

## Product datasheet for RN212366

### Plxnb3 (NM\_001135878) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Plxnb3 (NM_001135878) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Plxnb3
Synonyms:	RGD1560615
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN212366 representing NM_001135878 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCTGACTGACTTCCTCCAGGCTCCTGTGATGGCTCCCTGGTCTCCCTCAGCCTCCACCTTCTGCTGC  
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 CCACACCTTAGAGGAGCAGCCAAGCTTTCCAGAGGGACCGCTGCCATGTGGCTTCACTACTTTCTCTG  
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 GACAGAAGGGGCCAAAGTGCGGCGCAGCAGCCTCCGGGAACGAGAACGAGAACGGGCACGAGCCAAGGCC  
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GCTGGCAGAGAAACATGGCATTGAAGATCCAGAGACCCTGCACATTTGGAAGACAAACAGCTTATTGCTG  
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001135878
- Insert Size:** 5709 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\\_001135878.1](#), [NP\\_001129350.1](#)
- RefSeq Size:** 5950 bp
- RefSeq ORF:** 5709 bp
- Locus ID:** 363517
- UniProt ID:** [D3ZLH5](#)
- Cytogenetics:** Xq37
- Gene Summary:** Receptor for SEMA5A that plays a role in axon guidance, invasive growth and cell migration. Stimulates neurite outgrowth and mediates Ca(2+)/Mg(2+)-dependent cell aggregation. In glioma cells, SEMA5A stimulation of PLXNB3 results in the disassembly of F-actin stress fibers, disruption of focal adhesions and cellular collapse as well as inhibition of cell migration and invasion through ARHGDI A-mediated inactivation of RAC1.[UniProtKB/Swiss-Prot Function]