Transgene verification (GD library)

For transgene verification extract genomic DNA from two flies per line

- put the flies into a tube/96 well plate
  mash with a pipette with yellow tips containing 50 μl squishing buffer
  (10 mM Tris, 1mM EDTA, 25 mM NaCl and 200 μg/ml fresh Proteinase K)
- incubated at 37°C for 30 min, then at 95°C for 3 min
  (to destroy the Proteinase)
- spin for 5 min at 4000 rpm
- move supernatant to a new tube/96 well plate
- PCR reactions set up with one specific primer (the left primer that was used for cloning) and one common primer (hsp7_2: GAGGCGCTTCGTCTACGGAGCGAC,
  SV2: CACAGAAGTAAGGTTCCTTCACAAAGATCC)
- 34 cycles of 94°C for 30 sec, 59° for 30 sec and 72° for 1 min 30 sec
- 1.5 mM MgCl2, 200 μM dNTPs (each), 0.5 μM each primer, 0.25 μl Taq and 1 μl genomic DNA in a total reaction volume of 50 μl
- 10 μl of the PCR reaction load on a 2 % agarose gel
- control: product length = sequence length + 200 bp