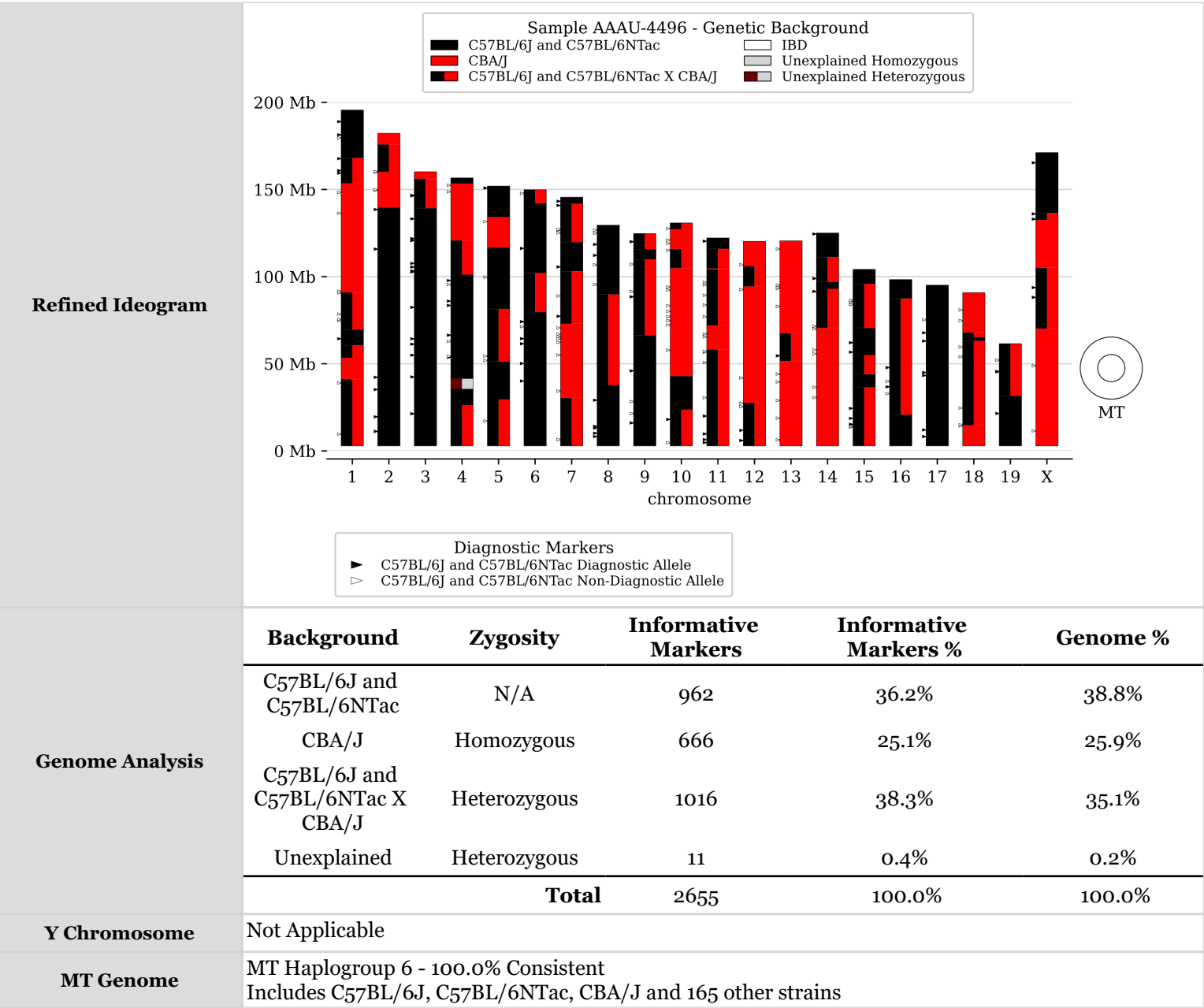


MiniMUGA Background Analysis v2.3.1

[illegible]

