

Product datasheet for **KN308748BN**

Keap1 Mouse Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control
Donor DNA:	mBFP-Neo
Symbol:	Keap1
Locus ID:	50868
Components:	<p>KN308748G1, Keap1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) KN308748G2, Keap1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) KN308748BND, donor DNA containing left and right homologous arms and mBFP-Neo functional cassette. Homologous arm and mBFP-Neo sequences: pUC vector backbone in gray; Left arm sequence in blue ; mBFP-Neo in green ; Right arm in violet</p> <pre> TGCTTTCTCG CTGTGTCTCT GGAGCTCAGA GCAGTCCCAA ATACATAAAT GGCAGGCTCT GTAAATGTTG GTGTGGTGTG GAAAGGAATC TGACATGTTG GACGAAGGCA AGGGGAGGGA AGGATGGCTG GAACAGTGAA GAGGTTGGAA AGCGGGTGTG GAGTTTTACA GGCCATTGAC GATTTGGGGT TTCCATTCTT GGGCTCGGTG AAAGTGTTG GGTGATTCTG AGCAGGAAAA GGAACATGAT ATGCCCTGAA GGCCCGCGAG TTGAGAAGTT AGTTTGAATG GAGCCGGCTG TGTCCAGTTT ACTTGGCTTG GCAAAATCTG CACTTAGATA TCATTGCTTA GTCTTGCAAA AAAAGAAGCC TGGCTGGACA TGGTGGCACA TACTGTAATC CCAGCACTCG GGAGGAGCCA GCTTTGGTTG CATAGTGAGT TGAAGCCAG CCTAGGCTAT GTAAGACCCT GTCTCAAATA AAATAAAATA AAGTGGCAGG GTCTGGTCTA ACCCAGCCTC TGTTCCAGC GCTGTGCTCT TCCCTCCCTC CAGGCCCTA ACGGCTAGCA GAGGAAGTGT GTCTTGTCAT CAGGAACCCC TATGCCTCCA CGGAGTGCAA GGCAGAGGTG ACGCCCTCGC AGGACGGTAA CCGAACCTTC AGCTACACAC TAGAGGATCA CACCAAGCAG GCTTTTGGCG TCATGAACGA GCTTCGCCTG AGCCAGCAAC TCTGTGACGT GACCCTGCAG GTCAAATATG AGGACATCCC AGTGCCCAA TTCATGGCTC ACAAAGTGGT GCTGGCCTCC TCCAGCCAG TCTTTAAAGC CATGTTCAAC AACGGGCTTC GGGAGCAGGG CATGGAGGTG GTGTCCATCG AAGGCATCCA CCCTAAGGTC ATGGAAGGC TTATTGAGTT CGCCTACAG GCCTCCATCT CCGTGGGCGA GAAGTGTGTC CTGCACGTGA TGAACGGGGC GGTCATGTAC CAGATTGACA GCGTGGTTCG AGCCTGCAGC GACTTCCTCG TGCAGCAGCT GGACCCAGC AACGCCATTG GCATCGCCAA CTTGCGGAG CAGATCGGCT GCACTGAACT GCACCAGCGT GCCCGGGAGT ATATCTACAT GCACTTCGGG GAGGTGAGTG AAGCCGGGCT TTGGGCTCAG AAGTGGGATA GGCCAGCGTG CGTTCTCCC </pre> <p>GE100003, scramble sequence in pCas-Guide vector</p>



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RefSeq: [NM_001110305](#), [NM_001110306](#), [NM_001110307](#), [NM_016679](#)

UniProt ID: [Q9Z2X8](#)

Synonyms: INRF2; mKIAA0132

Summary: Acts as a substrate adapter protein for the E3 ubiquitin ligase complex formed by CUL3 and RBX1 and targets NFE2L2/NRF2 for ubiquitination and degradation by the proteasome, thus resulting in the suppression of its transcriptional activity and the repression of antioxidant response element-mediated detoxifying enzyme gene expression. Retains NFE2L2/NRF2 and may also retain BPTF in the cytosol. Targets PGAM5 for ubiquitination and degradation by the proteasome (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:

