



Figure S1: *CsSAUR31* levels in the control (Col), empty vector(pCXSN) and *CsSAUR31*-overexpressing (S) plants were screened by RT-qPCR. (** $p < 0.01$ by Student's t-test)

Table S1. Sequences of the oligo nucleotides used in this study

Oligo name	Oligo sequence (5'→ 3')	Description	Gene ID
CsSAUR31-F	TTTGAGGTTGCCGTGTGAAG	RT-qPCR analysis	CsaV3_3G04730 0.1
CsSAUR31-R	GCACATTGGACTCTGTGGAC		
PCXSN-1250-F	ATGGATTCAAATGCAAAGAAGTCC	<i>CsSAUR31</i> overexpression detection	
PCXSN-1250-R	CTATCTGCACATTGGACTCTGTGG		

Table S2. Information of 62 *SAUR* genes, including the accession number, location (in which chromosome), length, molecular mass and pI

Gene name	Accession number	Chromosome	Length (a.a.)	Molecular weight (kDa)	pI	Instability Index	Grand Average of Hydropathicity
<i>CsSAUR1</i>	CsaV3_1G009830.1	1	158	17199.65	8.67	42.07	-0.304

CsSAUR2	CsaV3_1G013410.1	1	143	16173.61	6.91	40.69	-0.464
CsSAUR3	CsaV3_2G015370.1	2	153	17254.82	9.66	67.52	-0.409
CsSAUR4	CsaV3_2G015380.1	2	103	11617.36	6.4	61.59	-0.284
CsSAUR5	CsaV3_2G015400.1	2	97	10959.63	8.69	21.94	-0.17
CsSAUR6	CsaV3_2G015410.1	2	97	10937.86	9.58	39.83	-0.003
CsSAUR7	CsaV3_2G015420.1	2	95	10598.18	7.77	29.35	-0.007
CsSAUR8	CsaV3_2G015430.1	2	95	10616.14	7.87	59.19	-0.168
CsSAUR9	CsaV3_2G015450.1	2	95	10904.59	9.43	48.53	-0.266
CsSAUR10	CsaV3_2G015460.1	2	97	10939.7	9.14	54.31	-0.112
CsSAUR11	CsaV3_2G015480.1	2	97	10716.42	9.25	63.88	-0.074
CsSAUR12	CsaV3_2G015490.1	2	97	10859.66	9.03	46.44	-0.138
CsSAUR13	CsaV3_2G015500.1	2	132	14787.96	9.3	55.71	-0.124
CsSAUR14	CsaV3_2G015510.1	2	97	10939.66	8.89	42.31	-0.134
CsSAUR15	CsaV3_2G015520.1	2	97	10897.68	9.39	51.55	-0.099
CsSAUR16	CsaV3_2G015530.1	2	97	10884.73	9.03	44.59	-0.085
CsSAUR17	CsaV3_2G015540.1	2	97	10983.78	8.85	40.95	-0.057
CsSAUR18	CsaV3_2G015550.1	2	97	11127.07	9.37	43.93	-0.032
CsSAUR19	CsaV3_2G015560.1	2	97	10838.66	9.62	51.49	-0.021
CsSAUR20	CsaV3_2G015570.1	2	97	10886.78	8.79	45.01	0.054
CsSAUR21	CsaV3_2G015580.1	2	92	10518.37	9.51	43.77	-0.116
CsSAUR22	CsaV3_2G015590.1	2	205	23406.58	9.33	50.84	-0.061
CsSAUR23	CsaV3_2G015600.1	2	97	10957.82	9.44	61.32	-0.079
CsSAUR24	CsaV3_2G015610.1	2	97	11034.93	9.69	52.49	-0.086
CsSAUR25	CsaV3_2G029400.1	2	115	13047.06	9.15	58.24	-0.309
CsSAUR26	CsaV3_3G003060.1	3	153	17745.7	10.38	33.62	-0.436
CsSAUR27	CsaV3_3G007730.1	3	109	12881.54	8.96	62.43	-0.962
CsSAUR28	CsaV3_3G030900.1	3	101	11334.93	6.02	48.94	-0.091
CsSAUR29	CsaV3_3G045710.1	3	200	22858.37	9.58	73.52	-0.374
CsSAUR30	CsaV3_3G045730.1	3	100	11587.62	10.29	66.57	-0.389
CsSAUR31	CsaV3_3G047300.1	3	141	15548.04	9.57	41.64	-0.32
CsSAUR32	CsaV3_4G031250.1	4	113	13701.69	8.54	65.14	-0.864
CsSAUR33	CsaV3_4G031860.1	4	150	17398.53	4.85	58.2	-0.649
CsSAUR34	CsaV3_5G000180.1	5	121	14261.21	7.05	34.71	-0.464
CsSAUR35	CsaV3_5G027650.1	5	167	18882.37	5.45	52.28	-0.585
CsSAUR36	CsaV3_6G001030.1	6	176	20852.25	10.28	59.76	-0.557
CsSAUR37	CsaV3_6G007970.1	6	746	86253.06	6.4	49.54	-0.498
CsSAUR38	CsaV3_6G008790.1	6	159	18513.11	9.54	47.57	-0.784
CsSAUR39	CsaV3_6G013600.1	6	159	18108.83	9.63	58.09	-0.306
CsSAUR40	CsaV3_6G014200.1	6	154	17186.25	4.77	58	-0.505
CsSAUR41	CsaV3_6G036570.1	6	162	18887.15	8.96	42.77	-0.291
CsSAUR42	CsaV3_6G039880.1	6	143	16650.2	5.34	56.41	-0.212
CsSAUR43	CsaV3_6G040760.1	6	340	17175.71	6.91	45.47	-0.227

