

## Product datasheet for **KN217528**

### REV1 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:	REV1
Locus ID:	51455
Components:	<b>KN217528G1</b> , REV1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AAATGATGGCTGGGAAACAT <b>KN217528G2</b> , REV1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGGAAGCGAGCTGAAAATGA <b>KN217528D</b> , donor DNA containing left and right homologous arms and GFP-puro functional cassette.

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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AAGGCGAGTT ACATGATCCC CCATGTTGTG CAAAAAAGCG GTTAGCTCCT TCGGTCCTCC GATCGTTGTC
AGAAGTAAGT TGGCCGAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
CATCCGTAAG ATGCTTTTCT GTGACTGGTG AGTACTCAAC CAAGTCATTC TGAGAATAGT GTATGCGGCG
ACCGAGTTGC TCTTGCCCGG CGTCAATACG GGATAATACC GCGCCACATA GCAGAATTTT AAAAGTGCTC
ATCATTGGAA AACGTTCTTC GGGGCGAAAA CTCTCAAGGA TCTTACCGET GTTGAGATCC AGTTCGATGT
AACCCACTCG TGCACCCAAC TGATCTTCAG CATCTTTTAC TTTCAACCAGC GTTTCTGGGT GAGCAAAAAC
AGGAAGGCAA AATGCCGCAA AAAAGGGAAT AAGGGCGACA CGGAAATGTT GAATACTCAT ACTCTTCCTT
TTTCAATATT ATTGAAGCAT TTATCAGGGT TATTGTCTCA TGAGCGGATA CATATTTGAA TGTATTTAGA
AAAATAAACA AATAGGGGTT CCGCGCACAT TTCCCGGAAA AGTGCCACCT GACGTCTAAG AAACCATTAT
TATCATGACA TTAACCTATA AAAATAGGCG TATCACGAGG CCCTTTCGGG TCGCGGTTT CGGTGATGAC
GGTAAAACC TCTGACACAT GCAGCTCCCG TTGACGGTCA CAGCTTGCTT GTAAGCGGAT GCCGGGAGCA
GACAAGCCCG TCAGGGCGCG TCAGCGGGTG TTGGCGGGTG TCGGGGCTGG CTTAACTATG CGGCATCAGA
GCAGATTGTA CTGAGAGTGC ACCATAAAAT TGTAACGTT AATATTTTGT TAAAATTCGC GTTAAATTTT
TGTTAAATCA GCTCATTTTT TAACCAATAG GCCGAAATCG GCAAAAATCCC TTATAATCA AAAGAATAGC
CCGAGATAGG GTTGAGTGTT GTTCCAGTTT GGAACAAGAG TCCACTATTA AAGAACGTGG ACTCCAACGT
CAAAGGGCGA AAAACCGTCT ATCAGGGCGA TGGCCCACTA CGTGAACCAT CACCAAATC AAGTTTTTTG
GGGTCGAGGT GCCGTAAAGC ACTAAATCGG AACCCATAAG GGAGCCCCCG ATTTAGAGCT TGACGGGGAA
AGCCGGCGAA CGTGCGGAGA AAGGAAGGGA AGAAAGCGAA AGGAGCGGGC GCTAGGGCGC TGGCAAGTGT
AGCGGTACG CTGCGGTAA CCACCACACC CGCCGCGCTT AATGCGCCGC TACAGGGCGC GACTATGGT
TGCTTTGACG TATGCGGTGT GAAATACCGC ACAGATCGCT AAGGAGAAAA TACCGCATCA GGCGCCATTC
GCCATTCAGG CTGCGCAACT GTTGGGAAGG GCGATCGGTG CGGGCCTCTT CGCTATTACG CCAGCTGGCG
AAAGGGGAT GTGCTGCAAG GCGATTAAGT TGGGTAACGC CAGGGTTTTT CCAGTACGA CGTTGTAATA
