

## Product datasheet for **KN313036**

### **Pdgfra Mouse Gene Knockout Kit (CRISPR)**

#### **Product data:**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Product Type:</b> | Knockout Kits (CRISPR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Format:</b>       | 2 gRNA vectors, 1 GFP-puro donor, 1 scramble control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Donor DNA:</b>    | GFP-puro                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Symbol:</b>       | Pdgfra                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Locus ID:</b>     | 18595                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Components:</b>   | <b>KN313036G1</b> , Pdgfra gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TGAGGACCAGAAAGACCTGG<br><b>KN313036G2</b> , Pdgfra gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TGTGTGGATACATACCTGTG<br><b>KN313036D</b> , donor DNA containing left and right homologous arms and GFP-puro functional cassette.<br><b>GE100003</b> , scramble sequence in pCas-Guide vector                                                                                                                                                                                                                                                                                                                             |
| <b>Disclaimer:</b>   | 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.                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq:</b>       | <a href="#">NM_001083316</a> , <a href="#">NM_011058</a> , <a href="#">NR_144636</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>UniProt ID:</b>   | <a href="#">P26618</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Synonyms:</b>     | AI115593; CD140a; Pdgfr-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Summary:</b>      | This gene encodes a member of the receptor tyrosine kinase family of proteins. Binding of platelet-derived growth factor protein ligands to this receptor triggers receptor dimerization and autophosphorylation, resulting in the activation of several downstream signaling pathways. Signaling through the encoded receptor plays a role in gastrulation and the development of nearly all organ systems. Mice lacking a functional copy of this gene reportedly exhibit defects in lung, skeleton, testis and the central nervous system, and die soon after birth. Alternative splicing and intronic polyadenylation of gene transcripts have been implicated in muscle regeneration and fibrosis in adult mice. [provided by RefSeq, Jan 2017] |



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Product images:

