

Product datasheet for KN211740LP

OriGene Technologies, Inc.

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

Product data:

Product Type: Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control

Donor DNA: Luciferase-Puro

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) **KN211740LPD**, donor DNA containing left and right homologous arms and Luciferase-Puro

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

RefSeq: NM 006206, NM 001347827, NM 001347828, NM 001347829, NM 001347830

UniProt ID: P16234

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

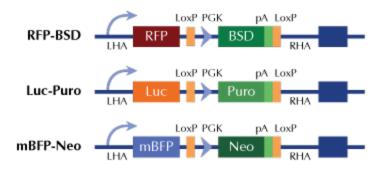
2012]





Product images:

Donor Vector Edited Chromosome



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