**Supplementary file 2**

This extended table reports genome-wideSNPs associated with hatching phenotypes with

p-values < 0.0001 and < 1.64x10-5 (\*).The LD column indicates clusters of SNPs in strong disequilibrium with each other (R2 > 0.90) across our test strains.

|  |  |  |
| --- | --- | --- |
| LD | SNP | Silenced gene |
| 1 | II\_3364688 | *par-4* |
| 1 | II\_3364737 | *par-4* |
| 1 | II\_3376409 | *par-4* |
| 2 | II\_4031280 | *cdc-37\** |
| 2 | II\_4031387 | *cdc-37\** |
|  | II\_4046789 | *cdc-37\** |
| 3 | II\_4130005 | *cdc-37* |
| 3 | II\_4133328 | *cdc-37* |
| 4 | II\_13213557 | *pkc-3* |
| 4 | II\_13213572 | *pkc-3* |
| 5 | II\_14211984 | *mel-28\** |
| 5 | II\_14212004 | *mel-28\** |
| 5 | II\_14281696 | *mel-28\** |
|  | II\_14447416 | *mel-28\** |
|  | III\_1546635 | *mel-28*, *pkc-3*, *rfc-3\** |
| 6 | III\_1557458 | *rfc-3\** |
| 6 | III\_1557477 | *rfc-3\** |
| 6 | III\_1571083 | *rfc-3\** |
| 6 | III\_1571372 | *rfc-3\** |
| 7 | III\_2781109 | *mel-28* |
|  | III\_2864015 | *mel-28* |
| 7 | III\_2916993 | *mel-28* |
| 7 | III\_2952536 | *mel-28* |
| 7 | III\_2994261 | *mel-28* |
| 7 | III\_3051792 | *mel-28* |
|  | III\_3083616 | *mel-28* |
| 7 | III\_3380932 | *mel-28* |
| 8 | III\_3484647 | *mel-28\** |
| 9 | III\_3498885 | *mel-28* |
| 9 | III\_3501759 | *mel-28* |
|  | III\_3575034 | *mel-28\** |
| 8 | III\_3578690 | *mel-28\** |
| 8 | III\_3587469 | *mel-28\** |
|  | III\_3618213 | *rpn-10* |
|  | III\_3792289 | *mel-28* |
| 8 | III\_3894285 | *mel-28\** |
|  | III\_4210576 | *mel-28\** |
| 10 | III\_4539993 | *mel-28\** |
| 11 | III\_4540978 | *mel-28\** |
| 10 | III\_4695574 | *mel-28\** |
| 11 | III\_4786311 | *mel-28\** |
| 10 | III\_4836084 | *mel-28\** |
| 11 | III\_5269824 | *mel-28\** |
| 11 | III\_10456811 | *mel-28\** |
| 11 | III\_10456812 | *mel-28\** |
|  | IV\_3981542 | *car-1* |
|  | IV\_4062151 | *skn-1* |
| 12 | IV\_4071456 | *car-1\**, *mom-5*, *rpn-10*, *rpn-9\**, *skn-1\** |
|  | IV\_4081026 | *car-1\**, *rpn-9* |
| 12 | IV\_4086041 | *car-1\**, *mom-5*, *rpn-9\**, *rpn-10*, *skn-1\** |
| 13 | IV\_4096423 | *car-1* |
| 13 | IV\_4096424 | *car-1* |
| 14 | IV\_4258798 | *par-6* |
|  | IV\_4274791 | *rpn-10* |
| 14 | IV\_4307316 | *par-6* |
| 14 | IV\_4307503 | *par-6* |
| 14 | IV\_4362684 | *par-6* |
| 15 | IV\_5190341 | *car-1*, *mom-2* |
| 15 | IV\_5216441 | *car-1*, *mom-2* |
| 15 | IV\_5393585 | *car-1*, *mom-2* |
| 16 | IV\_5581671 | *car-1\** |
| 15 | IV\_5615328 | *car-1*, *mom-2* |
| 16 | IV\_5683718 | *car-1\** |
| 16 | IV\_5715800 | *car-1\** |
| 16 | IV\_5754103 | *car-1\** |
| 16 | IV\_5756507 | *car-1\** |
| 17 | IV\_6388961 | *car-1\**, *mom-2* |
| 17 | IV\_6664407 | *car-1\**, *mom-2* |
|  | IV\_6954170 | *car-1* |
| 18 | IV\_6966989 | *car-1*, *mom-2\** |
| 18 | IV\_7147497 | *mom-2* |
| 18 | IV\_7341696 | *mom-2* |
| 19 | IV\_7548446 | *car-1\** |
| 19 | IV\_8074405 | *car-1\** |
| 19 | IV\_8089586 | *car-1\** |
|  | IV\_8249673 | *car-1*, *par-6\** |
| 20 | IV\_8263671 | *mom-2* |
| 20 | IV\_8953909 | *mom-2* |
| 20 | IV\_9473809 | *mom-2* |
| 20 | IV\_9955132 | *mom-2* |
| 21 | IV\_10211735 | *mom-2* |
| 20 | IV\_10390698 | *mom-2* |
| 20 | IV\_10547451 | *mom-2* |
| 21 | IV\_10662438 | *mom-2* |
| 21 | IV\_10671512 | *mom-2* |
| 20 | IV\_10767228 | *mom-2* |
| 21 | IV\_10783635 | *mom-2* |
| 21 | IV\_10804503 | *mom-2* |
| 20 | IV\_11077450 | *mom-2* |
| 21 | IV\_11083410 | *mom-2* |
|  | IV\_12996729 | *mom-2* |
|  | IV\_13344021 | *mom-2* |
|  | V\_16284380 | *skr-2* |
| 22 | V\_16949076 | *lag-1* |
| 22 | V\_16949111 | *lag-1* |
| 22 | V\_16949115 | *lag-1* |
| 22 | V\_16949121 | *lag-1* |
| 22 | V\_16949123 | *lag-1* |
| 22 | V\_16965822 | *lag-1* |
|  | V\_18158643 | *par-2* |
| 23 | V\_19918177 | *mel-28* |
| 23 | V\_19920632 | *mel-28* |
| 23 | V\_19920646 | *mel-28* |
| 23 | V\_19920656 | *mel-28* |
| 23 | V\_19920657 | *mel-28* |
| 23 | V\_19925044 | *mel-28* |
| 23 | V\_19925047 | *mel-28* |
|  | V\_20191200 | *mel-28* |
| 23 | V\_20391136 | *mel-28* |
| 24 | X\_927222 | *pkc-3\**, *rfc-3* |
| 24 | X\_1016246 | *pkc-3\**, *rfc-3* |
| 25 | X\_1128868 | *rfc-3* |
| 25 | X\_1129768 | *rfc-3* |
| 24 | X\_1216610 | *pkc-3\**, *rfc-3* |
| 24 | X\_1218323 | *pkc-3\**, *rfc-3* |
| 25 | X\_1329775 | *rfc-3* |
| 24 | X\_1411338 | *pkc-3\**, *rfc-3* |
| 26 | X\_9069608 | *par-4* |
| 26 | X\_9088837 | *par-4* |
| 26 | X\_9179389 | *par-4* |
| 26 | X\_9273789 | *par-4* |
| 26 | X\_9291768 | *par-4* |
| 26 | X\_9350318 | *par-4* |
| 26 | X\_9401674 | *par-4* |
| 26 | X\_9497982 | *par-4* |
| 27 | X\_15977592 | *par-6* |
| 27 | X\_15977631 | *par-6* |
| 27 | X\_17475626 | *par-6* |
| 27 | X\_17478673 | *par-6* |