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| **Supplemental Table S1 The FPKM values of genes at different time points after light treatment.** |
| **Gene** | **0 hLeaf** | **0.5 hLeaf** | **1 hLeaf** | **2 hLeaf** | **4 hLeaf** | **8 hLeaf** | **16 hLeaf** | **32 hLeaf** | **0 hRoot** | **0.5 hRoot** | **1 hRoot** | **2 hRoot** | **4 hRoot** | **8 hRoot** | **16 hRoot** | **32 hRoot** |
| ***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 hLeaf** | **0.5 hLeaf** | **1 hLeaf** | **2 hLeaf** | **4 hLeaf** | **8 hLeaf** | **16 hLeaf** | **32 hLeaf** | **0 hRoot** | **0.5 hRoot** | **1 hRoot** | **2 hRoot** | **4 hRoot** | **8 hRoot** | **16 hRoot** | **32 hRoot** |
| ***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  |