Table S4. Co-expression between PSD genes and transcription factors when using the top 50% highly expressed or bottom 50% expressed PSD genes to avoid the influence of expression level on co-expression analyses.

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| --- | --- | --- | --- |
| Top 50% | Mean co-expression level  | Standard deviation | Sample number |
| Layer 6  | 0.165 | 0.005 | 4848 |
| Layer 5  | 0.152 | 0.003 | 12524 |
| Layer 4  | 0.150 | 0.007 | 3636 |
| Layer 2/3  | 0.108 | 0.002 | 23836 |
| Layer 6 and layer 2/3 | p-value = 1.1 × 10-1 |
| Layer 6 and layer 4 | p-value < 2.2 × 10-16 |
| Layer 5 and layer 2/3 | p-value < 2.2 × 10-16 |
| Layer 5 and layer 4 | p-value = 4.9 × 10-2 |

|  |  |  |  |
| --- | --- | --- | --- |
| Bottom 50% | Mean co-expression level  | Standard deviation | Sample number |
| Layer 6  | 0.149 | 0.006 | 4044 |
| Layer 5  | 0.134 | 0.003 | 10447 |
| Layer 4  | 0.117 | 0.007 | 3033 |
| Layer 2/3  | 0.105 | 0.002 | 19883 |
| Layer 6 and layer 2/3 | p-value < 2.2 × 10-16 |
| Layer 6 and layer 4 | p-value = 4.6 × 10-4 |
| Layer 5 and layer 2/3 | p-value = 7 × 10-11 |
| Layer 5 and layer 4 | p-value = 4.8 × 10-1 |