MRC Holland Support

Is it possible to detect SNVs with MLPA and digitalMLPA?

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It is possible to detect *known* SNVs with MLPA and digitalMLPA, but these techniques are not suitable for the detection of *unknown* SNVs. Both MLPA and digitalMLPA are primarily used to identify deletions and duplications.

Background

The MLPA and digitalMLPA techniques involve the ligation of two probe oligos that are hybridised to immediately adjacent locations on the sample DNA. This ligation step is highly specific and will be inhibited if there is a mismatch around the ligation site. This allows the design of probes that are specific for either the SNV of interest, or for the reference (wild-type) sequence at the location of a known SNV.

This principle is used to add probes for common SNVs to some MLPA and digitalMLPA probemixes. However, this method is not suitable for the detection of a large number of different SNVs, as this would require the design of specific probes for each individual SNV.

Note
Read more about the principle of the MLPA and digitalMLPA techniques.

- Tags
- digitalMLPA
- MLPA

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