

Resource Summary Report

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Tn5 Library Prep for Deep Sequencing Loci of CRISPR/Cas9 Edited Cells. Single gene specific primer amplification (UDiTaS protocol with alterations)

DOI:10.17504/protocols.io.7k2hkye

Type: Protocol

Proper Citation

Eric Danner 2020. Tn5 Library Prep for Deep Sequencing Loci of CRISPR/Cas9 Edited Cells. Single gene specific primer amplification (UDiTaS protocol with alterations). protocols.io dx.doi.org/10.17504/protocols.io.7k2hkye

Protocol Information

URL: <https://dx.doi.org/10.17504/protocols.io.7k2hkye>

Authors: Eric Danner

Summary: This is the Tn5 gDNA prep published in the supplementary file of the UDiTaS paper (<https://bmcbgenomics.biomedcentral.com/articles/10.1186/s12864-018-4561-9>). Usage: measuring chromosome fusions, InDels, mRNA splicing, structural variants, large resection, off target integration. -> Some of these DNA repair outcomes are demonstrated using such a sample preparation in this paper (<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6455975/>). My protocol is a modified version of UDiTaS but with a few tweaks like using nested primers. You will need a protein facility to produce the recombinant Tn5. Software for analysis is on <https://github.com/ericdanner> or <https://github.com/editasmedicine/uditass>

Affiliations: Max Delbrück Center

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