**Table S2.**  **Protocol of the purification of Polyethylene Glycol 20% (PEG 20%) for elimination of bands <300-400 bp.**

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| Step | Method Description |
| 01) | Transfer the PCR product to the tube 500μL; |
| 02) | Add the same volume of PEG solution (NaCl 2.5 M + PEG 20%) and vortex.  |
| 03) | Let the PCR + PEG20% incubate at 37 °C for 15 minutes;  |
| 04) | Centrifuge for 15 minutes at high speed (13,000 rpm); |
| 05) | Remove the supernatant and discard it; |
| 06) | Add 125 µl of cold 80% ethanol;  |
| 07) | Centrifuge for 5 minutes at high speed (13,000 rpm); |
| 08) | Remove the supernatant and discard it; |
| 09) | Repeat step 06; |
| 10) | Leave to dry in an oven at 37 °C. There should be no trace of ethanol when done;  |
| 11) | Dissolve the PCR product in milliQ water. The volume should be proportional to the initial concentration of DNA. |