

Supplementary Figures

Accelerating public sector rice breeding with high-density KASP markers derived from whole genome sequencing of *indica* rice

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Fig. S1 Overview of the criteria used for identification of potential KASP markers from variations identified using SAMtools.

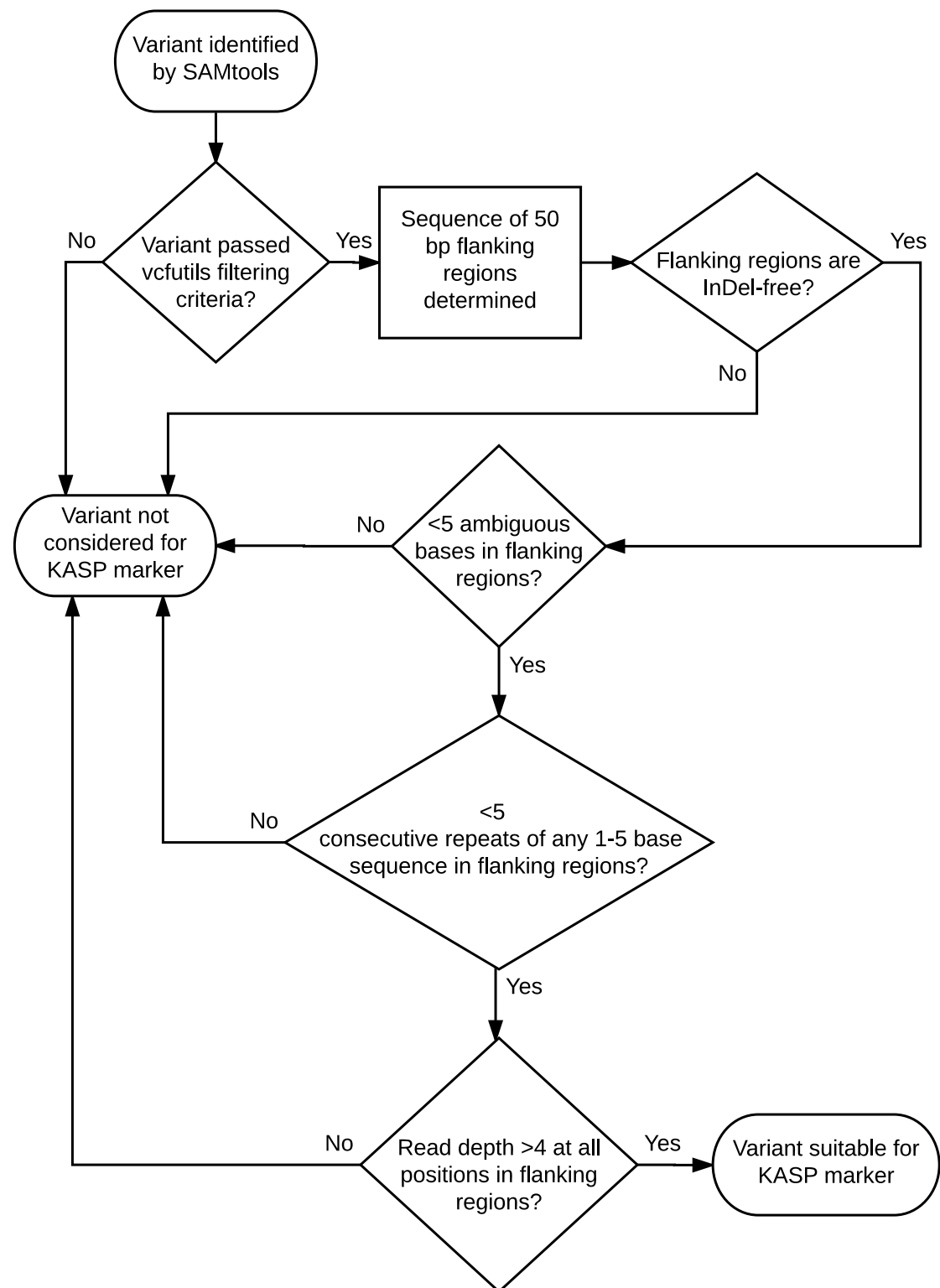


Figure. S2 Number of variations identified at the same positions relative to the indica reference in all sequenced rice lines (maximum nine).

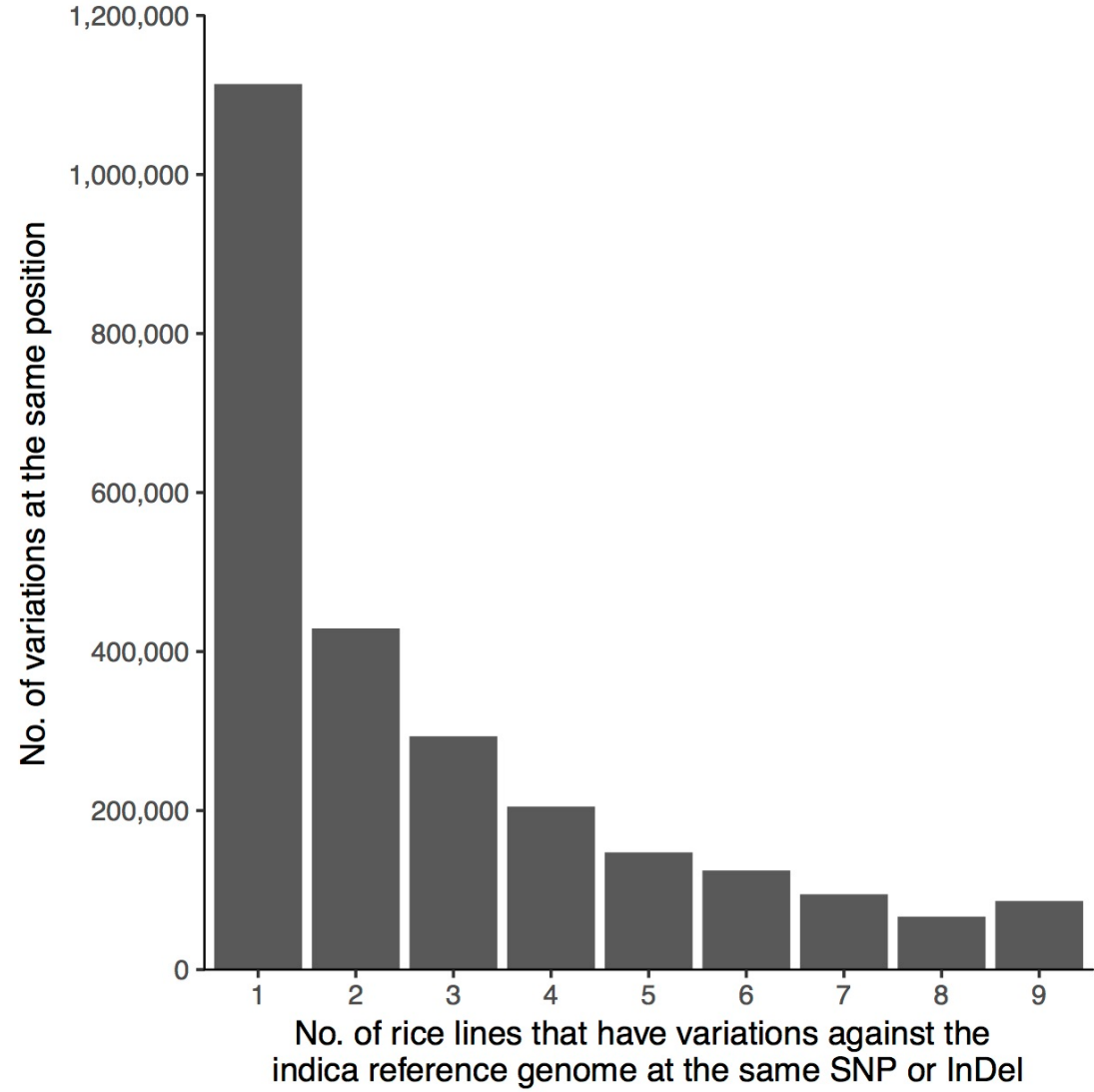


Figure. S3 Number of variations (homozygous SNPs, insertions and deletions) identified between each of the nine sequenced rice lines and the indica reference genome.

