

Product datasheet for KN212665RB

OriGene Technologies, Inc.

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Estrogen Receptor beta (ESR2) 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: Estrogen Receptor beta

Locus ID: 2100

Components: KN212665G1, Estrogen Receptor beta gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

KN212665G2, Estrogen Receptor beta gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN212665RBD, donor DNA containing left and right homologous arms and RFP-BSD

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

RefSeq: NM 001040275, NM 001040276, NM 001214902, NM 001214903, NM 001271876,

NM 001271877, NM 001291712, NM 001291723, NM 001437, NR 073496, NR 073497,

NR 073505

UniProt ID: Q92731

Synonyms: ER-BETA; Erb; ESR-BETA; ESRB; ESTRB; NR3A2

Summary: This gene encodes a member of the family of estrogen receptors and superfamily of nuclear

receptor transcription factors. The gene product contains an N-terminal DNA binding domain

and C-terminal ligand binding domain and is localized to the nucleus, cytoplasm, and mitochondria. Upon binding to 17beta-estradiol or related ligands, the encoded protein forms homo- or hetero-dimers that interact with specific DNA sequences to activate

transcription. Some isoforms dominantly inhibit the activity of other estrogen receptor family members. Several alternatively spliced transcript variants of this gene have been described,

but the full-length nature of some of these variants has not been fully characterized.

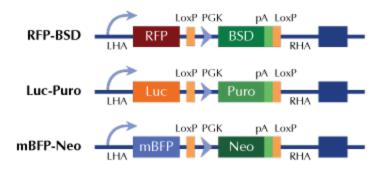
[provided by RefSeq, Jul 2008]





Product images:

Donor Vector Edited Chromosome



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