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| Backgrounds Detected (Diagnostic Alleles) | Diagnostic Alleles Observed | | | | |
|---|---|------------|--------------|------------------------------------|--------------|
| | Diagnostic Class | Homozygous | Heterozygous | Potential | % Observed |
| | C57BL/6J, C57BL/6JJicTac, C57BL/6JRj | 6 | 42 | 102 | 47.1% |
| | C57BL/6J, C57BL/6JRj | 5 | 6 | 31 | 35.5% |
| | C57BL/6J, C57BL/6JEiJ, C57BL/6JJicTac, C57BL/6JRj | 2 | 11 | 21 | 61.9% |
| | C57BL/6NRj, C57BL/6NTac | 2 | 7 | 15 | 60.0% |
| | C57BL/6NJ, C57BL/6NRj, C57BL/6NTac | 1 | 4 | 10 | 50.0% |
| | B6N-Tyr<c-Brd>/BrdCrCrl, C57BL/6J, C57BL/6JEiJ, C57BL/6JJicTac, C57BL/6JRj | 1 | 0 | 1 | 100.0% |
| | B6N-Tyr<c-Brd>/BrdCrCrl, C57BL/6NCrl, C57BL/6NHsd, C57BL/6NJ, C57BL/6NRj, C57BL/6NTac | 0 | 1 | 2 | 50.0% |
| | C57BL/6NRj | 0 | 1 | 10 | 10.0% |
| Minimal Strain Sets Explaining All Diagnostic Classes (Number of Markers Explained): | | | | | |
| <ul style="list-style-type: none">Solution 1: C57BL/6J and C57BL/6NRj<ul style="list-style-type: none">C57BL/6J: 73 / 155 (47.1%)C57BL/6NRj: 16 / 37 (43.2%)Solution 2: C57BL/6JRj and C57BL/6NRj<ul style="list-style-type: none">C57BL/6JRj: 73 / 155 (47.1%)C57BL/6NRj: 16 / 37 (43.2%) | | | | | |
| Diplotype Intervals | Chromosome | Start (Mb) | Stop (Mb) | Background | Zygosity |
| | 1 | 3000000 | 41199760 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 1 | 41199760 | 53457225 | CBA/J | Homozygous |
| | 1 | 53457225 | 60621237 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 1 | 60621237 | 69700765 | C57BL/6J and C57BL/6NTac | N/A |
| | 1 | 69700765 | 90903197 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 1 | 90903197 | 153548642 | CBA/J | Homozygous |
| | 1 | 153548642 | 168019536 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 1 | 168019536 | 195471971 | C57BL/6J and C57BL/6NTac | N/A |
| | 2 | 3000000 | 139631657 | C57BL/6J and C57BL/6NTac | N/A |
| | 2 | 139631657 | 160174252 | CBA/J | Homozygous |
| | 2 | 160174252 | 175780822 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 2 | 175780822 | 182113224 | CBA/J | Homozygous |
| | 3 | 3000000 | 139297311 | C57BL/6J and C57BL/6NTac | N/A |
| | 3 | 139297311 | 156090101 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 3 | 156090101 | 160039680 | CBA/J | Homozygous |
| | 4 | 3000000 | 26280383 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 4 | 26280383 | 35563307 | C57BL/6J and C57BL/6NTac | N/A |

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| | | | | | |
|--|----|-----------|-----------|------------------------------------|--------------|
| | 4 | 35563307 | 41348396 | Unexplained | Heterozygous |
| | 4 | 41348396 | 101144501 | C57BL/6J and C57BL/6NTac | N/A |
| | 4 | 101144501 | 120738488 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 4 | 120738488 | 153356388 | CBA/J | Homozygous |
| | 4 | 153356388 | 156508116 | C57BL/6J and C57BL/6NTac | N/A |
| | 5 | 30000000 | 29588943 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 5 | 29588943 | 51299144 | C57BL/6J and C57BL/6NTac | N/A |
| | 5 | 51299144 | 81363817 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 5 | 81363817 | 116795433 | C57BL/6J and C57BL/6NTac | N/A |
| | 5 | 116795433 | 134172373 | CBA/J | Homozygous |
| | 5 | 134172373 | 151834684 | C57BL/6J and C57BL/6NTac | N/A |
| | 6 | 30000000 | 79701235 | C57BL/6J and C57BL/6NTac | N/A |
| | 6 | 79701235 | 101966063 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 6 | 101966063 | 142043514 | C57BL/6J and C57BL/6NTac | N/A |
| | 6 | 142043514 | 149736546 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 7 | 30000000 | 30335112 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 7 | 30335112 | 72944748 | CBA/J | Homozygous |
| | 7 | 72944748 | 103084424 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 7 | 103084424 | 119823617 | C57BL/6J and C57BL/6NTac | N/A |
| | 7 | 119823617 | 141750158 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 7 | 141750158 | 145441459 | C57BL/6J and C57BL/6NTac | N/A |
| | 8 | 30000000 | 37790271 | C57BL/6J and C57BL/6NTac | N/A |
| | 8 | 37790271 | 89745720 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 8 | 89745720 | 129401213 | C57BL/6J and C57BL/6NTac | N/A |
| | 9 | 30000000 | 66341356 | C57BL/6J and C57BL/6NTac | N/A |
| | 9 | 66341356 | 109855467 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 9 | 109855467 | 115715944 | C57BL/6J and C57BL/6NTac | N/A |
| | 9 | 115715944 | 124595110 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 10 | 30000000 | 23654421 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 10 | 23654421 | 42917049 | C57BL/6J and C57BL/6NTac | N/A |
| | 10 | 42917049 | 104861956 | CBA/J | Homozygous |

