

Product datasheet for MC225180

Plxnb1 (NM_172775) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Plxnb1 (NM_172775) Mouse Untagged Clone
Tag: Tag Free
Symbol: Plxnb1
Synonyms: 2900002G15Rik; AU042020; mKIAA0407
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC225180 representing NM_172775
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTCTGTCTCGGCCAGTTCTTCTCCAGGTGTTCTGGGCCGGGTGTGTCGTCACCCTGCGGTCCCCTC
 TGCCAGCTGCTTCACTGCCAATGGCACACATCTACAACACTTGGCAAGGGACCCACCACAGGTACCCT
 CTATGTAGGGGCCACCACTTCTGTTCCAGTTGAGCCCTGGGCTGCAGCTGGAAGCCGTGGTGTCCAGC
 GGCCCTGTGAATGACAGCCGGGATTGCCTGCCACCTGTGATACCTGATGAATGTCCCAAGCCAGCCCTA
 CTAACAACCCTAACCAGCTGCTCCTGGTGAAGCCAGAGGCTCTGGTGGTGTGGGAGCGTACACCAGGG
 CATCTGTGAGCTACGGAGCCTGGGACAGATCAGGCAGCTGCTGCTACGGCCAGAGCGACCTGGGGACACC
 CAGTATGTGGCTGCAAAATGACCTGCAGTCAGTACAGTGGGGCTGGTGGCCAGGGATTGGTAGGGGAGC
 CCCTCCTGTTTGTGGGGCGGGGTACACCAGCAGGGGTAGGTGGTGGGATTCTCCCATTACAACCCG
 AGCCCTGCGACCACCGGACCCCAAGCTGCCTTCTCTTATGAAGAAACAGCCAAGTTAGCAGTGGGCCG
 CTGTCCGAGTACAGCCACCACTTCGTGAGTGCCTTGTACGCGGGGCCAGTGCATACTTCTGTTCTTGC
 GGCGAGACCTGAAGGCCCTTCTAGAGCTTCCGTGCCTATGTGTCTCGAGTGTGCCTTCAGGACAGCA
 CTAATACTCTTATGTGAATTGCCCTGGCCTGCCAGGGTGGTCTGTTACGGTCTTATCCAGCTGCAGCT
 GTAGCCACGTCCAAGGAGGTGGCCCGTGGGACGTACTCTTTCAGCTTTCTCCTCAGTGCTCCTCCCA
 CTGTGGATTGGCCCTGTGAGCATCTACTGGGGCATCTGGAACCTCTGTGCTCTGTGCCTCCCCCTGGA
 TGAGGTAGACCAGCTTGTAAATTACACTCGAGATGCCTGTTATACTCGGGAAGGCCGTGCTGAGAACGGG
 ACCAAGGTTGCTGACATTGCATACGATGCCTTTCGACTGTGCGCAGCTACCAGTGACACCCCGGATG
 CTTTTCCATGTGGCTCTGACCACACACCAGTCCCATGGTCAGCTGTGTCCCTTGGGAGCCAGCCAAAT
 TCTGGAGTACCAGGGTTCAGCTAACAGCTGTGGCTGCACCATGGAGGATGGACACACTATTGCTTTC
 CTGGGTGACAGTCAAGGACAGTTGCATAGGGTCTACTTAGCCCTGGAAGAAGTGTGCCCATATTCTA
 AACAGAGCATCCAGCCGGGTCTCCTGTGAACAGAGATCTTACCTTTGATGGTACCTTTGAGCATCTCTA
 TGTAGCAACTCAGACTACTCTTGTGAAGTTTCTGTGGCTCCTGTGCTCAGCATCTGGACTGTGACTCT
 TGCTTGTCTCACAGGGACCCCTATTGCGGATGGTGTGCTCCTGGGCAGGTGTAGTCGCCGGTCCGGAGT



