|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Supplemental Table S1 The FPKM values of genes at different time points after light treatment.** | | | | | | | | | | | | | | | | |
| **Gene** | **0 h Leaf** | **0.5 h Leaf** | **1 h Leaf** | **2 h Leaf** | **4 h Leaf** | **8 h Leaf** | **16 h Leaf** | **32 h Leaf** | **0 h Root** | **0.5 h Root** | **1 h Root** | **2 h Root** | **4 h Root** | **8 h Root** | **16 h Root** | **32 h Root** |
| ***LOX*** | 107.13 | 56.81 | 77.48 | 81.15 | 70.49 | 72.56 | 52.47 | 54.34 | 366.62 | 296.92 | 397.71 | 318.02 | 283.79 | 259.49 | 202.07 | 232.98 |
| ***AOS*** | 1.80 | 15.65 | 8.49 | 4.51 | 2.19 | 2.26 | 1.69 | 2.49 | 15.79 | 29.13 | 29.65 | 23.55 | 27.48 | 22.63 | 21.22 | 23.13 |
| ***AOC*** | 4.84 | 44.25 | 22.52 | 9.24 | 5.39 | 4.36 | 5.30 | 12.67 | 32.74 | 40.24 | 55.24 | 48.29 | 57.19 | 40.56 | 45.53 | 63.77 |
| ***OPR3*** | 55.90 | 40.03 | 38.26 | 43.82 | 28.12 | 27.73 | 29.24 | 26.68 | 56.87 | 68.36 | 71.45 | 74.43 | 50.70 | 48.45 | 41.77 | 39.52 |
| ***JMT*** | 0.62 | 0.69 | 1.58 | 3.18 | 1.94 | 1.72 | 1.59 | 1.74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ***JAR*** | 17.96 | 21.38 | 31.75 | 40.14 | 34.41 | 29.86 | 26.37 | 40.11 | 27.29 | 21.04 | 21.80 | 28.66 | 29.46 | 28.42 | 25.61 | 32.70 |
| ***HMGS*** | 17.05 | 77.08 | 92.20 | 62.31 | 47.98 | 38.93 | 39.85 | 46.55 | 52.14 | 119.65 | 168.36 | 165.42 | 112.09 | 56.59 | 101.24 | 98.44 |
| ***HMGR*** | 64.26 | 29.59 | 18.24 | 21.43 | 11.82 | 9.41 | 12.77 | 11.94 | 34.80 | 22.76 | 28.33 | 23.60 | 20.56 | 27.55 | 26.85 | 27.63 |
| ***MK*** | 4.55 | 9.50 | 10.45 | 8.66 | 5.85 | 5.55 | 4.99 | 5.40 | 10.36 | 20.01 | 23.70 | 22.43 | 19.23 | 11.93 | 17.52 | 16.01 |
| ***PMK*** | 21.84 | 60.70 | 43.21 | 19.54 | 14.45 | 16.08 | 13.59 | 12.83 | 36.74 | 60.10 | 52.62 | 43.55 | 35.58 | 27.17 | 31.88 | 35.05 |
| ***MVD*** | 15.90 | 52.02 | 70.78 | 46.00 | 19.57 | 19.36 | 16.22 | 20.05 | 52.43 | 72.66 | 109.31 | 115.84 | 67.00 | 40.15 | 58.91 | 70.45 |
| ***DXS2*** | 18.54 | 18.95 | 20.82 | 10.69 | 9.96 | 11.02 | 10.58 | 20.37 | 52.74 | 79.56 | 94.39 | 76.58 | 60.78 | 61.15 | 42.12 | 79.80 |
| ***DXR1*** | 31.01 | 42.99 | 68.31 | 70.21 | 83.47 | 62.79 | 75.05 | 72.92 | 31.74 | 45.73 | 63.25 | 67.79 | 53.92 | 46.46 | 41.30 | 55.19 |
| ***MCT*** | 27.36 | 29.01 | 34.00 | 34.72 | 47.92 | 45.15 | 49.16 | 48.79 | 20.53 | 16.24 | 17.90 | 17.71 | 21.06 | 19.32 | 22.79 | 25.11 |
| ***CMK*** | 8.99 | 12.69 | 16.74 | 19.22 | 23.24 | 19.40 | 21.54 | 21.81 | 16.26 | 22.98 | 23.80 | 24.12 | 24.59 | 22.54 | 20.19 | 23.45 |
| ***MDS1*** | 53.15 | 56.64 | 63.29 | 68.70 | 60.94 | 48.17 | 61.73 | 70.43 | 31.90 | 44.30 | 43.45 | 41.93 | 34.34 | 31.04 | 23.26 | 31.22 |
| ***MDS2*** | 1.58 | 6.85 | 8.74 | 7.69 | 8.99 | 4.38 | 4.75 | 1.04 | 0.26 | 8.07 | 9.18 | 11.39 | 11.24 | 4.22 | 3.31 | 0.53 |
| ***HDS*** | 136.23 | 113.66 | 89.84 | 71.53 | 104.18 | 85.76 | 124.28 | 99.00 | 64.27 | 93.73 | 89.47 | 84.24 | 80.70 | 74.66 | 64.01 | 84.40 |
