

Table S10. Toxin/antitoxin pairs of *G. metallireducens* and *G. sulfurreducens*.

<b><i>G. metallireducens</i> genes</b>	<b><i>G. sulfurreducens</i> genes</b>	<b>Annotation</b>
Gmet_0678, Gmet_0677	absent	Phd-like antitoxin, ParE-like toxin
Gmet_3616, Gmet_3001	absent	HigB-like toxin C-terminal fragment, VapI-like antitoxin
Gmet_A3570, Gmet_A3569	absent	CopG-like antitoxin, RelE-like toxin
Gmet_3077, Gmet_3076	absent	Phd-like antitoxin, hypothetical nucleic acid-binding toxin
Gmet_0220, Gmet_0221	absent	Phd-like antitoxin, RelE-like toxin
Gmet_2502, Gmet_2503	absent	MazE-like antitoxin, MazF-like toxin
Gmet_2602, Gmet_2603	GSU0737, GSU0736	hypothetical antitoxin, MazF-like toxin
Gmet_2972, Gmet_2973	absent	VapI-like antitoxin, HigB-like toxin
Gmet_2592, Gmet_2591	absent	HicA-like (antitoxin?), HicB-like (toxin?)
absent	GSU0056, GSU0055	hypothetical antitoxin, ParE-like toxin
absent	GSU1353, GSU1354	Phd-like antitoxin, ParE-like toxin
absent	GSU2438, GSU2439	Phd-like antitoxin, RelE-like toxin
absent	GSU2473, GSU2472	VapB-like antitoxin, VapC-like toxin