

Product datasheet for MC225017

Plxna4 (NM_175750) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Plxna4 (NM_175750) Mouse Untagged Clone
Tag: Tag Free
Symbol: Plxna4
Synonyms: 9330117B14; mKIAA1550; Plxa4
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC225017 representing NM_175750
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAAGCCATGCCCTGGAAGTGGACTTGCTGCTCTCCACCTGCTGGTGGTAGGGATGGGCTCCTCCA
 CTCTGCTTCCACGACAGCCACCCAGCTGTCTCAGAAGCCTTCCCTTTGTGACATTCGAGGGGAGCCTGC
 TGAGGGCTTCAATCACCTTGTGGTGGATGAGAGGACAGGGCACATTTATTTGGGGCTGTCAACAGAATC
 TACAAACTCTCTAGTGACCTCAAAGTCTTGGTGACTCATCAGACAGGGCCAGATGAGGACAACCCCAAGT
 GTTACCCACCTCGGATTGTTAGACCTGCAATGAGCCTCTGGCCAGCACCAATAACGTCAACAAGATGCT
 GCTTATAGACTACAAAGAAAACAGGCTGATCGCGTGTGGGAGCCTGTACCAGGGTATCTGCAAGCTCCTG
 AGGCTAGAGGACCTCTTCAAGTTGGGAGAGCCCTTTCACAAGAAGGAACATTATCTCTCGGGGTTAACG
 AGAGTGGCTCAGTCTTTGGGGTATTGTTTCTACAGCACTTTGATGATAAACTCTTTATTGCCACAGC
 AGTGGATGGCAAACCTGAATATTTTCTACCATCTCCAGCAGGAAGCTGACTAAGAACTCTGAGGCCGAT
 GGCATGTTTGCTTACGTTTTCCATGATGAATTTGTGGCCTCTATGATTAAGATCCCTTCAGACACTTCA
 CGGTTATCCCGACTTTGACATCTACTAGTCTATGGCTTCAGCAGTGGCAATTTTGTCTACTTTTTGAC
 CCTTCAGCCAGAGATGGTGTCTCCCCAGGCTCCACGACAAGGAGCAGGTGTACACCTCAAAGCTTGTG
 AGGCTTTGCAAAGAGGACACAGCCTTTAACTCCTACGTAGAGGTGCCATTGGCTGTGAGCGCAATGGGG
 TGGAGTATCGCTTGTACAGGCTGCCTACTTGTCTAAAGCTGGTGCAGTCTTGGCCGGACCCTAGGAGT
 CCGCCCAGATGACGACCTCCTCTCACCGTCTTCTCCAAGGGCCAGAAGCGGAAGATGAAATCTCTGGAT
 GAGTCTGCCCTGTGCATCTTCACTTGAAGCAGATCAATGATCGCATTAAAGACCGCCTGCAGTCTCTGTT
 ATAGGGGTGAGGGAACACTAGACCTGGCCTGGCTCAAGGTGAAGGACATCCCTTGACGAGTGGCCTCT
 TACTATTGATGACAACTTCTGTGGCCTGGATGATGAATGCTCCTCTGGGAGTTTCCGAAATGGTGCCTGGC
 ATTCCAGTCTTACAGAAGACAGGGACCGCATGACTTCTGTCTATGCCTATGTCTACAAGAACCCTCAC
 TGGCCTTCGTGGGCACCAAAAGTGGCAAGCTGAAGAAGATCCGGGTTGATGGGCCCAAGGAAATGCCCT
 CCAATATGAGACTGTGCAGGTGGTGGACTCAGGACCAGTCTCCGGGACATGGCCTTTTCCAAGGACCAC
 GAGCAACTCTACATCATGTGCAAAAGGCAGCTTACCAGAGTTCCTGTGGAGTCTGTGGGAGTACCGGA



[View online >](#)

