

Table SI. Primer sequences and PCR conditions for the detection of *Helicobacter pylori* and Epstein-Barr virus infections.

Gene	Primer name	Sequence (5'-3')	Amplicon length	Temperature (°C)	(Refs.)
glmM	P-F	AAGCTTTTAGGGGTGTTAGGGGTTT	294 bp	50	(27)
	P-R	AAGCTTACTTTCTAACACTAACGC			
cagA gene	P-F	AATACACCAACGCCTCCAAG	400 bp	60	(28)
	P-R	TTGTTGCCGCTTTTGCTCTC			
EBNA-2 OP	P-F	GCGGGTGGAGGGAAAGG	Not applicable	58	(29)
	P-R	GTCAGCCAAGGGACGCG			
EBNA-2 IP	P-F	AGGCTGCCACCCTGAGGAT	168 bp	66	
	P-R	GCCACCTGGCAGCCCTAAAG			

P-F, forward primer; P-R, reverse primer. All reference citations can be found in the reference list in the main manuscript.

Table SII. TaqMan™ MicroRNA assay ID details.

Assay name	Assay ID	Catalogue no.
hsa-miR-21	002438	4427975
hsa-miR-223	002098	4427975
hsa-miR-19	000395	4427975
U6 snRNA	001973	4427975

The assay was obtained from Applied Biosystems; Thermo Fisher Scientific, Inc.