

Product datasheet for KN205288RB

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

MCSF Receptor (CSF1R) 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: MCSF Receptor

Locus ID: 1436

Components: KN205288G1, MCSF Receptor gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN205288G2, MCSF Receptor gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN205288RBD**, donor DNA containing left and right homologous arms and RFP-BSD

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

RefSeq: <u>NM 001288705</u>, <u>NM 005211</u>, <u>NR 109969</u>, <u>NM 001349736</u>

UniProt ID: P07333

Synonyms: C-FMS; CD115; CSF-1R; CSFR; FIM2; FMS; HDLS; M-CSF-R

Summary: The protein encoded by this gene is the receptor for colony stimulating factor 1, a cytokine

which controls the production, differentiation, and function of macrophages. This receptor mediates most if not all of the biological effects of this cytokine. Ligand binding activates the

receptor kinase through a process of oligomerization and transphosphorylation. The encoded protein is a tyrosine kinase transmembrane receptor and member of the

CSF1/PDGF receptor family of tyrosine-protein kinases. Mutations in this gene have been associated with a predisposition to myeloid malignancy. The first intron of this gene contains a transcriptionally inactive ribosomal protein L7 processed pseudogene oriented in the opposite direction. Alternative splicing results in multiple transcript variants. Expression of a splice variant from an LTR promoter has been found in Hodgkin lymphoma (HL), HL cell lines

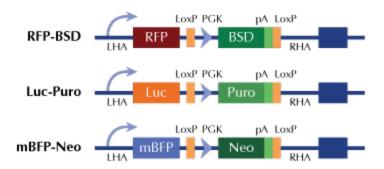
and anaplastic large cell lymphoma. [provided by RefSeq, Mar 2017]





Product images:

Donor Vector Edited Chromosome



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