GCTGTGGCGAGTGTCTTGGCTCAGGTGACCCCATTTGGCTGGTGTGTGCTCCACAACACGTGCACCCG
 GAAGGAACGGTGTGAACGCTCCAGAGAACCCGAAGTTTGCCTCAGAGATGAAGCAGTGTGTCCGGCTG
 ACGGTCCATCCCAACAACATCTCTGTCTCAGTACAACGTGCTGCTGGTCTAGAGACATAAATGTCC
 CGGAGCTGTCAGCAGGTGCAACTGTACCTTTGAAGATCTGTGAGAGATGGATGGGCTGGTAATAGGCAA
 TCAGATCCAGTGTACTCCCCTGCAGCCAAGGAAGTCCCCGGATCATCACAGAAAATGGGGACCATCAT
 GTTGTCCAGCTGCAACTCAAGTCAAAGGAGACTGGGATGACCTTCGCCAGCACCAGCTTTGTCTTCTACA
 ACTGCAGTGTCCACAATTCATGCCTGTCTGTGTGGAGAGCCCGTACCGTTGCCACTGGTAAATACCG
 GCATGTTTGTACTCAGCACCCCAACACATGCTCCTTCCAGGAAGGCCGAGTGAAGCTACCTGAGGACTGC
 CCCAGCTGCTGCGAGTGGACAAGATCCTCGTTCCAGTAGAGGTGATCAAGCCCATCACTCTGAAGGCTA
 AGAACCTCCACAGCCTCAGTCGGGACAGAGAGGCTACGAGTGCATCTTGAACATCCAGGGCATCGAGCA
 GAGGGTACCTGCTCTGCGCTTCAACAGCTCCAGTGTGAGTGTGACAACACCTCCTATTCTATGAAGGA
 ATGAGATCAACAACCTGCCAGTGGAGTTGACAGTCGTGTGGAATGGACACTTCAACATTGACAACCCAG
 CTCAGAATAAAGTTTACCTCTACAAGTGTGGAGCCATGCGCGAGAGCTGTGGGCTGTGCCTAAGGCCGA
 CCCGGATTCGAGTGTGGCTGGTGTGAGAGCCAGGCCAGTGTACCTGCGCCAGCACTGCCCTGCCAT
 GAGAGCCGGTGGTTGGAAGTGTGGGGGCAACAGCAAGTGCACCAACCCTCGTATCACAGAGATCATCC
 CAGTGACGGGCCCTCGAGAAGGGGGCACCAAGGTACCATCCGAGGGGAGAACTTGGGCCTGGAATTCGG
 TGACATTGCATCACACGTGAAAGTGGCTGGTGTGGAATGCAGCCCTTGGTGGATGGCTACATCCCAGCT
 GAACAGATCGTGTGTGAGATGGGTGAGGCCAAGCCTAGCCAGCATGCAGGCTTTGTGGAGATCTGTGTGG
 CTGTGTGTGCGCCTGAGTTCATGGCCCGCTCTTCGCAGCTCTATTACTTCATGACTCTGACCCTCGCAGA
 TCTGAAGCCCAACCGAGGACCCATGTCTGGGGGACACAGGTTACCATCACAGGTACCAACTTGAATGCA
 GGCAGCAATGTTGGTGTGTTGCGGAGCCAGCCCTGCCTCTTCCACAGGCGCTCTCCATCCTACATTA
 TCTGTAACACTACATCCTCAGAGGAGGTGCTGGACATGAAGGTGACTGTGAGGTGGACAGGGCCAGGAT
 CCGCCAGGACCTGGTCTTTCAGTACGTGGAGACCCACCATTGTGCGGATTTGAACAGAAATGGAGCATT
 GTCAGTGGGAACACACCTATTGCTGTCTGGGGAACCTCACCTGGACCTCATACAGAACCACAGATCCGTG
 CCAAGCATGGAGGAAAAGAACACATCAACATCTGTGAGGTCTAAATGCTACAGAGATGACCTGCCAGGC
 TCCAGCCCTTGCCTGGGTCCCAGCCAGCTCAGATCTCACTGAGAGGCCTGAAGAATTTGGTTTCATC
 CTGGACAATGTCCAGTCTCTGCTAATTCTCAACAAGACCAACTTACCTATTATCCTAACCCCGTGTG
 AGGCTTTCAGTCCCTCGGGAATCCTGGAGCTCAAGCCGGGCACCCCATTTATCCTAAAGGGCAAGAACTT
 GATCCCGCCTGTGGCCGGAGGCAATGTGAAGCTGAACTACACCGTGTGGTTGGGAGAAACCATGCACC
 GTGACAGTATCAGATGTGACAGTCTCTGCGAGTCTCCCAACCTCATCGCCAGGCACAAAGTGTGGCAC
 GGGTGGGTGGCATGGAGTATTCCCTGGGATGGTATACATCGCCCGAGACAGCCCGCTCAGCCTGCCCGC
 CATTGTACAGCATCGCGGTGGCTGGTGGCCTCCTCATCATCTTTCATCGTGGCCGTACTCATCGCCTACAAA
 CGCAAATCCCAGAAAAGTACCTCACGCTGAAGAGGTTGCAGATGCAGATGGACAACCTTGAATCCCGTG
 TGGCGCTGGAGTGAAGGAAGCTTTTGGCAGCTGCAGACAGATATCCATGAGCTTACCAGTGCACCTGGA
 TGGAGCTGGGATCCCTTTCTGGACTACAGAACCTATACCATGCGGGTGTGTTCCAGGGATTGAAGAC
 CACCCTGTGCTACGAGACCTTGAAGTCCCAGGCTACCGGCAGGAGCGTGTGGAGAAAGGACTCAAGCTCT
 TCGCCAGCTCATCAACAACAAGGTGTTCTGCTCTCTTTTCATCCGCACTCTGGAGTCTCAGCGCAGTTT
 TTCCATGCGCGACCGAGGTAACGTGGCTCCCTCATCATGACGGTACTTACAGAGCAAGCTAGAGTATGCC
 ACTGACGTGCTGAAGCAGCTACTGGCTGACCTCATTGATAAGAACCTGGAGAGCAAGAACCACCCAAAGC
 TGCTGCTCAGGAGGACGGAGTCCGTGGCCGAGAAGATGTTGACTAATTGGTTCACTTTTCTCCTCTACAA
 GTTCTCAAGGAGTGTGCTGGGAGCCACTCTTCTCCCTGTTCTGTGCCATCAAGCAGCAGATGGAGAAG
 GGCCCCATTGATGCCATCACCGGAGAGGCCCGCTACTCGCTAAGTGAAGCAAACTCATCCGACAGCAGA
 TTGAATATAAAACCTTGGTCTGAGCTGTGTCAGTCCAGATAATGTTAACAGCCAGAGGTCCCAGTGAA
 GATCCTCAACTGTGACACCATCACTCAGGTCAAAGAGAAGATCCTAGATGCCATCTTCAAGAATGTCCCG
 TGCTCCCATAGGCCAAAGCTGCAGACATGGATCTAGAGTGGCGACAAGGAAGTGGGCGAGGATGATCC
 TGCAGGACGAAGATATCACCAAGATCGAGAATGATTGGAAGAGACTCAACACAGTAGCCCACTACCA
 GGTACCAGATGGTCTGTGGTGGCTTTAGTGTCCAAGCAAGTGCAGCCTACAATGCAGTGAACAACTCC
 ACTGTCTCCAGGACTTACGAAGTAAATATGAGAACATGATCCGGTACACAGGCACCCCTGACAGCCTCC
 GTTCCCGGACACCATGATCACCCCTGACCTGGAAGCGGGGTCAAGCTTTGGCATCTGGTGAAGAACCA
 TGAACATGGAGACCAGAAGGAGGGGGACCGGGGGAGCAAGATGGTGTCTGAGATCTATCTGACACGACTA
 TTGGCCACAAAGGGCACACTGCAGAAGTTTGTGGATGACCTATTCCAGACCATCTTCAAGTACGGCCACC
 GTGGCTCCGCTCTGCCGTAGCCATCAAGTACATGTTTGACTTCTCGATGAGCAGGCTGATAAGCACGG