CsSAUR44	CsaV3_6G047000.1	6	385	12193.05	8.93	57.42	-0.301
CsSAUR45	CsaV3_7G000560.1	7	374	17111.59	10.04	80.53	-0.399
CsSAUR46	CsaV3_7G000570.1	7	486	10289.99	8.8	54.22	-0.266
CsSAUR47	CsaV3_7G000580.1	7	352	9473.87	7.83	43.71	-0.248
CsSAUR48	CsaV3_7G000590.1	7	212	10663.13	6.71	59.9	-0.148
CsSAUR49	CsaV3_7G000600.1	7	274	11224.57	5.04	58.63	-0.532
CsSAUR50	CsaV3_7G000620.1	7	239	12799.42	5.73	54.01	-0.413
CsSAUR51	CsaV3_7G000630.1	7	213	10943.42	6.72	55.57	-0.305
CsSAUR52	CsaV3_7G000650.1	7	299	11158.69	6.06	52.5	-0.225
CsSAUR53	CsaV3_7G000660.1	7	262	10194.93	8.91	44.69	-0.043
CsSAUR54	CsaV3_7G000680.1	7	140	18438.28	9.04	37.57	-0.23
CsSAUR55	CsaV3_7G000690.1	7	196	79309.37	4.86	44.78	-0.778
CsSAUR56	CsaV3_7G000700.1	7	461	19409.84	9.36	51.58	-0.024
CsSAUR57	CsaV3_7G000710.1	7	295	11306	7.81	23.48	-0.068
CsSAUR58	CsaV3_7G000720.1	7	327	12819.65	6.8349	39.54	-0.281
CsSAUR59	CsaV3_7G001480.1	7	168	17460.54	9.7743	60.99	0.013
CsSAUR60	CsaV3_7G022810.1	7	153	14460.62	9.4923	87.94	-0.192
CsSAUR61	CsaV3_7G033620.1	7	155	18153.91	10.2848	55.04	-0.494
CsSAUR62	CsaV3_7G034130.1	7	327	13791.74	6.8349	46.98	-0.011

Table S3. Information for some *cis*-elements

Gene name	TG A-element	AuxR-core	AUXRE	ABRE	TATC-box	P-box	GA REMOTIF	TCA-element	TGAC-motif	CGTCA-motif	GC-motif	ARE	MBS	LTR	TC-rich repeats	sum
CsSAUR1				1			1	1				1		1	1	6
CsSAUR2				1				1				1			1	4
CsSAUR3	1			1				1	1	1		1	1			7
CsSAUR4	1			1			1	1				1			1	6

CsSA UR5	1			1							1	1	1		1	6
CsSA UR6	1			1							1	1	1		1	6
CsSA UR7	1			1	1			1				1	1	1		7
CsSA UR8								1				1	1			3
CsSA UR9				1	1				1	1		1	1			6
CsSA UR10		1				1			1	1		1	1	1	1	8
CsSA UR11				1		1					1	1	1			5
CsSA UR12				1								1	1		1	4
CsSA UR13						1			1	1		1	1		1	6
CsSA UR14		1						1	1	1		1	1		1	7
CsSA UR15			1		1							1	1		1	5
CsSA UR16				1					1	1		1	1	1		6
CsSA UR17			1	1					1	1		1	1	1	1	8
CsSA UR18				1					1	1		1	1		1	6
CsSA UR19	1			1		1		1	1	1		1	1			7

CsSA UR20				1		1		1	1	1		1	1			7
CsSA UR21	1					1	1	1	1	1		1	1			8
CsSA UR22					1		1					1	1		1	5
CsSA UR23					1			1				1	1	1	1	6
CsSA UR24								1					1		1	3
CsSA UR25				1	1			1	1	1	1	1	1			8
CsSA UR26				1	1	1		1				1	1			6
CsSA UR27	1			1	1			1				1				5
CsSA UR28				1				1				1	1		1	5
CsSA UR29				1				1	1	1	1	1		1	1	8
CsSA UR30						1						1				2
CsSA UR31				1			1	1				1		1		5
CsSA UR32				1				1	1	1		1			1	6
CsSA UR33				1	1				1	1		1				5
CsSA UR34				1		1			1	1				1	1	6

CsSA UR35				1			1		1	1		1	1	1	1	8
CsSA UR36				1		1		1	1	1						5
CsSA UR37				1								1	1			3
CsSA UR38				1				1	1	1		1		1		6
CsSA UR39				1		1			1	1			1	1		6
CsSA UR40						1		1	1	1			1		1	6
CsSA UR41	1			1			1		1	1		1		1		7
CsSA UR42				1		1		1	1	1		1				6
CsSA UR43	1								1	1		1				3
CsSA UR44				1	1		1		1	1			1	1	1	8
CsSA UR45				1					1	1		1			1	5
CsSA UR46		1						1	1	1		1		1	1	7
CsSA UR47					1	1		1				1	1		1	6
CsSA UR48				1					1	1		1		1	1	6
CsSA UR49		1		1					1	1		1	1	1		7

CsSA UR50									1	1		1	1			4
CsSA UR51									1	1		1				3
CsSA UR52				1	1	1	1	1	1	1		1	1		1	1 0
CsSA UR53							1					1	1	1	1	5
CsSA UR54									1	1	1	1			1	5
CsSA UR55				1					1	1		1	1		1	6
CsSA UR56				1				1	1	1		1			1	6
CsSA UR57				1		1			1	1		1		1		6
CsSA UR58		1		1		1		1				1		1		6
CsSA UR59	1	1			1							1			1	6
CsSA UR60								1				1	1			3
CsSA UR61				1				1				1				3
CsSA UR62	1			1				1	1	1		1				6