

Table S2 - PCR and qPCR amplification protocols
- adapted from Christensen et al. 2016 and Gionfriddo et al.

Broad-range PCR (<i>hgcAB</i>)			
Step	Phase	Temp (oC)	Time
Step 1	Initiate	95	2 min
Step 2	Denature	95	30 sec
	Annealing	68 (-1oC/cycle)	30 sec
	Extension	72	30 sec
	Repeat 5X		
Step 3	Denature	95	30 sec
	Annealing	63	30 sec
	Extension	72	60 sec
	Repeat 30X		
Step 4	Final Extension	72	2 min

<i>Desulfobacterota</i>			
Clade-specific qPCR (<i>hgcA</i>)			
Step	Phase	Temp (oC)	Time
Step 1	Initiate	95	10 min
Step 2	Denature	95	15 sec
	Annealing/Extension	65	1 min
	Repeat 40X		
Step 3	Melt Curve	60-95	0.5oC /5 sec

<i>Firmicutes</i>			
Clade-specific qPCR (<i>hgcA</i>)			
Step	Phase	Temp (oC)	Time
Step 1	Initiate	95	10 min
Step 2	Denature	95	10 sec
	Annealing	47	10 sec
	Extension	58	60 sec
	Repeat 30X		
Step 3	Melt Curve	58-95	0.5oC /5 sec

<i>Archaea</i>			
Clade-specific qPCR (<i>hgcA</i>)			
Step	Phase	Temp (oC)	Time
Step 1	Initiate	95	10 min
Step 2	Denature	95	30 sec
	Annealing	50	10 sec
	Extension	55	60 sec
	Repeat 30X		
Step 3	Melt Curve	55-95	0.5oC /5 sec