

Product datasheet for **SC325425**

Plexin B1 (PLXNB1) (NM_001130082) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Plexin B1 (PLXNB1) (NM_001130082) Human Untagged Clone
Tag: Tag Free
Symbol: PLXNB1
Synonyms: PLEXIN-B1; PLXN5; SEP
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001130082 edited
GGCCCCGGCCGACGCGGCTTTGTCTCCTTTGTTCCCGCGGTGGCAGCGCCGCGGGGAGG
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AAAAAA

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Restriction Sites: Please inquire
ACCN: NM_001130082
Insert Size: 7300 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).
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001130082.1.
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_001130082.1</u> , <u>NP_001123554.1</u>
RefSeq Size:	7158 bp
RefSeq ORF:	6408 bp
Locus ID:	5364
UniProt ID:	<u>O43157</u>
Cytogenetics:	3p21.31
Protein Families:	Druggable Genome
Protein Pathways:	Axon guidance
Gene Summary:	Receptor for SEMA4D (PubMed:19843518, PubMed:20877282, PubMed:21912513). Plays a role in GABAergic synapse development (By similarity). Mediates SEMA4A- and SEMA4D-dependent inhibitory synapse development (By similarity). Plays a role in RHOA activation and subsequent changes of the actin cytoskeleton (PubMed:12196628, PubMed:15210733). Plays a role in axon guidance, invasive growth and cell migration (PubMed:12198496). [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 both encode the same protein.