

Product datasheet for **KN223265**

EP300 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:	EP300
Locus ID:	2033
Components:	<p>KN223265G1, EP300 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: ATCGCTGGCGGACGCCGAGA</p> <p>KN223265G2, EP300 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGATGAGAGTTTAGGCCGCT</p> <p>KN223265D, 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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CTCTCGGCTC GGGCGAGTTC TCTGCGGCCA TTAGGGGCCG GTGCGGCGGC GGC GGC GCGG AGCGCGGCGG
CAGGAGGAGG GTTCGGAGGG TGGGGGCGCA GGCCCGGAG GGGGCACCGG GAGGAGGTGA GTGTCTCTTG
TCGCTCCTC CTCTCCCCC TTTTCGCC CCGCTCCTTG TGGCGATGAG AAGGAGGAGG ACAGCGCCGA
GGAGGAAGAG GTTGATGGCG GCGGCGGAGC TCCGAGAGAC CTCGGCTGGG CAGGGGCGCG CCGTGCGCGG
CCGGGACTG CGCCTCTAGA GCCGCGAGTT CTCGGGAATT CGCCGCAGCG GACGCGCTCG GCGAATTTGT
GCTCTTGTGC CCTCCTCCGG GCTTGGGCC AGGCCCGGCC CCTCGCACTT GCCCTTACCT TTTCTATCGA
GTCCGCATCC CTCTCCAGCC ACTGCGACCC GGCGAAGAGA AAAAGGAACT TCCCCACCC CCTCGGGTGC
CGTCGGAGCC CCCAGCCA CCCCTGGGTG CGGCGCGGGG ACCCCGGGCC GAAGAAGAGA TTTCTGAGG
ATTCTGGTTT TCCTCGCTTG TATCTCCGAA AGAATTAATA GGCACAGGTT AGTTTCGGCA GCCCGGCCT
TCCACGTTC CTTAATCTT TTCTACTCGG TGCCTTTA TTCTTCATT TTTTTTTTCT TCCTCTCTCT
CTAGTTCCCT GCCCCTAAT TAATTTTAAA GGTATTTGAA TGAGCTGGTC GAAGACGTCC AGTAGCCCAA
CCATTTTCTT TGCTCCTAA TACATTGATT GCAACACTAT GTCATATCGG TGTGTGTCT GGAATTAGAG
CTGTAAGTG GGTGCTATAT AGAAATGGCC TGTATTGTTG CTCTCATGCA ATTTAATTTG GGAAATGCCA
ATGCAATTTG GTGTAAGAGC TCCTATGCAA TTTAAGTTTC ATTTTTTTTG TTCTTGCAA ATGAATTTTCG
AATCCTTTCT CTTACTGTA CTTACTGTGT TTCCTCTACT TTCCACTCTT CGAAATTTTC TCTCCTTTGC
AGAATATTTT CTGTTGAGGA ATAGGGTGTG AAAAAATCTT GATTTTGTGT GTGCGAGGTC CAAGATTTCA
GGTTAGAGGT GAAGTTTAA AATTCTTTTA TCTTACCTAC CATTCTTAGC TTTTTTTTCC TTTTCTTCT
TATTTGCTTT

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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_001429](#), [N57495](#), [NM_001362843](#)

UniProt ID: [Q09472](#)

Synonyms: KAT3B; p300; RSTS2

Summary: This gene encodes the adenovirus E1A-associated cellular p300 transcriptional co-activator protein. It functions as histone acetyltransferase that regulates transcription via chromatin remodeling and is important in the processes of cell proliferation and differentiation. It mediates cAMP-gene regulation by binding specifically to phosphorylated CREB protein. This gene has also been identified as a co-activator of HIF1A (hypoxia-inducible factor 1 alpha), and thus plays a role in the stimulation of hypoxia-induced genes such as VEGF. Defects in this gene are a cause of Rubinstein-Taybi syndrome and may also play a role in epithelial cancer. [provided by RefSeq, Jul 2008]

Product images:

