

## Product datasheet for **KN313500**

### Plxna1 Mouse Gene Knockout Kit (CRISPR)

#### Product data:

**Product Type:** Knockout Kits (CRISPR)  
**Format:** 2 gRNA vectors, 1 GFP-puro donor, 1 scramble control  
**Donor DNA:** GFP-puro  
**Symbol:** Plxna1  
**Locus ID:** 18844  
**Components:** **KN313500G1**, Plxna1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGCAGTGTCCGAGAGCTCAG  
**KN313500G2**, Plxna1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TGTGGACCCAAACCAGCTGG  
**KN313500D**, donor DNA containing left and right homologous arms and GFP-puro functional cassette.

Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **GFP-puro in green**; **Right arm in violet**

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 TACAGGCATC GTGGTGTAC GCTCGTCGTT TGGTATGGCT TCATTCAGCT CCGGTTCCCA ACGATC

**GE100003**, scramble sequence in pCas-Guide vector

**Disclaimer:**

These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.

**RefSeq:**

[NM\\_008881](#)

**UniProt ID:**

[P70206](#)

**Synonyms:**

2600013D04Rik; mKIAA4053; NOV; PlexA1; Plxn1

**Summary:**

Coreceptor for SEMA3A, SEMA3C, SEMA3F and SEMA6D. Necessary for signaling by class 3 semaphorins and subsequent remodeling of the cytoskeleton. Plays a role in axon guidance, invasive growth and cell migration. 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.[UniProtKB/Swiss-Prot Function]

Product images:

