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(54) **Title:** METHODS, COMPOSITONS, AND SYSTEMS FOR ANALYTE DETECTION

Two probe system to detect mRNA translation

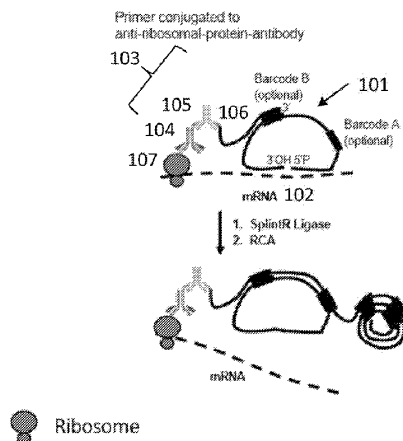


FIG. 1A

(57) **Abstract:** Provided herein are methods and systems for identifying a proximity of analytes in a sample. The method may comprise contacting one or more analytes with one or more probes. The proximity of the one or more analytes to each other may cause a ligation event between the one or more probes. An amplification reaction may be performed comprising one or more copies of a barcode or derivative thereof. The one or more copies of the barcode or derivative thereof may be detected to identify a proximity between the one or more analytes.

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