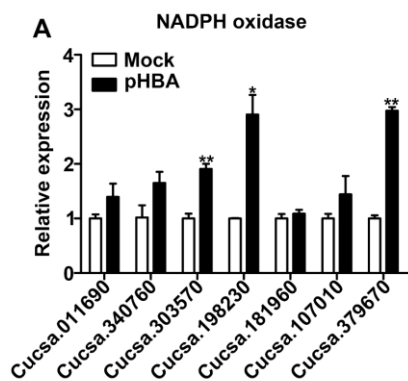


Appendix A Primer sequences used in this study.

	Gene ID	Primer sequence (5'-3')	Product size (bp)
internal control	α -Tubulin AJ715498	F: ACGTGTGGTGGTGGTAC	106
		R: GAGAGGGGTAAACAGTGAATC	
<i>CYCLIN</i>	CDKB1;2(Cucsa.336420)	F: GACCTTCTCTCGAAAATGCTTC R: CTCTCTTTCAGAAAACCACACG	201
	CYCB1;1(Cucsa.358520)	F: AGATACTGGGAAGTTGGAGTG R: ATGCATTATTCCAAGTTCAGCC	140
	CYCB2;4(Cucsa.272100)	F: TGAGAACAATCCTGGAGTGATC R: GCTGCAACATTCCATTAATGC	138
<i>POD</i>	Cucsa.217820	F: AACAACTGCCTGGATTTACAG R: ATTGTGTTGTGCCTATTGTGTG	121
	Cucsa.153470	F: GATCGTGCCAAATGTTCTCAG R: GAATTGATGTTGGGAAGTGCAT	184
	Cucsa.043200	F: GGATCCAACAATAACATTCCCG R: ACAAGATCAACAATGTCAAGCC	92
	Cucsa.326110	F: GATTCTGTCTTCTCCTAGGAG R: GTTGGCTAAGACTTGAAGTTGG	124
	Cucsa.000240	F: TTGTGATGGATCGGTCTTGTTA R: CAACGGCTAAAATATCAGCACA	170
	Cucsa.000280	F: AACGAATGGAGGAGATGACAAT R: CGCTGTAAAGTCAACCAATGA	164
	Cucsa.284220	F: TCTGTGGTTTGTGTTGTGAG R: AACAGCACACTCCATTTCTTTC	128
	Cucsa.241630	F: AAACAATCTTGCTATTGGTCGG R: TCTCACACCTTTTAAAGCAACG	184
	<i>CAT</i>	Cucsa.272120	F: CAAGATTACAGGCACATGGATG R: CAACAAAGTCTTGACTCCACAG
Cucsa.272100		F: TGAGAACAATCCTGGAGTGATC R: GCTGCAACATTCCATTAATGC	138
<i>MT</i>	Cucsa.175430	F: AATTCTCACATTTTCGGTGGTG R: GGACACGCAAATACGCATTTAA	106
<i>SOD</i>	Cucsa.003430	F: GTGAAGGTACAAGTCTTGACA R: CTTTACAGGCATCATAACGTGG	119
	Cucsa.133590	F: GATGATGAGAATCGTCACGTTG R: GCATGGACAACAATAGACCTTC	140
	Cucsa.111930	F: TTAGTTGGAAAACCTTGCG R: TGATGAAGCTGCATAATTTCCG	208
	Cucsa.289160	F: TACGGTAATGTTTCTGGTCTC R: CTTACCAACGATAATGTTCCC	182
	Cucsa.163650	F: TCCTCCATGATGTTGTAGTGAC R: TAACCACAACCAAGTCGTCTAA	139
	Cucsa.320250	F: AACAAATTACAGGGTGTGACG	98