CATCCATGACCCGCACGTCCGCCACACCTGGAAGAGCAACTGCCTGCCCTACGGTTTTGGGTGAATATG
 ATCAAGAACCCTCAGTTTGTGTTTGACATCCATAAGAACAGCATCACGGATGCCTGTCTCTCTGTGGTGG
 CCCAGACCTTCATGGACTCCTGCTCCACTTCGGAGCACCAGACTGGGCAAGGATCCCCCTCCAACAAGCT
 GCTCTATGCCAAGGACATCCCCAGCTACAAGAAGCTGGGTAGAGAGGTATTATTAGACATTGGGAAGATG
 CCGGCAATAAGTGACCAGGACATGAATGCATACCTGGCCGAGCAGTCGCGGATGCACATGAATGAGTTCA
 ATACGATGAGTGCCTCTCAGAGATCTTCTCCTATGTGGGCAAAATACAGTGAGGAGATCCTTGGACCCCT
 GGACCATGATGACCAGTGTGAAAGCAGAAACTGGCTTACAAACTAGAACAAGTCATAACTCTCATGAGC
 TTAGACAGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_175750
Insert Size: 5682 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_175750.3](#), [NP_786926.2](#)
RefSeq Size: 12602 bp
RefSeq ORF: 5682 bp
Locus ID: 243743
UniProt ID: [Q80UG2](#)
Cytogenetics: 6 A3.3

Gene Summary:

Coreceptor for SEMA3A. Necessary for signaling by class 3 semaphorins and subsequent remodeling of the cytoskeleton. Plays a role in axon guidance in the developing nervous system. Class 3 semaphorins bind to a complex composed of a neuropilin and a plexin. The plexin modulates the affinity of the complex for specific semaphorins, and its cytoplasmic domain is required for the activation of down-stream signaling events in the cytoplasm. [UniProtKB/Swiss-Prot Function]