Product datasheet for KN205220LP

DUSP1 Human Gene Knockout Kit (CRISPR)

Product data:

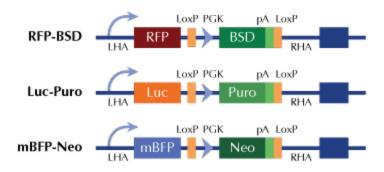|	
Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control
Donor DNA:	Luciferase-Puro
Symbol:	DUSP1
Locus ID:	1843
Components:	**KN205220G1**, DUSP1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) **KN205220G2**, DUSP1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN205220LPD**, donor DNA containing left and right homologous arms and Luciferase-Puro 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_004417
UniProt ID:	P28562
Synonyms:	CL100; HVH1; MKP-1; MKP1; PTPN10
Summary:	The protein encoded by this gene is a phosphatase with dual specificity for tyrosine and threonine. The encoded protein can dephosphorylate MAP kinase MAPK1/ERK2, which results in its involvement in several cellular processes. This protein appears to play an important role in the human cellular response to environmental stress as well as in the negative regulation of cellular proliferation. Finally, the encoded protein can make some solid tumors resistant to both chemotherapy and radiotherapy, making it a target for cancer therapy. [provided by RefSeq, Aug 2017]

Product images:

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