Figure legend: **Genes present in bin**
- cyc2 (green)
- cyc2 & dsrA (orange)
- dsrA (purple)
- Not applicable (grey)

Y-axis: Genome bin

Top panel (Chlorobiaceae group):
- L227 2013 Bin 56 (96.7/0.57/0); f__Chlorobiaceae; g__Chlorobium
- L227 2014 Bin 92 (77.45/27.64/79.73); f__Chlorobiaceae; g__Chlorobium
- L227 enrichment S−6D GSB (99.45/0.27/100); f__Chlorobiaceae; g__Chlorobium
- L304 enrichment S−6D GSB (99.45/0/100); f__Chlorobiaceae; g__Chlorobium
- L227 2013 Bin 55 (97.39/0.11/0); f__Chlorobiaceae; g__Chlorobium
- L227 2014 Bin 106 (91.14/67.16/79.37); f__Chlorobiaceae; g__Chlorobium
- L442 2011 16.5m Bin 8 (89.08/3.32/23.08); f__Chlorobiaceae; g__Chlorobium
- L442 Bin 64 (90.11/0/0); f__Chlorobiaceae; g__Chlorobium

Middle panel:
- L442 Bin 2 (85.93/0/0); f__Burkholderiaceae; g__Rhodoferax
- L442 Bin 70 (93.81/0.56/0); f__Gallionellaceae; g__Gallionella
- L227 2013 8m Bin 1 (95.74/1.61/25); f__Methylomonadaceae; g__KS41
- L442 2011 16.5m Bin 5 (89.62/1.3/25); f__Methylomonadaceae; g__KS41
- L227 2014 6m Bin 13 (93.71/1.1/20); f__Methylomonadaceae; g__UBA10906
- L442 2011 16.5m Bin 7 (87.04/2.88/50); f__Methylomonadaceae; g__UBA10906
- L442 Bin 71 (81.11/5.32/51.35); f__Methylomonadaceae; g__UBA10906
- L442 Bin 75 (94.44/3.33/0); f__Steroidobacteraceae; g__Unresolved
- L442 Bin 84 (95.04/3.27/6.67); f__Steroidobacteraceae; g__Unresolved
- L227 2014 6m Bin 6 (93.23/0.65/0); f__Desulfatirhabdiaceae; g__RAAP-1
- L227 2014 Bin 24 (93.51/0.65/0); f__Smithellaceae; g__Unresolved
- L442 Bin 63 (78.47/4.12/54.17); f__Burkholderiaceae; g__Rhodoferax
- L442 2011 16.5m Bin 6 (94.2/1.64/0); f__Rhodocyclaceae; g__Sulfuritalea

Bottom panel:
- Methanoregulaceae
- Methanotrichaceae
- Holophagaceae
- GCA−2748065
- Lentimicrobiaceae
- Paludibacteraceae
- Unresolved
- Chlorobiaceae
- Chloroflexaceae
- Desulfatirhabdiaceae
- UBA9959
- Anaeromyxobacteraceae
- SM1A02
- Azospirillaceae
- Burkholderiaceae
- Gallionellaceae
- Rhodocyclaceae
- Methylomonadaceae
- Steroidobacteraceae
- UBA1067
- Chthoniobacteraceae
- Pedosphaeraceae