

Product datasheet for RN209762

Plxna3 (NM_001107581) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plxna3 (NM_001107581) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Plxna3
Synonyms:	Plxn4; SEX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN209762 representing NM_001107581 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCACACTGTCTGCCTTCTCCATTGCTATTCTTCACCATAGGAGGGTGCCTGGGTAGCAGCAGGCCGT
TTCGTACCTTTGTGGTGACAGATACCACACTGACTCACCTGGCTGTGCACCGAGTGACTGGGAGGTGTT
TGTAGGTGCCGTGAACCGAGTTTTCAAGCTGGCTTCAAATCTAACTGAGCTACGGGCCCATGTCACAGGG
CCCATTGAGGACAATGCTCGCTGTACCCACCCCTAGCATGCGTGTGTGCTCCACCCGCTGGTGCCTG
TGGACAATGTGAACAAGCTGCTCCTCATAGACTATGCAGCCCGTGCCTTGGTAGCTTGTGGCAGCATCTG
GCAGGGCATTGGCCAGTTCCTGCGTCTGGATGACCTTTCAGTTGGGTGAGCCCCACCATCGCAAGGAA
CACTATCTGTGAGGGGCCAGGAGCCTGATCCATGGCTGGCGTCAATTGTTGAACAGGGCCAGGGCCCTA
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CATCGACGATGAGGACAGTGGAGATATGTTCACTGCTGGTACCAGGATGAGTTTGTCTCTTCTCAGATC
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TGCCCTGCATCAACACCCCATGCAGATCAATGGAACCTTCTGTGGTTAGTGTGAATCAACCATTGGG
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GCTCTTACGCCCTGACCACCGACACATCTACCTCTGAGTGAGAAGCAGGTGAGCCAACCTCCGGTGGAG



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ACCTGTGAGCAGTATCTGAGCTGTGCTGCATGCCTGGGCTCAGGGGACCCACACTGTGGTTGGTGTGTGC
 TACAGCACAGGTGCTGCCGTGAAGGGCCCTGTCCAGGTGCCTCTGCCCCACACGGCTTTCAGAGAAGAGCT
 GAACAAATGTATACAAGTGC GG GTTCGGCCTAATAATGTATCAGTGACATCCTCTGGGGTGCAGCTGACA
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 AGCCTCCGTTCCCGAGCACCTATGCTCACACCTGACCAGGAGGGCGGCCAACCAAGCTGTGGCATCTGGTGA
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 GCCCACCAGGGCTCAGCCTTACCCTTGGCCATCAAGTACATGTTTACTTCTGGATGAACAGGCTGACC

AGCGCCAGATCAGTGACCCTGATGTGCGCCACACCTGGAAAAGCAACTGCTTGCCTCTGCGTTTCTGGGT
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GTGGTAGCCCAGACCTTCATGGACTCCTGTTCCACATCAGAGCACCAGCTGGGCAAGGACTCACCTTCCA
ACAAGTGTCTCTATGCCAAGGATATCCCAATTACAAGAGCTGGGTGGAGAGGTACTACCGAGATATTGC
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GACTTCAATGTCTAAGTGCACCTCAGTGAGCTCTACTTCTATGTCACCAAGTACCGTCAGGAGATCCTCA
CCTCGCTGGACCGAGATGCCTCTTGTGCGAAGCATAAGCTTCGACAGAAGCTGGAGCAGATCATCACCTT
GGTGTCCAGCAGCAGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001107581
Insert Size:	5619 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:	<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:	<u>NM_001107581.2</u> , <u>NP_001101051.2</u>
RefSeq Size:	7376 bp
RefSeq ORF:	5619 bp
Locus ID:	309280
UniProt ID:	<u>D3ZPX4</u>
Cytogenetics:	Xq37

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 (By similarity).[UniProtKB/Swiss-Prot Function]