

Table S2. Thermal conditions for *tp*TAIL-PCR*

Primary Reaction			Secondary Reaction			Tertiary Reaction		
Step	Temp °C	Time (min)	Step	Temp °C	Time (min)	Step	Temp °C	Time (min)
1	94	4:00	1	94	4:00	1	94	3:00
2	94	0:30	2	94	0:30	2	94	0:30
3	64	1:00	3	64	1:00	3	45	1:00
4	72	2:00	4	72	2:00	4	72	2:00
5	Go to step 2	5X	5	94	0:30	5	Go to step 2	20X
6	94	0:30	6	64	1:00	6	72	7:00
7	25	2:00	7	72	2:00	7	4	∞
8	72	2:00	8	94	0:30			
9	94	0:30	9	45	1:00			
10	64	1:00	10	72	2:00			
11	72	2:00	11	Go to step 2	12X			
12	94	0:30	12	72	7:00			
13	64	1:00	13	4	4:00			
14	72	2:00						
15	94	0:30						
16	44	1:00						
17	72	2:00						
18	Go to step 9	12X						
19	72	7:00						
20	4	∞						

* *tp*TAIL-PCR, targeting probe thermal asymmetric interlaced PCR.