

Product datasheet for **KN218710**

Growth hormone receptor (GHR) 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:	Growth hormone receptor
Locus ID:	2690
Components:	<p>KN218710G1, Growth hormone receptor gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: ACTTGATCCTGCCAGTGCCA</p> <p>KN218710G2, Growth hormone receptor gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TTCGCTACATCCAAGTTTT</p> <p>KN218710D, 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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TTAGTTTTAC TAGGGAGTTT TTGTTTCCTT TTGCTTCCCT CCTTCTTTCT GCTTCCCTTC TAGTTAAACC
TCTTTAGGAT GGCTCATTAG CAACTCGTTT TGAGTGGTTT GAGCTCTTTT GTTCACTGGG AAACAGATTT
ATGAAATGTT ACTATTACCA TGATTGTTAT GTTTTCCTT TTATGGCCTG TCCAGCTCAA GGCCCCATGC
TTTCTGATAC TGCTGATAAG GTTTTCTATT TCCAGATCAA ATTAAAGCAA ACCTTACTGG CCCTGTTACT
GAAGCTGTGC ATGGGGGTCG TTTGCTGTGA GGTGTTTCTA TGGCTTTGAG CCAGGGTATG AACATCTCTA
GTGTTTCATGT TATTTCCCTGA GACTAGCACT CACGGGAAGT AGAATTTATT ACAACCTGCT GTTTGAGTTC
ATGAAAAGTA GGACAATATG AGACTCTGGG GCAGTGAAG ACTTACCAGG ATTCCTTCTG GAACTGACTC
GTCAGCTCAT TCATGTCTTA CCCAGTCTTT AAACAGTATT TCATGATAAT GGTCTGCTTT TAATTGCTGG
GCTTTACCTT ACCCTTTTTG TGATTGCAGG TCCTACAGGT GGATGATTTT ATTAAAAGAT GCAAGTTTTA
CATAGCAGCA AAAAGGAAAC TTGACTTAGC TTTAAAATCA GAAACTAGTA GGACTTTTCT GTGGATGTTT
AGGAGGAATG CAGTAGTCAG TCAACTTTGG CATCTGATGT TTTTATATCA AAAATTAATA CTACAAATCA
TGCTGAGGAC ATTTATGTTG AAGACAAGCC AGGTCTCTTG TTCTCAGGCT TTGGGAGAGA TATTGAAATT
ACACTGAAGG GTTATTAGCT TACTGTTTAC TCAGCTCATC TGTGACTAAG GATATCTAAT CTATTTCCAG
AGCTCAGAAT TCAGGCTTGT TAATCATATT CTAGAGAAA AGAAATTGCA GGTTTCAAAT GAATTTCACT
TCTCACTCTC TGGGTGATTA CCATTTGGCT AAGTTGAGGA AAGAGACACC TGAAATAGTT GAATGATATA
CCCAGAAATT ATGAGCTTCC TTCCCATCT CTATAATTCT CCCTCCCTTT TTTATATCCC TCTCCTTGTA
GAGAAGTCTC AATATGTTTA AACTATGTTT CATAGCAGAC CTAATAAAA CAAGGAAGAG TAATAGAAGG
GAAAGGGAAG

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GE100003, scramble sequence in pCas-Guide vector



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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

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:

