



Supplementary Figure S3 Photoheterotrophic cultures (i) and TEM micrographs (ii) of G2-11 cells grown under phototrophic conditions with various carbon sources: (a) complex medium with potassium lactate and peptone (FSM); (b) minimal medium with glucose; (c) minimal medium with pyruvate; (d) minimal medium with L-glutamine; (e) minimal medium with ethanol. Black arrowheads: bacteria adherent to the glass surface; red arrowhead: a matrix encompassing cell clumps; PP: putative polyphosphates; PHB: putative polyhydroxybutyrate inclusions. Scale bars: 1  $\mu\text{m}$ .