

# Product datasheet for KN207794LP

## CXCR2 Human Gene Knockout Kit (CRISPR)

### **Product data:**

#### OriGene Technologies, Inc.

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Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control
Donor DNA:	Luciferase-Puro
Symbol:	CXCR2
Locus ID:	3579
Components:	<ul> <li>KN207794G1, CXCR2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)</li> <li>KN207794G2, CXCR2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)</li> <li>KN207794LPD, donor DNA containing left and right homologous arms and Luciferase-Puro functional cassette.</li> <li>GE100003, scramble sequence in pCas-Guide vector</li> </ul>
RefSeq:	<u>NM 001168298, NM 001557</u>
UniProt ID:	<u>P25025</u>
Synonyms:	CD182; CDw128b; CMKAR2; IL8R2; IL8RA; IL8RB
Summary:	The protein encoded by this gene is a member of the G-protein-coupled receptor family. This protein is a receptor for interleukin 8 (IL8). It binds to IL8 with high affinity, and transduces the signal through a G-protein activated second messenger system. This receptor also binds to chemokine (C-X-C motif) ligand 1 (CXCL1/MGSA), a protein with melanoma growth stimulating activity, and has been shown to be a major component required for serum-dependent melanoma cell growth. This receptor mediates neutrophil migration to sites of inflammation. The angiogenic effects of IL8 in intestinal microvascular endothelial cells are found to be mediated by this receptor. Knockout studies in mice suggested that this receptor controls the positioning of oligodendrocyte precursors in developing spinal cord by arresting their migration. This gene, IL8RA, a gene encoding another high affinity IL8 receptor, as well as IL8RBP, a pseudogene of IL8RB, form a gene cluster in a region mapped to chromosome 2q33-q36. Alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Nov 2009]



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#### **Product images:**



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

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