

Product datasheet for **MC224994**

Plxna3 (NM_008883) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Plxna3 (NM_008883) Mouse Untagged Clone
Tag: Tag Free
Symbol: Plxna3
Synonyms: mKIAA4078; PlexA3; Plxa3; Plxn3; Plxn4; SEX
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224994 representing NM_008883
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCACTGTCTGCCTTCTCCATTGCTATTCTTCACCATAGGAGGGTGCCTGGGTAGCAGCAGGCCAT
 TTCGTACCTTTGTGGTAACAGATACCACTCTGACTCACCTGGCTGTGCACCGAGTACTGGGGAGGTGTT
 TGTAGGTGCCGTGAATCGAGTTTCAAGCTGGCTCCAAACCTAACTGAGCTACGGGCCCATGTCACAGGG
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 TGGACAATGTGAACAAGCTGCTCCTCATAGACTATGCAGCCCGTCGTTTGGTAGCTTGTGGCAGCATCTG
 GCAGGGCATCTGCCAGTTCCTGCGTCTGGATGACCTCTTCAAGTTGGGTGAGCCCCACCATCGAAAGGAG
 CACTATCTGTCAGGGGCCAGGAGCCTGATTCCATGGCTGGCGTCATTGTTGAACAGGTCCAGGGGCCTA
 GCAAGTTGTTTGTGGCACCCGCTGTTGATGGCAAGTCTGAGTACTTTCCACCTTGAGTTCCCGTAAAGCT
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 TATTGGCCAGGCTCTGGGTGTGCCAGCCGACGAGGATGTCTCTTACCATCTTCTCAGGGCCAGAA
 GAACAGAGCCAACCCACCTCGGCAGACCATCCTTTGCCTTTTACCCTCAGCAGCATTAAATGCCACATC
 CGGCGCCGAATCCAATCGTGCTACCGTGGAGAGGGCACGCTGGCCCTACCTGGCTACTGAATAAGGAGC
 TGCCCTGCATCAACACCCTCTGCAGATCAATGGAACTTCTGTGGGTTAGTGTGAATCAACCATTGGG
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 GCTCTTACGCCCTGACCACCGACACATCTACCTCCTGAGTGAGAAGCAGGTGAGCCAACCTCCCGGTGGAG
 ACCTGTGAGCAGTATCTGAGCTGTGCTGCATGCCTGGGCTCAGGGGACCCACACTGTGGTTGGTGTGTC



