Table S4. Correlation analysis between TFs and diosgenin genes.

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| --- | --- | --- | --- |
| **Gene** | **TFs** | r2 | **p** |
| SQS\_3 | WRKY\_47317 | 0.992359 | 0.007641 |
| MVK\_2 | WRKY\_47317 | 0.997937 | 0.002063 |
| HMGCR\_5 | WRKY\_47317 | -0.97231 | 0.027695 |
| HMGCR\_4 | WRKY\_47317 | -0.97231 | 0.027695 |
| SQS\_1 | WRKY\_41758 | -0.97435 | 0.025653 |
| HMGCR\_7 | WRKY\_41758 | 0.995744 | 0.004256 |
| SMT1\_1 | MYB\_68709 | -0.97289 | 0.027109 |
| FPS\_3 | MYB\_68709 | 0.991127 | 0.008873 |
| IDI\_1 | MYB\_54596 | 0.981272 | 0.018728 |
| DXR | MYB\_54596 | -0.95843 | 0.041572 |
| HMGCR\_1 | MYB\_49715 | -0.9973 | 0.002697 |
| C14(R\_\_1 | MYB\_49715 | -0.98184 | 0.018161 |
| IDI\_1 | MYB\_48662 | 0.999298 | 0.000702 |
| DXR | MYB\_48662 | -0.99083 | 0.009172 |
| ispH | MYB\_44833 | -0.99161 | 0.008391 |
| IDI\_1 | MYB\_43761 | 0.99255 | 0.00745 |
| DXR | MYB\_43761 | -0.97536 | 0.024636 |
| CAS | MYB\_42341 | -0.96776 | 0.032235 |
| C14(R)\_1 | MYB\_42341 | -0.95976 | 0.04024 |
| HMGCR\_2 | MYB\_35762 | -0.99351 | 0.006485 |
| FPS\_1 | MYB\_35762 | -0.99876 | 0.001242 |
| AACT\_4 | MYB\_35762 | -0.95888 | 0.041117 |
| MVK\_3 | MYB\_34768 | -0.95371 | 0.046294 |
| IDI\_1 | MYB\_34768 | 0.986797 | 0.013203 |
| DXR | MYB\_34768 | -0.96969 | 0.030305 |
| IDI\_1 | MYB\_33730 | 0.985684 | 0.014316 |
| DXR | MYB\_33730 | -0.99756 | 0.002443 |
| MVK\_3 | bZIP\_54948 | -0.98408 | 0.015919 |
| MVD | bZIP\_54948 | -0.99951 | 0.00049 |
| HMGCR\_3 | bZIP\_54948 | 0.986815 | 0.013185 |
| HMGCR\_2 | bZIP\_54948 | -0.97298 | 0.027025 |
| FPS\_1 | bZIP\_54948 | -0.95949 | 0.040512 |
| C5(6)\_1 | bZIP\_54948 | -0.95786 | 0.042143 |
| IDI\_1 | bZIP\_53098 | 0.993705 | 0.006295 |
| DXR | bZIP\_53098 | -0.9775 | 0.022505 |
| HMGCR\_1 | bZIP\_51628 | 0.991839 | 0.008161 |
| MVK\_3 | bZIP\_51615 | -0.97238 | 0.027619 |
| MVD | bZIP\_51615 | -0.95427 | 0.045733 |
| IDI\_1 | bZIP\_51615 | 0.977881 | 0.022119 |
| HMGCR\_3 | bZIP\_51615 | 0.954701 | 0.045299 |
| DXR | bZIP\_51615 | -0.962 | 0.037997 |
| MVD | bZIP\_48847 | -0.95372 | 0.046275 |
| HMGCR\_3 | bZIP\_48847 | 0.964563 | 0.035437 |
| HMGCR\_2 | bZIP\_48847 | -0.98978 | 0.010217 |
| FPS\_1 | bZIP\_48847 | -0.99555 | 0.004452 |
| HMGCR\_3 | bZIP\_47573 | 0.951615 | 0.048385 |
| HMGCR\_2 | bZIP\_47573 | -0.95476 | 0.045235 |
| HMGCR\_1 | bZIP\_47573 | -0.97214 | 0.027858 |
| FPS\_1 | bZIP\_47573 | -0.96906 | 0.030943 |
| IDI\_1 | bZIP\_43343 | 0.95371 | 0.04629 |
| ispH | bZIP\_35672 | -0.99676 | 0.003236 |
| IDI\_1 | bHLH\_51919 | 0.993634 | 0.006366 |
| DXR | bHLH\_51919 | -0.97958 | 0.020424 |
| SMT1\_1 | bHLH\_51169 | -0.9535 | 0.046497 |
| FPS\_3 | bHLH\_51169 | 0.993078 | 0.006922 |
| MVK\_3 | bHLH\_40183 | -0.97388 | 0.026116 |
| MVD | bHLH\_40183 | -0.95059 | 0.049406 |
| IDI\_1 | bHLH\_40183 | 0.972966 | 0.027034 |
| DXR | bHLH\_40183 | -0.95382 | 0.046175 |
| HMGCR\_1 | bHLH\_30724 | -0.97842 | 0.021579 |
| FPS\_1 | bHLH\_30724 | -0.95999 | 0.040013 |
| HMGCR\_2 | AUX/IAA\_52748 | -0.98593 | 0.014075 |
| FPS\_1 | AUX/IAA\_52748 | -0.98628 | 0.013716 |
| SQS\_1 | AUX/IAA\_46788 | -0.95028 | 0.049715 |
| MVK\_3 | AUX/IAA\_46788 | -0.95158 | 0.048421 |
| ispH | AUX/IAA\_46788 | -0.96481 | 0.035187 |
| MVK\_3 | AP2/ERF-ERF\_54001 | -0.98057 | 0.01943 |
| MVD | AP2/ERF-ERF\_54001 | -0.98437 | 0.015626 |
| IDI\_1 | AP2/ERF-ERF\_54001 | 0.961966 | 0.038034 |
| HMGCR\_3 | AP2/ERF-ERF\_54001 | 0.988074 | 0.011926 |
| DXR | AP2/ERF-ERF\_54001 | -0.95745 | 0.04255 |
| CAS | AP2/ERF-ERF\_50781 | -0.96025 | 0.039753 |
| CAS | AP2/ERF-ERF\_48262 | -0.9745 | 0.025495 |
| DXS | AP2/ERF-ERF\_46596 | 0.958767 | 0.041233 |
| CAS | AP2/ERF-ERF\_46596 | -0.98629 | 0.013708 |
| SMT1\_3 | AP2/ERF-ERF\_45020 | -0.97774 | 0.022263 |
| C14(R)\_1 | AP2/ERF-ERF\_45020 | -0.97187 | 0.028129 |
| AACT\_4 | AP2/ERF-ERF\_45020 | -0.96856 | 0.03144 |
| SMT1\_3 | AP2/ERF-ERF\_43923 | -0.97783 | 0.022169 |
| C14(R)\_1 | AP2/ERF-ERF\_43923 | -0.95005 | 0.049954 |
| AACT\_4 | AP2/ERF-ERF\_43923 | -0.9822 | 0.017801 |
| MVD | AP2/ERF-ERF\_36828 | -0.95459 | 0.045407 |
| IDI\_1 | AP2/ERF-ERF\_36828 | 0.988062 | 0.011938 |
| HMGCR\_3 | AP2/ERF-ERF\_36828 | 0.973803 | 0.026197 |
| DXR | AP2/ERF-ERF\_36828 | -0.98697 | 0.013033 |