

Product datasheet for KN211740RB

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

PDGF Receptor alpha (PDGFRA) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control

Donor DNA: RFP-BSD

Symbol: PDGF Receptor alpha

Locus ID: 5156

Components: KN211740G1, PDGF Receptor alpha gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN211740G2, PDGF Receptor alpha gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN211740RBD, donor DNA containing left and right homologous arms and RFP-BSD

functional cassette.

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 006206, NM 001347827, NM 001347828, NM 001347829, NM 001347830

UniProt ID: <u>P16234</u>

Synonyms: CD140A; PDGFR-2; PDGFR2; RHEPDGFRA

Summary: This gene encodes a cell surface tyrosine kinase receptor for members of the platelet-derived

growth factor family. These growth factors are mitogens for cells of mesenchymal origin. The

identity of the growth factor bound to a receptor monomer determines whether the functional receptor is a homodimer or a heterodimer, composed of both platelet-derived growth factor receptor alpha and beta polypeptides. Studies suggest that this gene plays a role in organ development, wound healing, and tumor progression. Mutations in this gene have been associated with idiopathic hypereosinophilic syndrome, somatic and familial gastrointestinal stromal tumors, and a variety of other cancers. [provided by RefSeq, Mar

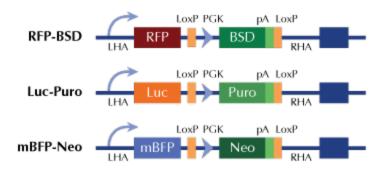
2012]





Product images:

Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter