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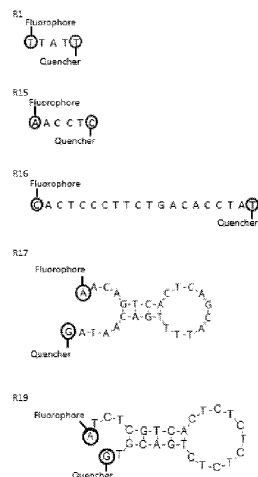
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(54) Title: CAS12 DETECTION METHODS AND COMPOSITIONS

Figure 2



(57) Abstract: Provided is a Cas12 reporter oligonucleotide comprising an arm-stem-loop-stem-arm structure, having a fluorophore molecule on one end of the oligonucleotide and a quencher molecule on the other end, wherein the oligonucleotide is able to be cleaved by Cas12 enzyme in the presence of a guide RNA bound to a target sequence. Also provided include kits and methods of detecting the presence or absence of a target sequence.

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