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# Product datasheet for KN211292LP

## GLDC 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:** | GLDC |
| **Locus ID:** | 2731 |
| **Components:** | **KN211292G1**, GLDC gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)<br>**KN211292G2**, GLDC gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)<br>**KN211292LPD**, donor DNA containing left and right homologous arms and Luciferase-Puro functional cassette.<br>**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_000170 |
| **UniProt ID:** | P23378 |
| **Synonyms:** | GCE; GCSP; HYGN1 |
| **Summary:** | Degradation of glycine is brought about by the glycine cleavage system, which is composed of four mitochondrial protein components: P protein (a pyridoxal phosphate-dependent glycine decarboxylase), H protein (a lipoic acid-containing protein), T protein (a tetrahydrofolate-requiring enzyme), and L protein (a lipoamide dehydrogenase). The protein encoded by this gene is the P protein, which binds to glycine and enables the methylamine group from glycine to be transferred to the T protein. Defects in this gene are a cause of nonketotic hyperglycinemia (NKH).[provided by RefSeq, Jan 2010] |

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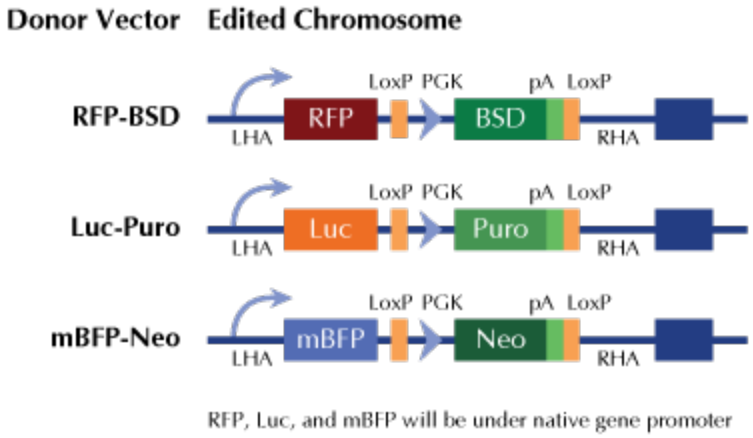
## Product images:




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