

## Supplementary Material

### Compact panicle architecture is detrimental for growth as well as sucrose synthase activity of developing rice kernels

B. B. Panda<sup>A</sup>, A. K. Badoghar<sup>A</sup>, K. Das<sup>A</sup>, R. Panigrahi<sup>B</sup>, E. Kariali<sup>B</sup>, S. R. Das<sup>C</sup>, S. K. Dash<sup>D</sup>, B. P. Shaw<sup>A</sup> and P. K. Mohapatra<sup>B,E</sup>

<sup>A</sup>Institute of Life Science, Nalco Square, Bhubaneswar 751023, India.

<sup>B</sup>School of Life Science, Sambalpur University, Jyoti vihar, Sambalpur 768019, India.

<sup>C</sup>Department of Plant Breeding and Genetics, Orissa University of Agriculture and Technology, Bhubaneswar 751003, India.

<sup>D</sup>Crop Improvement Division, Central Rice Research Institute, Cuttack 753006, India.

<sup>E</sup>Corresponding author. Email: pravat1948@rediffmail.com

Genes	Forward primer	Reverse primer
<i>APL1</i>	CCCGGGCGTATAACTTCAGC	GCTGTACCCTGAAACCACCT
<i>APL2</i>	CGGACACAATCCTCCCGAAA	ATCCTCCAACAGGAACAGCG
<i>APL3</i>	ATGAACGCGAGGGTTGGAAG	GATGGTCGCGTTCTTCAGGA
<i>APL4</i>	AGTCTCTCAACCGTCACATCG	CATCGCTTTCCTGATTCCCCT
<i>APS1</i>	GCCTTGATACTGAGAGGGCA	GCTCCAGGAATAACCTCGCT
<i>APS2</i>	CGACGTGAGGGCAAAAGAAA	CGATGTTTGTGTCACCTGGA
<i>SUS1</i>	GGAACAAGCCAATCATCTTCTCC	TCCTCCTTGTCTTAGATGGGTT
<i>SUS2</i>	TATTGTTGATGGGGTGTCTGGTC	CCTCCCTGTGAAATATTGTCCA
<i>SUS3</i>	GCTAACTGTGATTGAGGCCATG	TCGTTCTGGTAAGGATCAATGTGG
<i>SUS4</i>	TCAAGAATGGGGATTGGAGAAGG	CTCCCAAGAACGTCTCAAGAGT
<i>SUS5</i>	AACATAACTGGGCTTGTGGAGT	ATCTCCTCTCGATCCTTGGACT
<i>SUS6</i>	GGACCTTGTGAACCTTGTTCATTG	CGGTCAGTCTGTCTTTTATCCA
<i>SSI</i>	CTGCCAGTACATATCCTGACCTG	CAGTCACAATTCGATCTGCTGTC
<i>SSII-3</i>	CTAGATCTTCCCCTATTCTGCG	GATCACGTTTCATGACATTCTCCC
<i>SSIII-1</i>	ACACATACAAAGCAGGGGATAGG	TTCAGCAATAGAGAGCCCATCAC
<i>SSIV-2</i>	GCAAACTCTGGGCTTCAACTCAG	CCTGTCTTCCCTATCAAGTTGCT
<i>GBSSI</i>	CTCAAGAGCATGGAGGAGAAGTAT	CGTTCGGTATCTCATCCCCTG
<i>GBSSII</i>	GACAATTCCAGTTTCAAGGGGC	GATTAAGTGGATGAAGGCAGGGA
<i>18S rRNA</i>	TGACGGAGAATTAGGGTTTCG	CCTCCAATGGATCCTCGTTA