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(54) Title: SEPARATING POLYNUCLEOTIDE FRAGMENTS

(57) Abstract: Provided is a method, including stretching a polynucleotide over a substrate including a plurality of equally spaced cleavage regions including a plurality of transposases, cleaving the polynucleotide with two or more of the plurality of transposases to form a plurality of polynucleotide fragments, and separating, within the plurality of polynucleotide fragments, a population of longer polynucleotide fragments from a population of shorter polynucleotide fragments. Also provided is a method including stretching a polynucleotide over a substrate including a plurality of equally spaced cleavage regions including a plurality of transposases, cleaving the polynucleotide with two or more of the plurality of transposases to form a plurality of polynucleotide fragments, and separating, within the plurality of polynucleotide fragments, a population of longer polynucleotide fragments from a population of shorter polynucleotide fragments.



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