Table S5. Repertoires of genes putatively related to the melanization pathway in *Ae. aegypti* female mosquitoes. Data from transcriptomes after - REL1-fat body specific ectopic expression (REL1); REL2-fat body specific ectopic expression (REL2), *Plasmodium gallinaceum*-infected mosquito midgut (Pg midgut); Pl. *gallinaceum*-infected mosquito fat body (Pg FB); RNAi depletion of PIAS; RNAi depletion of cactus (CAC); RNAi depletion of caspar (CASP)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| GENE ID | PNAME |  REL2 | REL1 | Pg midgut | Pg FB | PIAS | CAC | CASP | Name |
| AAEL002601 | CLIPA1 | 1.25 | 0.84 |   |   |   | 1.26 |   | Clip domain serine protease homolog |
| AAEL001675 | CLIPA10 |   |   |   |   |   |   |   | Clip domain serine protease homolog |
| AAEL002126 | CLIPA15 |   |   |   |   |   |   |   | Clip domain serine protease homolog |
| AAEL008404 | CLIPA16 |   | 0.85 |   |   |   | 0.92 |   | Clip domain serine protease homolog |
| AAEL007006 | CLIPA17 |   |   |   | -0.81 |   |   |   | Clip domain serine protease homolog |
| AAEL005718 | CLIPA3 |   |   | -1.04 |   |   |   |   | Clip domain serine protease homolog |
| AAEL002288 | CLIPA4 |   |   |   |   |   |   |   | Clip domain serine protease homolog |
| AAEL002301 | CLIPA5 |   | 0.90 | -1.20 |   |   | 0.93 |   | Clip domain serine protease homolog |
| AAEL002585 | CLIPA11 | 1.26 | 1.10 |   |   |   | 2.29 |   | Clip domain serine protease homolog |
| AAEL002590 | CLIPA12 |   |   |   |   |   | 0.84 |   | Clip domain serine protease homolog |
| AAEL002595 | CLIPA14 | 1.03 |   |   |   |   | 1.62 |   | Clip domain serine protease homolog |
| AAEL002629 | CLIPA6 |   | 0.81 | -0.84 |   |   | 1.81 |   | Clip domain serine protease homolog |
| AAEL000074 | CLIPB1 |   |   | -0.97 |   |   | 1.26 | -1.53 | Clip domain serine protease |
| AAEL003243 | CLIPB13A |   | 0.94 | -0.91 |   |   | 1.76 |   | Clip domain serine protease |
| AAEL003253 | CLIPB13B | 0.84 | 0.83 | -1.12 | -0.91 |   | 1.64 |   | Clip domain serine protease |
| AAEL014349 | CLIPB15 | 1.33 | 0.92 |   | 1.58 |   | 1.70 |   | Clip domain serine protease |
| AAEL005648 | CLIPB16 |   |   |   |   |   |   |   | Clip domain serine protease |
| AAEL000059 | CLIPB19 |   | 0.84 | 1.17 |   |   | 1.22 |   | Clip domain serine protease |
| AAEL001084 | CLIPB21 |   |   |   |   |   |   |   | Clip domain serine protease |
| AAEL008668 | CLIPB22 | 0.84 |   |   |   |   |   |   | Clip domain serine protease |
| AAEL012785 | CLIPB23 |   |   | -1.07 |   |   | 1.42 |   | Clip domain serine protease |
| AAEL014140 | CLIPB24 |   |   |   |   |   |   |   | Clip domain serine protease |
| AAEL014137 | CLIPB25 |   |   |   |   |   |   |   | Clip domain serine protease |
| AAEL003280 | CLIPB26 |   |   |   |   |   | 1.19 |   | Clip domain serine protease |
| AAEL007993 | CLIPB27 |   |   |   |   |   | 0.86 |   | Clip domain serine protease |
| AAEL013245 | CLIPB28 | 1.30 |   |   |   |   | 1.53 |   | Clip domain serine protease |
| AAEL006674 | CLIPB29 |   |   |   | 0.92 |   | 0.83 |   | Clip domain serine protease |
| AAEL000760 | CLIPB30 |   |   | -0.93 |   |   |   |   | Clip domain serine protease |
| AAEL006161 | CLIPB31 |   |   |   |   |   |   |   | Clip domain serine protease |
| AAEL000086 | CLIPB32 |   |   |   |   |   |   |   | Clip domain serine protease |
| AAEL000099 | CLIPB33 |   |   | -1.48 |   |   | 0.88 |   | Clip domain serine protease |
| AAEL000028 | CLIPB34 |   |   |   |   |   | 1.04 |   | Clip domain serine protease |
| AAEL000037 | CLIPB35 | 1.25 |   |   |   |   |   |   | Clip domain serine protease |
| AAEL005431 | CLIPB37 | 1.53 |   |   |   |   | 0.90 |   | Clip domain serine protease |
