

## Product datasheet for **KN205288RB**

### 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:	<b>KN205288G1</b> , MCSF Receptor gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) <b>KN205288G2</b> , MCSF Receptor gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) <b>KN205288RBD</b> , donor DNA containing left and right homologous arms and RFP-BSD functional cassette. <b>GE100003</b> , 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\\_001288705](#), [NM\\_005211](#), [NR\\_109969](#), [NM\\_001349736](#)

**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]



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## Product images:

