGAGAAGACGGACCACATCGACGCCTGCCTGTCTGT
 CATCGCACAGGCCTTCATCGATGCTTCCATCTCTGACCTGCAGCTGGCAAGGACTCACCCACCAAC
 AAGCTTCTGTACGCGAAGGAGATCCCTGAGTACCGGAAGACCGTACAGCGCTATTATAACAGATCCAAG
 ACATGACGCCGCTCAGCGAGCAGGAAATGAACGCACACCTGGCCGAGGAGTCTCGGAAATACCAGATGA
 GTTCAACACAAAACGTGGCCATGGCTGAGATTTATAAATATGCTAAGAGGTATCGACCACAGATCATGGCT
 GCCCTGGAGGCCAACCCACAGCCCGCAGGACCAGCTACAGCACAAGTTTGAACAGGTGGTGGCTCTGA
 TGGAAAACAATATCTATGAGTGTACAGCGAGGCC**TGA**

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-RsrII

ACCN:

NM_026376

Insert Size:

5778 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](#)

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_026376.3](#), [NP_080652.2](#)

RefSeq Size:

6913 bp

RefSeq ORF:

5778 bp

Locus ID:

67784

UniProt ID:

[Q3UH93](#)

Cytogenetics: 6 E3

Gene Summary: Cell surface receptor for SEMA4A and for class 3 semaphorins, such as SEMA3A, SEMA3C and SEMA3E. Plays an important role in cell-cell signaling, and in regulating the migration of a wide spectrum of cell types. Regulates the migration of thymocytes in the medulla. Regulates endothelial cell migration. Plays an important role in ensuring the specificity of synapse formation. Mediates anti-angiogenic signaling in response to SEMA3E. Required for normal development of the heart and vasculature.[UniProtKB/Swiss-Prot Function]