**Table S2** Co-expression modules and genes in each modules

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Modules**  **Gene** | **Blue** | **Brown** | **Green** | **Turquoise** | **Yellow** |
|  | 102388915 | 102388915 | 102388915 | 102388915 | 102388987 |
|  | 102388917 | 102388917 | 102388917 | 102388917 | 102389122 |
|  | 102388921 | 102388921 | 102388921 | 102388921 | 102389341 |
|  | 102388950 | 102388950 | 102388950 | 102388950 | 102389343 |
|  | 102389016 | 102389016 | 102389016 | 102389016 | 102389732 |
|  | 102389031 | 102389031 | 102389031 | 102389031 | 102390350 |
|  | 102389065 | 102389065 | 102389065 | 102389065 | 102390530 |
|  | 102389208 | 102389208 | 102389208 | 102389208 | 102390863 |
|  | 102389279 | 102389279 | 102389279 | 102389279 | 102391049 |
|  | 102389349 | 102389349 | 102389349 | 102389349 | 102391119 |
|  | 102389477 | 102389477 | 102389477 | 102389477 | 102391469 |
|  | 102389671 | 102389671 | 102389671 | 102389671 | 102391506 |
|  | 102389675 | 102389675 | 102389675 | 102389675 | 102391642 |
|  | 102389802 | 102389802 | 102389802 | 102389802 | 102391905 |
|  | 102390168 | 102390168 | 102390168 | 102390168 | 102392034 |
|  | 102390268 | 102390268 | 102390268 | 102390268 | 102392465 |
|  | 102390351 | 102390351 | 102390351 | 102390351 | 102392614 |
|  | 102390476 | 102390476 | 102390476 | 102390476 | 102393325 |
|  | 102390490 | 102390490 | 102390490 | 102390490 | 102394558 |
|  | 102390621 | 102390621 | 102390621 | 102390621 | 102394880 |
|  | 102390688 | 102390688 | 102390688 | 102390688 | 102394896 |
|  | 102390699 | 102390699 | 102390699 | 102390699 | 102395641 |
|  | 102390759 | 102390759 | 102390759 | 102390759 | 102395745 |
|  | 102390793 | 102390793 | 102390793 | 102390793 | 102396146 |
|  | 102390883 | 102390883 | 102390883 | 102390883 | 102396194 |
|  | 102390924 | 102390924 | 102390924 | 102390924 | 102396356 |
|  | 102390998 | 102390998 | 102390998 | 102390998 | 102396504 |
|  | 102391143 | 102391143 | 102391143 | 102391143 | 102396526 |
|  | 102391306 | 102391306 | 102391306 | 102391306 | 102396563 |
|  | 102391395 | 102391395 | 102391395 | 102391395 | 102396744 |
|  | 102391410 | 102391410 | 102391410 | 102391410 | 102396935 |
|  | 102391429 | 102391429 | 102391429 | 102391429 | 102397035 |
|  | 102391557 | 102391557 | 102391557 | 102391557 | 102397083 |
|  | 102391565 | 102391565 | 102391565 | 102391565 | 102397554 |
|  | 102391610 | 102391610 | 102391610 | 102391610 | 102397568 |
|  | 102391787 | 102391787 | 102391787 | 102391787 | 102397694 |
|  | 102391788 | 102391788 | 102391788 | 102391788 | 102397787 |
|  | 102391855 | 102391855 | 102391855 | 102391855 | 102397918 |
|  | 102391902 | 102391902 | 102391902 | 102391902 | 102397920 |
|  | 102391941 | 102391941 | 102391941 | 102391941 | 102398185 |
|  | 102392121 | 102392121 | 102392121 | 102392121 | 102398194 |
|  | 102392149 | 102392149 | 102392149 | 102392149 | 102398200 |
|  | 102392245 | 102392245 | 102392245 | 102392245 | 102398281 |
|  | 102392276 | 102392276 | 102392276 | 102392276 | 102398456 |
|  | 102392329 | 102392329 | 102392329 | 102392329 | 102398505 |
|  | 102392330 | 102392330 | 102392330 | 102392330 | 102398508 |
|  | 102392437 | 102392437 | 102392437 | 102392437 | 102398746 |
|  | 102392579 | 102392579 | 102392579 | 102392579 | 102399073 |
|  | 102392608 | 102392608 | 102392608 | 102392608 | 102399257 |
|  | 102392719 | 102392719 | 102392719 | 102392719 | 102399384 |
|  | 102392899 | 102392899 | 102392899 | 102392899 | 102399426 |
|  | 102392907 | 102392907 | 102392907 | 102392907 | 102399833 |
|  | 102393180 | 102393180 | 102393180 | 102393180 | 102400037 |
|  | 102393214 | 102393214 | 102393214 | 102393214 | 102400085 |
|  | 102393259 | 102393259 | 102393259 | 102393259 | 102400120 |
|  | 102393288 | 102393288 | 102393288 | 102393288 | 102400212 |
