Table S1. OPLS-DA model validation parameters

Group	Pre	R2X（cum）	R2Y（cum）	Q2（cum）
ZHY1 vs ZHY3	1+1+ o	0.721	1	0.985
ZHY1 vsZHY4	1+1+ o	0.87	1	0.996
ZHY1 vs ZHY6	1+1+ o	0.864	1	0.997
ZHY3 vs ZHY4	1+1+ o	0.869	1	0.997
ZHY3 vs ZHY6	1+1+ o	0.87	1	0.997
ZHY4 vs ZHY6	1+1+ o	0.795	1	0.991

Table S2. *P. Companulata* RNA sequencing results

Sample	Reads No.	Clean Reads No.	Clean Data	Q20（%）	Q30（%）
ZHY1-1	50,828,880	49,996,870	7,510,799,213	97.91	96.11
ZHY1-2	64,167,246	63,159,132	9,483,204,947	97.97	96.22
ZHY1-3	52,052,000	51,181,178	7,693,906,932	97.91	96.10
ZHY3-1	51,934,696	51,130,630	7,681,594,075	97.96	96.20
ZHY3-2	55,054,540	54,218,382	8,158,430,300	97.97	96.24
ZHY3-3	51,381,220	50,585,780	7,603,365,675	97.93	96.12
ZHY4-1	43,700,702	42,858,874	6,443,871,102	97.61	95.52
ZHY4-2	37,100,922	36,458,942	5,486,164,729	97.87	95.97
ZHY4-3	42,616,148	41,816,328	6,283,446,333	97.81	95.89
ZHY6-1	35,877,110	35,214,868	5,291,599,515	97.79	95.84
ZHY6-2	42,403,320	41,647,170	6,264,997,670	97.87	95.98
ZHY6-3	45,970,054	45,180,052	6,789,508,552	97.87	96.00

Table S3. *P. Companulata* Unigene annotation results

Database	Unigene number	Percent
Total	44,323	100
NR	28,442	64.17
GO	17,393	39.24
KEGG	11,089	25.02
Pfam	14,735	33.24
eggNOG	26,502	59.79
Swissport	20,253	45.69
In all database	5,260	11.87

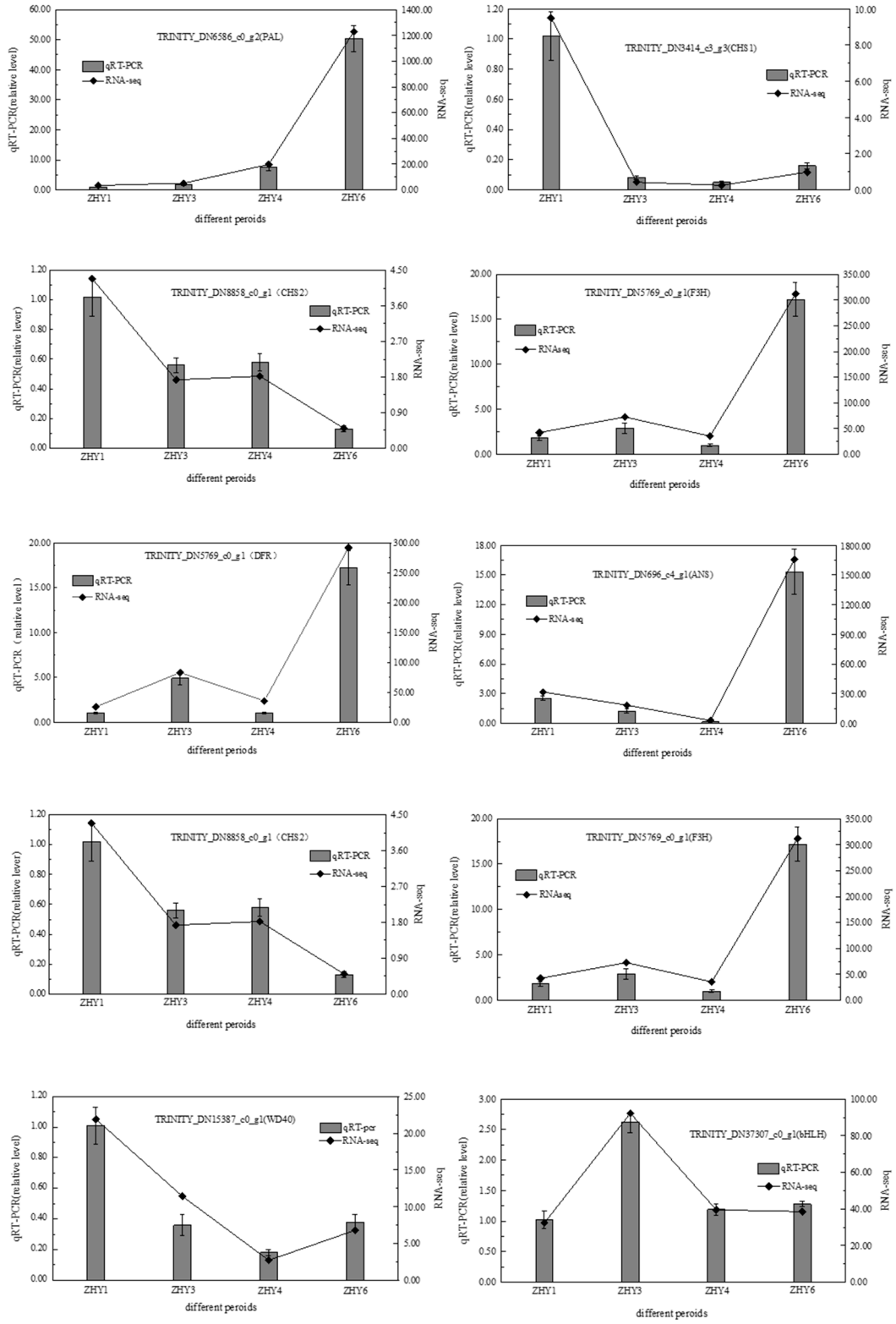


Figure S1. Transcriptome data validation results of *P. Companulata* .