

Table S8. Primer list

Group	Primer name	Target gene	RAP-DB ID	Product size (bp)	Forward primer (5'→3')	Reverse primer (5'→3')
Design pRGE31-sgRNA vector						
	Vec-Pro13a	Pro13a-I			AGAGTTGTGCAGATGATCCGTGGCA <b>AACGTAGCTGGTTGCCAGAA</b>	GTTTTAGAGCTAGAAATAGCAAGTT
	Vec-Pro13b	Pro13b-I/II			AGAGTTGTGCAGATGATCCGTGGCA <b>AAACGCAGCTGATTGCAAGA</b>	GTTTTAGAGCTAGAAATAGCAAGTT
Screening positive sgRNA cloning						
	Screen-Pro13a	Pro13a-I		226	AAACCACGTGATGTGAAGAA	AAACTTCTGGCAACCAGCTA
	Screen-Pro13b	Pro13b-I/II		222	AAACCACGTGATGTGAAGAA	TAAAACTCTTGCAATCAGCT
<i>in vitro</i> cleavage assay						
	InVitro-pro13a	Pro13a-I		346	TCGTATTTGCTCTCCTTGCT	GATACCACATATGGATGGCAA
	InVitro-pro13b	Pro13b-I/II		433	TCGTCTTTGCTCTCCTTGCT	ACACCGCCAAGGGTGGTAA
Seed storage protein genes.						
qRT-Pro13a-I	<i>Pro13a.1</i>	Os07g0206400	88	CAACTACAGTCGCATCTCCTAC	GGGTTGCCACTATGCTATACTG	
	<i>Pro13a.2</i>	Os07g0206500				
qRT-Pro13a-II	<i>Pro13a.3</i>	Os12g0269100	117	TCACCCGTGTTTCAACTGAG	CACAATAGCCTGAACACTGC	
	<i>Pro13a.4</i>	Os12g0269200				
qRT-Pro13b-I	<i>Pro13b.1</i>	Os07g0219250	101	ATATTAGGCAATATCAGGTGCAG	GCTTGCCGCAATGCTATACT	
	<i>Pro13b.2</i>	Os07g0219300				
	<i>Pro13b.3</i>	Os07g0219400				
	<i>Pro13b.4</i>	Os07g0220000				
	<i>Pro13b.5</i>	Os05g0328333				
	<i>Pro13b.6</i>	Os05g0328466				
	<i>Pro13b.7</i>	Os05g0328632				
	<i>Pro13b.8</i>	Os05g0328800				
	<i>Pro13b.9</i>	Os05g0328901				
	<i>Pro13b.10</i>	Os05g0329001				
qRT-Pro13b-II	<i>Pro13b.11</i>	Os05g0329100	110	TTCACACAGTTCAAGCATTA	AGAGGCGCTGCATGCAGCAA	
	<i>Pro13b.12</i>	Os05g0329300				
	<i>Pro13b.13</i>	Os05g0329350				
	<i>Pro13b.14</i>	Os05g0329400				
	<i>Pro13b.15</i>	Os05g0329700				
	<i>Pro13b.16</i>	Os05g0329200				
	<i>Pro13b.17</i>	Os05g0330150				

