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(54) Title: SELECTIVE CAPTURE OF TARGET DNA SEQUENCES

(57) Abstract: Many regions of genomic DNA are highly similar to other regions of the genome and thus are very difficult to capture without also capturing the similar, undesired regions. This leads to over-sequencing of regions for which there is no interest and lowers coverage of the desired regions. To minimize the capture of non-desired regions, blocking baits have been designed to prevent similar but non-desired fragments from being captured. This allows more directed sequencing of the regions of interest. Blocking baits differ from capture baits in that they have modestly different sequence that preferentially bind the non-desired DNA and do not contain a biotin or other modification so remain behind when the capture baits are selected.



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