| AAEL003628 | CLIPB38 |   |   |   |   |   | 0.97 |   | Clip domain serine protease |
| AAEL003632 | CLIPB39 | 1.19 | 1.06 | 1.41 |   |   | 2.03 |   | Clip domain serine protease |
| AAEL003614 | CLIPB40 | 2.14 | 0.82 |   |   |   | 1.21 |   | Clip domain serine protease |
| AAEL003631 | CLIPB41 |   |   | 1.10 |   |   |   |   | Clip domain serine protease |
| AAEL006168 | CLIPB42 |   |   |   |   |   | 0.97 |   | Clip domain serine protease |
| AAEL014354 | CLIPB43 |   |   |   |   |   | 1.20 |   | Clip domain serine protease |
| AAEL005060 | CLIPB44 |   |   |   |   |   |   |   | Clip domain serine protease |
| AAEL001077 | CLIPB45 |   |   | -1.00 |   |   | 1.54 |   | Clip domain serine protease |
| AAEL005093 | CLIPB46 | 0.90 |   |   |   |   | 1.12 |   | Clip domain serine protease |
| AAEL005064 | CLIPB5 |   | 0.91 | -1.52 |   |   | 1.55 |   | Clip domain serine protease |
| AAEL000038 | CLIPB6-B36 | 0.90 |   |   |   |   | 1.44 |   | Clip domain serine protease |
| AAEL003625 | CLIPB8 |   |   |   |   |   |   |   | Clip domain serine protease |
| AAEL003610 | CLIPB9 |   |   |   |   |   |   |   | Clip domain serine protease |
| AAEL003642 | CLIPB10 | 1.42 |   |   | -0.85 |   | 1.00 |   | Clip domain serine protease |
| AAEL006371 | CLIPB47-76 |   |   |   |   |   |   |   | Clip domain serine protease |
| AAEL006427 | CLIPB48-77 |   |   |   |   |   |   |   | Clip domain serine protease |
| AAEL007992 | CLIPB49-78 |   |   |   |   |   | 2.03 |   | Clip domain serine protease |
| AAEL014139 | CLIPB50-79 | 1.18 | 1.16 |   |   |   | 2.34 | 0.84 | Clip domain serine protease |
| AAEL011991 | CLIPC1 |   |   | -1.03 |   |   | 1.30 |   | Clip domain serine protease |
| AAEL011593 | CLIPC11 |   |   |   |   |   | 1.11 |   | Clip domain serine protease |
| AAEL012711 | CLIPC12 |   |   |   | 0.82 |   |   |   | Clip domain serine protease |
| AAEL012712 | CLIPC13 |   |   |   |   |   | 1.54 |   | Clip domain serine protease |
| AAEL004948 | CLIPC14 |   |   | 0.84 |   |   |   | -0.95 | Clip domain serine protease |
| AAEL010270 | CLIPC15 |   |   |   |   |   |   |   | Clip domain serine protease |
| AAEL012713 | CLIPC16 |   |   |   |   |   |   |   | Clip domain serine protease |
| AAEL007593 | CLIPC2 |   |   | -0.93 |   |   | 1.38 |   | Clip domain serine protease |
| AAEL007597 | CLIPC3 |   |   |   |   |   |   |   | Clip domain serine protease |
| AAEL004518 | CLIPC5A |   |   |   |   |   | 0.91 |   | Clip domain serine protease |
| AAEL004524 | CLIPC5B |   |   | -1.17 |   |   |   |   | Clip domain serine protease |
| AAEL004540 | CLIPC6 |   |   |   |   |   | 1.32 |   | Clip domain serine protease |
| AAEL007796 | CLIPD1 |   |   |   |   |   |   |   | Clip domain serine protease |
| AAEL015109 | CLIPD10 |   |   | -1.14 |   |   |   |   | Clip domain serine protease |
| AAEL011375 | CLIPD11 |   |   |   |   |   |   |   | Clip domain serine protease |
| AAEL004979 | CLIPD2 |   |   |   |   |   |   |   | Clip domain serine protease |
| AAEL002997 | CLIPD3 |   |   | -1.04 |   |   |   |   | Clip domain serine protease |
| AAEL002124 | CLIPD6 |   |   |   |   |   | -1.15 | -0.82 | Clip domain serine protease |
| AAEL015439 | CLIPD7 |   |   |   |   |   |   |   | Clip domain serine protease |
| AAEL000238 | CLIPD9 |   |   |   |   |   |   |   | Clip domain serine protease |
| AAEL010773 | CLIPE10 |   |   |   |   |   |   |   | Clip domain serine protease homolog |
| AAEL005800 | CLIPE11 |   |   |   |   |   | 2.64 |   | Clip domain serine protease homolog |
| AAEL005644 | CLIPE12 |   |   |   |   |   |   |   | Clip domain serine protease homolog |
| AAEL005792 | CLIPE8 | 2.28 |   |   |   |   | 1.85 |   | Clip domain serine protease homolog |
