

Product datasheet for **KN210381**

Orexin Receptor 1 (HCRTR1) 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:	Orexin Receptor 1
Locus ID:	3061
Components:	<p>KN210381G1, Orexin Receptor 1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TGCCAGGGGGACCCCATC</p> <p>KN210381G2, Orexin Receptor 1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AACTCATCTTCATAGTCTGG</p> <p>KN210381D, 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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CTCCCAAATC TACGGTGTTC GGTGGGTTTC AACAGACCTG GCTTAAGAGC TTTGTGACCT TGAGCAAGAG
ACTCAATCTC TCTGAGCTTC GGTCTCATCT GCAAAGCAGG GTACCCTAAT AATGGTAACC GGAAACGTCC
CCGAAACTAC CTTCTCGTAC CAGGTTCTTG GTGAAGCACT TGGCACGCAT CGGAGCTCAT TACTCCTCAT
CGTGGTCTCT TAAGGTATGT AGGGCTGTCA CCCATTAGA CAGATGGGGA AACCAAGGCT GAAAGAGGCC
AGTAAGCTA CCCAAGGCAA CTGGTGTGGA ATGGGATGC AACCCAGGTC TGTCTTCTC CACCAATTTT
ATGACTGTGA GAATTAAGAG GGAATTATA CGCAAAGCGC CTGGCACAAT CCCTAATGTT TCCTTCCTTC
TCTCTTTTCC CACTCCCTCC TTTCTTCTC CCCTTCAGGA AGTTTGAGGC TGAGACCCGA AAAGACCTGG
GTGCAAGCCT CCAGGCACCC TGAAGGGAGT GGGCTGAGGG CTGGCCCAAG CTCCCTCCTC TCCCTCTGTA
GAGCCTAGGA TGCCCTCTG CTGCAGCGGC TCCTGAGCTC TCTCCGCTAT CTGTGGCGCG ATTATCTGTA
CCCAAAACAG TATGAGTGGG TCCTCATCGC AGCCTATGTG GCTGTGTTTC TCGTGGCCCT GGTGGGCAAC
ACGCTGGGTA GGTCCAGGGC TTGCCCGGCA GTGCTGCCGG CTTTCCCTGG GGATTGAAGG GGGTTGTGTG
GGAGGAGGGC TCGTGATTA GGCAGAACTA GGATGGGTGT GGCTCTGCCA CCAGCTTCCAC CTCGCTGCAC
CCTGCAGTCT GCCTGGCCGT GTGGCGGAAC CACCACATGA GGACAGTCAC CAACTACTTC ATTGTCAACC
TGTCCTGGC TGACGTTCTG GTGACTGCTA TCTGCCTGCC GGCCAGCCTG CTGGTGGACA TCACTGAGTC
CTGGCTGTTC GGCCATGCC TCTGCAAGGT CATCCCCTAT CTACAGGTGA GCTCTGCCCA GGCACCCCTC
ACCACTCCTT GTCACGCCTG TAAAAACCC ACGGCCTTGC ATAGGTCTCA GTGACCCCCA GACTTGCCCTT
TCAGACAGGT CAGTGGCTCA TGACCCCTGA AGTGTCATCC TCTGCTGCTA GCAAGGGCAA GCCACCAGAT
CAGACACTCG

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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_001525](#)

UniProt ID: [O43613](#)

Synonyms: OX1R

Summary: The protein encoded by this gene is a G-protein coupled receptor involved in the regulation of feeding behavior. The encoded protein selectively binds the hypothalamic neuropeptide orexin A. A related gene (HCRTR2) encodes a G-protein coupled receptor that binds orexin A and orexin B. [provided by RefSeq, Jan 2009]

Product images:

