

## Product datasheet for **SC103063**

### Plexin B2 (PLXNB2) (AK025701) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Plexin B2 (PLXNB2) (AK025701) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Plexin B2  
**Synonyms:** dj402G11.3; MM1; Nbla00445; PLEXB2  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for AK025701 edited  
 GAATTCGGCACGAGGCAGAGGATCTCTGTGGCCGCGGAAGTCTCCTTTAGCCGGAA  
 CGTTACTCCGTGTCCACCCGGATCGTGTGTGATCGAGGTCGGGAGACGCCTTTACG  
 GGGGGTGTGAGGTGGAGTCTTCGGGAAACTGGGCCGTTTCGCCTCCCAATGTCCAGTTC  
 ACCTTCCAACAGCCCAAGCCTCTCAGTGTGGAGCCGACAGGGACCGCAGGCGGGCGGC  
 ACCCACTGACCATCCACGGCACCCACCTGGACACGGGCTCCCAGGAGGACGTGCGGGTG  
 ACCCTCAACGGCGTCCCCTGTAAAGTGACGAAGTTGGGGCGCAGCTCCAGTGTGCACT  
 GGCCCCAGGCGACAGGGGCCAGATGCTTCTGGAGGTCTCTACGGGGGTCCCCCGTG  
 CCCAACCCGGCATCTTCTTACCTACCGGAAAACCCCGTACTGCGAGCCTTCGAGCCG  
 CTACGAAGCTTTGCCAGTGGTGGCCGACATCAACGTCACGGGTGAGGGCTTCAGCCTG  
 ATCCAGAGGTTTGCATGGTGGTCATCGCGGAGCCCTGCAGTCTGGCAGCCGCGCGG  
 GAGGCTGAATCCCTGCAACCCATGACGGTGGTGGGTACAGACTACGTGTTCCACAATGAC  
 ACCAAGGTCGTCTTCTGTCCCCGGCTGTGCCTGAGGAGCCAGAGGCCTACAACCTCACG  
 GTGCTGATCGAGATGGACGGGCACCGTGCCTGCTCAGAACAGAGGCCGGGGCCTTCGAG  
 TACGTGCTGACCCACCTTTGAGAAGTTCACAGGTGGCGTCAAGAAGCAGGTCAACAAG  
 CTCATCCACGCCCCGGGCACCAATCTGAACAAGGCGATGACGCTGCAGGAGGCCGAGGCC  
 TTCGTGGGTGCCGAGCGTGCACCATGAAGACGCTGACGGAGACCGACCTGTACTGTGAG  
 CCCGAGTTTCATTGTGAAGTTCGGCTCTCGCGAGTGGGTGCTGGGCCGCGTGGAGTACGAC  
 ACACGGGTGAGCGACGTGCCGCTCAGCCTCATCTTGCCGCTGGTATCGTGCCCATGGTG  
 GTCGTCATCGCGGTGTCTGTCTACTGCTACTGGAGGAAGAGCCAGCAGGCCGAACGAGAG  
 TATGAGAAGATCAAGTCCAGCTGGAGGCCTGGAGGAGAGCGTGCGGGACCGCTGCAAG  
 AAGGAATTCACAGACCTGATGATCGAGATGGAGGACCAGACCAACGACGTGCACGAGGCC  
 GGCATCCCCGTGCTGGACTACAAGACCTACACCGACCGCGTCTTCTTCTGCCCTCCAAG  
 GACGGCGACAAGGACGTGATGATCACCGCAAGCTGGACATCCCCGAGCCGCGGGCGCCG  
 GTGGTGGAGCAGGCCCTTACCAGTTCTCCAACCTGCTGAACAGCAAGTCTTTCCTCATC  
 AATTTTCATCCACCCCTGGAGAACCAGCGGGAGTTCTCGGCCCGCCCAAGTCTACTTC