|  | 102393343 | 102393343 | 102393343 | 102393343 | 102400267 |
|  | 102393363 | 102393363 | 102393363 | 102393363 | 102400900 |
|  | 102393371 | 102393371 | 102393371 | 102393371 | 102400919 |
|  | 102393522 | 102393522 | 102393522 | 102393522 | 102401840 |
|  | 102393530 | 102393530 | 102393530 | 102393530 | 102402998 |
|  | 102393660 | 102393660 | 102393660 | 102393660 | 102403043 |
|  | 102394123 | 102394123 | 102394123 | 102394123 | 102403267 |
|  | 102394195 | 102394195 | 102394195 | 102394195 | 102403520 |
|  | 102394216 | 102394216 | 102394216 | 102394216 | 102403577 |
|  | 102394361 | 102394361 | 102394361 | 102394361 | 102404126 |
|  | 102394537 | 102394537 | 102394537 | 102394537 | 102404477 |
|  | 102394595 | 102394595 | 102394595 | 102394595 | 102404540 |
|  | 102394653 | 102394653 | 102394653 | 102394653 | 102405595 |
|  | 102394663 | 102394663 | 102394663 | 102394663 | 102405926 |
|  | 102394740 | 102394740 | 102394740 | 102394740 | 102405988 |
|  | 102394743 | 102394743 | 102394743 | 102394743 | 102406791 |
|  | 102394870 | 102394870 | 102394870 | 102394870 | 102406968 |
|  | 102394876 | 102394876 | 102394876 | 102394876 | 102407141 |
|  | 102394892 | 102394892 | 102394892 | 102394892 | 102407536 |
|  | 102394910 | 102394910 | 102394910 | 102394910 | 102408004 |
|  | 102395041 | 102395041 | 102395041 | 102395041 | 102408311 |
|  | 102395344 | 102395344 | 102395344 | 102395344 | 102408966 |
|  | 102395446 | 102395446 | 102395446 | 102395446 | 102409611 |
|  | 102395614 | 102395614 | 102395614 | 102395614 | 102409727 |
|  | 102395747 | 102395747 | 102395747 | 102395747 | 102410062 |
|  | 102395985 | 102395985 | 102395985 | 102395985 | 102411089 |
|  | 102396139 | 102396139 | 102396139 | 102396139 | 102411942 |
|  | 102396160 | 102396160 | 102396160 | 102396160 | 102412388 |
|  | 102396310 | 102396310 | 102396310 | 102396310 | 102412535 |
|  | 102396342 | 102396342 | 102396342 | 102396342 | 102412544 |
|  | 102396349 | 102396349 | 102396349 | 102396349 | 102412687 |
|  | 102396398 | 102396398 | 102396398 | 102396398 | 102413033 |
|  | 102396459 | 102396459 | 102396459 | 102396459 | 102413403 |
|  | 102396636 | 102396636 | 102396636 | 102396636 | 102414053 |
|  | 102396669 | 102396669 | 102396669 | 102396669 | 102414123 |
|  | 102396787 | 102396787 | 102396787 | 102396787 | 102414263 |
|  | 102396878 | 102396878 | 102396878 | 102396878 | 102414341 |
|  | 102396987 | 102396987 | 102396987 | 102396987 | 102414528 |
|  | 102397084 | 102397084 | 102397084 | 102397084 | 102415065 |
|  | 102397271 | 102397271 | 102397271 | 102397271 | 102415171 |
|  | 102397296 | 102397296 | 102397296 | 102397296 | 102415789 |
|  | 102397329 | 102397329 | 102397329 | 102397329 | 102416020 |
|  | 102397415 | 102397415 | 102397415 | 102397415 | 102416165 |
|  | 102397501 | 102397501 | 102397501 | 102397501 | 102416221 |
|  | 102397648 | 102397648 | 102397648 | 102397648 | 102416661 |
|  | 102397667 | 102397667 | 102397667 | 102397667 | 112580414 |
|  | 102397720 | 102397720 | 102397720 | 102397720 | 112582281 |
|  | 102397764 | 102397764 | 102397764 | 102397764 | BGI\_novel\_G000523 |
|  | 102397847 | 102397847 | 102397847 | 102397847 | BGI\_novel\_G000686 |
|  | 102398053 | 102398053 | 102398053 | 102398053 | BGI\_novel\_G001885 |
|  | 102398102 | 102398102 | 102398102 | 102398102 |  |
|  | 102398138 | 102398138 | 102398138 | 102398138 |  |
|  | 102398208 | 102398208 | 102398208 | 102398208 |  |
|  | 102398210 | 102398210 | 102398210 | 102398210 |  |
|  | 102398368 | 102398368 | 102398368 | 102398368 |  |
|  | 102398528 | 102398528 | 102398528 | 102398528 |  |
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|  | 102398592 | 102398592 | 102398592 | 102398592 |  |
|  | 102398616 | 102398616 | 102398616 | 102398616 |  |
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|  | 102398885 | 102398885 | 102398885 | 102398885 |  |