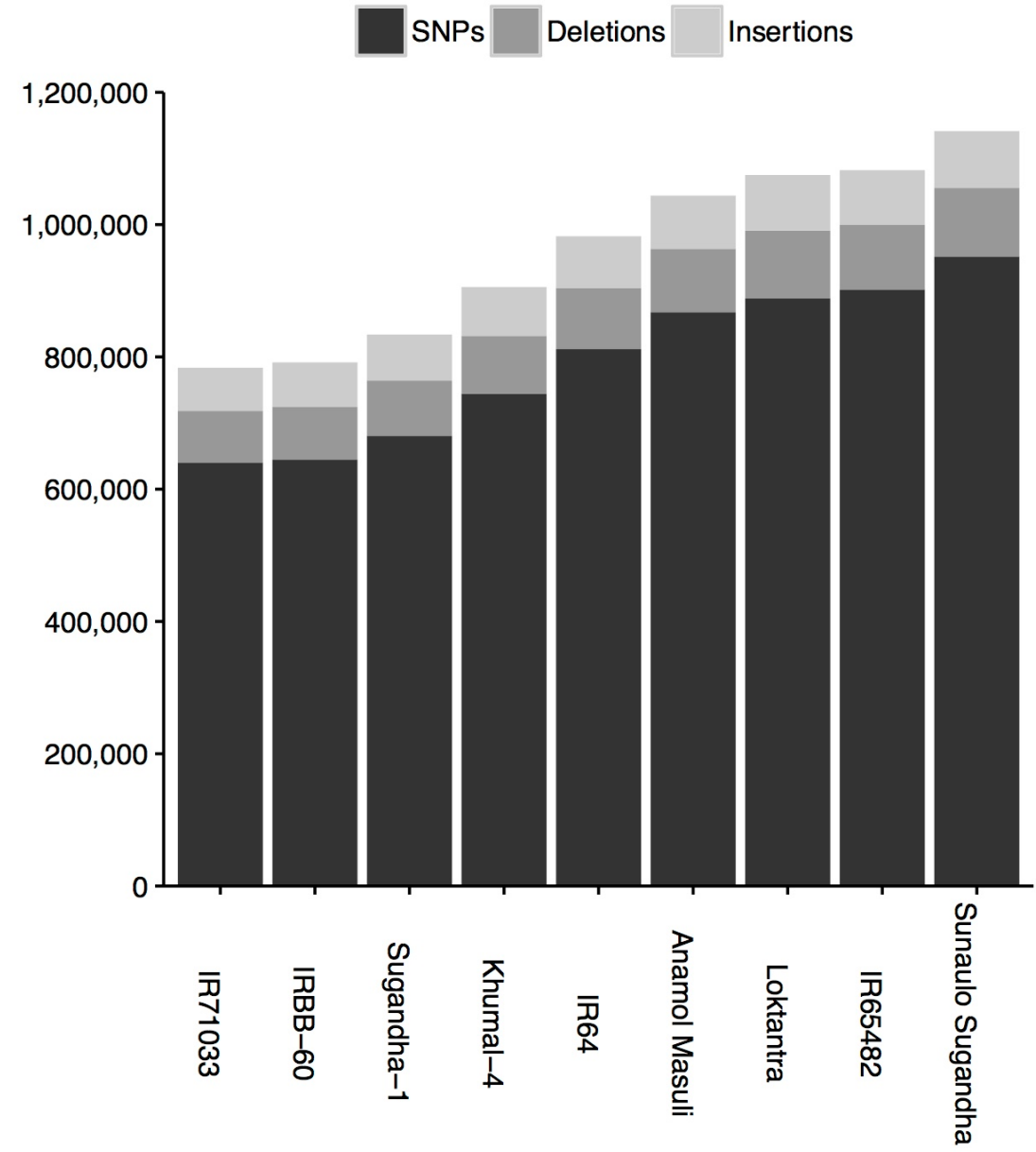
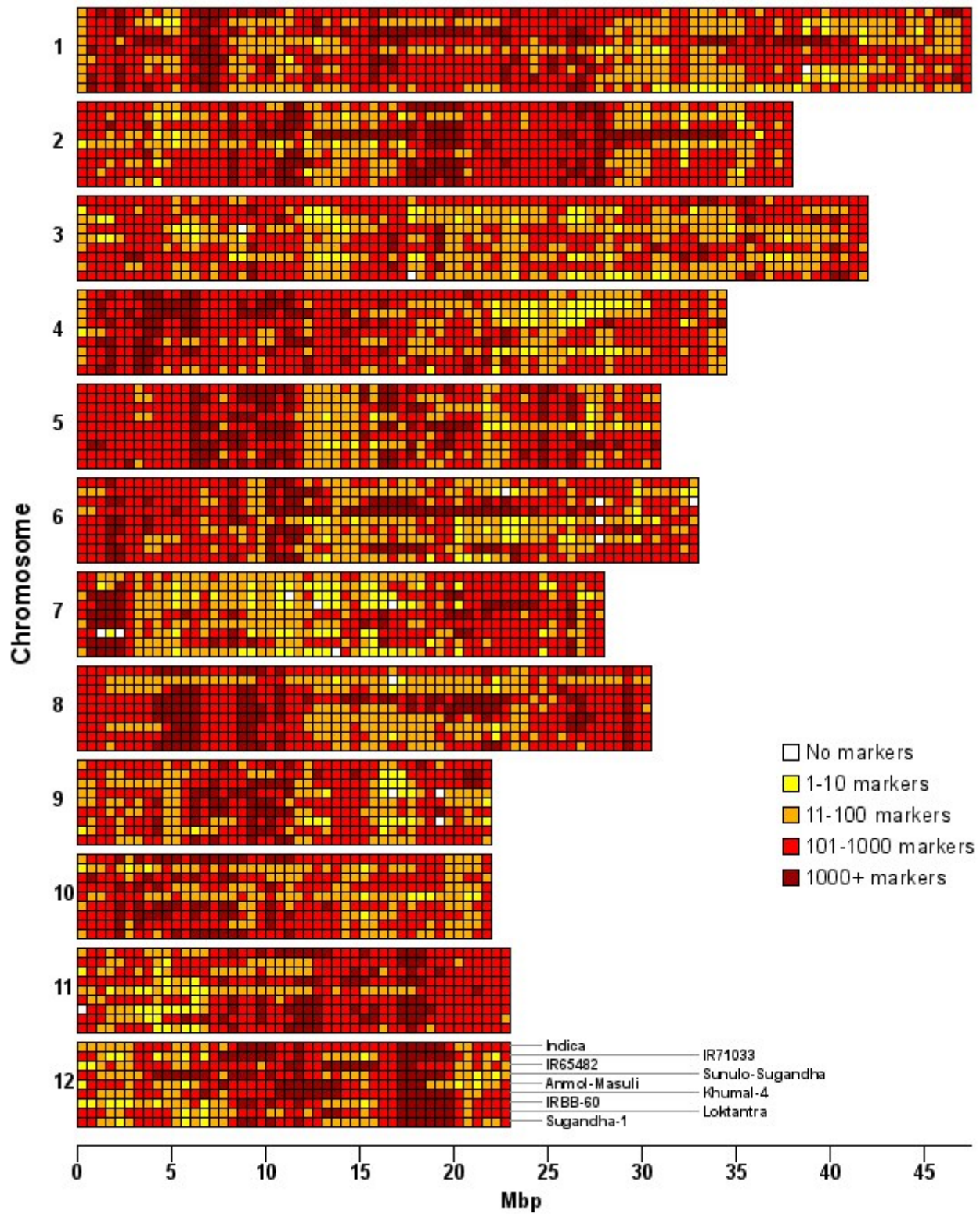