| ***HDR1*** | 99.03 | 150.46 | 139.35 | 97.85 | 101.62 | 99.74 | 107.30 | 101.33 | 80.60 | 122.24 | 134.35 | 142.18 | 136.03 | 113.89 | 109.48 | 164.69 |
| ***HDR2*** | 82.52 | 197.44 | 369.90 | 338.22 | 327.43 | 57.85 | 155.20 | 108.74 | 2.76 | 6.30 | 4.70 | 7.04 | 6.78 | 6.83 | 6.47 | 7.55 |
| ***IDI*** | 45.80 | 79.51 | 109.55 | 97.53 | 64.70 | 67.59 | 54.24 | 65.60 | 118.90 | 208.55 | 254.85 | 265.04 | 190.00 | 128.24 | 147.04 | 133.56 |
| **Gene** | **0 h Leaf** | **0.5 h Leaf** | **1 h Leaf** | **2 h Leaf** | **4 h Leaf** | **8 h Leaf** | **16 h Leaf** | **32 h Leaf** | **0 h Root** | **0.5 h Root** | **1 h Root** | **2 h Root** | **4 h Root** | **8 h Root** | **16 h Root** | **32 h Root** |
| ***GGPPS*** | 26.07 | 74.24 | 60.95 | 39.66 | 39.67 | 52.08 | 55.70 | 49.82 | 38.55 | 62.38 | 73.18 | 76.35 | 65.23 | 53.06 | 46.01 | 61.37 |
| ***CPS1*** | 4.25 | 7.41 | 8.33 | 3.14 | 2.02 | 2.88 | 2.15 | 2.12 | 55.00 | 87.01 | 90.55 | 80.28 | 77.19 | 74.19 | 56.48 | 81.47 |
| ***KSL1*** | 4.49 | 23.85 | 22.35 | 7.33 | 3.72 | 4.64 | 3.49 | 3.10 | 14.38 | 27.95 | 31.26 | 23.84 | 19.26 | 14.71 | 15.18 | 20.32 |
| ***AH1*** | 21.82 | 47.15 | 46.06 | 21.73 | 11.11 | 12.77 | 7.58 | 8.60 | 190.04 | 210.57 | 280.13 | 261.76 | 203.61 | 210.93 | 151.08 | 216.75 |
| ***AH3*** | 13.13 | 13.36 | 11.99 | 8.65 | 5.55 | 5.90 | 5.61 | 6.04 | 20.72 | 56.20 | 46.63 | 47.65 | 60.70 | 42.78 | 35.50 | 57.60 |
| ***AK1*** | 1.36 | 1.28 | 0.94 | 1.29 | 1.38 | 1.20 | 1.02 | 1.43 | 46.75 | 51.19 | 60.01 | 57.42 | 59.43 | 62.70 | 42.58 | 74.65 |
| ***373*** | 0.79 | 0.85 | 1.45 | 1.26 | 1.62 | 1.37 | 0.93 | 0.86 | 19.84 | 22.75 | 30.45 | 34.65 | 29.36 | 33.92 | 23.59 | 39.45 |
| ***375*** | 2.85 | 2.79 | 3.43 | 3.44 | 2.58 | 1.75 | 1.08 | 1.35 | 34.46 | 36.59 | 51.44 | 47.36 | 39.39 | 36.65 | 24.48 | 36.89 |
| ***TIIAS*** | 0.00 | 0.00 | 0.08 | 0.06 | 0.11 | 0.00 | 0.06 | 0.05 | 16.85 | 13.33 | 18.24 | 17.82 | 21.37 | 52.16 | 39.51 | 59.77 |
| ***HY5*** | 0.57 | 9.95 | 43.38 | 26.14 | 12.43 | 10.87 | 10.32 | 9.90 | 0.46 | 1.16 | 1.45 | 2.68 | 1.42 | 2.00 | 0.95 | 1.19 |
| ***BBX18*** | 9.78 | 33.20 | 83.45 | 92.46 | 70.22 | 18.93 | 37.11 | 25.39 | 7.12 | 8.56 | 11.82 | 12.64 | 12.81 | 10.39 | 12.83 | 10.64 |
| ***BBX19*** | 10.90 | 12.73 | 18.87 | 20.57 | 14.89 | 9.52 | 13.62 | 9.48 | 14.92 | 12.48 | 13.41 | 17.66 | 22.06 | 23.74 | 21.84 | 21.35 |
| ***BBX20*** | 2.27 | 5.02 | 2.64 | 0.50 | 0.94 | 1.34 | 0.59 | 0.74 | 0.90 | 0.55 | 0.38 | 0.72 | 1.28 | 0.83 | 0.82 | 1.44 |
| ***BBX21*** | 0.74 | 1.31 | 1.24 | 1.60 | 0.85 | 0.83 | 0.81 | 0.82 | 16.02 | 13.75 | 15.43 | 19.75 | 18.26 | 19.83 | 17.33 | 22.70 |
| ***BBX22*** | 22.22 | 14.63 | 13.56 | 17.17 | 18.10 | 17.84 | 11.71 | 14.20 | 19.29 | 19.59 | 21.26 | 14.63 | 11.23 | 7.77 | 8.85 | 7.48 |
| ***BBX23*** | 0.17 | 0.14 | 0.00 | 0.27 | 0.00 | 0.04 | 0.04 | 0.04 | 0.19 | 0.24 | 0.06 | 0.12 | 0.10 | 0.23 | 0.24 | 0.00 |
| ***BBX24*** | 23.38 | 109.29 | 133.42 | 103.96 | 76.64 | 27.20 | 28.81 | 23.46 | 6.74 | 9.51 | 8.86 | 9.00 | 5.19 | 4.71 | 5.06 | 5.02 |