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| | | | | | |
|--|----|-----------|-----------|---------------------------------------|--------------|
| | 10 | 104861956 | 115781736 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 10 | 115781736 | 127271560 | CBA/J | Homozygous |
| | 10 | 127271560 | 130694993 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 11 | 3000000 | 58168384 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 11 | 58168384 | 72044583 | CBA/J | Homozygous |
| | 11 | 72044583 | 104154012 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 11 | 104154012 | 104675339 | CBA/J | Homozygous |
| | 11 | 104675339 | 115896459 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 11 | 115896459 | 122082543 | C57BL/6J and C57BL/6NTac | N/A |
| | 12 | 3000000 | 27585493 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 12 | 27585493 | 94371165 | CBA/J | Homozygous |
| | 12 | 94371165 | 105994851 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 12 | 105994851 | 120129022 | CBA/J | Homozygous |
| | 13 | 3000000 | 51605798 | CBA/J | Homozygous |
| | 13 | 51605798 | 67442927 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 13 | 67442927 | 120421639 | CBA/J | Homozygous |
| | 14 | 3000000 | 70580779 | CBA/J | Homozygous |
| | 14 | 70580779 | 93002544 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 14 | 93002544 | 97106405 | C57BL/6J and C57BL/6NTac | N/A |
| | 14 | 97106405 | 111185375 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 14 | 111185375 | 124902244 | C57BL/6J and C57BL/6NTac | N/A |
| | 15 | 3000000 | 36473640 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 15 | 36473640 | 44010563 | C57BL/6J and C57BL/6NTac | N/A |
| | 15 | 44010563 | 55016741 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 15 | 55016741 | 70554147 | C57BL/6J and C57BL/6NTac | N/A |
| | 15 | 70554147 | 95814574 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 15 | 95814574 | 104043685 | C57BL/6J and C57BL/6NTac | N/A |
| | 16 | 3000000 | 20813513 | C57BL/6J and C57BL/6NTac | N/A |
| | 16 | 20813513 | 87403166 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 16 | 87403166 | 98207768 | C57BL/6J and C57BL/6NTac | N/A |
| | 17 | 3000000 | 94987271 | C57BL/6J and C57BL/6NTac | N/A |
| | 18 | 3000000 | 14753212 | CBA/J | Homozygous |

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|--|----|-----------|-----------|---------------------------------------|--------------|
| | 18 | 14753212 | 63069205 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 18 | 63069205 | 65345130 | C57BL/6J and C57BL/6NTac | N/A |
| | 18 | 65345130 | 67937187 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 18 | 67937187 | 90702639 | CBA/J | Homozygous |
| | 19 | 30000000 | 31636352 | C57BL/6J and C57BL/6NTac | N/A |
| | 19 | 31636352 | 61431566 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | X | 30000000 | 70193631 | CBA/J | Homozygous |
| | X | 70193631 | 105020820 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | X | 105020820 | 132528229 | CBA/J | Homozygous |
| | X | 132528229 | 136441962 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | X | 136441962 | 171031299 | C57BL/6J and C57BL/6NTac | N/A |
| | MT | o | o | IBD | Hemizygous |