

Table SI. Experimental conditions of quantitative PCR.

Program stage	Cycles, n	Analysis modes	Target temperature, °C	Acquisition mode	Hold, sec	Ramp rate, °C/sec
Initial denaturation	1	None	95	None	30	4.4
PCR	40	Quantification	95	None	5	4.4
			60	Single	30	2.2
Melting	1	Melting curves	95	None	5	4.4
			65	None	60	2.2
			95	Continuous (5 per °C)	None	0.11
Cooling	1	None	45	None	30	2.2