

## Product datasheet for **RG226458**

### Plexin B1 (PLXNB1) (NM\_001130082) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Plexin B1 (PLXNB1) (NM_001130082) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PLXNB1
Synonyms:	PLEXIN-B1; PLXN5; SEP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG226458 representing NM_001130082 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

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ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG226458 representing NM\_001130082  
 Red=Cloning site Green=Tags(s)

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TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001130082.1</u> , <u>NP_001123554.1</u>
<b>RefSeq Size:</b>	7158 bp
<b>RefSeq ORF:</b>	6408 bp
<b>Locus ID:</b>	5364
<b>UniProt ID:</b>	<u>O43157</u>
<b>Cytogenetics:</b>	3p21.31
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Axon guidance
<b>Gene Summary:</b>	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]