

Product datasheet for **KN202117**

S100A3 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:	S100A3
Locus ID:	6274
Components:	<p>KN202117G1, S100A3 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TTCCTGGAAGGTGCACACGA</p> <p>KN202117G2, S100A3 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGAATACGCAGGGCGCTGTG</p> <p>KN202117D, 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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AGGATCCCAC AAGTTTTTCT TCTGGGTGCA GCTTCCTCGA GTTCAGGGCA GGAGGCAGGG TGAGGGCAGT
GGTGGTGAGG CTGTGGGGGC GCCTCTCAGA CCTGCCCTC CCTGCTAAGG CCTAGCTTCT CCAAGGGCTG
AGGGCAGAGA AGCACAGGGC CAGGCTCTCC TTGTGCAAGT TCCTGCAGGG AGGGAGGCTT CTAGGGCATC
TCATGGGCTG GGCAGACTG GGACCGAGCC ATCCCTGGT GTTGGGGATA AGAAGAGGTG GCAGATAATC
TGAGAGTGCT TAAGGAGCCC CACGGTGGGG TGTGTGGGTG GTGGGGTAGG ATGCTGTCTC TCTGAGGAGT
TTACAGCGAT GTTGGGGCAA TGAGACCTCT ACATGGGGAA ATAACAACAG GACAGCAGGG GGATAAATTA
GGAGGGGCTG GTGTGGTCTG GGAGGGCTAC TCAGAGGAGG GGGAGACTGC GGGGCCTGAA GCCTGATGGA
GGTTAAGATG GGTCTGGGAA CAGTCTCTGA GAAACACAGA GGGCAGAGGT GAGCTGGGGG GCTGGCCTGG
AACTCTGCTG TGAGCCACAC CTTGTTCTG TGACAGTGAG TCTGCCAGGC GGAGCTCAAG GAGCTGCTGC
AGAAGGAGCT GGCCACCTGG ACCCCGGTGA GCAGTCAGAG TGTCCGTCCC CTCCTCTCC GGGGGGAGGC
ACTGCCTAGA CTCTCAAAG AGAGACCTGG GGACAACAAG CATGAGCACA GGACAGCAAG GGAGGGGGCT
GGATTGTGAG GAGGGAGTGG GAGGGGGAGA ACTGACACAG CAGAAACCTC AGCTTCTCA TCTGTAAAAT
GGGATGACAA TCATCCCTGC TGCCTTGCAG AGCTGTTGAG AGGACTGAGT GAGAGCACCA TGAAGAATGC
CTAACACTTG GTAGGCACTC AGTAGCAAAT AGTAGGTGCT CGATTAATAA TCTGAGAGGA CAGATTTGGG
AGGGGATTGC AACGAGTGCA TTATCAGAGC AGGGAGGTTG AAGTCGGCCC TCAGAAGGGT GTAGTTTGGG
GTGGGGTGGG TCCACTTGGG AGAGGAAGGA GGGAGGTGGC GTGTGAGGCT GTTCTGCCCT CCTCATCCTA
CTCCCTTACC TCTCCAACC CTTCCCTTGC ACAGACTGAG TTTCCGGGAAT GTGACTACAA CAAATTCATG
AGTGTCTGG

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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_002960](#)

UniProt ID: [P33764](#)

Synonyms: S100E

Summary: The protein encoded by this gene is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. This protein has the highest content of cysteines of all S100 proteins, has a high affinity for Zinc, and is highly expressed in human hair cuticle. The precise function of this protein is unknown. [provided by RefSeq, Jul 2008]

Product images:

