**Table S1.** The top 50 stably expressed genes for different developmental stages of sugarcane female gametophyte (The FPKM values of the top 50 genes).

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Gene ID** | **AC** | **MMC** | **Meiosis** | **Mitosis** | **Mature** | **Mean** | **SD** | **CV** |
| Sspon.03G0028120 | 14.42  | 15.98  | 16.74  | 16.62  | 16.02  | 15.95  | 0.92  | 0.06  |
| Sspon.01G0006710 | 102.71  | 89.00  | 96.34  | 88.62  | 101.01  | 95.54  | 6.57  | 0.07  |
| Sspon.08G0004380 | 26.80  | 26.91  | 29.62  | 27.07  | 24.24  | 26.93  | 1.91  | 0.07  |
| Sspon.01G0037150 | 141.36  | 157.32  | 165.67  | 166.63  | 140.96  | 154.39  | 12.61  | 0.08  |
| Sspon.06G0026890 | 49.89  | 53.20  | 42.60  | 46.60  | 47.07  | 47.87  | 3.96  | 0.08  |
| Sspon.08G0021360 | 16.33  | 15.74  | 17.63  | 14.93  | 18.54  | 16.64  | 1.45  | 0.09  |
| Sspon.01G0020070 | 27.09  | 26.97  | 21.79  | 24.98  | 23.59  | 24.88  | 2.26  | 0.09  |
| Sspon.03G0026510 | 29.58  | 25.08  | 24.55  | 28.27  | 24.29  | 26.35  | 2.41  | 0.09  |
| Sspon.03G0047080 | 11.25  | 12.26  | 10.91  | 9.42  | 10.98  | 10.96  | 1.02  | 0.09  |
| Sspon.03G0004010 | 32.30  | 26.04  | 27.43  | 25.85  | 27.57  | 27.84  | 2.61  | 0.09  |
| Sspon.06G0031000 | 12.60  | 9.93  | 11.74  | 12.68  | 11.52  | 11.69  | 1.11  | 0.09  |
| Sspon.01G0010170 | 36.44  | 40.11  | 33.17  | 37.41  | 30.22  | 35.47  | 3.84  | 0.11  |
| Sspon.01G0039090 | 28.81  | 26.91  | 33.39  | 25.21  | 27.36  | 28.34  | 3.10  | 0.11  |
| Sspon.04G0009400 | 15.74  | 12.24  | 13.62  | 14.66  | 16.30  | 14.51  | 1.64  | 0.11  |
| Sspon.01G0047550 | 48.49  | 44.84  | 35.22  | 40.46  | 39.83  | 41.77  | 5.07  | 0.12  |
| Sspon.04G0012190 | 69.92  | 66.48  | 53.77  | 63.66  | 53.43  | 61.45  | 7.51  | 0.12  |
| Sspon.08G0013450 | 5.80  | 6.43  | 5.93  | 6.40  | 7.84  | 6.48  | 0.81  | 0.13  |
| Sspon.01G0002680 | 23.08  | 18.41  | 22.44  | 23.19  | 17.73  | 20.97  | 2.67  | 0.13  |
| Sspon.01G0060460 | 4.10  | 3.41  | 3.57  | 3.09  | 2.93  | 3.42  | 0.46  | 0.13  |
| Sspon.04G0015990 | 38.54  | 45.84  | 40.92  | 54.04  | 42.31  | 44.33  | 6.04  | 0.14  |
| Sspon.05G0016540 | 8.78  | 10.11  | 9.77  | 9.10  | 6.89  | 8.93  | 1.25  | 0.14  |
| Sspon.03G0006680 | 14.69  | 19.98  | 17.55  | 20.34  | 15.84  | 17.68  | 2.49  | 0.14  |
| Sspon.01G0028420 | 14.66  | 13.15  | 11.43  | 13.85  | 10.25  | 12.67  | 1.80  | 0.14  |
| Sspon.02G0034560 | 77.31  | 76.15  | 100.34  | 70.52  | 87.37  | 82.34  | 11.75  | 0.14  |
| Sspon.04G0004910 | 81.46  | 94.69  | 76.15  | 88.38  | 109.30  | 90.00  | 12.86  | 0.14  |
| Sspon.02G0032880 | 18.16  | 23.68  | 23.09  | 27.53  | 24.73  | 23.44  | 3.41  | 0.15  |
| Sspon.01G0058250 | 8.58  | 7.43  | 10.76  | 10.54  | 9.24  | 9.31  | 1.39  | 0.15  |
| Sspon.02G0019370 | 40.96  | 38.76  | 30.39  | 32.11  | 29.69  | 34.38  | 5.14  | 0.15  |
| Sspon.02G0036810 | 12.70  | 13.24  | 12.12  | 11.16  | 8.80  | 11.60  | 1.74  | 0.15  |
| Sspon.03G0011200 | 55.93  | 57.27  | 60.51  | 78.76  | 58.25  | 62.14  | 9.44  | 0.15  |
| Sspon.01G0058290 | 2.65  | 2.99  | 2.20  | 2.82  | 2.09  | 2.55  | 0.39  | 0.15  |
| Sspon.07G0006260 | 61.00  | 58.73  | 67.38  | 78.47  | 52.61  | 63.64  | 9.83  | 0.15  |
| Sspon.03G0031670 | 12.13  | 11.71  | 10.83  | 12.75  | 8.31  | 11.15  | 1.73  | 0.16  |
| Sspon.02G0024360 | 15.11  | 13.01  | 19.93  | 17.25  | 16.42  | 16.34  | 2.56  | 0.16  |
| Sspon.04G0027790 | 158.54  | 194.95  | 243.50  | 226.53  | 206.44  | 205.99  | 32.41  | 0.16  |
| Sspon.08G0006390 | 56.59  | 53.24  | 52.00  | 36.63  | 54.35  | 50.56  | 7.97  | 0.16  |
| Sspon.01G0008680 | 8.64  | 6.97  | 6.75  | 5.66  | 7.86  | 7.17  | 1.13  | 0.16  |
| Sspon.01G0037490 | 11.08  | 9.90  | 12.20  | 8.05  | 11.82  | 10.61  | 1.68  | 0.16  |
| Sspon.01G0026700 | 55.06  | 56.64  | 60.75  | 79.58  | 59.54  | 62.32  | 9.91  | 0.16  |
| Sspon.01G0061760 | 53.25  | 48.68  | 45.83  | 36.54  | 38.02  | 44.46  | 7.09  | 0.16  |
| Sspon.02G0014930 | 131.61  | 120.24  | 129.00  | 101.15  | 88.81  | 114.16  | 18.53  | 0.16  |
| Sspon.03G0007480 | 35.28  | 29.20  | 44.99  | 33.98  | 39.33  | 36.56  | 5.94  | 0.16  |
| Sspon.04G0035680 | 20.47  | 13.54  | 18.96  | 20.48  | 20.96  | 18.88  | 3.08  | 0.16  |
| Sspon.08G0011000 | 6.58  | 7.04  | 7.42  | 6.89  | 4.69  | 6.52  | 1.07  | 0.16  |
| Sspon.04G0006940 | 7.40  | 6.96  | 9.01  | 9.14  | 6.24  | 7.75  | 1.28  | 0.17  |
| Sspon.05G0027110 | 7.61  | 5.80  | 8.88  | 7.58  | 6.39  | 7.25  | 1.20  | 0.17  |
| Sspon.02G0048080 | 58.90  | 42.22  | 51.01  | 47.00  | 63.62  | 52.55  | 8.70  | 0.17  |
| Sspon.04G0024790 | 58.87  | 67.22  | 64.49  | 62.62  | 42.39  | 59.12  | 9.83  | 0.17  |
| Sspon.01G0003150 | 9.31  | 14.41  | 11.06  | 13.52  | 12.49  | 12.16  | 2.02  | 0.17  |
| Sspon.07G0005340 | 45.98  | 36.90  | 44.41  | 54.48  | 56.75  | 47.70  | 8.04  | 0.17  |

Note: The name and ID of these genes is from the Saccharum Genome Database.

(http://sugarcane.zhangjisenlab.cn/sgd/html/index.html )