A. Report of the committee on Gene Symbolization, Nomenclature and Linkage Groups

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I. Registration of new gene symbols

The following genes are newly registered:

GENE SYMBOL REGISTRATION No. 166
Registrant: Jianmin Wan¹,², Susong Zhu¹, Linglong Liu¹, Chunming Wang³, Ling Jiang¹ and Danting Li¹  
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Gene symbol: S30
Gene full name: HYBRID SPIKELET STERILITY 30
Character expression: Semi-sterility expressed as an allelic interaction such as S30-i / S30-j. Segregation distortion in BC₁F₁ due to the abortion of female gametes having S30-j
Name of original line: O. sativa cv. IR36(S30-i), Ludao(S30-j) and N22(S30-n)
Gene locus: Short arm of chromosome 7, between SSR marker RM11 and RM432
Remark: Data on F₁ fertility, segregation distortion in BC₁F₁ derived from IR36/Ludao/IR36 and linkage analysis are reported

GENE SYMBOL REGISTRATION No. 167
Registrant: Jianmin Wan¹,², Zhigang Zhao¹, Linglong Liu¹, Chunming Wang¹, Ling Jiang¹, Susong Zhu¹, and Hiroshi Ikehashi³  
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Gene symbol: S31
Gene full name: HYBRID SPIKELET STERILITY 31
Character expression: Semi-sterility expressed as an allelic interaction such as S31-un / S31-gi. Segregation distortion in BC₁F₁ due to the abortion of female gametes having S31-un
Name of original line: O. sativa cv. Guangjie 9 (S31-gi), USSR5 (S31-un) and Dular(S31-n)
Gene locus: Short arm of chromosome 5, between SSR marker RM5579 and RM13
Remark: Data on F₁ fertility, segregation distortion in BC₁F₁ derived from USSR5/Guangjie9/USSR5 and linkage analysis are reported
GENE SYMBOL REGISTRATION No. 168

Registrant: Jianmin Wan\textsuperscript{1,2,}, Wen Jing\textsuperscript{1,}, Linglong Liu\textsuperscript{1,}, Wenwei Zhang\textsuperscript{1,} and Ling Jiang\textsuperscript{1,}

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Gene symbol: S32

Gene full name: HYBRID SPIKELET STERILITY 32

Character expression: Semi-sterility expressed as an allelic interaction such as S32-kn / S32-ni. Segregation distortion in BC1F1 due to the abortion of female gametes having S32-n

Name of original line: *O. sativa* cv. Ketan Nangka(S32-kn), Tuanguzao(S32-ni) and Dular(S32-n)

Gene locus: Chromosome 2, between SSR marker RM236 and RM279

Remark: Data on F1 fertility, segregation distortion in BC1F1 derived from Tuanguzao/ Ketan Nangka //Ketan Nangka and linkage analysis are reported.


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GENE SYMBOL REGISTRATION No. 169

Registrant: Jianmin Wan\textsuperscript{1,2}, Wen Jing\textsuperscript{1,}, Linglong Liu\textsuperscript{1,}, Wenwei Zhang\textsuperscript{1,} and Ling Jiang\textsuperscript{1,}

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Gene symbol: S33

Gene full name: HYBRID POLLEN STERILITY 33

Character expression: Pollen semi-sterility expressed as an allelic interaction such as S33-id / S33-j. Segregation distortion in BC1F1 due to the abortion of male gametes having S33-id

Name of original line: *O. sativa* weedy strain Ludao (S33-id), cv. Akihikari (S33-j) and 02428 (S33-n)

Gene locus: Chromosome 3, between EST marker C0729 and SSR marker RM3350

Remark: Data on F1 fertility, segregation distortion in BC1F1 derived from Akihikari/Ludao/Akihikari and linkage analysis are reported.


GENE SYMBOL REGISTRATION No. 170

Registrant: Jianmin Wan\textsuperscript{1,2}, Wen Jing\textsuperscript{1,}, Linglong Liu\textsuperscript{1,}, Wenwei Zhang\textsuperscript{1,} and Ling Jiang\textsuperscript{1,}

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Gene symbol: S34

Gene full name: HYBRID POLLEN STERILITY 34

Character expression: Pollen semi-sterility expressed as an allelic interaction such as S34-id / S34-j. Segregation distortion in BC1F1 due to the abortion of male gametes having S34-id

Name of original line: *O. sativa* weedy strain Ludao (S34-id), cv. Akihikari (S34-j) and 02428 (S34-n)

Gene locus: Chromosome 11, between SSR marker RM167 and RM552
Remark: Data on F₁ fertility, segregation distortion in BC₁F₁ derived from Akihikari/Ludao/Akihikari and linkage analysis are reported.


GENE SYMBOL REGISTRATION No. 171

Registraant: Jianmin Wan*, Wanchang Li, Linglong Liu, Shirong Zhou, Chunming Wang, Liangming Chen, Wenwei Zhang

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Gene symbol: PSS1

Gene full name: POLLEN SEMI-STERILE 1

Character expression: The female gamete of mutant W207-2 was normal, and its semi-sterility was unaffected by growth duration but was conditioned by a recessive nuclear gene whose action leads to pollen semi-sterility and anther indehiscence.

Name of original line: O. sativa cv. Nipponbare.

Gene locus: Short arm of chromosome 8, between a 0.04 cM segment flanked by a CAPs marker L2 and a dCAPs L3 marker.

Remark: Data on genetic analysis and fine mapping of pss₁ are reported.


GENE SYMBOL REGISTRATION No. 172

Registraant: Jianmin Wan*, Yihua Wang, Linglong Liu, Sulan Ji, Ling Jiang, Wenwei Zhang

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Gene symbol: LGC2

Gene full name: LOW GLUTELIN CONTENT 2

Character expression: With a low glutelin content and a high prolamine content in rice seeds

Name of original line: O. sativa cv. W3660

Gene locus: Short arm of chromosome 2, between SSR marker RM5356 and RM1358

Remark: Data on genetic analysis, linkage analysis and the marker-assisted selection accuracy are reported.