

Supplementary data to this article:

Additional file 1:

Figure S1. Sample correlation heat map.

Additional file 2:

Table S1. Data filtering statistics

Additional file 3:

Figure 2S. Bubble plot of the KEGG pathway enrichment of DEGs. The top 20 with the lowest Q value of enriched pathways for comparisons: A: CK-32 vs. T-6h, B: CK-32 vs. T-24h, C: CK-32 vs. T-3d, D: CK-32 vs. T-5d. Bubble color and size correspond to the Q value and gene number enriched in the pathway. The rich factor indicates the ratio of the number of DEGs mapped to a certain pathway to the total number of genes mapped to this pathway.

Additional file4:

Table S2 Related genes and pathways in plant-pathogen interaction

Table S1. Data filtering statistics

Samples	RawData (bp)	CleanData(%)	Q30	Total	TotalMapped(%) /Sweetpotato	TotalMap ped(%) /Fusarium solani
CK-32-1	64427836	64368904 (99.91%)	9073817079 (93.89%)	63216130	48523437 (76.76%)	
CK-32-2	67448358	67381806 (99.90%)	9574163424 (94.63%)	64493084	49919241 (77.40%)	
CK-32-3	75132248	75007404 (99.83%)	10455804188 (92.78%)	73695904	56561942 (76.75%)	
T-6h-1	72722906	72613742 (99.85%)	10238442215 (93.86%)	65060974	8043131 (12.36%)	57.21%
T-6h-2	64040800	63977486 (99.90%)	9054305795 (94.26%)	40119272	4785461 (11.93%)	56.57%
T-6h-3	73692006	73594512 (99.87%)	10056287813 (90.98%)	60484944	7615932 (12.59%)	57.42%
T-24h-1	82486622	82358066 (99.84%)	11573702850 (93.54%)	72035904	7532664 (10.46%)	0.58%
T-24h-2	75839274	75754808 (99.89%)	10707651954 (94.13%)	66444752	8941094 (13.46%)	0.58%
T-24h-3	70264758	70146802 (99.83%)	9860246945 (93.55%)	62022092	6785886 (10.94%)	4.58%
T-3d-1	75006824	74896992 (99.85%)	10475824775 (93.11%)	74243204	57016513 (76.80%)	0.59%
T-3d-2	71971622	71857110 (99.84%)	10000613841 (92.63%)	70796204	54208631 (76.57%)	1.68%
T-3d-3	68745452	68459012 (99.58%)	9636337809 (93.45%)	67674158	48180955 (71.20%)	0.45%
T-5d-1	76647188	76552916 (99.88%)	10687484001 (92.96%)	75670110	58190196 (76.90%)	57.21%
T-5d-2	78803984	78723616 (99.90%)	11123411184 (94.10%)	77046624	58378032 (75.77%)	56.57%
T-5d-3	66434978	66334630 (99.85%)	9217749586 (92.50%)	65710952	49970730 (76.05%)	57.42%

Table S2. Related genes and pathways in plant-pathogen interaction

pathway/ describe (K_id)	comparisons	Differentially genes/down	expressed	Differentially genes/up	expressed
Fungal PAMP/CPK; calcium-dependent protein kinase (K13412)	CK-32 vs. T-6h	G1629, G25763, G27922, G27924, G29161, G3795, G4098, G4116, G44256, G47022		G23385, G23394, G26201, G26202, G26207, G33768, G42600, G44834	
	CK-32 vs. T-24h	G1629, G4112, G3795, G4098, G3406, G4116, G47022, G25763 G3795, G1629, G27922, G27924, G48602, G40200, G4112, G7779, G4116, G27539, G4098, G3271, G3406, G25763, G47022,		G26207, G44834, G33768, G23385, G42600, G26202	
	CK-32 vs. T-3d	G3795, G27922, G27924, G1629, G40200, G4112, G4098, G4116, G25763,		G26292, G44834, G26201, G26202, G26207, G23385, G23394, G33768, G42600	
	CK-32 vs. T-5d	G3795, G27922, G27924, G1629, G40200, G4112, G4098, G4116, G25763,		G26207, G33768, G42600, G23385	
Fungal PAMP/Rboh; respiratory burst oxidase (K13447)	CK-32 vs. T-6h	G41782, G46408, G46406, G22301, G22322,		G225, G3921, G3924, G4567, G47639, G47642, MSTRG.314	
	CK-32 vs. T-24h	G46408, G22301, G41782, G46406, G22322,		G47642, G3924, G4567, G225, MSTRG.314, G3921, G47639	
	CK-32 vs. T-3d	G41782, G22301, G46406, G22322, G46408, G39844		G3924, G47642, G4567, G225, G47639	
	CK-32 vs. T-5d	G41782, G22301, G22322, G46408, G46406		G225, G3921, G3924, G4567, G47642, MSTRG.314	
Ca ²⁺ /CNGC; cyclic nucleotide gated channel, plant (K05391)	CK-32 vs. T-6h	G28419, G28433, G5820, G36125, G23262, G36119, G42426		G13410, G10205, G7849, G7852	
	CK-32 vs. T-24h	G28419, G23262		G13410, G10205, G7852	
	CK-32 vs. T-3d	G28419, G23251, G23262, G5820, G42426		G7512, G7849, G7852	

	CK-32 vs. T-5d	G5820, G5818	G28649
	CK-32 vs. T-6h	G36840, G34063, G33741	G34963, G34971, G35048, G35077
Ca ²⁺ /CALM; calmodulin (K02183)	CK-32 vs. T-24h	G34063, G33741	G34963, G34971, G35077, G35048, G5856
	CK-32 vs. T-3d	G36840, G34063, G33741, G35044	G35077, G34971, G35048
	CK-32 vs. T-5d	G36840, G34063, G33741	G34971, G35048, G35077, G16427
	CK-32 vs. T-6h	G5032, G42522, G5074, G19413, G8847, G24929, G26358, G26360, G22517	G25638, G25967, G25986, G6338
Ca ²⁺ /calcium-binding protein CML (K13448)	CK-32 vs. T-24h	G20662, G19413, G5074, G24929, G26358,	G25967, G25986, G6338
	CK-32 vs. T-3d	G5074, G19413, G5032, G24929, G42522, G8847, G25638, G25639, G26358, G1536, G3444, G6128	-
	CK-32 vs. T-5d	G5032, G20662, G5074, G19413, G8847, G24929, G26358, G3444, G25639, G42522	-
	CK-32 vs. T-6h	G6611, G6636, G6639	-
Ca ²⁺ /NOA1; nitric-oxide synthase, plant (K13427)	CK-32 vs. T-24h	G6611, G6639	-
	CK-32 vs. T-3d	G6611, G6636, G6639, G6695	-
	CK-32 vs. T-5d	G6611, G6636, G6639	-