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GCTCAAGGGACCAGGGCCAGAGCAGTGGCTGTGGAGCTTCCAGCCGGAAGTGGGCTGTCTCGAGTGGT
 GGCCGTGAGCCCTGCCAATATCAGTCGGGAAGAGAGGAGGGAGGTTTTCTTGTGAGTCCAGGCCTGCCA
 TCTCTCTGGCCAGGGGAGTCATATTTCTGCTACTTTGGAGACCAACAGAGTCCTGCTCTACTGACCAGTT
 CTGGTGTGATGTGTCCTCCAGACCCAGTGAAGGCTCCAGTGTGCAGAGAGGAGCCGACCATATCTC
 TGTGAACGTGGAGCTCAGGTTTGGTGCCGTGGTGTGATCGCCAGCACCTCCCTCTCCTTCTATGACTGCGTG
 GCAGTTACTGCGTCTTCCCATCTGCACCGTCCGGCCCTGTGTGAGCAGCCGCTGGGGCTGTAACCTGGT
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 CAGCCTCGACTACCAGTACGACACCCCGGCTCTGGGAGCTGGGAGAGGTGAATCAGAGGGTGAGCTCC
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 GAGGCAGGAACCTGTGGCTTTCCAGGATGGCCGAGGAGCAGCGAGTGTGTGCTGGAGCTAGGGAGTGC
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 GCAGGATGCTGGACATGGTGCAGAGTGGCCGGAGTCCCTGCGCTGTGGATGCTGGGGAGTATGATGTC
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 GAGTGACCGTGGTCCCAAGACAGCATGGCCAGGGGCTTGACAGAAAGCAACACGTGGTCCCTGAGAAATT
 TGAGGAGCCGTGTCTCGTGAACCTCCACCTCCTCATGTGCCGCACTCCCGCTCTCCCTGGCCCAACC
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 CACCCTTCTCCTATGAGGCTGATCCACCTGCGTTCCCTGAACCCGAGGATCCAGCAGCCGTTCCG
 GCACAAGCCAGGGAGTGTGTTCTCTGTGGAGGGGAGAATCTGGACCTCGCCATGTCTAAGAAGAGGTG
 GTGGCCATGATAGGGGACGGCCCTGCGTGGTAAAGACACTGACCCGGAACCACTGTACTGTGAGCCCC
 CTGTGGAGCAGCCCTGCCACATCCCCATGCCCTCCGAGAGGCTCCAGATGCTTTGCCTGAGTTCACGGT
 ACAGATGGGCAACCTGCGCTTCTCCTTGGGTGATGTGCAGTACGATGGCAGAGCCCGTGGCTTTTCT
 GTGGCAGCCCAAGTGGGCTTGGGAGTGGGCACGTCTCTCCTGGCTCTGGGTGTCATCATATTGCTCTCA
 TATACAGGAGGAAGAGCAAGCAGGCCCTGAGGGACTATAAGAAAGTGCAGATCCAGCTGGAGAACCTGGA
 GAGCAGTGTACGGGACCGCTGTAAGAAGGAGTTTACAGACCTCATGACGGAGATGACGGATCTCACCAGT
 GACCTCCTTGGCAGCGGTATCCCCTTCTTACTACAAAGTGTATGCTGAGAGGGTCTTCTCCCTGGGT
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 GGGGCAGCTCTCAAACCTGCTAAACAGCAAGCTTCTTACCAAGTTTCAACACACTGGAGAGTCTCAG
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 AATACTTACGGACATACTGCGGACTCTGCTCAGTACCTGGTAGCTCAGTATGTTGCCAAGAACCCCAA
 GCTGATGCTGCGCAGGACAGAGACCGTGGTAGAAAAGTGTCTACCAACTGGATGTCCATCTGCCTCTAC
 ACCTTTGTGAGGGACTCTGTGGGAGAGCCTCTGTATATGCTCTTCCAGAGGGATTAAGCATCAAGTGGACA
 AGGGTCCCGTGGACAGTGTGACTGGCAAAGCCAATACACTCTGAATGACAACCGCTGCTCAGAGAGGA

TGTGGAGTACCGTCCCTTGACCTGAATGCTCTTCTGGCTGTGGGGCCTGGGGCAGGAGAAGCCAGTGT
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 AGGGAGTGCCCTTTGCCAGCGGCCGACTCTTGACACCTTGGATGTTGAATGGCGGTCTGGAGTGGCTGG
 GCACCTTATCCTTTCTGATGAGGACGTCACTTCCGAACCCAGGGTCTGTGGAGGCGTCTGAATACACTG
 CAACATTACAAGGTCCCAGATGGAGCAACGGTGGCCCTGTCCCTGCCTACCAAGCATATTCTTAGGG
 AAAACCAGGATTATGTCCTGGGAAACGGACCCCAATGCTGGAGGATGTAGATGAGGGGGCATCCGGCC
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 CTTCTTTGACTTGCTGGATGAACAAGCTCAGCAGCATGGCATCTCTGATCAGGATACTATCCACATCTGG
 AAGACCAACAGCCTGCCGCTAAGGTTCTGGATCAACATCATCAAGAACCACAGTTTGTGTTGATGTGC
 AGACTTCGGATAACATGGATGCTGTGCTCCTGGTCATTGCACAGACCTTCATGGATGCTTGCACCCTGGC
 CGACCACAAGCTGGGCCGGATTCTCCATCAACAACTTCTGTATGCTCGAGATATCCCGTTACAAA
 CAGATGGTGAAAGGTACTATGCAGACATCAGACAGACTGTCCCGCCAGTGACCAAGAGATGAACCTCAG
 TCTTGGCGGAGCTGTCCCGAACTGCTCTGCCGACCTTGGGGCGGAGTGGCTCTGCATGAACCTACAA
 GTATATCAACAAGTACTATGACCAGATCATCACTGCCCTGGAGGAGGATGGCACTGCCAGAAGATGCAG
 CTGGGCTACCGGCTCCAGCAGATCGCCGCTGCTGTGAAAACAAGGTACGGATCTATAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_172775
- Insert Size:** 6360 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_172775.2](#), [NP_766363.2](#)
- RefSeq Size:** 8600 bp
- RefSeq ORF:** 6360 bp
- Locus ID:** 235611
- UniProt ID:** [Q8CJH3](#)
- Cytogenetics:** 9 F2

Gene Summary:

Receptor for SEMA4D (PubMed:19788569). Plays a role in GABAergic synapse development (PubMed:23699507, PubMed:29981480). Mediates SEMA4A- and SEMA4D-dependent inhibitory synapse development (PubMed:23699507, PubMed:29981480). Plays a role in RHOA activation and subsequent changes of the actin cytoskeleton (By similarity). Plays a role in axon guidance, invasive growth and cell migration (By similarity).[UniProtKB/Swiss-Prot Function]