| AAEL001233 | CLIPE9 |   |   |   | 1.34 |   |   | -0.98 | Clip domain serine protease homolog |
| AAEL014079 | serpin-1 | 1.11 | 0.91 |   |   |   | 1.00 |   | serine protease inhibitor, serpin |
| AAEL002699 | serpin-7 |   |   | -1.14 |   |   |   |   | serine protease inhibitor, serpin |
| AAEL002720 | serpin-20 | 0.81 |   | -1.32 |   |   | 0.98 |   | serine protease inhibitor, serpin |
| AAEL002730 | serpin-21 |   |   | -0.86 |   |   |   |   | serine protease inhibitor, serpin |
| AAEL002715 | serpin-22 |   |   |   | 1.46 |   |   |   | serine protease inhibitor, serpin |
| AAEL011777 | serpin-8 | 0.87 | 0.85 |   | 0.96 |   | 1.38 |   | serine protease inhibitor, serpin |
| AAEL008364 | serpin-9 |   | 0.98 |   |   |   | 1.28 |   | serine protease inhibitor, serpin |
| AAEL007765 | serpin-10A |   |   |   | -0.83 |   | 0.84 |   | serine protease inhibitor, serpin |
| AAEL007765 | serpin-10B |   |   |   | -0.83 |   | 0.84 |   | serine protease inhibitor, serpin |
| AAEL007765 | serpin-10C |   |   |   | -0.83 |   | 0.84 |   | serine protease inhibitor, serpin |
| AAEL007765 | serpin-10D |   |   |   | -0.83 |   | 0.84 |   | serine protease inhibitor, serpin |
| AAEL014078 | serpin-2 | 0.99 |   |   |   |   |   | -2.03 | serine protease inhibitor, serpin |
| AAEL014138 | serpin-16 |   | 0.85 |   |   |   | 1.97 |   | serine protease inhibitor, serpin |
| AAEL005665 | serpin-3 |   |   |   |   |   | 1.15 |   | serine protease inhibitor, serpin |
| AAEL013933 | serpin-4B |   | 0.96 |   |   |   | 1.30 |   | serine protease inhibitor, serpin |
| AAEL013936 | serpin-4A | -1.77 |   | -0.98 |   |   | 1.43 |   | serine protease inhibitor, serpin |
| AAEL013937 | serpin-4C |   | 0.87 |   |   |   | 1.12 |   | serine protease inhibitor, serpin |
| AAEL013934 | serpin-4D |   |   |   | -0.87 |   | 0.91 |   | serine protease inhibitor, serpin |
| AAEL014141 | serpin-5 |   | 0.95 |   |   |   | 2.00 |   | serine protease inhibitor, serpin |
| AAEL010769 | serpin-6 |   |   |   | 0.98 |   | 1.63 |   | serine protease inhibitor, serpin |
| AAEL003686 | serpin-11 | 0.88 |   | -0.85 |   |   |   |   | serine protease inhibitor, serpin |
| AAEL003653 | serpin-12 |   |   |   |   |   |   |   | serine protease inhibitor, serpin |
| AAEL002731 | serpin-14 |   |   |   | 1.43 |   |   |   | serine protease inhibitor, serpin |
| AAEL002704 | serpin-23 | 0.91 |   |   |   |   | -0.92 |   | serine protease inhibitor, serpin |
| AAEL006137 | serpin-19 |   | 0.93 |   | 1.20 |   |   |   | serine protease inhibitor, serpin |
| AAEL007420 | serpin-25 |   |   |   |   |   |   |   | serine protease inhibitor, serpin |
| AAEL003697 | serpin-17 |   |   | -1.00 |   |   | 1.40 |   | serine protease inhibitor, serpin |
| AAEL003182 | serpin-26 |   |   |   |   |   |   |   | serine protease inhibitor, serpin |
| AAEL013498 | PPO1 |   |   |   | -0.86 |   |   |   | prophenoloxidase |
| AAEL011764 | PPO10 |   |   | -0.99 |   |   | -0.84 |   | prophenoloxidase |
| AAEL013499 | PPO2 |   |   |   |   |   |   |   | prophenoloxidase |
| AAEL013499 | PPO2 |   |   | -0.88 |   |   | 1.33 |   | prophenoloxidase |
| AAEL011763 | PPO3 |   |   |   |   |   | -1.16 |   | prophenoloxidase |
| AAEL013501/006877 | PPO4 |   |   | -0.91 | 1.14 |   |   |   | prophenoloxidase |
| AAEL013492 | PPO5 | -0.81 |   |   |   |   |   |   | prophenoloxidase |
| AAEL014544 | PPO6 |   |   |   | 1.11 |   |   |   | prophenoloxidase |
| AAEL013496 | PPO8 |   |   |   |   |   |   |   | prophenoloxidase |
| AAEL014837 | PPO9 |   |   | -0.94 |   |   |   |   | prophenoloxidase |
| AAEL013493 | PPO7 |   |   |   |   |   |   |   | prophenoloxidase |

Log2 transformed expression ratio data is shown.