

## Product datasheet for **KN212291LP**

### Folate Binding Protein (FOLR1) 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:       | Folate Binding Protein  |
| Locus ID:     | 2348  |
| Components:   | <b>KN212291G1</b> , Folate Binding Protein gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)<br><b>KN212291G2</b> , Folate Binding Protein gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)<br><b>KN212291LPD</b> , donor DNA containing left and right homologous arms and Luciferase-Puro functional cassette. |

Homologous arm and Luciferase-Puro sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **Luciferase-Puro in green**; **Right arm in violet**

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TATGGCTTCA TTCAGCTCCG GTTCCCAACG ATC

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**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\\_000802](#), [NM\\_016724](#), [NM\\_016725](#), [NM\\_016729](#), [NM\\_016730](#), [NM\\_016731](#)

**UniProt ID:**

[P15328](#)

**Synonyms:**

FBP; FOLR

**Summary:**

The protein encoded by this gene is a member of the folate receptor family. Members of this gene family bind folic acid and its reduced derivatives, and transport 5-methyltetrahydrofolate into cells. This gene product is a secreted protein that either anchors to membranes via a glycosyl-phosphatidylinositol linkage or exists in a soluble form. Mutations in this gene have been associated with neurodegeneration due to cerebral folate transport deficiency. Due to the presence of two promoters, multiple transcription start sites, and alternative splicing, multiple transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Oct 2009]

**Product images:**
