**Supplemental Digital Content 1.** PCR reagents and program.

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| **PCR Reagents** |
| ***Reagent***  | ***1 reaction (µl)*** |
| GC PCR buffer 5× | 10 |
| DMSO | 1 |
| BSA | 1 |
| dNTP mix 10 mM | 1 |
| forward primer 10 µM | 2.5 |
| reverse primer 10 µM | 2.5 |
| Phusion Polymerase 2U/µl | 0.5 |
| dH2O | 21.5 |
| DNA | 10 |
| Total | 50 |
| **Program** |
| Initialization | 98°C (3 minutes) |
| Reaction (35 cycles) | 98°C (10 seconds)65°C (15 seconds)72°C (30 seconds) |
| Final elongation | 72°C (7 minutes) |
| End | 4°C (∞) |