

## Product datasheet for **KN211372**

### NRG1 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:** NRG1  
**Locus ID:** 3084  
**Components:** **KN211372G1**, NRG1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCGCGCCGCTCCGGGCGTCC  
**KN211372G2**, NRG1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CAGCGGCGGCGACGAGCGGG  
**KN211372D**, donor DNA containing left and right homologous arms and GFP-puro functional cassette.

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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 GGGGGATCAT GTAACCTGCC TT

**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\\_001159995](#), [NM\\_001159996](#), [NM\\_001159999](#), [NM\\_001160001](#), [NM\\_001160002](#),  
[NM\\_001160004](#), [NM\\_001160005](#), [NM\\_001160007](#), [NM\\_001160008](#), [NM\\_001322197](#),  
[NM\\_001322201](#), [NM\\_001322202](#), [NM\\_001322205](#), [NM\\_001322206](#), [NM\\_001322207](#),  
[NM\\_004495](#), [NM\\_013956](#), [NM\\_013957](#), [NM\\_013958](#), [NM\\_013959](#), [NM\\_013960](#), [NM\\_013961](#),  
[NM\\_013962](#), [NM\\_013964](#), [NM\\_001322203](#)

**UniProt ID:**

[Q02297](#)

**Synonyms:**

ARIA; GGF; GGF2; HGL; HRG; HRG1; HRGA; MST131; MSTP131; NDF; NRG1-IT2; SMDF

**Summary:**

The protein encoded by this gene is a membrane glycoprotein that mediates cell-cell signaling and plays a critical role in the growth and development of multiple organ systems. An extraordinary variety of different isoforms are produced from this gene through alternative promoter usage and splicing. These isoforms are expressed in a tissue-specific manner and differ significantly in their structure, and are classified as types I, II, III, IV, V and VI. Dysregulation of this gene has been linked to diseases such as cancer, schizophrenia, and bipolar disorder (BPD). [provided by RefSeq, Apr 2016]

Product images:

