

Product datasheet for **KN214877**

EGFR Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA:	GFP-puro
Symbol:	EGFR
Locus ID:	1956
Components:	<p>KN214877G1, EGFR gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TCCTCCAGAGCCCGACTCGC</p> <p>KN214877G2, EGFR gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GCTGCCCGGCCGTCCCGGA</p> <p>KN214877D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p>

Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **GFP-puro in green**; **Right arm in violet**

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 GGATCATGTA ACTCGCCTT

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_005228](#), [NM_201282](#), [NM_201283](#), [NM_201284](#), [NM_001346897](#), [NM_001346898](#), [NM_001346899](#), [NM_001346900](#), [NM_001346941](#)

UniProt ID:

[P00533](#)

Synonyms:

ERBB; ERBB1; HER1; mENA; NISBD2; PIG61

Summary:

The protein encoded by this gene is a transmembrane glycoprotein that is a member of the protein kinase superfamily. This protein is a receptor for members of the epidermal growth factor family. EGFR is a cell surface protein that binds to epidermal growth factor, thus inducing receptor dimerization and tyrosine autophosphorylation leading to cell proliferation. Mutations in this gene are associated with lung cancer. EGFR is a component of the cytokine storm which contributes to a severe form of Coronavirus Disease 2019 (COVID-19) resulting from infection with severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2). [provided by RefSeq, Jul 2020]

Product images:

