

Figure S1 The cluster heat map of differentially expressed genes in zein peptides group.

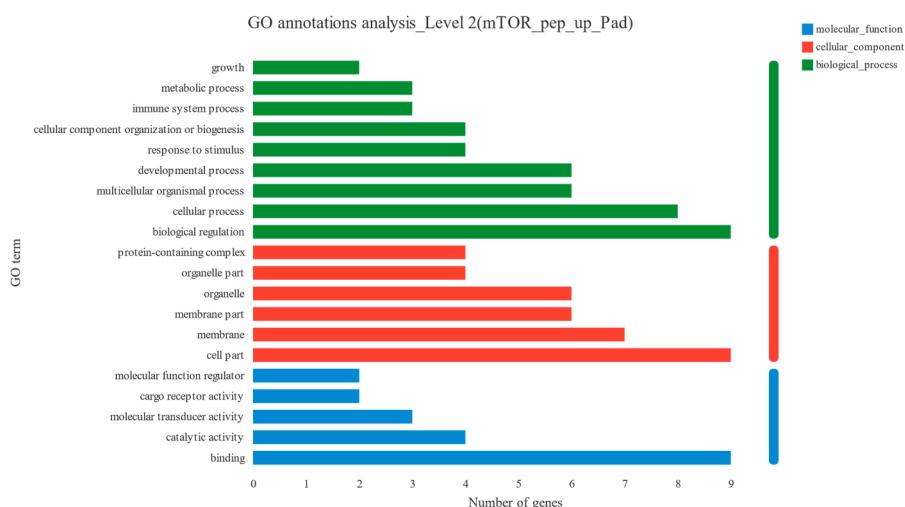


Figure S2A GO annotations of up-regulated genes in zein peptides group.

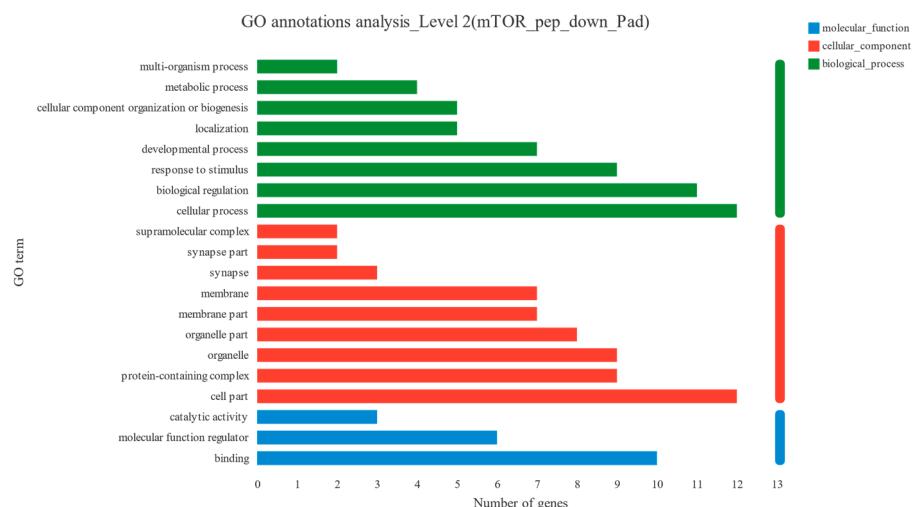


Figure S2B GO annotations of up-regulated genes in zein peptides group.

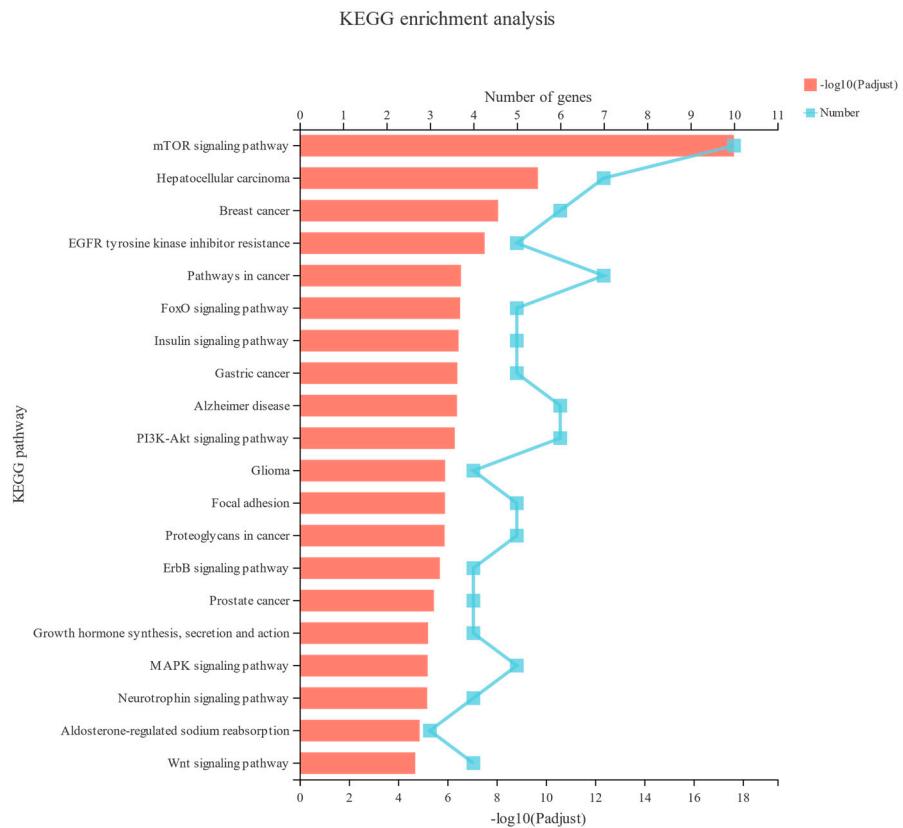


Figure S3A The functionally enriched KEGG pathways based on the up-regulated genes.

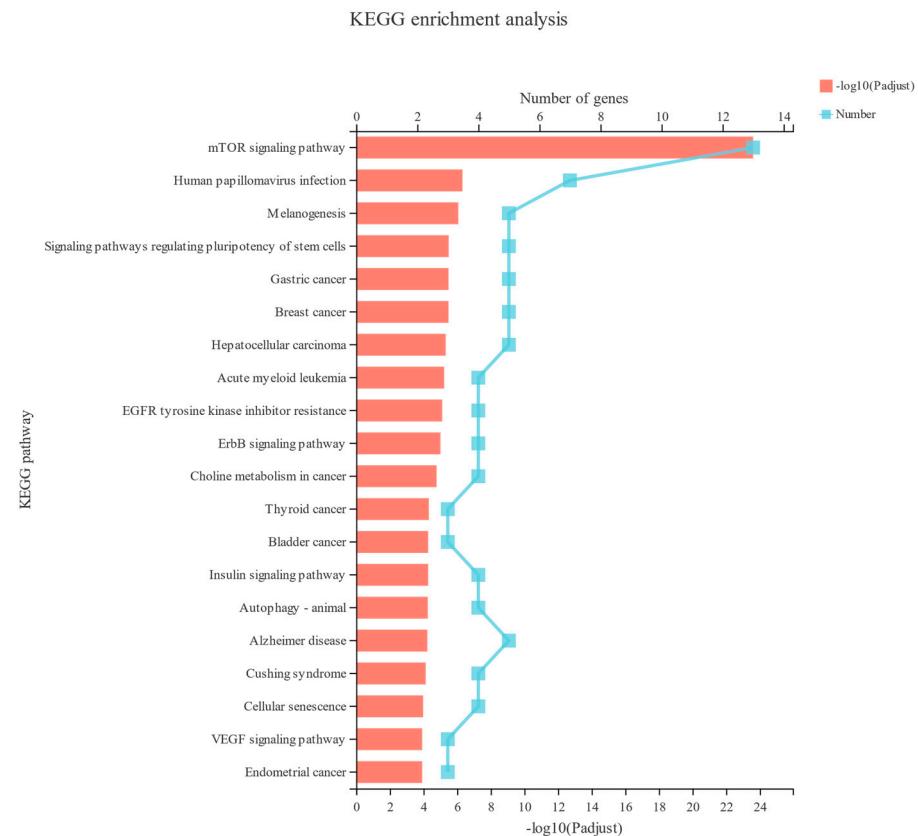


Figure S3B The functionally enriched KEGG pathways based on the down-regulated genes.

Table S1. The representative zein peptide sequences identified by LC-MS/MS

Peptides sequence	Intensity	Precursor protein
LLPPYLPS	2.06E+11	z1B alpha zein protein
SNIPLSPL	1.67E+11	z1A alpha zein protein
FLPPVTS	1.48E+11	z1C alpha zein protein
SLLPPYLPS	1.44E+11	z1B alpha zein protein
SLLPPYLSPA	1.33E+11	Z1A alpha zein protein
ENPILQPY	8.45E+10	Z1A alpha zein protein
LLPPYLSPA	5.58E+10	Z1A alpha zein protein
YQQPIIIGGA	4.69E+10	prolamin 19 kDa alpha zein z1A1_5 precursor
ENPALQPY	3.87E+10	prolamin 19 kDa alpha zein z1B_6 precursor
GFEHPAVQ	3.57E+10	z1C alpha zein protein
RQQLLNPL	3.11E+10	22 kDa alpha-zein 14 precursor
RFEYPTIQ	2.16E+10	z1D alpha zein protein
YQQPIIIGG	1.67E+10	prolamin 19 kDa alpha zein z1A2_1 precursor
QRQQLLNPL	1.66E+10	22 kD alpha-zein
LLPPYLSP	1.49E+10	Z1A alpha zein protein
AAPNAGTLL	1.43E+10	prolamin 19 kDa alpha zein z1A1_7 precursor
LPPYLSPA	1.41E+10	Z1A alpha zein protein
QLLPFYQPQ	1.04E+10	z1D alpha zein protein
ENPIVQPY	9.87E+09	prolamin 19 kDa alpha zein z1A2_2 precursor
FLRPVTS	5.33E+09	22-kDa alpha zein 8

Note: The bold front indicates BCAA.