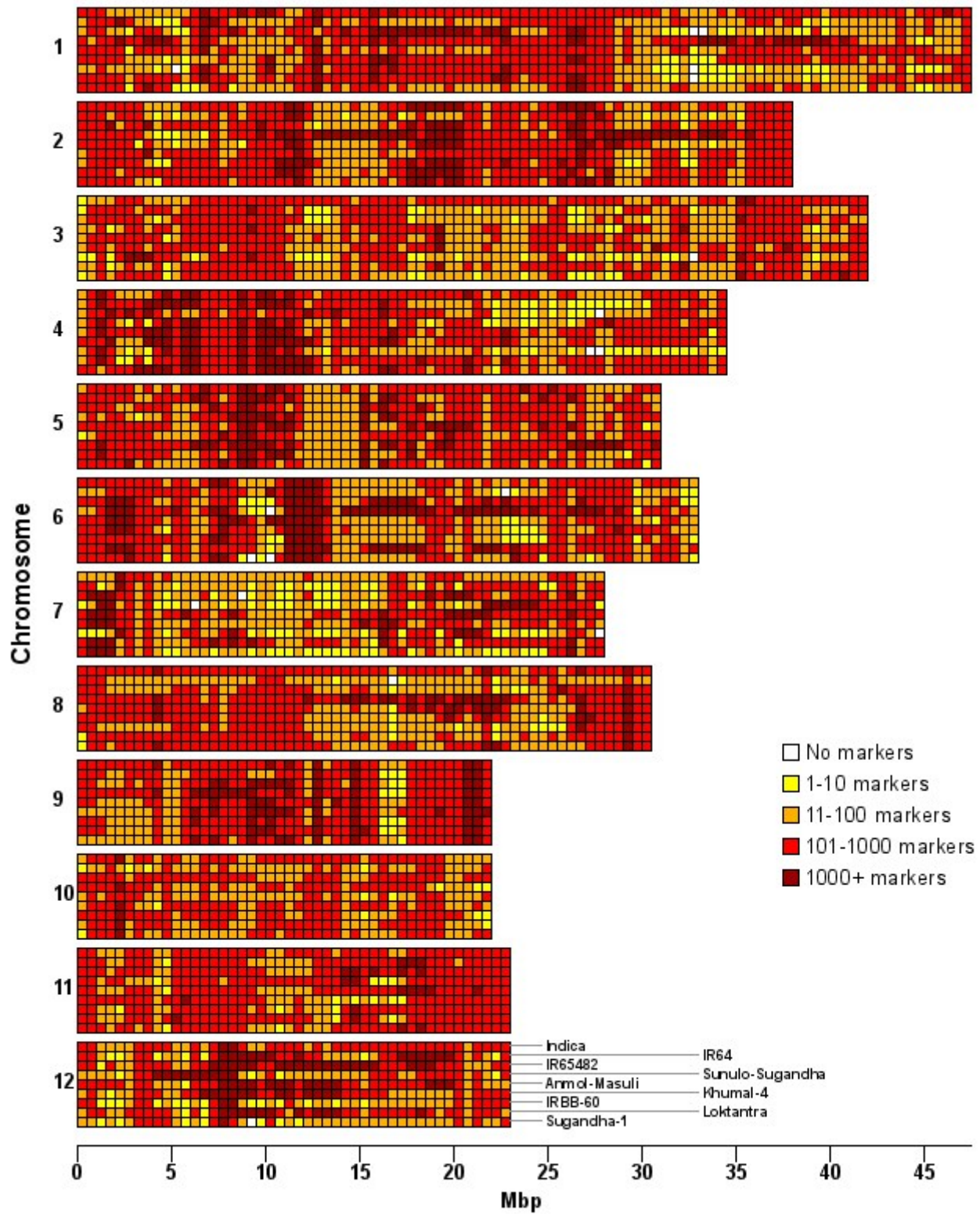


