

94°C	1 min	} 10 cycles (touchdown)
98°C	10 sec	
60°C→55°C(-0.5°C/cycle)	15 sec	
68°C	30 sec or 1 min	
98°C	10 sec	} 25 cycles
55°C	15 sec	
68°C	30 sec or 1 min	

Text S1. Touch down PCR protocol. In the 10 cycles of touchdown step, annealing temperature decrease 0.5°C in every cycle and sift from 60°C to 55°C. For the extension steps, we used 30 sec or 1 min depends on inserted ME (*A/u* or L1), respectively.