	<i>Pro13b.18</i>	Os05g0330600			
	<i>Pro13b.19</i>	Os05g0331366			
	<i>Pro13b.20</i>	Os05g0331532			
	<i>Pro13b.21</i>	Os05g0331800			
	<i>Pro13b.22</i>	Os05g0332000			
qRT-Pro16	<i>Pro16.2</i>	Os06g0507200	81	CTCAATTTGCCCTCCATGTG	AGAACCGCAATGACCAGTAG
qRT-Pro10	<i>Pro10.4</i>	Os11g0535525	97	TTATTTGTGCTGGACTCGGG	GAGAGTTGGAAGTTGACAGGG
qRT-GluA	<i>GluA-1</i>	Os01g0762500	234	AATGATGGTGAAGTGCCGGT	TCACGCCTGTATGCTTGAGG
	<i>GluA-2</i>	Os10g0400200			
	<i>GluB-1a</i>	Os02g0249800			
	<i>GluB-1b</i>	Os02g0249900			
qRT-GluB	<i>GluB-2</i>	Os02g0249600	104	ATTGAGCAACACTCTGGGCA	TGGCTCTGTAGCCTCTTTGC
	<i>GluB-4</i>	Os02g0268300			
	<i>GluB-5</i>	Os02g0268100			
qRT-GluC	<i>GluC-1</i>	Os02g0453600	231	CACAAGGGCCAATAGCCAGA	GGTCACGTACATCACCGTGT
qRT-GluD	<i>GluD-1</i>	Os02g0249000	100	AAGACAGAGCGACCAAGCTC	ATGTGCAACACTAGCCGGAA
qRT-Glb	<i>Globulin</i>	Os05g0499100	122	AGTCGGAGATGAGGTTTCAGG	GAACATCGGCTGGAACCTC
Sarch biosynthesis genes					
qRT-AGPS2	<i>AGPS2b</i>	Os08g0345800	211	GCACGAGTGTGCTTGGAATC	GCTCTTGACAGGTGACGGTT
qRT-AGPL2	<i>AGPL2</i>	Os01g0633100	204	ATGCTAACTTGGCCCTCACC	CGATGCTAACGCGTGAAGAG
qRT-GBSSI	<i>GBSSI</i>	Os06g0133000	197	ACTACCAGCCCAATGGCATC	GATTCCGGCCTTCATCCAGT
qRT-SSI	<i>SSI</i>	Os06g0160700	203	TGGCTAGTGAGCAGGAGTCT	CCCGTTCATGTATCTCGGCA
qRT-SSIIa	<i>SSIIa</i>	Os06g0229800	199	GCGGTAGAAGAGGAGACGTG	AGGGAGAACATTCAGCAGCC
qRT-SSIIIa	<i>SSIIIa</i>	Os08g0191433	202	AGCAGCGAATGGGAGAACAA	AGCGGCCTTGAGTTTCTGTT
qRT-BEI	<i>BEI</i>	Os06g0726400	208	CCGAGAGCCATGATCAGTCC	GGATGGCCAAACTCATTGCC
qRT-BEIIa	<i>BEIIa</i>	Os04g0409200	210	TGCTGATGGATCCCCTGCTA	CGCAGCGAATTTGGTCGTTT
qRT-BEIIb	<i>BEIIb</i>	Os02g0528200	196	GGAATCCAAATGCAGACCGC	TATGGGATTTCTCCTGCGGC
qRT-ISA1	<i>ISA1</i>	Os08g0520900	198	GTAGAGTTGATGCCCTGCCA	AATCCCCGTTTGTGAGCCT
Chaperones and SSP trafficking proteins.					
qRT-BIP-1	<i>BIP-1</i>	Os02g0115900	198	ACGATGCTGTCTGACTGTT	CATCGAATGTCCCACCACCA
qRT-PDIL1-1	<i>PDIL1-1</i>	Os11g0199200	188	CCAGTACTTTGGGCTGAGGG	TAACAGGCTCGTCGTTGACC
qRT-PDIL2-3	<i>PDIL2-3</i>	Os09g0451500	190	GGCACTGCAAGAAATTGGCA	ACTCTAGCCCCCTGGTAAGG
qRT-CNX	<i>CNX</i>	Os04g0402100	207	CGGAGGCTAACAAGCCTGAA	GGATCTCTTGGGGCTTCCAG
qRT-HSP70	<i>HSP70</i>	Os01g0840100	106	TGGCATCCTCAACGTCTCT	CATCTTCTCGATCTCCTCCT
qRT-HSP20	<i>HSP20</i>	Os11g0244200	144	TGGAGGTGGACGAGGCCA	TGAACCGCCTCCAGAACCT

qRT-HSP90	<i>HSP90</i>	Os04g0107900	134	ATCTCCAACCTCTTCTGATGC	TCGATGATGGAGAGAGTCTT
Transcription factor					
qRT-HSFB2b	<i>HSFB2b</i>	Os08g0546800	149	GAAAGATCTTCTTCGACGGT	CGCAAGTACGCAACTGAAC
qRT-NAC110	<i>OsNAC110</i>	Os09g0552900	147	CCAGAACAGGTCAATTGGTA	GAGTCCTGTAACGAATCCC
qRT-HSFC1b	<i>HSFC1b</i>	Os01g0733200	127	AAGACGTTCCACATGGTGAG	GCTTGAAGTAGGAGGGGAGG
qRT-PCL1	<i>OsPCL1</i>	Os01g0971800	137	GCACAAGAGGTTCTGTGGAG	CGTAGAGGCGATACTTCTGG
qRT-hox6	<i>OsHox6</i>	Os09g0528200	122	CAGATCAAGTCGCTGGAGT	TTGTTCTGGAACCAGATGGC
qRT-WRKY76	<i>WRKY76</i>	Os09g0417600	117	GTCAAGGACGGGTACCAATG	CACCTTCTTCTTCACCGGG
qRT-RR6	<i>RR6</i>	Os04g0673300	122	GTCAACATGATCATCACCGA	ACGTTCTCCGACGACATGAT
qRT-RR10	<i>RR10</i>	Os12g0139400	117	AGTAACCACTGTTGATTCGG	ATGATCAGGTTCACTCCAAC