Fig. S4 Distribution of potential new rice KASP markers polymorphic between each rice line pair. Rows represent the chromosomes, subdivided into the different lines (ordered as indicated on chromosome 12), and columns the physical position. Subfigs show the distribution of markers informative for crosses against (a) IR64 (b) IR71033 (c) IR65482 (d) Sunaulo Sugandha (e) Anamol Masuli (f) Khumal-4 (g) IRBB-60 (h) Loktantra (i) Sugandha-1.

(a) IR64



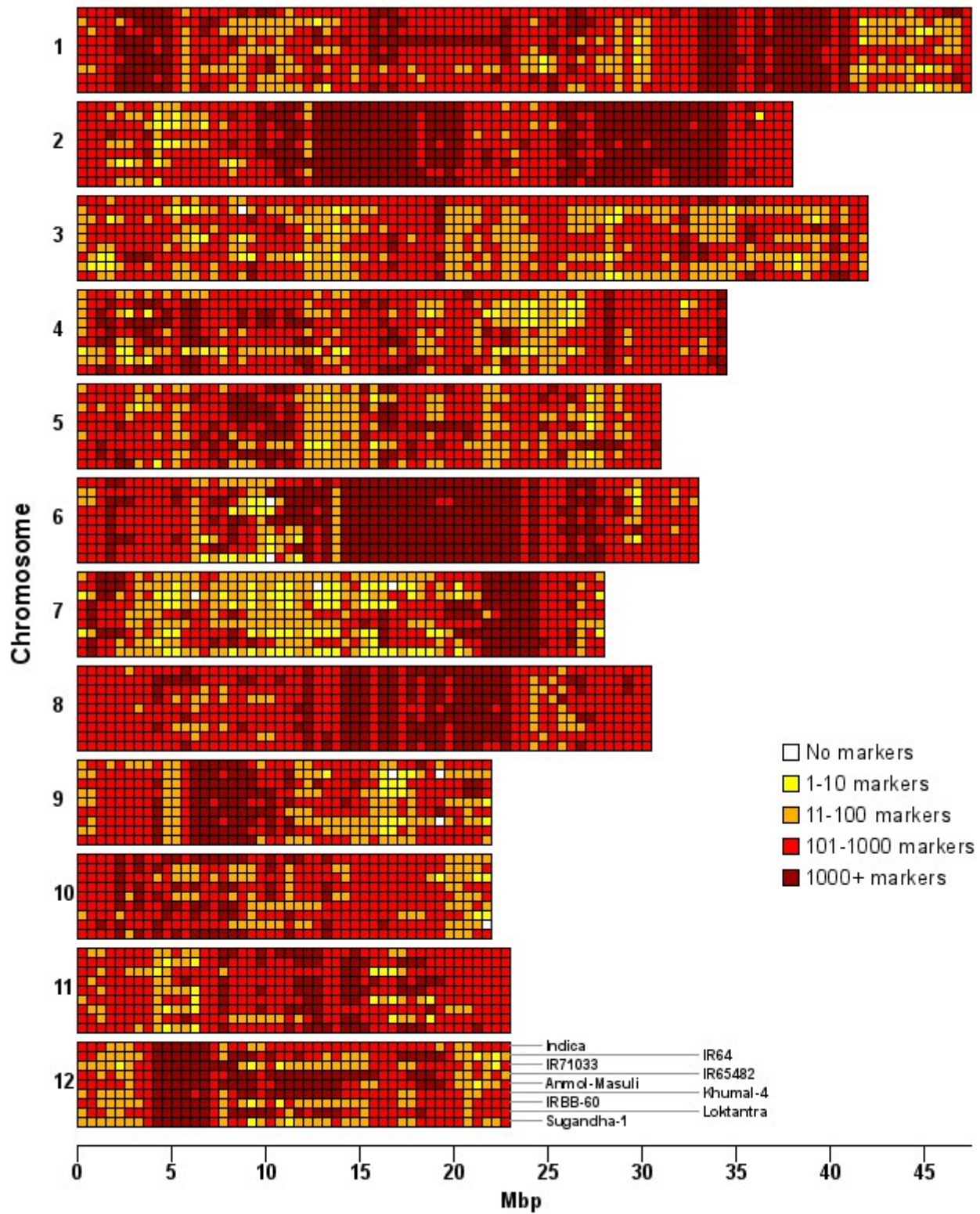
(b) IR71033



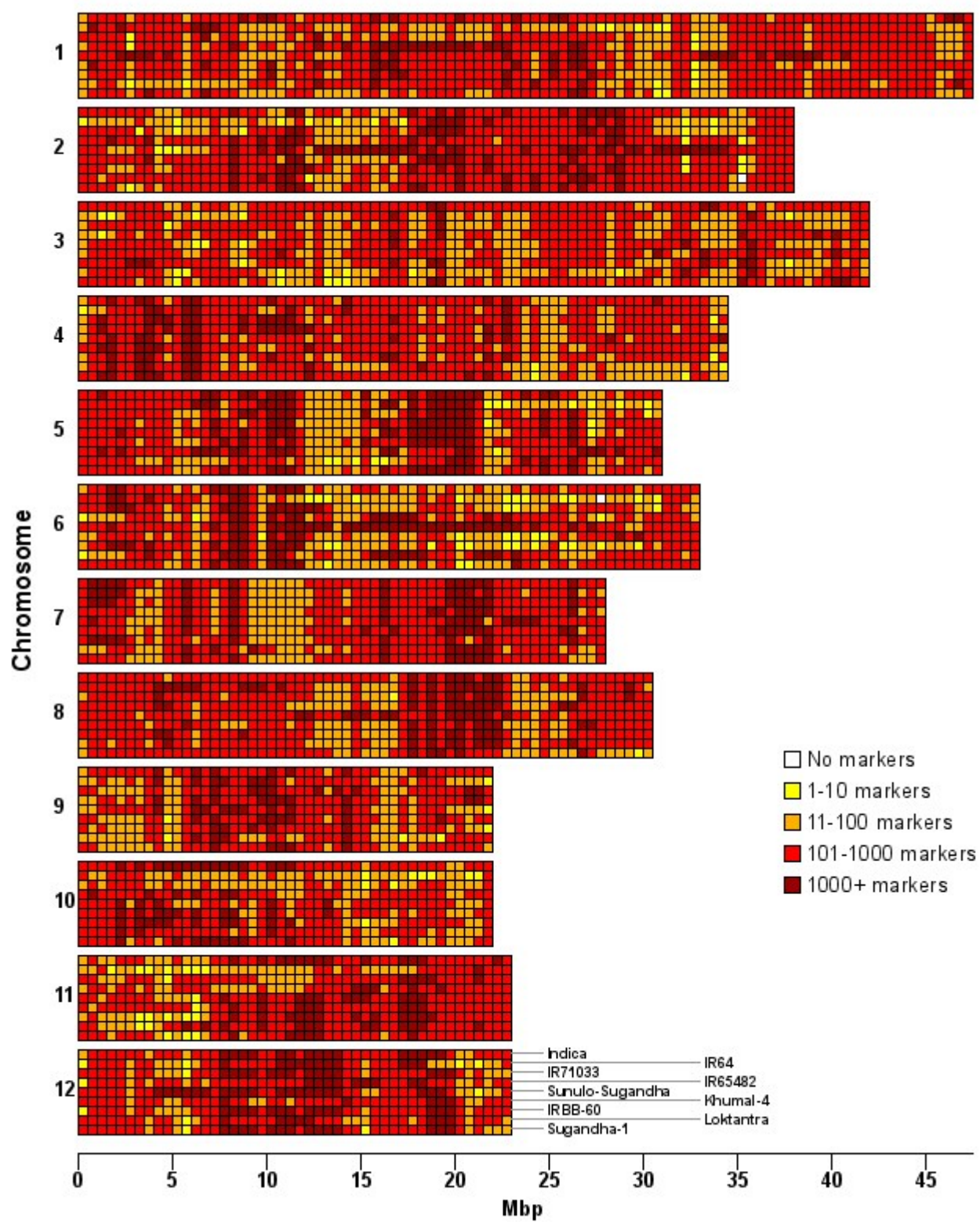
(c) IR65482



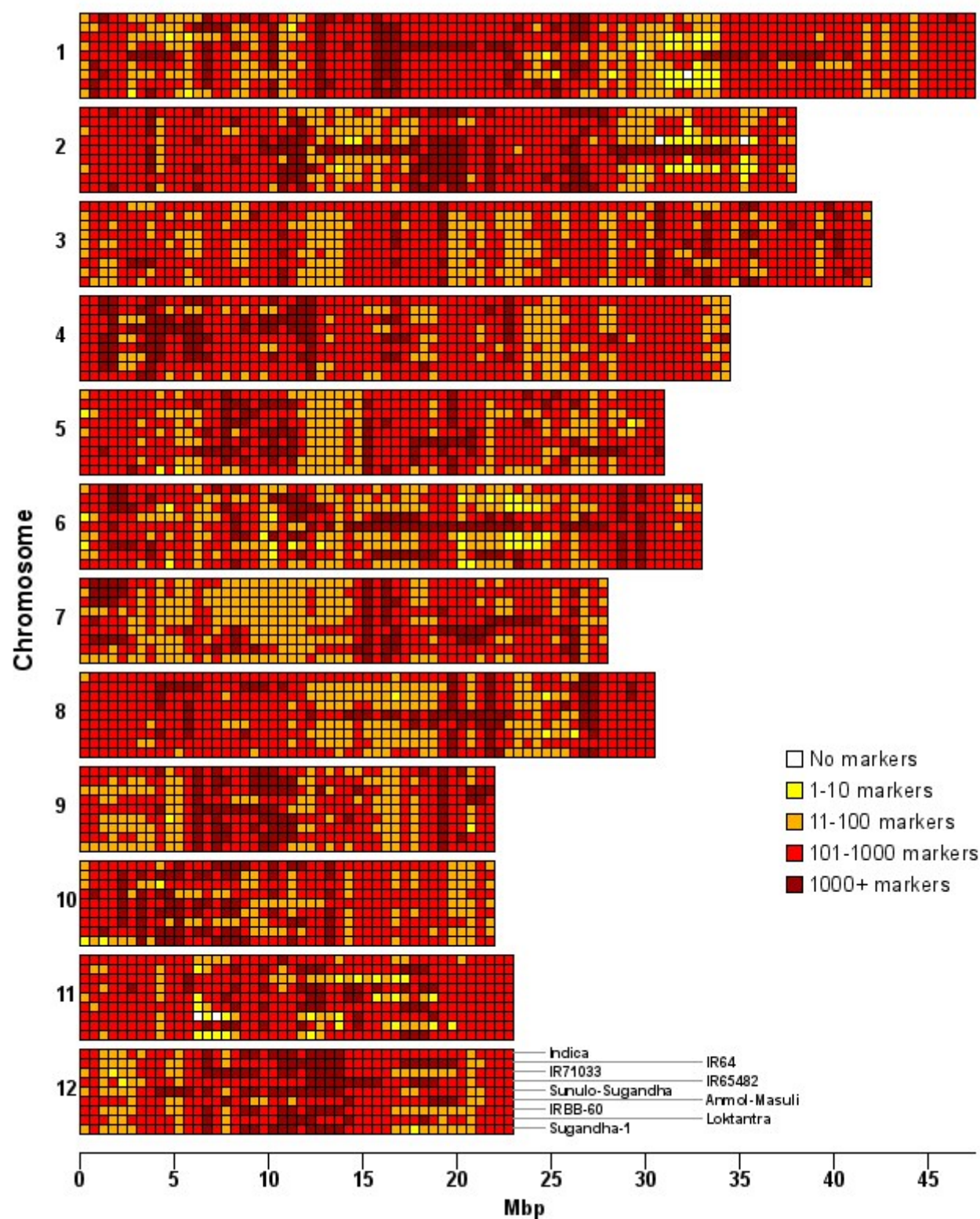
(d) Sunaulo Sugandha



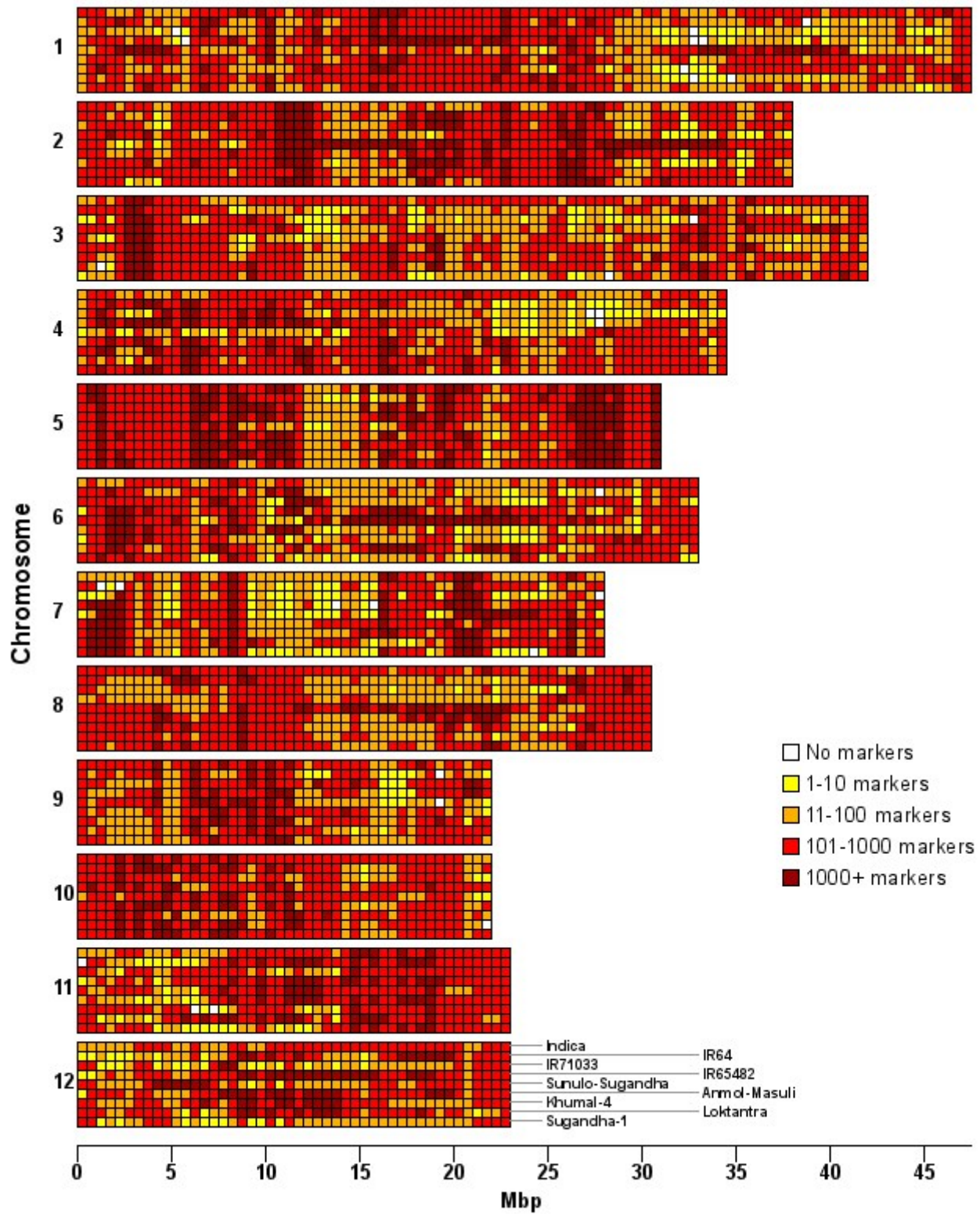
(e) Anamol Masuli



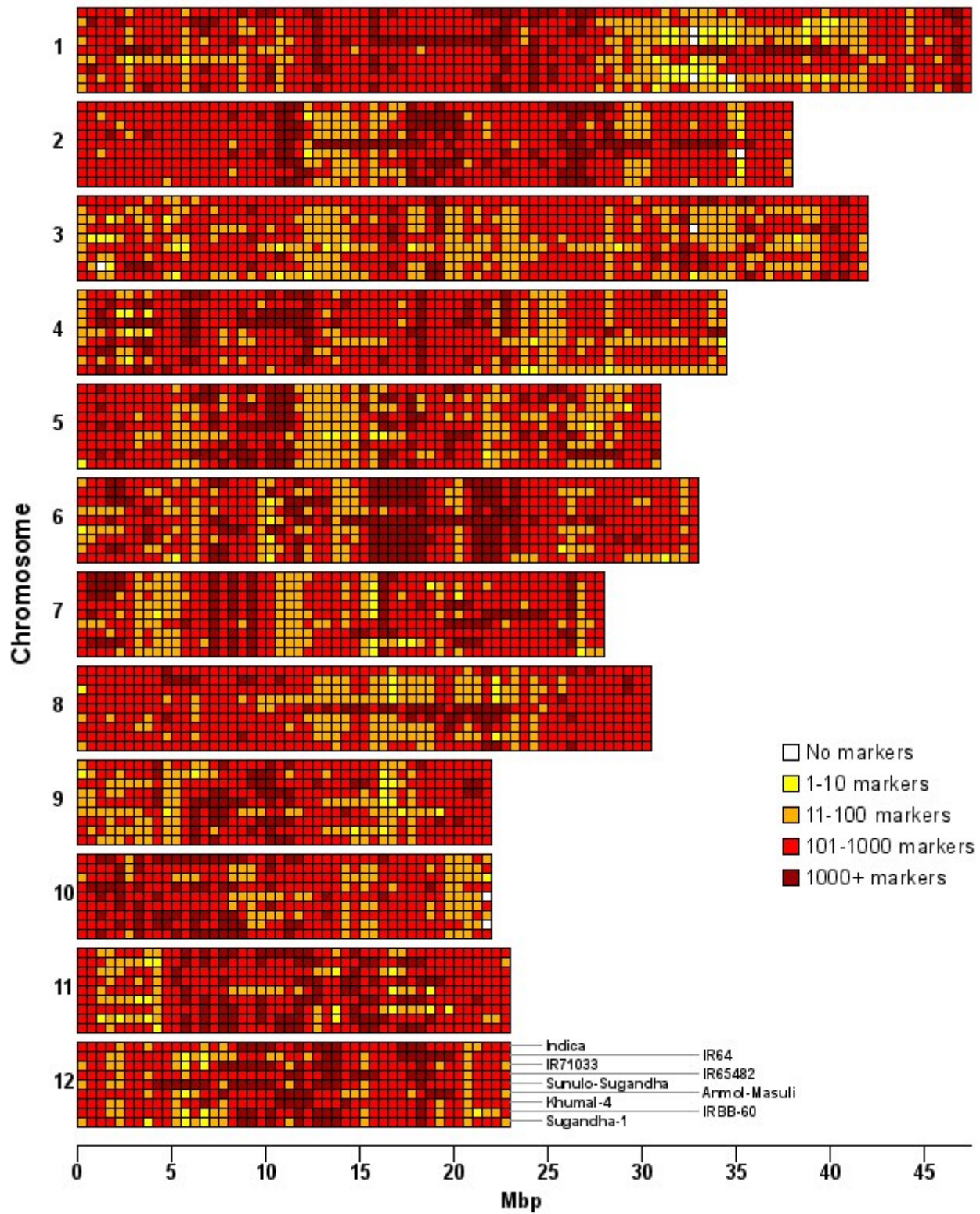
(f) Khumal-4



(g) IRBB-60



(h) Loktantra



(i) Sugandha-1

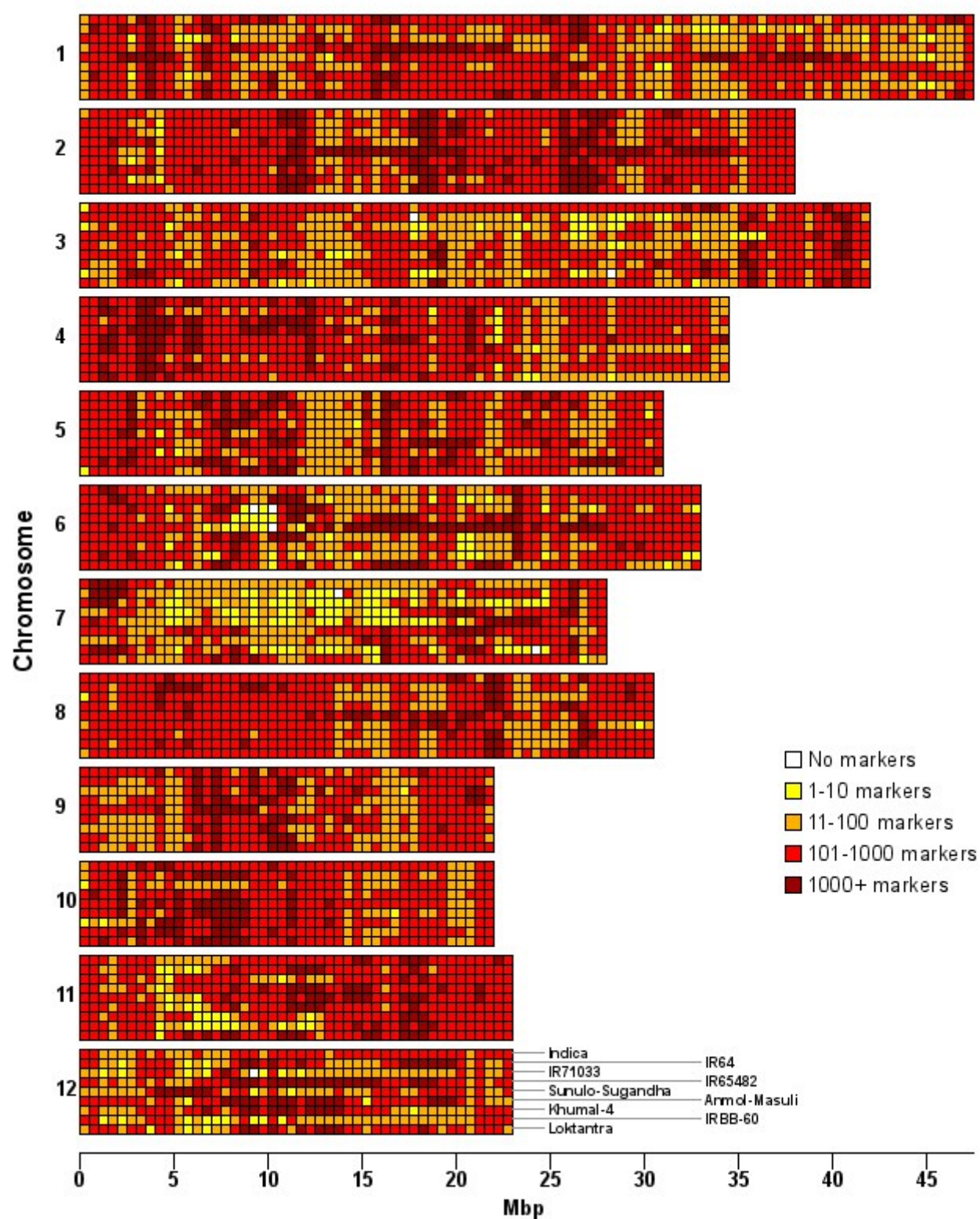
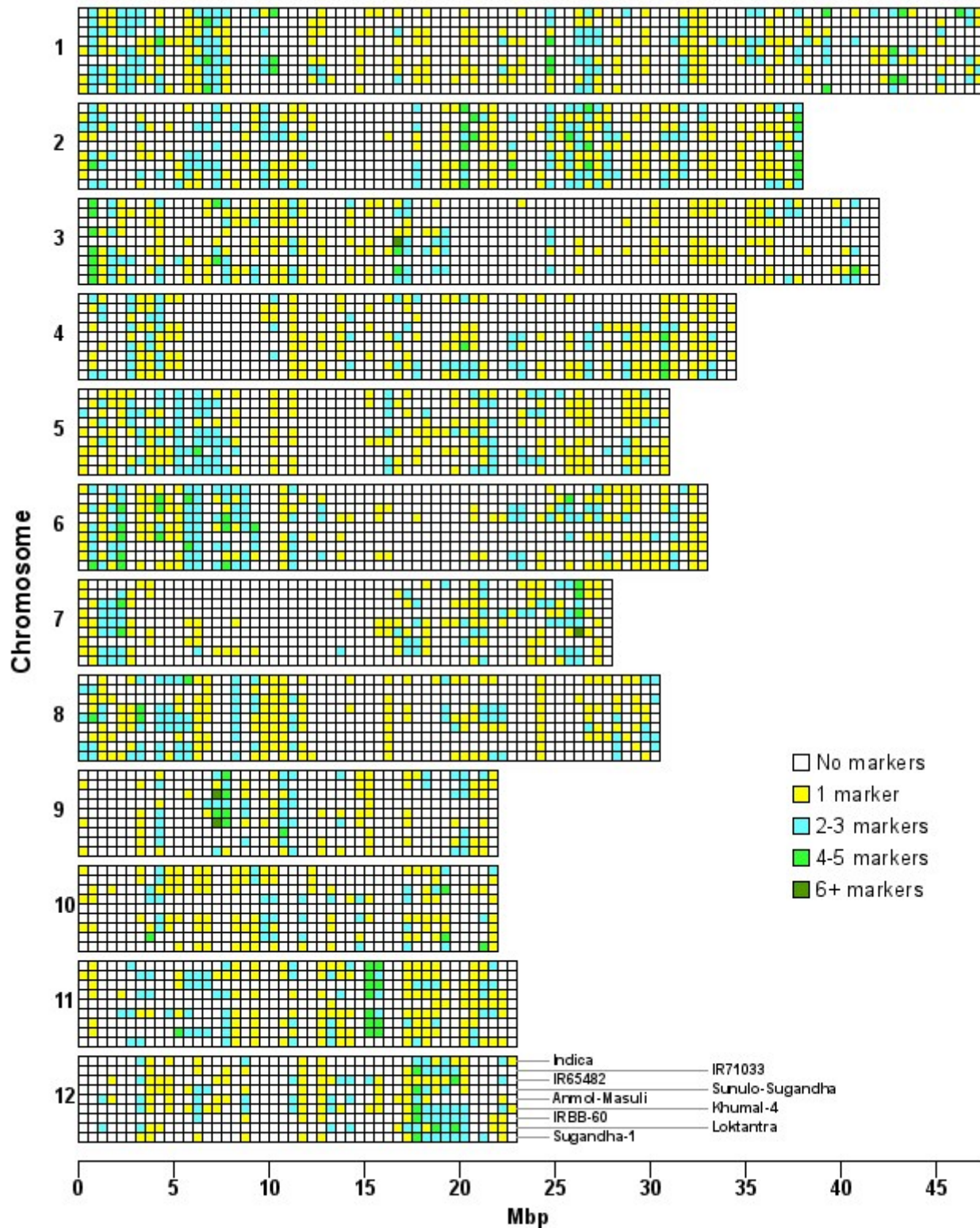


Fig. S5 Distribution of existing rice KASP markers polymorphic between each rice line pair. Rows represent the chromosomes, subdivided into the different lines (ordered as indicated on chromosome 12), and columns the physical position. Subfigs show the distribution of markers informative for crosses against (a) IR64 (b) IR71033 (c) IR65482 (d) Sunaulo Sugandha (e) Anamol Masuli (f) Khumal-4 (g) IRBB-60 (h) Loktantra (i) Sugandha-1.