|  | 102398911 | 102398911 | 102398911 | 102398911 |  |
|  | 102398919 | 102398919 | 102398919 | 102398919 |  |
|  | 102399069 | 102399069 | 102399069 | 102399069 |  |
|  | 102399070 | 102399070 | 102399070 | 102399070 |  |
|  | 102399083 | 102399083 | 102399083 | 102399083 |  |
|  | 102399101 | 102399101 | 102399101 | 102399101 |  |
|  | 102399149 | 102399149 | 102399149 | 102399149 |  |
|  | 102399374 | 102399374 | 102399374 | 102399374 |  |
|  | 102399383 | 102399383 | 102399383 | 102399383 |  |
|  | 102399407 | 102399407 | 102399407 | 102399407 |  |
|  | 102399480 | 102399480 | 102399480 | 102399480 |  |
|  | 102399491 | 102399491 | 102399491 | 102399491 |  |
|  | 102399605 | 102399605 | 102399605 | 102399605 |  |
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|  | 102399777 | 102399777 | 102399777 | 102399777 |  |
|  | 102399780 | 102399780 | 102399780 | 102399780 |  |
|  | 102399863 | 102399863 | 102399863 | 102399863 |  |
|  | 102399965 | 102399965 | 102399965 | 102399965 |  |
|  | 102400023 | 102400023 | 102400023 | 102400023 |  |
|  | 102400168 | 102400168 | 102400168 | 102400168 |  |
|  | 102400234 | 102400234 | 102400234 | 102400234 |  |
|  | 102400272 | 102400272 | 102400272 | 102400272 |  |
|  | 102400396 | 102400396 | 102400396 | 102400396 |  |
|  | 102400406 | 102400406 | 102400406 | 102400406 |  |
|  | 102400547 | 102400547 | 102400547 | 102400547 |  |
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|  | 102400751 | 102400751 | 102400751 | 102400751 |  |
|  | 102400777 | 102400777 | 102400777 | 102400777 |  |
|  | 102400858 | 102400858 | 102400858 | 102400858 |  |
|  | 102400949 | 102400949 | 102400949 | 102400949 |  |
|  | 102400982 | 102400982 | 102400982 | 102400982 |  |
|  | 102401020 | 102401020 | 102401020 | 102401020 |  |
|  | 102401036 | 102401036 | 102401036 | 102401036 |  |
|  | 102401262 | 102401262 | 102401262 | 102401262 |  |
|  | 102401477 | 102401477 | 102401477 | 102401477 |  |
|  | 102401529 | 102401529 | 102401529 | 102401529 |  |
|  | 102401578 | 102401578 | 102401578 | 102401578 |  |
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|  | 102401601 | 102401601 | 102401601 | 102401601 |  |
|  | 102401614 | 102401614 | 102401614 | 102401614 |  |
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|  | 102401872 | 102401872 | 102401872 | 102401872 |  |
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|  | 102402308 | 102402308 | 102402308 | 102402308 |  |
|  | 102402334 | 102402334 | 102402334 | 102402334 |  |
|  | 102402360 | 102402360 | 102402360 | 102402360 |  |
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|  | 102403166 | 102403166 | 102403166 | 102403166 |  |
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|  | 102403922 | 102403922 | 102403922 | 102403922 |  |
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|  | 102406176 | 102406176 | 102406176 | 102406176 |  |
|  | 102406207 | 102406207 | 102406207 | 102406207 |  |
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|  | 102411773 | 102411773 | 102411773 | 102411773 |  |
|  | 102411912 | 102411912 | 102411912 | 102411912 |  |
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|  | 102412210 | 102412210 | 102412210 | 102412210 |  |
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|  | 102413053 | 102413053 | 102413053 | 102413053 |  |
|  | 102413101 | 102413101 | 102413101 | 102413101 |  |
|  | 102413142 | 102413142 | 102413142 | 102413142 |  |
|  | 102413190 | 102413190 | 102413190 | 102413190 |  |
|  | 102413206 | 102413206 | 102413206 | 102413206 |  |
|  | 102413218 | 102413218 | 102413218 | 102413218 |  |
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|  | 102413342 | 102413342 | 102413342 | 102413342 |  |
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|  | 102413572 | 102413572 | 102413572 | 102413572 |  |
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