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GCGTCCCTGCTGACGGTGGCGCTGCACGGGAACTGGAGTACTACACGGACATCATGCAC  
 ACGTCTTCTGGAGCTCCTGGAGCAGTACGTGGTGGCCAAGAACCCCAAGCTGATGCTG  
 CGCAGGCTGAGACTGTGGTGGAGAGGATGCTGTCCAAGTGGATGTCCATCTGCCTGTAC  
 CAGTACCTCAAGGACAGTGCCGGGGAGCCCCTGTACAAGCTTTCAAGGCCATCAAACAT  
 CAGGTGGAAAAGGGCCCGGTGGATGCGGTACAGAAGAAGGCCAAGTACTCTCAACGAC  
 ACGGGGCTGCTGGGGATGATGTGGAGTACGCACCCCTGACGGTGAGCGTGATCGTGCAG  
 GACGAGGGAGTGGACGCCATCCCGGTGAAGTCTCAACTGTGACACCATCTCCCAGGTC  
 AAGGAGAAGATCATTGACCAGGTACCCTGGGCAGCCCTGCTCCTGCTGGCCCAGGCCA  
 GACAGCGTGGTCTGGAGTGGCGTCCGGNNNNNNNNNNNNNATCCTGTGCGACCTGGAC  
 CTGACGTACAGCGGGAGGGCCCGTGGAAAGCGCTCAACACCCTTATGCACTACAATGTC  
 CGGGATGGAGCCACCCTCATCTGTCCAAGGTGGGGTCTCCCAGCAGCCGGAGGACAGC  
 CAGCAGGACCTGCCTGGGGAGGCCATGCCCTCCTGGAGGAGGAGAACCAGGTGTGGCAC  
 CTGGTGCGCCGACCGACGAGGTGGACGAGGGCAAGTCCAAGAGAGGCAGCGTGAAGAG  
 AAGGAGCGGACGAAGGCCATCACCGAGATCTACCTGACCGGCTGCTCTCAGTCAAGGGC  
 AACTGCAGCAGTTTGTGGACAATTCTCCAGAGCGTGCTGGCGCTGGGCACGCGGTG  
 CCACCTGCAGTCAAGTACTTCTTCGACTTCTGGACGAGCAGGCAGAGAAGCACAACATC  
 CAGGATGAAGACACCATCCACATCTGGAAGACGAACAGTTTACCCTCCGGTTCTGGGTG  
 AACATCTCAAGAACCCCACTTTCATCTTTGACGTGCATGTCCACGAGGTGGTGGACGCC  
 TCGCTGTGAGTATCGCGCAGACCTTTCATGGATGCCTGCACGCGCACGGAGCATAAGCTG  
 AGCCGCGATTCTCCAGCAACAAGCTGTGTACGCCAAGGAGATCTCCACCTACAAGAAG  
 ATGGTGGAGGATTAACAAGGGGATCCGGCAGATGGTGCAGGTGAGCGACCGAGGACATG  
 AACACACACCTGGCAGAGATTTCCGGGCGCACACGGACTCCTTGAACACCCTCGTGGCA  
 CTCCACCAGCTTACCAATACACGCAGAAGTACTATGACGAGATCATCAATGCCTTGGAG  
 GAGGATCCTGCCGCCAGAAGATGCAGCTGGCCTTCCGCTGCAGCAGATTGCCGCTGCA  
 CTGGAGAACAAGTCACTGACCTTGTACCTACAATCTCCAGTGTGCTTGGGACATAGG  
 TACCTGAGTACCTGAXXXXXXXXXXXXXXXXXXGAGAGCCCTCAGGGGAGGAGCCGA  
 GTGGCTGTGGTGTGAGGCCCCACCCTCCCTGGAACGCGCCCAAGCCGGAGTGGGTGCA  
 GCCGGAACCCGCCAGCGTCTAGACTGTAGCATCTTCTCTGAGCAATACCGCCGGGCAC  
 CGCACCAGCACCAGCCAGCCAGCTCCCTCCGGCCGAGAACCAGCATCGGGTGTTC  
 ACTGTGAGTCTCGAGTATTTGAAAATGTGCCTTACGCTGCCACGCTGGGGCAGCTGG  
 CCTCCGCTCCGCCACGCACCAGCAGCCCTCCATGCCCTAGTTGGGCCCTGGGGG  
 ATNTGAGGGCCTGTGGCCCCAGGGCAAGTTCCAGATCCTATGTCTGTCTGTCCACCAC  
 GAGATGGGAGGAGGAGAAAAAGCGGTACGATGCCTTCTGACCTACCGGCTCCCAAG  
 GGTGCCGGCACTCTGGGTGGACTCACGGCTGCTGGGCCCCACGTCAAAGGTCAAGTGAGA  
 CGTAGGTCAAGTCTACGTGGGGCCAGACATCTGGGGTCTGGTCTGTGAGCAGGC  
 TGCCCTAGAGCCCAACAGTCCGGGGGACTGGGAGCAGTTCCAAGACCACCCACCCC  
 TTTTGTAAATCTTGTTCATTGTAATCAAATACAGCGTCTTTTCACTGTAAAAAAA  
 AAAAAAAAAAAGCTCGAC

