Supplementary Table 1 Measurement of melting temperatures of L/I/L2 variants by LNA real-time PCR

Sample [copies, number of samples (n)]	Target sequence*	Measured T_m (°C) at Channel						Cy5		
		FAM			Hex					
		Min	Max	Mean ± SD (Detection)	Min	Max	Mean ± SD (Detection)	Min	Max	Mean ± SD (Detection)
L + I positive control DNA mixture (4.0E+01 ~ 4.0E+08, n= 64)	AAA**CTC**AAGCAATGTT + AAA**ATC**AAGCAATGTT	59.7	63.8	**62.0 ± 0.5** (63, 98.4%)	58.8	60.9	**59.4 ± 0.5** (64, 100%)	54.6	55.8	55.1 ± 0.4 (27, 42.2%)
I + L2 positive control DNA mixture (4.0E+01 ~ 4.0E+08, n= 64)	AAA**ATC**AAGCAATGTT + AAA**CTA**AAGCAATGTT	-	-	- (0, 0%)	58.8	60.7	**59.5 ± 0.4** (63, 98.4%)	64.4	64.8	**64.6 ± 0.1** (64, 100%)
L + I' positive control DNA mixture (4.0E+01 ~ 4.0E+08, n= 64)	AAA**CTC**AAGCAATGTT + AAA**ATC**AAAACAATG	61.3	62.8	**62.0 ± 0.3** (64, 100%)	54.4	57.5	**56.7 ± 0.6** (64, 100%)	54.8	55.9	55.3 ± 0.3 (18, 52.9%)

	TT										
L' + I positive control DNA mixture (4.0E+01 ~ 4.0E+08, n= 64)	AAA**CTC**AAACAATG TT + AAA**ATC**AAACAATG TT	57.3	58.7	**57.9 ± 0.3** (64, 100%)	58.8	61.6	**59.5 ± 0.5** (64, 100%)	-	-	- (0, 0%)
L' + I' positive control DNA mixture (4.0E+01 ~ 4.0E+08, n= 64)	AAA**CTC**AAACAATG TT + AAA**ATC**AAACAATG TT	57.5	61.0	**58.1 ± 0.5** (63, 98.4%)	56.3	57.5	**56.7 ± 0.3** (64, 100%)	-	-	- (0, 0%)

T_m, melting temperature; -, no significant T_m

[a] SD, standard deviation

[b] by direct sequencing of PCR products