		R: GTCATTATCTTCACAGCGTTG	
	Cucsa.093910	F: GAAAAAGGACGAAGATAGCGAC	208
		R: TCACTTACACCCATTGACTCA	
<i>NADPH oxidase</i>	Cucsa.011690	F: CATTTACACTTGCTACTCGTCG	209
		R: GTAATACTCTGATCTGCAGGCT	
	Cucsa.340760	F: GCGTAACATTACTGGTGATTCC	132
		R: ATTCTTCCATCAGCATCCGTAT	
	Cucsa.303570	F: GCTATTGTAGTTGGCGTCATTC	150
		R: CCATCCCTTAACCAAGTCTAGG	
	Cucsa.198230	F: CCACGATTCATTTCAAGAGTCC	94
		R: GATGATCAACCACAATGCTACC	
	Cucsa.181960	F: TGCTGAAGAATATGCTGCTCTA	230
		R: CAACAAAGTAGTGGAGTGAACG	
	Cucsa.107010	F: ATCGGACGATATTACACAGCTT	210
		R: GATCTAGAAGTCGAAGGGAAG	
	Cucsa.379670	F: GTGCAATCTCCCATCAACTTTT	183
		R: CACCACTCGTATTCAAGCTTC	



Appendix B Relative expression of *NADPH oxidase* in root tips of 5-day-old cucumber which grown on mock medium and medium supplemented with 0.5 mM pHBA.

Appendix C Effects of *p*-Hydroxybenzoic acid (pHBA) on the root growth of different

Accession No.	Accession No. (core germplasm)	Mock (root length/cm)	pHBA (root length/cm)	pHBA/Mock
HX29	CG3010	2.40	2.64	1.10
HX7	CG6542	6.16	4.91	0.80
HX78	CG9187	5.38	3.95	0.73
HX82	CG9198	5.62	4.07	0.72
HX42	CG6525	4.92	3.53	0.72
HX25	CG1601	5.55	3.99	0.72
HX110	CG5234	5.80	4.10	0.71
HX36	CG5420	7.87	5.45	0.69
HX34	CG5167	6.30	4.33	0.69
HX30	CG3011	6.98	4.72	0.68
HX76	CG9178	9.56	6.24	0.65
HX41	CG6515	6.91	4.49	0.65
HX14	CG7744	8.04	5.03	0.63
HX8	CG6600	7.75	4.80	0.62
HX23	CG8198	7.94	4.82	0.61
HX93	CG1149	7.74	4.62	0.60
HX59	CG4354	9.21	5.34	0.58
HX109	CG5232	9.76	5.55	0.57
HX27	CG1876	6.23	3.50	0.56
HX11	CG7086	8.61	4.62	0.54
HX102	CG1811	7.00	3.73	0.53
HX21	CG8160	10.40	5.49	0.53
HX3	CG3076	7.48	3.93	0.53
HX72	CG9165	6.56	3.40	0.52
HX73	CG9167	5.52	2.83	0.51
HX43	CG6562	13.91	7.08	0.51
HX117	CG8099	9.05	4.80	0.53
HX65	CG9142	8.83	4.79	0.54
HX66	CG9143	6.59	3.13	0.47
HX53	CG4356	13.80	6.50	0.47
HX99	CG1373	7.71	3.60	0.47
HX1	CG5539	6.30	2.90	0.46
HX24	CG1600	9.18	4.20	0.46
HX62	CG4353	9.29	4.25	0.46
HX92	CG8916	11.13	4.90	0.44
HX63	CG6647	8.00	3.52	0.44
HX120	CG1247	10.51	4.57	0.43
HX81	CG9197	8.45	3.65	0.43
ZN16		9.27	3.58	0.39
HX91	CG1083	9.63	4.07	0.42
HX92	CG8916	11.83	4.77	0.40
HX12	CG7702	10.69	4.01	0.38
HX13	CG7704	7.97	3.00	0.38
HX22	CG8186	13.30	4.93	0.37
HX45	CG6586	10.06	3.66	0.36
HX20	CG8163	11.93	4.15	0.35
HX107	CG4210	8.95	2.98	0.33
HX2	CG8191	8.38	1.56	0.19