**5' Read Nucleotide Sequence:**

>OriGene 5' read for AK025701 unedited  
 NGGGGGTTACATTTGTATACGACTCACTATAGGCGGCCGGAATTTCGCACGAGGCAGAG  
 GATCTCTGTGGCCGGCCGGAAGTCTCCTTTACGCGGAACGTTACTCCGTGTCCACCCG  
 GATCGTGTGTGATCGAGGCTGCGGAGACGCCTTTACGGGGGGTGTGAGGTGGACGT  
 CTTCCGGAAACTGGGCCGTTTCGCTCCCAATGTCCAGTTCACCTCCAACAGCCCAAGCC  
 TCTCAGTGTGGAGCCGCAGCAGGACCCAGGCGGGCCGACCACACTGACCATCCACGG  
 CACCCACCTGGACACGGGCTCCAGGAGGACGTGCGGGTGACCCCAACGGCGTCCCGTG  
 TAAAGTGACGAAGTTTGGGGCGCAGCTCCAGTGTGTCACTGGCCCCAGGCGACACGGGG  
 CCAGATGCTTCTGGAGGTCTCTACGGGGGTCCCCCGTGCCCAACCCCGGCATCTTCTT  
 CACCTACCGCGAAAACCCGTAAGTGTGCGAGCCTTCGAGCCGCTACGAAGCTTTGCCAGTGG  
 TGGCCGCAGCATCAACGTACGGGTGAGGGCTTACGCTGATCCAGAGGTTTCCATGGT  
 GGTTCATCGCGGAGCCCTGCAGTCTGGCAGCCGCGGGGAGGCTGAATCCCTGCAACC  
 CATGACGGTGGTGGTACAGACTACGTGTTCCACAATGACACCAAGTGTCTTCTGT  
 CCCCAGTGTGCCTGAGGAGCCAGAGCCTCACCTTTACCGTGGCTGATCGAAATGGACGG  
 GCACCGTGCCTGCTCAGAACAGAGCCGGGGCCCTTCGAGTACGTGCCTGACCCACCTT  
 TGAGAACTTACAGNTGGNCGTCAAGAAGCAGGTCAACAGCTCATTACGCCCCGGGCACC  
 ATCTGACAAGGGCAGACA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for AK025701 unedited  
 ACTATGAACCGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTCAAAGTGAAA  
 AAGAGCTGATTTGATTTACAATGAACAAGATTTACAAAAGGGGTGGGTGGTCTTGGAA  
 ACTGCTCCAGTCCCCCGGACTGGGTGGGGCTTAGGGCAGCCTGTCTGACAGACCAGG  
 ACCCCAGGATGTCTGGGCCCGACGTAGGACTTGACCTACGTCTCACTTGACCTTTGACG  
 TGGGGCCAGCAGCCGTGAGTCCACCCAGAGTGCCGGCACCCCTTGGGGAGGCCGGTGAGG  
 TCAGGAAGGCATCGTACCGCTTTTTCTCCTCCTCCATCTCGTGGTGGACAGACAGACAT  
 AGGATCTGGAACTTGCCTGGGGCCACAGGCCCTCAGATCCCCAGGGGCCAACCTA  
 GGGCATGGAGCGGCTGCTGGTGGTGGCGGAGGCGGAGGCCAGCTGCCCCAGCGGTGG  
 CAGCGTAAGGCACATTTCAAATCACTCGAGACTCGACAGTGAACACCCGATGCTGGTTC  
 TCGCGCCGAGGAGCTGGGGCTGGGGCTGGTGTGGTGCAGTGCAGGCGCCGGGATTGCTC  
 AGAGGAAGATGCTACAGTCTAGACGCTGGGCGGGTTCGGCTGCACCCACTCCGGCTTGG  
 GGCGGTTCCAGGGGAGGTTGGGGCCTCAGCCACAGCCACTCGGCTCCTCCCTGGAG  
 GGCTCTCAGGTACCTCAGGTACCTATGTCCAAGCAGCACTGGAGATTGTAGGTGAGAGG  
 TCAGTACCTTGTCTNCAGTGCAGCGCAATCTGCTGCAGGCNGAAAGGCCAGTGCAT  
 CTTCTGGGCGGCAGGATCCTNNCTCCAGGCATTGATGATCTCGTCATATACTTCTGCGTG  
 TATTGGTAGAGCTGGTGGAGTGCCTCCAGGGTGTCAAGGAGTTCGTGTGCGCCCGGAA  
 ATCTTGCAGN

**Restriction Sites:**

NotI-NotI

**ACCN:**

AK025701

**Insert Size:**

4500 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:** [AK025701.1](#)

**RefSeq Size:** 3726 bp

**RefSeq ORF:** 3726 bp

**Locus ID:** 23654

**Cytogenetics:** 22q13.33

**Domains:** IPT

**Protein Families:** Druggable Genome

**Protein Pathways:** Axon guidance

**Gene Summary:** Members of the B class of plexins, such as PLXNB2 are transmembrane receptors that participate in axon guidance and cell migration in response to semaphorins (Perrot et al. (2002) [PubMed 12183458]).[supplied by OMIM, Mar 2008]