

**Table S2.** RT-qPCR validations of differentially expressed genes in in *P. lima* under 1/16 P-limited condition.

Genes	qPCR		RNA-Seq	
	Forward(5'–3')	Reverse (5'–3')	log2 (fold change) (1/16P vs 1P)	log2 (fold change) (1/16P vs 1P)
<i>PsbA</i>	GCCTGTTGCTGGGTCAATTC	GCAACAGGAGCTGAAAAGGC	-2.05	-2.94
<i>PsbC</i>	TGGGCAGGGTCAATGTGTTT	CACCTCCTGAAGATACGCCC	-0.94	-3.30
<i>PetD</i>	GCGAGCCTTCAGGTATTGGT	AAGAGAGCAACCTCCAAGCC	-3.18	-3.59
<i>MCAT</i>	GCTACCCCAGACCTTTGCAT	CGTGCAAGCGATGATCAAGG	0.56	1.16
<i>ABCB1</i>	TTCTTCGCTATCCTGGGGGA	CAAGATTGGCGATGCGGAAG	1.24	1.81