CGACGGCCAG TGAATTGGAG GCTACAGTCA GTGGAGAGGA CTTTCACAGG CTGTCGCCGT GCTCATTTGA
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TAACTGCCCG TTATTCATGC GACACTTTTA TAGTATAGTT AGTTAAGTAA GTGTTGCCTT AAGGAGAATG  
 ACAGATTTAC TATTATAGTT TATTATCAAT GATAATCTTT TCTGCATCAT TTTTAATTGA CTTCTTCTAG  
 GGCTTTGGCA GAATATGTGA ATCAGGCTAT GACTGAACTC TTAAGTGTCC AGTATGTAAT AGCAAAGACA  
 GAGTTTAAAA GCCACACTAT AGGACAACCTC ATGAAGGGAA ATGTTTTGTT AGATTGTCTT ATATAATGGT  
 AACAAAGTAA GTAAGCATGG CCATGTTAGT TGGATTTGGT GTTTTATGTA AGTGAATGTT AGGATTGGTG  
 CTCAGGAATG CATAAAGATA TTTTCTATT GAATTTTAAA TATAAGAGTT ACAATTTAAA CATGTGTAGG  
 AGGGTGTTTT ATAGACAAAT TTCACTTGTA AAGCTGGAGA ATGGAGAATC TCAGAAAAAG TTTACTTAAT  
 ATTGTATACT TTCATCAGTT GGACATTTGA ATTTAATTTT TCATTTTCTT GATATTGAAA TAAAAATCA  
 TTTAGAAAATA CATTATGTTA TAAAAATTGAC ATTTTTTTTT TCCTCCCAA TACAGAAGCT CCACAAAAT  
 AATTATATCG AACTGTCTAG TTATTTTCA TTCTTCTGTT ATAATGTGGT TTAAGTTGTT TTCTAAATTG  
 TAAATTACTT TAGACACCAC ATCTTTGAGT TTTCACAGTG TATTGAAAGC CTTATGATGT TTATAAATT  
 TATCCCCTAA ACTTTACTCT CAGGAATTTT ACCCTGAGGA AATAAATATG CCTAGTGCAC AATAATTTAC  
 TATATGATGA TTTTATTGCA GCATTGCTAA TAATACAGAA AAACAGGAAA ACACATAAAT ATCCAATAAT  
 AAGGGATTGG TCAAATAAGT TATCTGTGTA TAGTGGAGCA CTGTACAGTC ATTATTCAGC TTTATATATC  
 TCAACCTGGA AGGATAACCT TACTAAAAC AATGTGTTAC AAAGAAATAT TTTGTATGAT TATATGTTT  
 TAAACCTCT GTGCTCTGAG TTATGGAAAT AAGCTTTGAA AACAAACCCC CAAAGTTTTA ATGAATAGGA  
 TTATACCAGT TTTAATTTT TCCTCCATAT TTCCTGTATT TTCTGAAAAG AAACCTCATA GTGAGCATAT  
 AATATTTTAA TAATCAGCAA AAATAATGCA GTCAT

**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\\_001037872](#), [NM\\_001321454](#), [NM\\_001321455](#), [NM\\_001321458](#), [NM\\_001321459](#),  
[NM\\_001321460](#), [NM\\_016316](#), [NR\\_135649](#), [NR\\_135650](#), [NR\\_135651](#), [NR\\_135652](#), [NR\\_135653](#)

**UniProt ID:**

[Q9UBZ9](#)

**Synonyms:**

AIBP80; REV1L

**Summary:**

This gene encodes a protein with similarity to the *S. cerevisiae* mutagenesis protein Rev1. The Rev1 proteins contain a BRCT domain, which is important in protein-protein interactions. A suggested role for the human Rev1-like protein is as a scaffold that recruits DNA polymerases involved in translesion synthesis (TLS) of damaged DNA. [provided by RefSeq, Mar 2016]

Product images:

