

## Product datasheet for **KN216220**

### TRPM2 Human Gene Knockout Kit (CRISPR)

#### Product data:

**Product Type:** Knockout Kits (CRISPR)

**Format:** 2 gRNA vectors, 1 GFP-puro donor, 1 scramble control

**Symbol:** TRPM2

**Locus ID:** 7226

**Components:** **KN216220G1**, TRPM2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGAGATTGGAGACCATCCCC  
**KN216220G2**, TRPM2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GAGGAAAGCTGGCTCGGAGC  
**KN216220D**, donor DNA containing left and right homologous arms and functional cassette. Homologous arm and sequences:  
pUC vector backbone in gray; **Left arm sequence in blue**; **in green**; **Right arm in violet**

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ACGGCGTGGA GTTCGAGCTG GTGGGCGGCG GAGAGGGCAC CCCCGAGCAG GGCCGCATGA CCAACAAGAT
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 TGTTGCCATT GCTACAGGCA TCGTGGTGTG ACGCTCGTCG TTTGGTATGG CTTTATTTCAG CTCCGGTTCC CAACGATC

**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\\_001001188](#), [NM\\_003307](#), [NR\\_038257](#), [NM\\_001320350](#), [NM\\_001320351](#), [NM\\_001320352](#)

**UniProt ID:**

[O94759](#)

**Synonyms:**

EREG1; KNP3; LTRPC2; MGC133383; NUDT9H; NUDT9L1; TRPC7

**Summary:**

The protein encoded by this gene forms a tetrameric cation channel that is permeable to calcium, sodium, and potassium and is regulated by free intracellular ADP-ribose. The encoded protein is activated by oxidative stress and confers susceptibility to cell death. Alternative splicing results in multiple transcript variants encoding distinct protein isoforms. Additional transcript variants of this gene have been described, but their full-length nature is not known. [provided by RefSeq, Feb 2016]

Product images:

