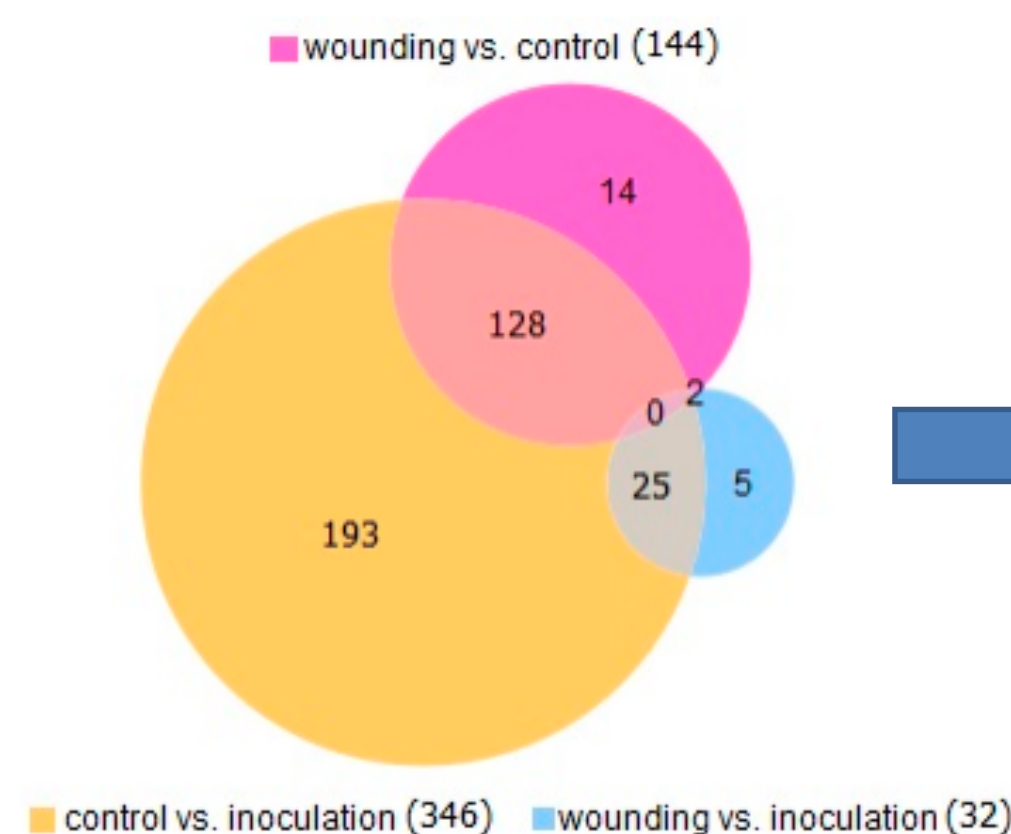


Before the experiment

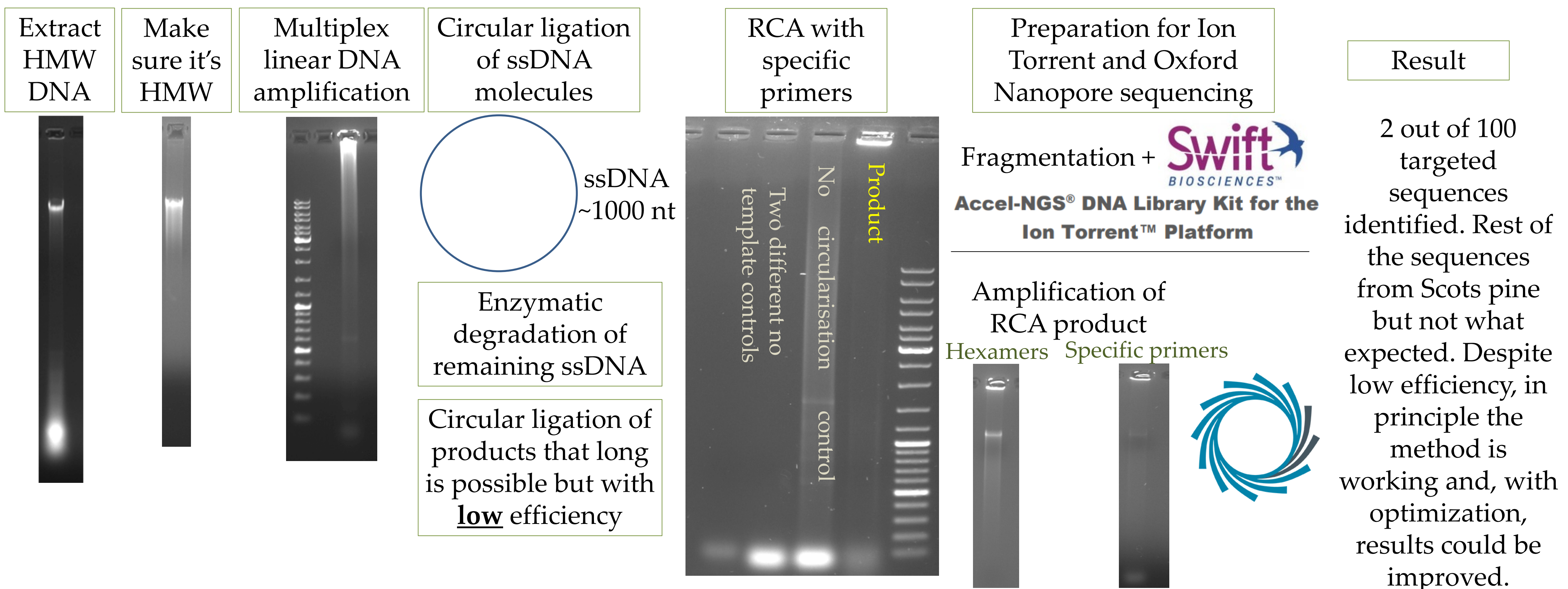


Changes in transcriptome in response to inoculation with *Heterobasidion annosum* identified

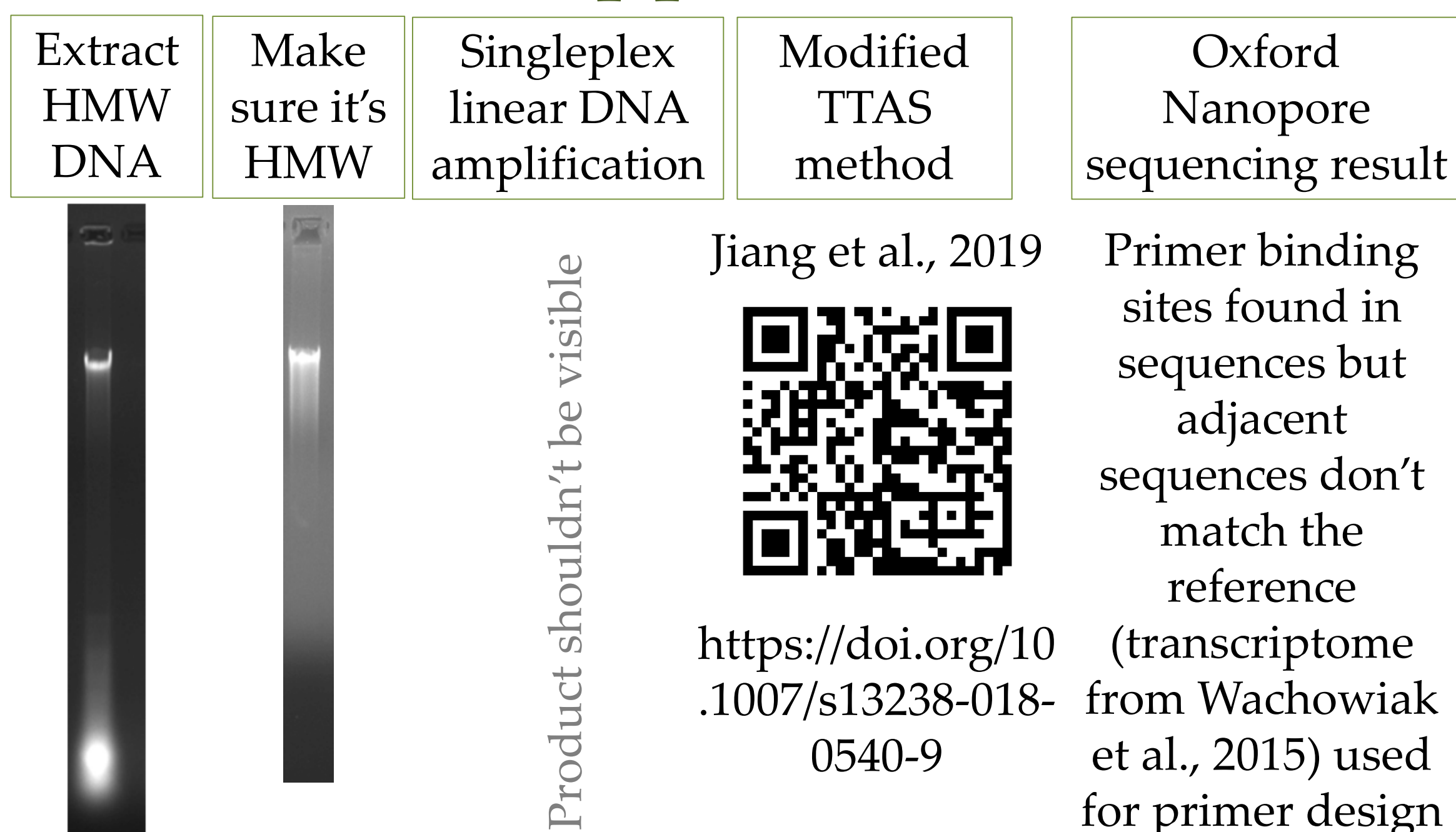
How are these genes regulated? What are the structures of their promoter regions?

Problem: no reference genome, limited possibilities for primer design to clarify 5' flanking regions

Workflow, approach I



Workflow, approach II



Whole genome sequencing and initial findings

To clarify the reasons for lack of success with the modified TTAS method, we chose to perform low coverage WGS of *P. sylvestris*.

A subset of the data has been analysed and we managed to find several of our target sequences. The identified target sequences didn't show SNPs in the primer binding sites, nor large abbreviations from the sequences used as reference for primer design. This means that, to optimize the TTAS method (for the target sequences not identified by WGS), longer primers have to be designed.

Analysis of the full WGS dataset will reveal whether WGS is a better option compared to TTAS even for large genomes.