

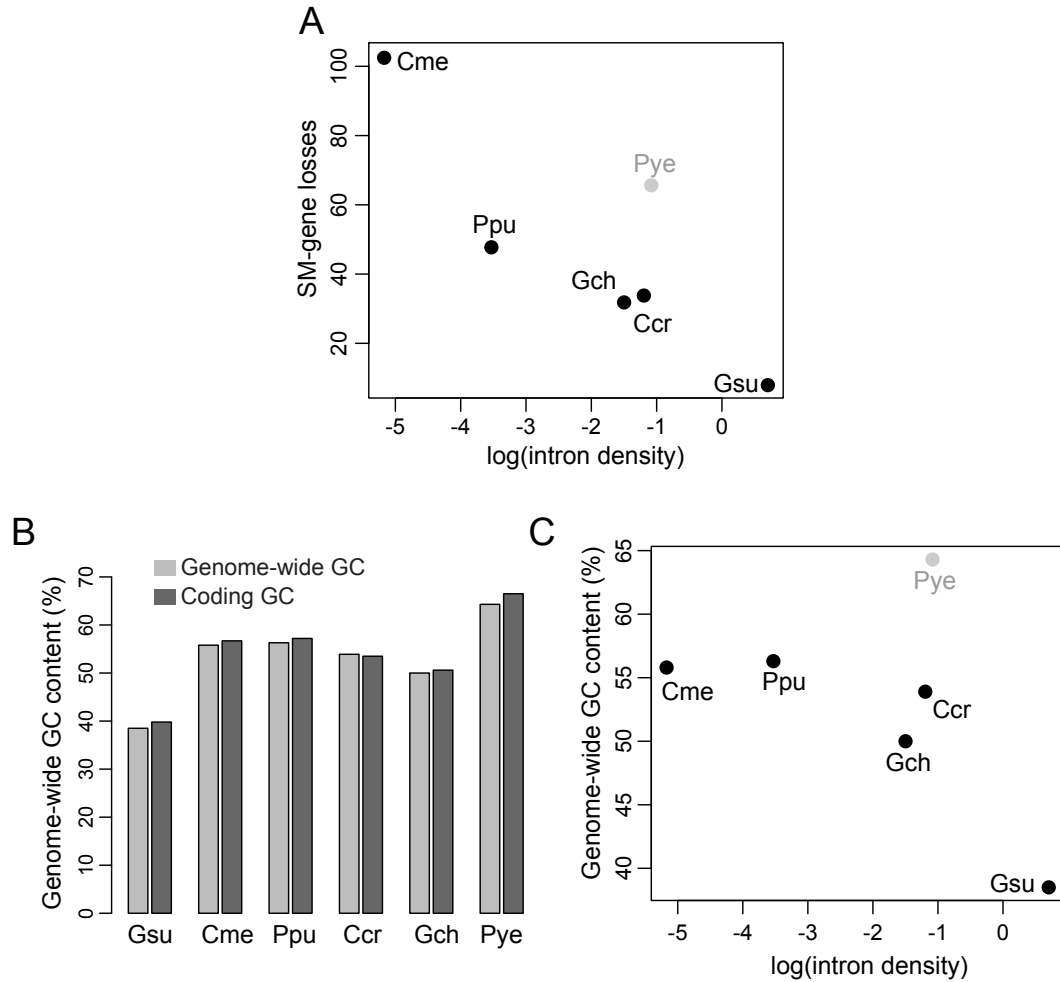


Figure S4. GC content and intron density in red algae. Only species with genome assemblies are included. (A) An obvious correlation between SM-gene losses and intron density. *Pyropia yezeonsis* (Pye, shown in grey color) has poor data completeness (see Additional file 4: Table S2) and likely has an inflated number of SM-gene losses. The correlation is apparent for the remaining five species. (B) GC contents in six red algal genome assemblies. (C) Scatter plot of GC content against intron density among the six red algal species. Abbreviation: Gsu (*Galdieria sulphuraria*), Cme (*Cyanidiochyzon merolae*), Ppu (*Porphyridium purpureum*), Ccr (*Chondrus crispus*), Gch (*Gracilariopsis chorda*), and Pye (*Pyropia yezeonsis*).