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TACAGCACAGGTGCTGCCGTGAAGGGCCCTGTCCAGGTGCCTCTGCCCCACATGGCTTTGCAGAAGAGCT
GAGCAAATGTATACAGGTGCGGGTCCGTCCTCAATAATGTGTGTCAGTGACATCCTCTGGGGTGCAGTGACC
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AGGCTATTCTGCTGCCCTCTGGAGAGTTACGATGTCCTTCACCATCCCTTCAGGAGCTCCAGACACTTAC
CAGAGGGCATGGGGCCACTCATACTGTGCGGCTTACGCTGCTCCATGGAGACTGGTGTGAGGTTTGT
GGGTTGACTTTGCTTTCTCAACTGCAGTGCCCTCCAGTCGTGTATGTCCTGTGTTGGCAGCCCTTACC
CCTGCCACTGGTAAAGTACCGTCATGTGTGTACCAGCCACCCACAGTGCTCTTTCCAGGAGGGCAG
GGTCCACAGCCCTGAGGGCTGCCCTGAGATCCTGCCTCAAGGGGACCTCTTGATTCTGTGGGTGTCATG
CAGCCTCTAACTCTGCGGGCTAAGAACCTGCCACAGCCTCAGTCCGGACAGAAGAATTATGAATGCGTGG
TCCGTGTACAGGGACGGCAACATCGGGTACCTGCAGTGCCTTTAACAGCAGCAGTGTGCAGTGCCAGAA
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TGGAAATTTCTCTGGATGCCGGCAGCAGGGTACAGTGATTATAAGAGATGGCGAGTGCCAGTTTGTGAGG
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AGAGTAGTTTCTCCATGCGTGACCGTGGTACTGTGGCCTCACTCACCATGGTGGCCCTGCAGAGCCGGCT
TGACTATGCCACTGGGCTGCTCAAGCAACTGCTGGCTGACCTCATAGAGAAAACTTGGAGCAAGA
CACCCAAAGCTGCTATTGCGCAGGACAGAGTGGTGGCTGAGAAGATGCTCACCAACTGGTTCACATTCC
TGCTGCATAAGTTCTGAAGGAGTGCGCCGGGAGCCACTCTTCTGCTGTACTGCGCCATCAAGCAGCA
GATGGAGAAAGGTCCTATTGATGCCATAACAGGCGAGGCCGCTACTCCTTAAGTGAAGACAAGCTCATC
CGGCAGCAGATCGACTATAAGACCCTGACTCTGCATTGTGTGTGCCCGGAGAGCGAGGGCAGTGCCAGG
TCCCTGTGAAGGTTCTTAACTGTGATAGCATCACCCAGGCCAAAGACAAGCTGTTGGATACTGTGTACAA
GGGATTCCATACTCTCAGCGCCCCAAAGCTGAGGACATGGATTGGAATGGCGCCAGGGCCGATGGCC
CGAATCATCTCAAGATGAGGACATCACTACAAAGATTGAGTGTGACTGGAAGAGGGTCAACTCATTGG
CCCACTACCAGGTGACTGATGGTCTTTAGTAGCACTGGTGGCCAAACAAGTGTCTGCCTATAACATGGC
CAACTCGTTCACCTTACCCGGTCACTTAGTCGCTACGAGAGCTTGTCCGTGCTGCCAGCAGCCGGAT
AGCCTCCGTTCCCGAGCACCTATGCTCAGCGCTGACCAGGAGGCAGGTACCAAGCTGTGGCACCTGGTGA
GGAACCACGACCACACTGATCACCGAGAAGGAGACCGCGGCAGCAAGATGGTCTCAGAAATATATCTCAC
AAGGCTGCTGGCCACCAAGGGCACGTTGCAGAAGTTTGTAGATGACTTGTGTTGAAACTGTGTTCACTACA
GCCACCCGGGGCTCAGCCTTACCCTTGGCCATCAAGTACATGTTTACTTCTGGATGAACAGGCTGACC
AGCGCCAGATCAGTGACCCTGATGTGCGTCACACCTGGAAGAGCAACTGCTTACCTGCGTTTCTGGGT

GAATGTGATCAAGAATCCGCAATTTGTGTTTGACATCCATAAGAATAGCATCACAGACGCCTGTTTGTCA
 GTGGTGGCCCAGACCTTCATGGACTCCTGTTCTACATCAGAGCACCCTGGGCAAGGACTCACCTTCCA
 ACAAGCTCCTCTATGCCAAGGATATTCCAATTACAAGAGCTGGGTGGAGAGGTAATCGAGATATCGC
 AAAGATGGCATCCATCAGTGACCAGGACATGGACGCCTACTTAGTGGAGCAGTCCCGCTCCATGCTAAT
 GACTTCAATGTCTAAGTGCACCTCAGCGAGCTCTACTTCTATGTCACCAAGTACCGTCAGGAGATCCTCA
 CCTCGCTGGACCGAGATGCCTCTTGTGCGGAAGCACAAGCTTCGACAGAAGCTGGAGCAGATCATCACCT
 GGTGTCCAGCAGCAGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_008883
Insert Size:	5619 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:	<ol style="list-style-type: none"> 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_008883.2 , NP_032909.2
RefSeq Size:	6964 bp
RefSeq ORF:	5619 bp
Locus ID:	18846
UniProt ID:	P70208
Cytogenetics:	X 38.0 cM

Gene Summary:

Coreceptor for SEMA3A and SEMA3F. Necessary for signaling by class 3 semaphorins and subsequent remodeling of the cytoskeleton. Plays a role in axon guidance in the developing nervous system. Regulates the migration of sympathetic neurons, but not of neural crest precursors. Required for normal dendrite spine morphology in pyramidal neurons. May play a role in regulating semaphorin-mediated programmed cell death 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]