Supplemental Table S1

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| --- | --- | --- | --- | --- |
| **Species** | **Voucher or Accession** | **GenBank** **Accession** | **Reference** | **GC Content (%)** |
| **Chloroplast** |  |  |  |  |
| *Sorghum bicolor* | BTx623 | EF115542.1 | Saski et al. 2007 | 38.5 |
| *Sarga timorense* |  | KF998272.1 | Kepers *et al*. (submitter) | 38.5 |
| *Miscanthidium junceum* |  | LN869216 | Lloyd Evans, D. (submitter) | 38.4 |
| *Miscanthidium capense* | SASRI:Joshi1 | PRJEB17861 | Lloyd Evans, D. (submitter) | 38.4 |
| *Miscanthus floridulus* | PI295762 | LN869215.1 | Lloyd Evans, D. (submitter) | 38.4 |
| *Miscanthus sinensis* | Andante | LM735682 | Lloyd Evans, D. (submitter) | 38.4 |
| *Saccharum* hybrid | SP80-3280 | AE009947.2 | Calsa Jr *et al*. 2004 | 38.4 |
| *Saccharum* hybrid | SP80-3280 (transcriptomic) | Ibid |  | 38.4 |
| *Saccharum* hybrid | Q165 | LN896359.1 | Lloyd Evans and Joshi 2016 | 38.4 |
| *Saccharum* hybrid | SP70-1143 | Ibid |  | 38.4 |
| *Saccharum officinarum* | IJ76-514 | LN849913 | Lloyd Evans and Joshi 2016 | 38.4 |
| *Saccharum spontaneum* | SES196 | PRJEB20532 | Lloyd Evans et al. 2019 | 38.5 |
| *Saccharum spontaneum* | SES234B | LN849912.1 | Lloyd Evans, D. (submitter) | 38.4 |
| *Zea mays* | B73 | AY928077.1 | Schnable et al. 2009 | 38.5 |
| *Miscanthus sacchariflorus* | Hercules | LN869218.1 | Lloyd Evans, D. (submitter) | 38.4 |
|  |  |  |  |  |
| **Mitochondria** |  |  |  |  |
| *Saccharum* hybrid | Khon Kaen | LC107874.1 LC107875.1 | Shearman *et al*. 2016 | 43.82 |
| *Saccharum* hybrid | LCP85-384 | ibid |  | 43.82 |
| *Saccharum* hybrid | RB72454 | Ibid |  | 43.82 |
| *Saccharum* hybrid | SP70-1143 | Ibid |  | 43.83 |
| *Saccharum* hybrid | R570 | Ibid |  | 43.83 |
| *Saccharum officinarum* | IJ76-513 | Ibid |  | 43.07 |
| *Sorghum bicolor* | BTx623 | DQ984518.1 | Allen et al. 2007 | 43.73 |
| *Tripsacum dactyloides* | Pete | NC\_008362.1 | Allen et al. 2007 | 43.93 |
| *Zea mays* | mays | NC\_007982.1 | Clifton et al. 2004 | 43.93 |
| *Zea perennis* |  | DQ645538.1 | Allen et al. 2007 | 43.88 |
|  |  |  |  |  |
| **Whole Genome** |  |  |  |  |
| *Sorghum bicolor* | BTx623 |  | Paterson et al. 2008 | 41.4 |
| *Zea mays* | B73 |  | Schnable et al. 2009 | 47.2 |
| *Saccharum* hybrid | SP80-3280 | SRA:SRR1763296 |  | 42.7 |

Species name, voucher accession, GenBank accession and reference for plastomes, mitochondria and whole genomes analysed for GC content in this study. The final column gives the percentage GC content for the respective genome. The SRA accession is for the *Saccharum* hybrid SP80-3280 illumina virtual long read dataset.

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