

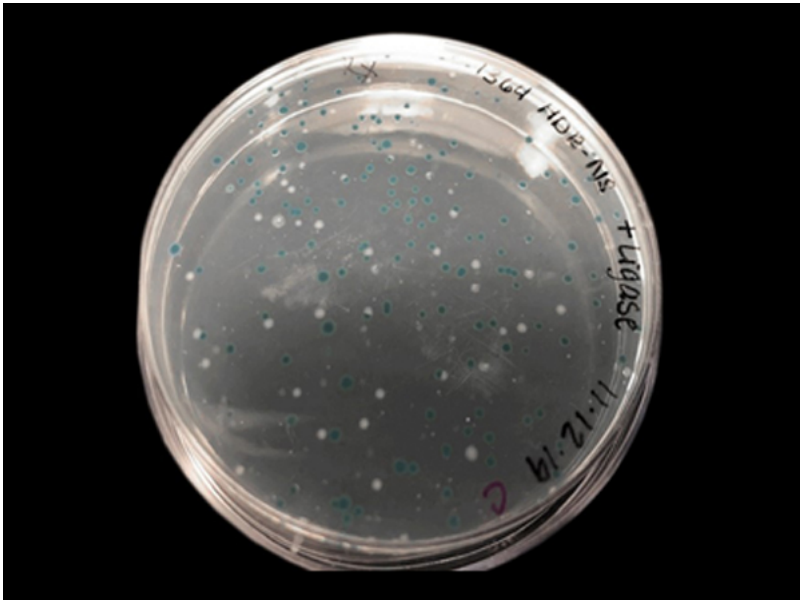
CRISPR IN A BOX™ KIT - KGA-0100
Code: KGA-0100

Size: 1 Kit

Product Description: CRISPR IN A BOX™ KIT - KGA-0100

PhysicalState: Liquid

Label	Unconjugated
Stabilizer	None
Preservative	None
Storage Condition	Store all kit components at -20°C for up to 12 months or -80°C for long-term storage.
Synonyms	CRISPR Kit, clustered regularly interspaced short palindromic repeats, CRISPR-Cas, CRISPR gene editing
Application Note	The CRISPR IN A BOX™ Kit is an easy-to-use kit that contains the latest in gene editing technology. This technology was based on the pioneering discoveries of the Gene Editing Institute, which are currently being used to explore next-generation medical therapies for diseases like cancer and sickle-cell anemia.
Background	<p>The CRISPR IN A BOX™ Kit (KGA-0100) utilizes revolutionary CRISPR-Cas technology. The model system provided uses CRISPR-Cas12a ribonucleoprotein (RNP) in vitro to modify a segment within the lacZ gene using a single-stranded donor DNA template and a mammalian cell-free extract. The single-stranded donor DNA template contains flanking arms of homology to the target site and directs the integration of a NotI restriction enzyme site. The products of this reaction are transformed into Escherichia coli (E. coli) bacteria and a visual, phenotypic readout of a blue to white color change is seen. Additional downstream sequencing or restriction enzyme digestion can be used to confirm presence of the integrated NotI site.</p> <p>One of the many advantages of the in vitro system is the ability to analyze all gene editing products from a single reaction. Other major advantages of utilizing this system include, but are not limited to, exploring different repair pathways (HDR, NHEJ, etc.), targeting a variety of unique genes, and evaluating the efficiency of diverse Cas proteins.</p>
Purity And Specificity	This kit contains components sufficient for 10 reactions: Cas12a Protein, CRISPR Guide RNA crRNA1364, Cell-Free Extract, and HDR-NS Oligonucleotide. See kit protocol for complete information.
Expiration	Expiration date is one (1) year from date of opening.
Related Products	<p>600-101-215 Anti-GFP (GOAT) Antibody - 600-101-215</p> <p>600-401-379 Anti-RFP (RABBIT) Antibody Min X Hu Ms and Rt Serum Proteins - 600-401-379</p> <p>BSA-50 BOVINE SERUM ALBUMIN - Fraction V (Immunoglobulin and Protease Free) - BSA-50</p> <p>MB-070 Blocking Buffer for Fluorescent Western Blotting - MB-070</p>
Related Links	<p>KGA-0100 Protocol</p>
Images	<p>1 Results of the CRISPR IN A BOX™. The products of this reaction are transformed into Escherichia coli (E. coli) bacteria and a visual, phenotypic readout of a blue to white color change is seen.</p>



Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.

Reviews

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