

Figure S1. Time course of relative abundance of fatty acids in response to 0.2 M NaCl. SFA, saturated fatty acids; MUFA, monounsaturated fatty acids; PUFA, polyunsaturated fatty acids.

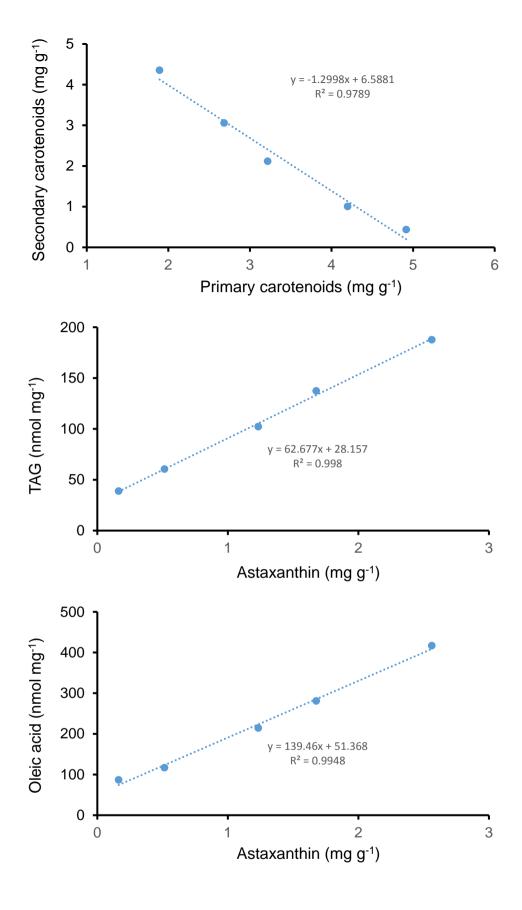


Figure S2. Correlation analysis between primary and secondary carotenoids, esterified astaxanthin and TAG, and esterified astaxanthin and oleic acid. The data were from the time-resolved experiment under 0.2 M salt concentration.

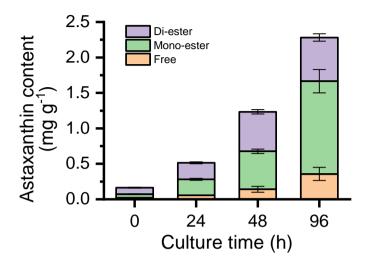


Figure S3. Time course distribution of free astaxanthin, mono-ester, and di-ester in response to 0.2 M NaCl.

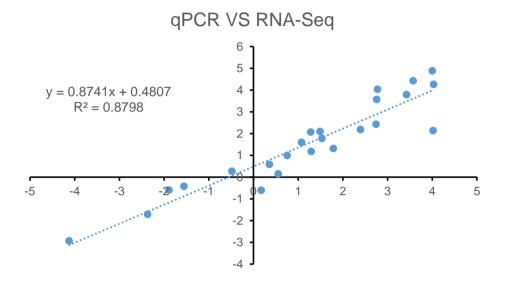


Figure S4. Consistency between RNA-seq-based and qPCR-based transcript quantification. A total of 24 genes were chosen for qPCR validation. The genes and primer sequences for qPCR are listed in Additional file 3: Table S2.

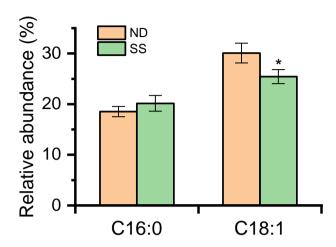


Figure S5. The relative abundance of C16:0 and C18:1 in sn-2 position of TAG from C. zofingiensis under ND and SS conditions. ND, nitrogen deprivation; SS, 0.2 M salt. Asterisk indicates the significant difference (t-test, p<0.05) between ND and SS.

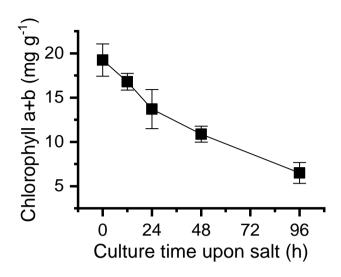


Figure S6. Time course of chlorophyll content in *C. zofingiensis* in the presence of 0.2 M salt.