

## Product datasheet for **KN204664**

### RAGE (AGER) 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:	RAGE
Locus ID:	177
Components:	<p><b>KN204664G1</b>, RAGE gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCGGAACAGCAGTTGGAGCC</p> <p><b>KN204664G2</b>, RAGE gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGGGTAAAGTGCTTTCTGC</p> <p><b>KN204664D</b>, 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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AAGGCGAGTT ACATGATCCC CCATGTTGTG CAAAAAAGCG GTTAGCTCCT TCGGTCCTCC GATCGTTGTC
AGAAGTAAGT TGGCCGCAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
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 TTAATTGTTG CCGGGAAGCT AGAGTAAGTA GTTCGCCAGT TAATAGTTTG CGCAACGTTG TTGCCATTGC  
 TACAGGCATC GTGGTGTAC GCTCGTCGTT TGGTATGGCT TCATTCAGCT CCGGTTCCCA ACGATC

**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\\_001136](#), [NM\\_001206929](#), [NM\\_001206932](#), [NM\\_001206934](#), [NM\\_001206936](#),  
[NM\\_001206940](#), [NM\\_001206954](#), [NM\\_001206966](#), [NM\\_172197](#), [NR\\_038190](#)

**UniProt ID:**

[Q15109](#)

**Synonyms:**

RAGE

**Summary:**

The advanced glycosylation end product (AGE) receptor encoded by this gene is a member of the immunoglobulin superfamily of cell surface receptors. It is a multiligand receptor, and besides AGE, interacts with other molecules implicated in homeostasis, development, and inflammation, and certain diseases, such as diabetes and Alzheimer's disease. Many alternatively spliced transcript variants encoding different isoforms, as well as non-protein-coding variants, have been described for this gene (PMID:18089847). [provided by RefSeq, May 2011]

