Dynabeads® MyOne Carboxylic Acid, CA-beads (Invitrogen, cat# 65011 or 65012) preparation:
Take 500 μl beads, wash with buffer EB for 3 times 10 min, resuspend in same volume of buffer EB

Polyethylene glycol (PEG):
PEG 6000 dissolved in MilliQ , 0.9M NaCl and 10mM Tris-HCL, pH6

70% Ethanol (prepare fresh, or not more than 1 week)
70% ethanol with 10mM Tris-HCL, pH6

dSPRI size selection:
1. Add 50 μl DNA (reaction product adjust with water to 50 μl) to each tube, then add 100 μl 13 % PEG 6000, pipet up and down 10 times (or vortex, spin down)
2. Add 10 μl CA-magnetic beads
3. Mix by pipet up and down 10 times or vortex gently, incubate at room temperature for 5 min, spin down briefly
4. Place on magnet plate for 5 min
5. Save 150 μl supernatant and transfer to new tube
6. Add 100 μl 13.5% PEG 6000 to supernatant, pipet up and down 10 times (or vortex, spin down)
7. Add 10 μl CA-magnetic beads, mix by pipet up and down 10 times or vortex gently, incubate 5 min, spin down briefly
8. Place on magnet plate for 5 min
9. Discard supernatant. Add 200 μl 70% ethanol and incubate for 30 s
10. Discard ethanol. Repeat ethanol wash.
11. Air dry for 5-10 min (Do not overdry the beads. The beads are dried when they turn from dark brown to light brown)
12. Off magnet plate, add 20 μl buffer EB and pipet mix 10-20 times, incubate for 5 min
13. On magnet plate for 5 min
14. Transfer eluant to new tube

SPRI purification:
1. Add 50 μl DNA (reaction product adjust with water to 50 μl) to each tube, then add 100 μl 16% PEG 6000, pipet up and down 10 times (or vortex, spin down)
2. Add 10 μl CA-magnetic beads, mix by pipet up and down 10 times or vortex gently, incubate at room temperature for 5 min, then spin down briefly
3. Place on magnet plate for 5 min
4. Discard supernatant. Add 200 μl 70% ethanol and incubate for 30 s
5. Discard ethanol. Repeat ethanol wash.
6. Air dry for 5-10 min (Do not overdry the beads. The beads are dried when they turn from dark brown to light brown)
7. Off magnet plate, add 15 μl buffer EB and pipet mix 10 times, incubate for 5 min

8. On magnet plate for 5 min
9. Transfer eluant to new tube