(a) IR64



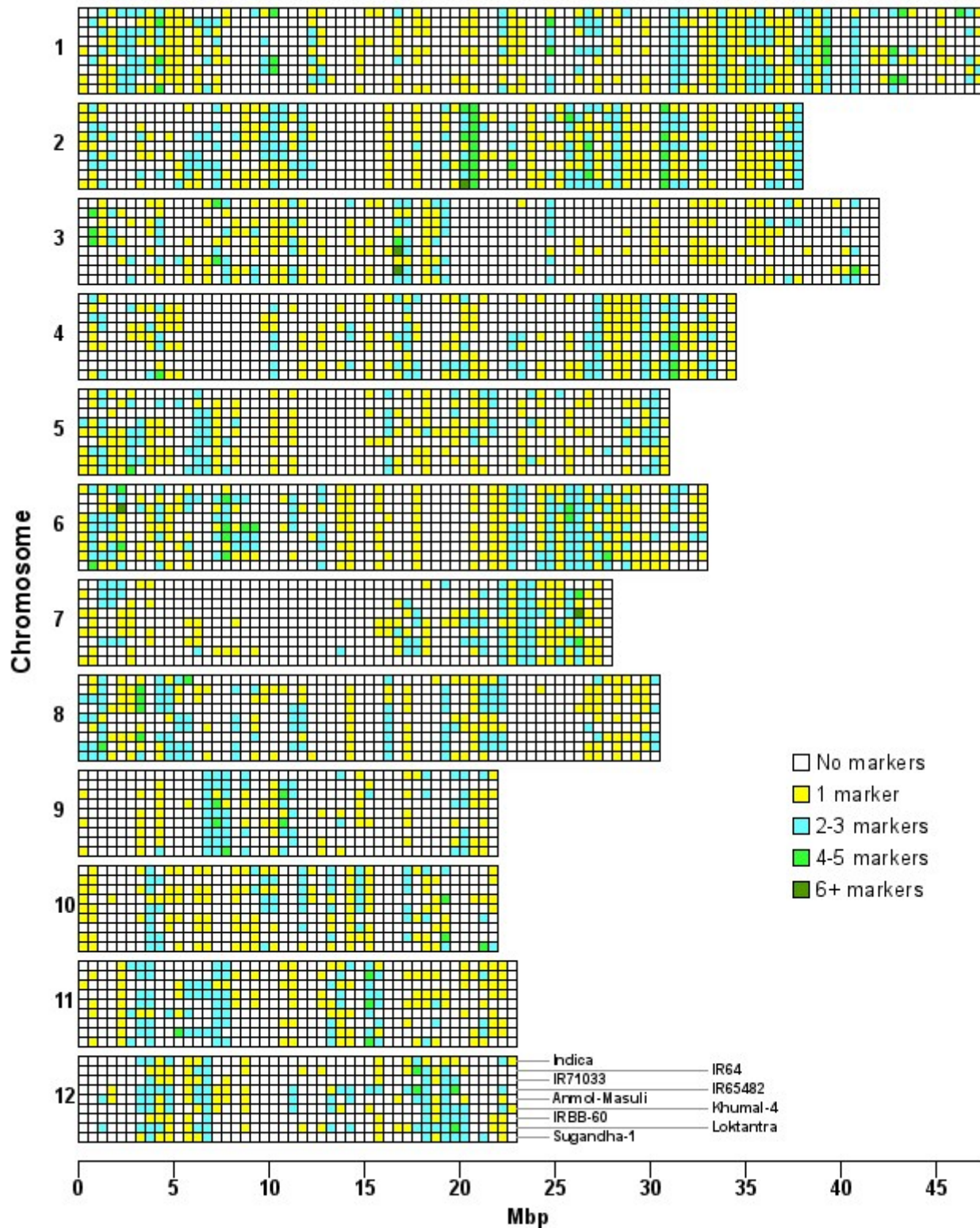
(b) IR71033



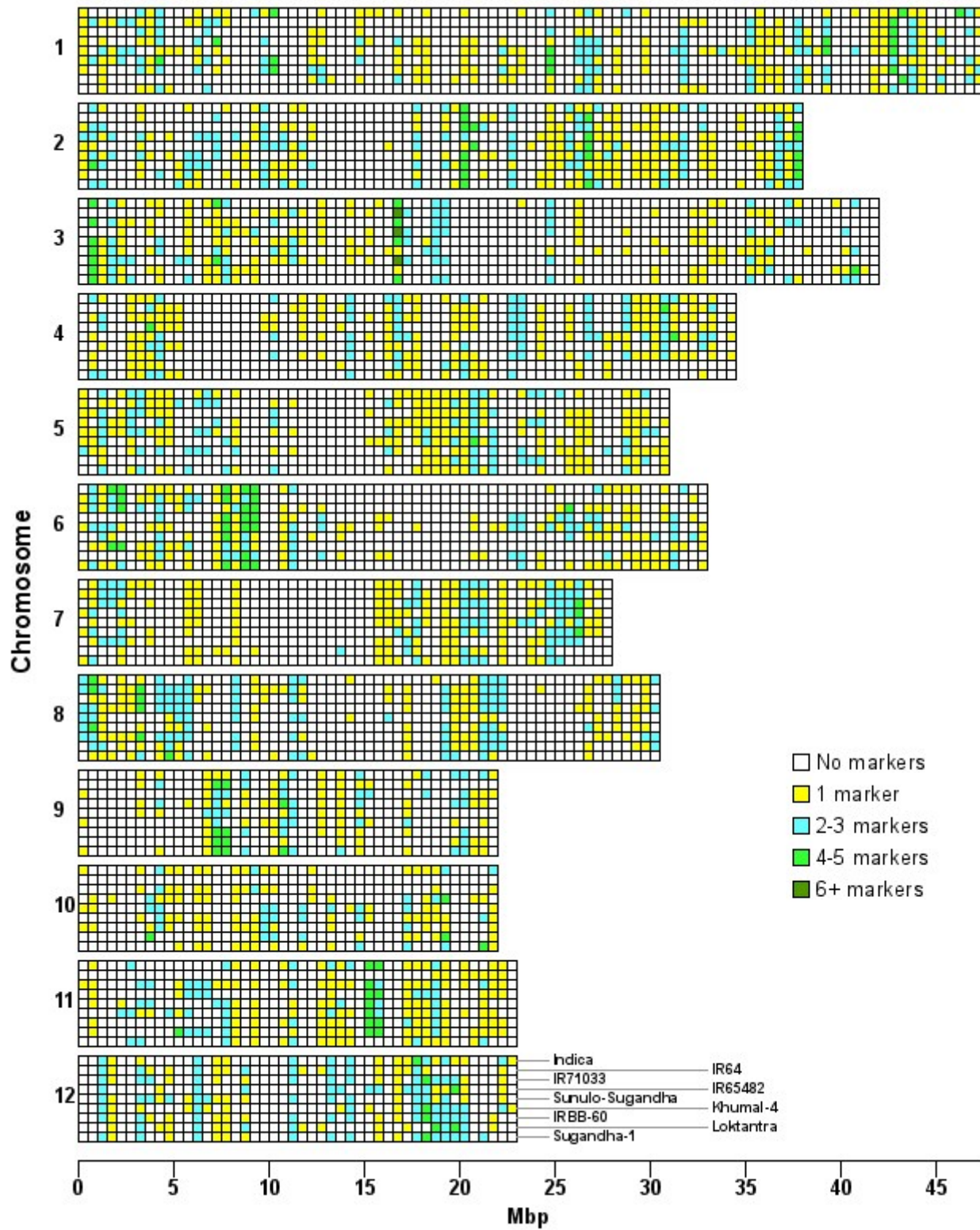
(c) IR65482



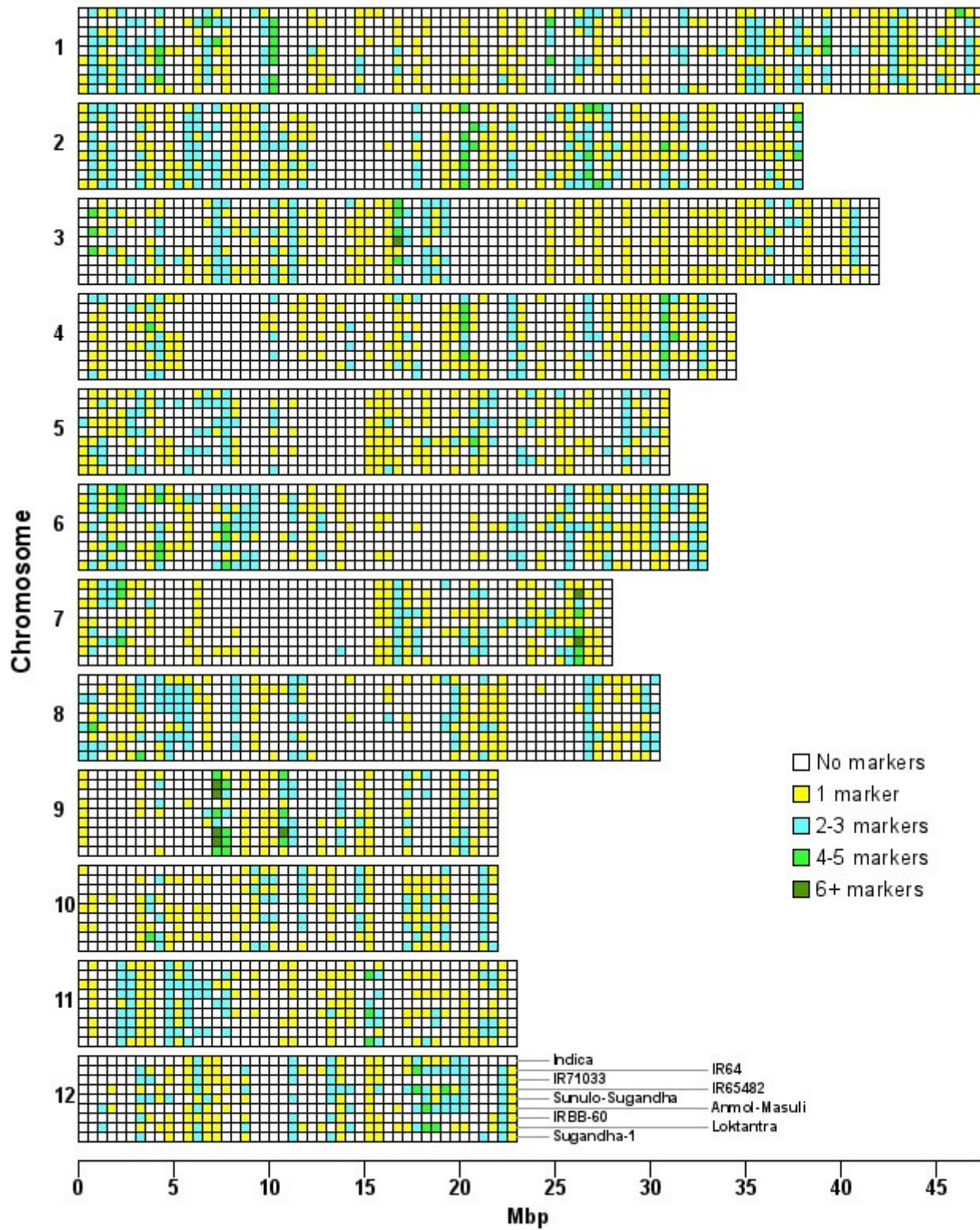
(d) Sunaulo Sugandha



(e) Anamol Masuli



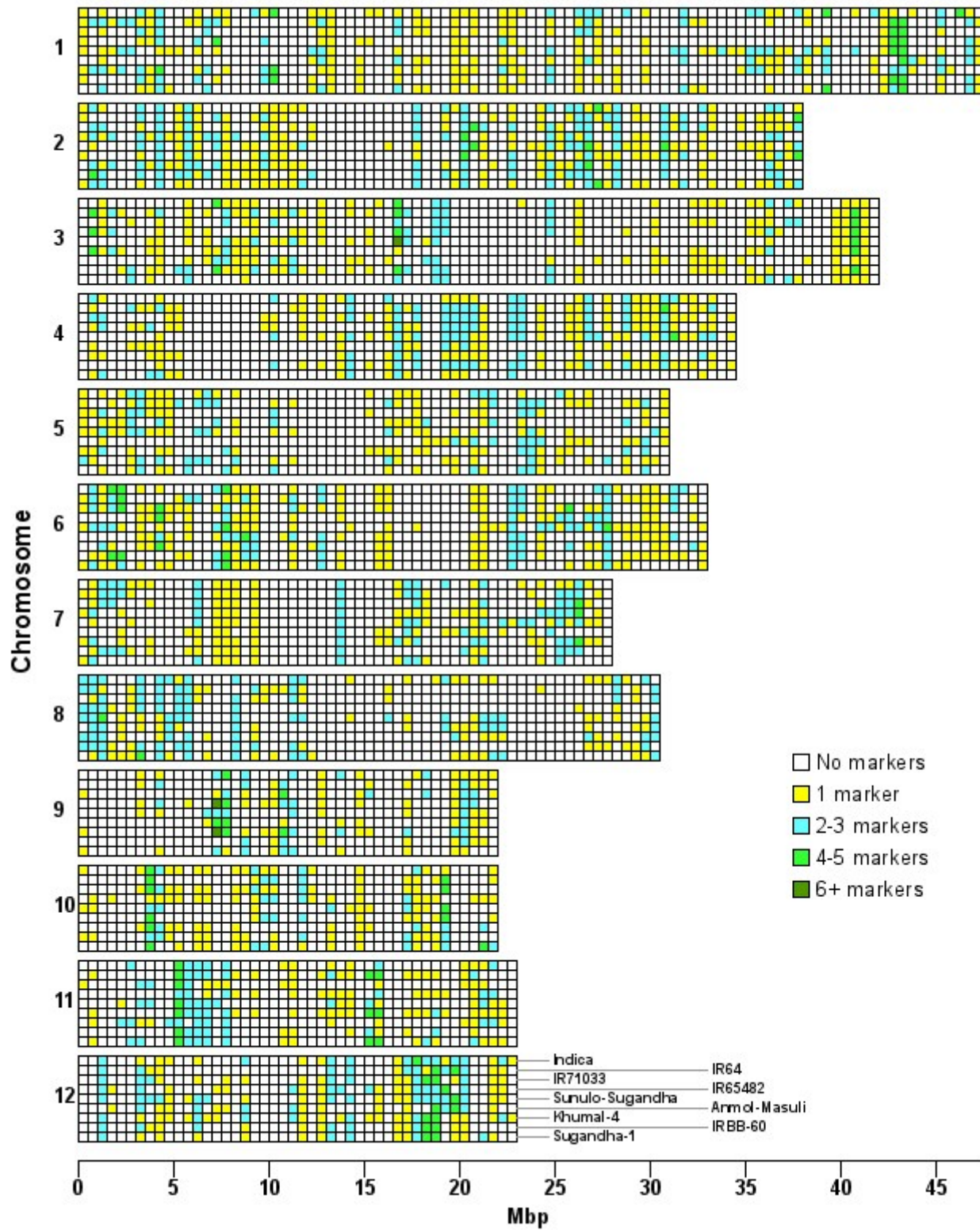
(f) Khumal-4



(g) IRBB-60



(h) Loktantra



(i) Sugandha-1

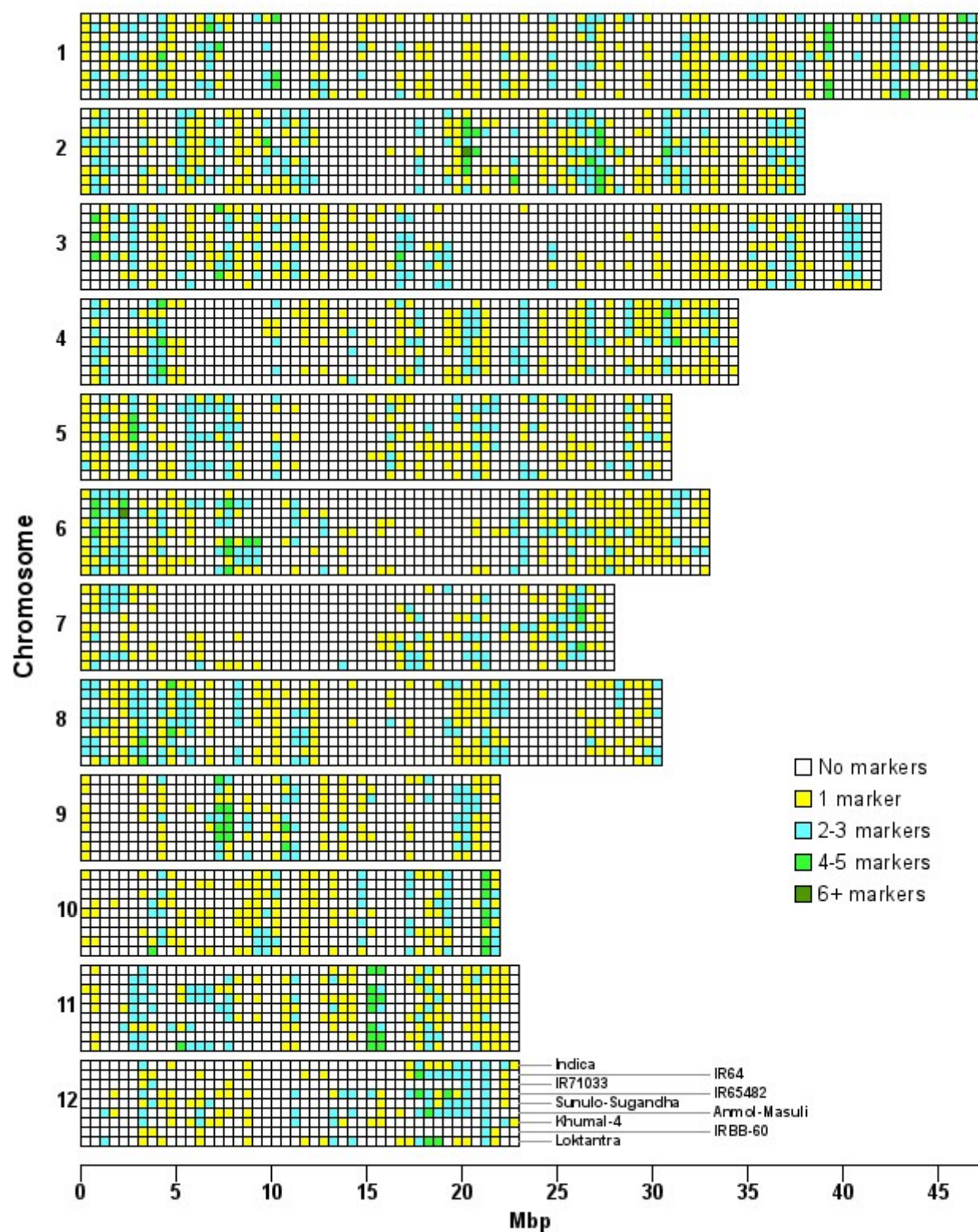


Fig. S6 Distribution of distances between consecutive informative KASP markers, for new and existing markers, for all combined pairwise combinations of rice lines used in this study. Vertical bars represent the medians with boxes extending from the 25th to 75th percentiles. Whiskers extend from the 5th to 95th percentiles, dots represent the minimum and maximum distances.

