

Product datasheet for **KN218710LP**

Growth hormone receptor (GHR) Human Gene Knockout Kit (CRISPR)

Product data:

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| Product Type: | Knockout Kits (CRISPR) |
| Format: | 2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control |
| Donor DNA: | Luciferase-Puro |
| Symbol: | Growth hormone receptor |
| Locus ID: | 2690 |
| Components: | KN218710G1 , Growth hormone receptor gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) KN218710G2 , Growth hormone receptor gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) KN218710LPD , 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_000163 , NM_001242399 , NM_001242400 , NM_001242401 , NM_001242402 , NM_001242403 , NM_001242404 , NM_001242405 , NM_001242406 , NM_001242460 , NM_001242461 , NM_001242462 |
| UniProt ID: | P10912 |
| Synonyms: | GHBP; GHIP |



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Summary:

This gene encodes a member of the type I cytokine receptor family, which is a transmembrane receptor for growth hormone. Binding of growth hormone to the receptor leads to receptor dimerization and the activation of an intra- and intercellular signal transduction pathway leading to growth. Mutations in this gene have been associated with Laron syndrome, also known as the growth hormone insensitivity syndrome (GHIS), a disorder characterized by short stature. In humans and rabbits, but not rodents, growth hormone binding protein (GHBP) is generated by proteolytic cleavage of the extracellular ligand-binding domain from the mature growth hormone receptor protein. Multiple alternatively spliced transcript variants have been found for this gene.[provided by RefSeq, Jun 2011]

Product images:
