

Product datasheet for **KN220964LP**

Zinc transporter 8 (SLC30A8) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)
Format: 2 gRNA vectors, 1 Luciferase-Puro donor, 1 scramble control
Donor DNA: Luciferase-Puro
Symbol: Zinc transporter 8
Locus ID: 169026
Components: **KN220964G1**, Zinc transporter 8 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)
KN220964G2, Zinc transporter 8 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)
KN220964LPD, donor DNA containing left and right homologous arms and Luciferase-Puro functional cassette.

Homologous arm and Luciferase-Puro sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **Luciferase-Puro in green**; **Right arm in violet**

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AAGGCGAGTT ACATGATCCC CCATGTTGTG CAAAAAGCG GTTAGCTCCT TCGGTCCTCC GATCGTTGTC
AGAAGTAAGT TGGCCGAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCAATGC
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AGGAAGGCAA AATGCCGCAA AAAAGGGAAT AAGGGCGACA CGGAAATGTT GAATACTCAT ACTCTTCCTT
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ACCTGTCTGT CCAGCTGCAT TAATGAATCG GCCAACGCGC GGGGAGAGGC GGTTCGCGTA TTGGGCGCTC
TTCCGCTTCC TCGCTACTG ACTCGCTGCG CTCGGTCTGT CGGCTGCGC GAGCGGTATC AGCTCACTCA
AAGGCGGTAA TACGGTTATC CACAGAATCA GGGGATAACG CAGGAAAGAA CATGTGAGCA AAAGGCCAGC
AAAAGCCAG GAACCGTAAA AAGCCGCGT TGCTGGCGTT TTTCCATAG CTCCGCCCC CTGACGAGCA
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CCTGGAAGCT CCCTCGTGCG CTCTCCTGTT CCGACCTGC CGCTTACCG ATACCTGTCC GCCTTTCTCC
CCTCGGGAAG CGTGGCGCTT TCTCATAGCT CACGCTGTAG GTATCTCAGT TCGGTGTAGG TCGTTCGCTC
CAAGCTGGGC TGTGTGCACG AACCCCCGT TCAGCCCGAC CGCTGCGCT TATCCGTAA CTATCGTCTT
GAGTCCAACC CGTAAGACA CGACTTATCG CCACTGGCAG CAGCCACTGG TAACAGGATT AGCAGAGCGA
GGTATGTAGG CGGTGCTACA GAGTCTTGA AGTGGTGGCC TAACTACGGC TACTAGAA GAACAGTATT
TGGTATCTGC GCTCTGCTGA AGCCAGTTAC CTTCGAAAA AGAGTTGGTA GCTCTTGATC CGGCAAAACA
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CATGAGATTA TCAAAAAGGA TCTTACCTA GATCCTTTA AATTAATAA GAAGTTTAA ATCAATCTAA
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GTCTATTTTC TTCATCCATA GTTGCCTGAC TCCCCGCTGT GTAGATAACT ACGATACGGG AGGGCTTACC
ATCTGGCCCC AGTGCTGCAA TGATACCGCG AGAACACGC TCACCGGCTC CAGATTTATC AGCAATAAAC
CAGCCAGCCG GAAGGGCCGA GCGCAGAAGT GGTCTGCAA CTTTATCCGC CTCCATCCAG TCTATTAATT
GTTGCCGGGA AGCTAGAGTA AGTAGTTCGC CAGTTAATAG TTTGCGCAAC GTTGTGCCA TTGCTACAGG
CATCGTGGTG TCACGCTCGT CGTTTGGTAT GGCTTCATTC AGTCCGGTT CCAACGATC

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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_001172811](#), [NM_001172813](#), [NM_001172814](#), [NM_001172815](#), [NM_173851](#)

UniProt ID:

[Q8IWU4](#)

Synonyms:

ZnT-8; ZNT8

Summary:

The protein encoded by this gene is a zinc efflux transporter involved in the accumulation of zinc in intracellular vesicles. This gene is expressed at a high level only in the pancreas, particularly in islets of Langerhans. The encoded protein colocalizes with insulin in the secretory pathway granules of the insulin-secreting INS-1 cells. Allelic variants of this gene exist that confer susceptibility to diabetes mellitus, noninsulin-dependent (NIDDM). Several transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Mar 2010]

Product images:
