



Supplementary Figure S1. The changes of exogenous Eth concentration during two weeks of storage.

Supplementary Table S1. Primers of the 10 genes in Aux signal transduction pathway and one internal control gene in potato.

Gene ID		Primer Sequence (5'-3')
<i>PGSC0003DMG400008504</i>	F	TTCGTCGTTGGATTGTTGGTTCGG
	R	ACACACCACATGTAAGGGAAGTATTGC
<i>PGSC0003DMG400027712</i>	F	AGGTAGAGGTAAGGTCTGCGTACAC
	R	CCTTGCTCTTTCAATAATGCGTCTGTC
<i>PGSC0003DMG400006108</i>	F	TGTCTGGTTTGAGTCGTGAAAGTAGTC
	R	TTTCTTAGATAAGGGGCACCATCCATG
<i>PGSC0003DMG400003771</i>	F	CTGGATGTGGAGACAAGCAGAATAGAG
	R	AACACCGCATTGAAGACCAGTAAGG
<i>PGSC0003DMG400012261</i>	F	AAGATTCTGCGTGGCGATCCTTG
	R	GCACTTCTACTGTCTTCTGTCTCATCC
<i>PGSC0003DMG400025856</i>	F	ACAACAACCTTCCTCACCTACCAATCTC
	R	GCATTCTCTACGGCTCTCTGTAATC
<i>PGSC0003DMG400024997</i>	F	CCAACAACAGAGGAAGAGAACAGGAG
	R	AAGAATCGCATAGCACGGATGAAGG
<i>PGSC0003DMG400025017</i>	F	TGAGTTCGCACCAATTCACAGAGAC
	R	CTTCATCAGTCTTGTCGGAATCAATGC
<i>PGSC0003DMG400003773</i>	F	AGTAAGTTCCGTCGATGAAGAAAGTGG
	R	GCATACCCCTCTCCAGATAATTTCCAG
<i>PGSC0003DMG400001655</i>	F	TGATTATTGGAGATGTCGCCTGAGATC
	R	TCATCGCAAGGTATAGCCAAAGTTCC
<i>Actin</i>	F	GCTTCCCGATGGTCAAGTCA
(internal control gene)	R	GGATTCCAGCTGCTTCCATTC

Supplementary Table S2. FPKM values of 10 DEGs associated with Aux signal transduction pathway.

Description			Gene ID					FPKM value				
								CK	CK_1W	CK_2W	Eth_1W	Eth_2W
<i>AUX1</i>	1	PGSC0003DMG400008504						11.73571	46.12852	53.19666	52.89404	35.75633
<i>TIR1</i>	2	PGSC0003DMG400027712						5.12701	1.97748	1.97273	2.85156	2.55556
<i>AUX/IAA</i>	3	PGSC0003DMG400006108						9.76968	87.04576	98.60684	16.64124	17.48229
<i>ARF</i>	4	PGSC0003DMG400003771						3.34439	9.27224	6.14314	3.77786	5.71589
	5	PGSC0003DMG400012261						1.28610	2.37183	1.57004	0.96628	0.46133
<i>GH3</i>	6	PGSC0003DMG400025856						1.15802	6.85351	10.49143	0.77127	1.11731
	7	PGSC0003DMG400024997						9.73351	22.96470	27.06788	17.25527	11.56372
	8	PGSC0003DMG400025017						11.58659	7.18616	3.57993	9.36756	4.35974
<i>SAUR</i>	9	PGSC0003DMG400003773						0.02565	18.22731	12.66047	0.53062	0.38010
	10	PGSC0003DMG400001655						0.49953	6.48770	5.77096	4.46177	3.97520