

## Product datasheet for **KN217897**

### NEDD4 2 (NEDD4L) 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:	NEDD4 2
Locus ID:	23327
Components:	<p><b>KN217897G1</b>, NEDD4 2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CTATGGACTTTCCGAAGACG</p> <p><b>KN217897G2</b>, NEDD4 2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CGCGGGATAGGAACTCCCCG</p> <p><b>KN217897D</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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GCCCGGGGCC GGGGTGGGCG TGGGGCTGAA CTCCGCCACC CCCGCAGCCC GCGGCCCGCT CGCCAGCCCC
GCCTGTGATT GGCTTGGGGG GCGCGTGTGC CCGCCCCGGC GAACGGGGAG GGTACCCTCG CGGCGCCGGT
GGGAGGAGGC GGAGGAGGGG GCGGAGAGAG CGGGGGCCCG GACGGCGCTA GCGAGGAGGC GGGCGAGCCG
GGTCCCCGGG AGCGCAGAGG AGGCTCGGAG GGGGGCGGAG AGCGGCGGGG CGGGAGGGAG GCGCGGGTCC
CGGGGAGGGA AAGCCCCGCC GGGTCTGCGC CGCCGCCGCG GCAGTGAGA GGCGCCGGG CTGCCGCCCG
GTGCTCGGCG CGCTCTCGGG AGCCGCCCGC CCGCTGGTCC CGCAGCCTTC CGGGAGGAAG CGGTGCCGCG
AGCGTCCAGG GCGCGCTCTC GGGCACCTC ACCTGCCGCG GCCCGGCCG TTACCCGGCA GGGCGTGCGC
AGGGTAGGGT GCGGGACCGG GGGGACCTGG AGGCAGAGGG GAGAACCAGC CGTCCGCGCC GCAGCACAGC
CGCTGGGAGC GCCTCAGACC CCGCGCGGGG CGCCGGCTCC GAAAGGGGCC GTCCCCGGGG TGCTCGTGCC
CAGCGTCTGC AGGGGAGCCC CAAAGCGGGA GCGCCCCGGA GCGGGATCCA GGGGAGCTTG GGTCTTCCG
CACCCCCAC CCTCCGAAG CCGAGCTCAT TGTTTGAAA TAAAGCGGCG CGACGCCCTT GGAGCTGGGG
GTCACTCCG CAGCTCCTCG CTTTCGGGAG GAGAGGGAGG GGGCATGCGT GCCTCTCTC CCTCTTCTC
TCCAAGCAGC GTCTCCCGG GCTGTTGGC AACTTTCGC CTCTCGCCC TGCAGCCGG GAGTCCATGA
TGATGTAC GTCTGGTTC GCGGCTGGA GACCCGGGAC TCGGAGAAAG CCGGATCGT TCCCCCTGGA
ACTTTCTCTC TCATGATTGT GTGGATCAGC AGGCGCTCAG AAGCCTGTGC GTGTTATCC CGGCGGGAAT
GGGGACACG CTGCGTGTGT CCCTCCCCTC GTTTTGAAA GTCTACGCC AGGATTGTGG ATTTCCGGAGC
CTCGGTGGGG GAGGTGTTCA AGGCTGTTGG CAGGTGCTCC TGGAACTTG GGGAGGAAGC TTGACGCCCT
GCCATTTTTT

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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\\_001144964](#), [NM\\_001144965](#), [NM\\_001144966](#), [NM\\_001144967](#), [NM\\_001144968](#), [NM\\_001144969](#), [NM\\_001144970](#), [NM\\_001144971](#), [NM\\_001243960](#), [NM\\_015277](#)

**UniProt ID:** [Q96PU5](#)

**Synonyms:** hNEDD4-2; NEDD4-2; NEDD4.2; RSP5

**Summary:** This gene encodes a member of the Nedd4 family of HECT domain E3 ubiquitin ligases. HECT domain E3 ubiquitin ligases transfer ubiquitin from E2 ubiquitin-conjugating enzymes to protein substrates, thus targeting specific proteins for lysosomal degradation. The encoded protein mediates the ubiquitination of multiple target substrates and plays a critical role in epithelial sodium transport by regulating the cell surface expression of the epithelial sodium channel, ENaC. Single nucleotide polymorphisms in this gene may be associated with essential hypertension. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Mar 2012]

### Product images:

