**Supplementary File 4**

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| **Template 2** | | | | |
| **DNA fragment** | **Primers** | **Template** | **PCR or hybridization** | **Restriction enzyme** |
| Biotin-handle | GACCGAGATAGGGTTGAGTG | pBlueScriptIISK + | PCR (taq), bio-11-dUTP | XhoI |
| CAGGGTCGGAACAGGAGAGC |
| Biotin-Cy5 handle | GACCGAGATAGGGTTGAGTG | pBlueScriptIISK + | PCR(Gotaq), Bio-11-dUTP+ Aminoallyl-dUTP-Cy5 | NotI-HF |
| CAGGGTCGGAACAGGAGAGC |
| pSuperCos-λ1,2 | X | X | X | NotI-HF + XhoI |