

Table 2. Genomic inventory of ϵ -Proteobacteria

	<i>Sulfurovum</i> sp. NBC37-1	<i>Nitratiruptor</i> sp. SB155-2	<i>Helicobacter pylori</i> 26695	<i>Campylobacter jejuni</i> NCTC11168	<i>Wolinella succinogenes</i> DSM1740
Hydrogenase type	H ₂ -uptake (2 copies), H ₂ -sensing, H ₂ -evolving	H ₂ -uptake, H ₂ -sensing, H ₂ -evolving	H ₂ -uptake	H ₂ -uptake	H ₂ -uptake, H ₂ -evolving
Sulphur-compounds oxidation genes	<i>sorAB</i> (2 copies), <i>sqr</i> (2 copies), <i>soxXYZAB</i> , <i>soxCDYZH</i>	<i>sqr</i> (2 copies), <i>soxXYZAB</i> , <i>soxFLYZ</i>	-	-	-
Sensory systems					
Chemotaxis proteins (Che)	-	12 genes	6 genes	6 genes	10 genes
Methyl-accepting chemotaxis proteins (MCPs)	-	6 genes	3 genes	10 genes	31 genes
Two-component signal transduction system (TCSTs)*	16 HKs, 18 RRs	26 HKs, 36 RRs	4 HKs, 6 RRs	7 HKs, 12 RRs	39 HKs, 52 RRs
PAS-GGDEF system	23 genes	36 genes	-	3 genes	24 genes
Oxidative stress					
Superoxide dismutase	-	-	+	+	+
Catalase	+	-	+	+	-
Cytochrome <i>c</i> peroxidase	+ (4 copies)	+ (5 copies)	+	+ (2 copies)	+
Thiol peroxidase	+	+	+	+	+
Alkyl hydroperoxide reductase	+ (6 copies)	+ (5 copies)	-	+	+ (2 copies)
Heavy metal transport	22 genes (for Ni, Fe, Zn, Mn, Co, Cd, Cu, As, Mo, Hg, Ag)	17 genes (for Ni, Fe, Zn, Mn, Co, Cd, Cu, As, Mo, Hg, Ag)	8 genes (for Ni, Fe, Zn, Co, Cd, Cu, Mo, Hg)	9 genes (for Fe, Zn, Mn, Co, Cd, Mo, Hg, As)	15 genes (for Ni, Fe, Zn, Mn, Co, Cd, Cu, As, Mo)
Virulence factors					
Vacuolating cytotoxins	-	-	+	+	+
Cytolethal-distending toxin	-	-	-	+	-
Neutrophil-activating protein	+	+	+	+	+
Virulence factor MviN	+	+	+	+	+
Hemolysin	+	+	+	+	+
Fibronectin- and Fibrinogen- binding protein	+	+	+	+	+
Polysaccharide biosynthesis	+	+	+	+	+
<i>N</i> -linked glycosylation pathway	+	+	-	+	+
Invasion antigen CiaB	+	+	-	+	+
Lytic murein transglycosylase	+	+	+	+	+
Urease gene cluster	-	-	+	-	-

*Gene numbers of histidine kinase (HK) and response regulator (RR) were shown.