

Product datasheet for **KN206575**

SLC22A4 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:	SLC22A4
Locus ID:	6583
Components:	<p>KN206575G1, SLC22A4 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TGGTATGTCAGTCGTGTTCC</p> <p>KN206575G2, SLC22A4 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CGACGAGGTGATCGCCTTCC</p> <p>KN206575D, 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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AGCTCAGCCT CCAGATTGGA GGAGACCGCG GAGGGAACCC TGCTGGGGTC TGGGCCCGGG GCCACGCGGC
CCGAGCAGAT CGAGGGCCGA CCCCTCCGAG AACTCGTCT CTGGCCTCGG CTCCTCCCTT GCGCCCGCCC
TCCCACGTGG GGCCAGGTC TGGGAATCAG CGCTCGGGGG TGGCTGGGGA CAACCGAGAA CGAGCTTCTT
CCCCGGCACG CGGGCGGAAT GGCTGAGCCC AGCCTGGAAG CCCCCGTAG GTCCTTGGGG GCGGGCGGGC
GCGCGAAGCA CAGGGCGGAG ACAGCCGGGA GCCCAGCCTC CCGGGCTGGG CCGCCCTCCC CTTCCCGCG
CCCGGCCGGG GATGGGGGTG TGGTCCCAAG TGTACAGTGG CATCAAGCTC AGCGCGAGCT CCCGGGAACG
CTCCAACGCC TTCAGCCTGT TTCCAGGAA CGGTCCCGG CTTGCGGCC CAATTTCTAA CAGCCTGCCT
GTCCCCGGG AACGTTCTAA CATCCTTGGG GAGCGCCCCA GCTACAAGAC ACTGTCTGA GAACGCTGTC
ATCACCCGTA GTTGCAAGTT TCGGAGCGGC AGTGGGAAGC ACCGCTGTCG AGTGCCGGAC GCCCGGAACC
TGAGCAGCGC CTGGCGCAAC AACAGTGTCC CGCTGCGGCT GCGGGACGGC CGCGAGGTGC CCCACAGCTG
CAGCCGCTAC CGGCTCGCCA CCATCGCAA CTTCTCGGCG CTCGGGCTGG AGCCGGGGCG CGACGTGGAC
CTGGGGCAGC TGGAGCAGGA GAGCTGCCTG GATGGCTGGG AGTTCAGCCA GGACGTCTAC CTGTCCACCG
TCGTGACCGA GGTGGGTGCC AGGCCGAGAC CGTTGACCCG GGAGTGCCTG ACCCTCCCTC TGCGTACGCC
CCCTTGAGA CTCCTGCGC AGTGCCCGGG TCAGCGCTC CCTCCCTC AAACCTGCTG TTCATACTTC
CAGCAGCGGG TGTGCACCC AAGAAAGAA AGGACTCACG CGAGGCGCAT TCCTGGGTCG TTTCTGTCCA
ATAAGGAGGT GATGGAGAAA GGAGTTTGTG ACCAACTGTC TTTTCATTTC CGATTTTCAC AACAAATGAA
GTTTCCTAAG AACCTAGATG TTGCGTTGGG GGAAGCGCAG CCCCAGGCTA CCCAGACGCA CTGCTGAGT
CACCTTCCTG

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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_003059](#)

UniProt ID: [Q9H015](#)

Synonyms: OCTN1

Summary: Polyspecific organic cation transporters in the liver, kidney, intestine, and other organs are critical for elimination of many endogenous small organic cations as well as a wide array of drugs and environmental toxins. The encoded protein is an organic cation transporter and plasma integral membrane protein containing eleven putative transmembrane domains as well as a nucleotide-binding site motif. Transport by this protein is at least partially ATP-dependent. [provided by RefSeq, Jul 2008]

Product images:

