**Table S1.** Enzymes used for fluorescent labelling of DNA amplified from a single chromosome.

|  |  |  |
| --- | --- | --- |
| Enzyme | Particularity | Fluorochrome incorporation |
| Thermo Sequenase DNA Polymerase (GE®) | High fidelity | yes\* |
| Platinum® Tfi Exo(-) DNA Polymerase (Invitrogen) | No 3’- 5’ or 5’ - 3’ correction | yes |
| AccuTaq™ LA DNA Polymerase (Sigma) | High fidelity | yes |
| Unitaq DNA Polymerase (Uniscience) | High fidelity | yes |
| Pht Taq DNA Polymerase (Phoneutria) | Low fidelity | yes |
| Hemo KlenTaq® (BioLabs) | No 5’ - 3’ correction | yes |
| AmpliTaq® DNA Polymerase (ThermoFisher) | High fidelity | no |
| Bst DNA Polymerase (BioLabs) | Displacement DNA amplification | no |
| Platinum® Taq DNA Polymerase High Fidelity (Invitrogen) | High fidelity | no |
| Klenow Fragment (Takara) | No 5’ - 3’ correction | no |

\*Higher relative fluorescence in agarose gel and FISH