

Table S1. Design of sgRNAs

sgRNAs		Target genes				Positions of sgRNAs on target genes	
Name	Sequence (5'→ 3')	Gene name	Accession #	Gene sequence (5'→ 3')*	Target score (%)		
sgRNA_pro13a	AACGTAGCTGGTTGCCAGAA G G G	<i>Pro13a.1</i>	Os07g0206400	AACGTAGCTGGTTGCCAGAA G G G	100.0	<i>Pro13a.1</i>	
		<i>Pro13a.2</i>	Os07g0206500	AACGTAGCTGGTTGCCAGAA G G G	100.0	<i>Pro13a.2</i>	
sgRNA_pro13b	AAACGCAGCTGATTGCAAGA A G G	<i>Pro13b.1</i>	Os07g0219250	AAACGCAGCTGATTGCAAGA A G G	100.0	<i>Pro13b.1</i>	
		<i>Pro13b.2</i>	Os07g0219300	AAACGCAGCTGATTGCAAGA A G G	100.0	<i>Pro13b.2</i>	
		<i>Pro13b.3</i>	Os07g0219400	AAAC A CAGCTGATTGCAAGA A G G	100.0	<i>Pro13b.3</i>	
		<i>Pro13b.4</i>	Os07g0220000	AAAC A CAGCTGATTGCAAGA A G G	100.0	<i>Pro13b.4</i>	
		<i>Pro13b.5</i>	Os05g0328333	AAACGCAGCTGATTGCAAGA A G G	100.0	<i>Pro13b.5</i>	
		<i>Pro13b.6</i>	Os05g0328466	AAACGCAGCTGAT C GCAAGA A G G	14.9		
		<i>Pro13b.7</i>	Os05g0328632	AAACGCAGCTGATTGCAAGA A G G	100.0	<i>Pro13b.7</i>	
		<i>Pro13b.8</i>	Os05g0328800	AAACGCAGCTGATTGCAAGA A G G	100.0	<i>Pro13b.8</i>	
		<i>Pro13b.9</i>	Os05g0328901	AAACGCAGCTGATTGCAAGA A G G	100.0	<i>Pro13b.9</i>	
		<i>Pro13b.10</i>	Os05g0329001	AAACGCAGCTGATTGCAAGA A G G	100.0	<i>Pro13b.10</i>	
		<i>Pro13b.11</i>	Os05g0329100	AAACGCAGCTGATTGCAAGA A G G	100.0	<i>Pro13b.11</i>	
		<i>Pro13b.12</i>	Os05g0329300	AAACGCAGCTGATTGCAAGA A G G	100.0	<i>Pro13b.12</i>	
		<i>Pro13b.13</i>	Os05g0329350	AAACGCAGCTGATTGCAAGA A G G	100.0	<i>Pro13b.13</i>	
		<i>Pro13b.14</i>	Os05g0329400	AAACGCAGCTGATTGCAAGA A G G	100.0	<i>Pro13b.14</i>	
		<i>Pro13b.15</i>	Os05g0329700	AAAC A CAGCTGATTGCAAGA A G G	100.0	<i>Pro13b.15</i>	
		<i>Pro13b.16</i>	Os05g0329200	AAAC A CAGCTGATTGCAAGA A G G	100.0	<i>Pro13b.16</i>	
		<i>Pro13b.17</i>	Os05g0330150	AAACGCAGCTGATTGCAAGA A G G	100.0	<i>Pro13b.17</i>	
		<i>Pro13b.18</i>	Os05g0330600	AAACGCAGCTGATTGCAAGA A G G	100.0	<i>Pro13b.18</i>	
		<i>Pro13b.19</i>	Os05g0331366	AAACGCAGCTGATTGCAAT A G G	31.5		
		<i>Pro13b.20</i>	Os05g0331532	AAAT G CAGCTGATTGCAAT A G G	4.3		
		<i>Pro13b.21</i>	Os05g0331800	AAACGCA A CTGATTGCAAT A G G	4.3		
		<i>Pro13b.22</i>	Os05g0332000	AAACGCAGCTGATTGCAAT A G G	31.5		

* Red color letters indicate the non-matching nucleotide between sgRNAs and the respective gene sequences