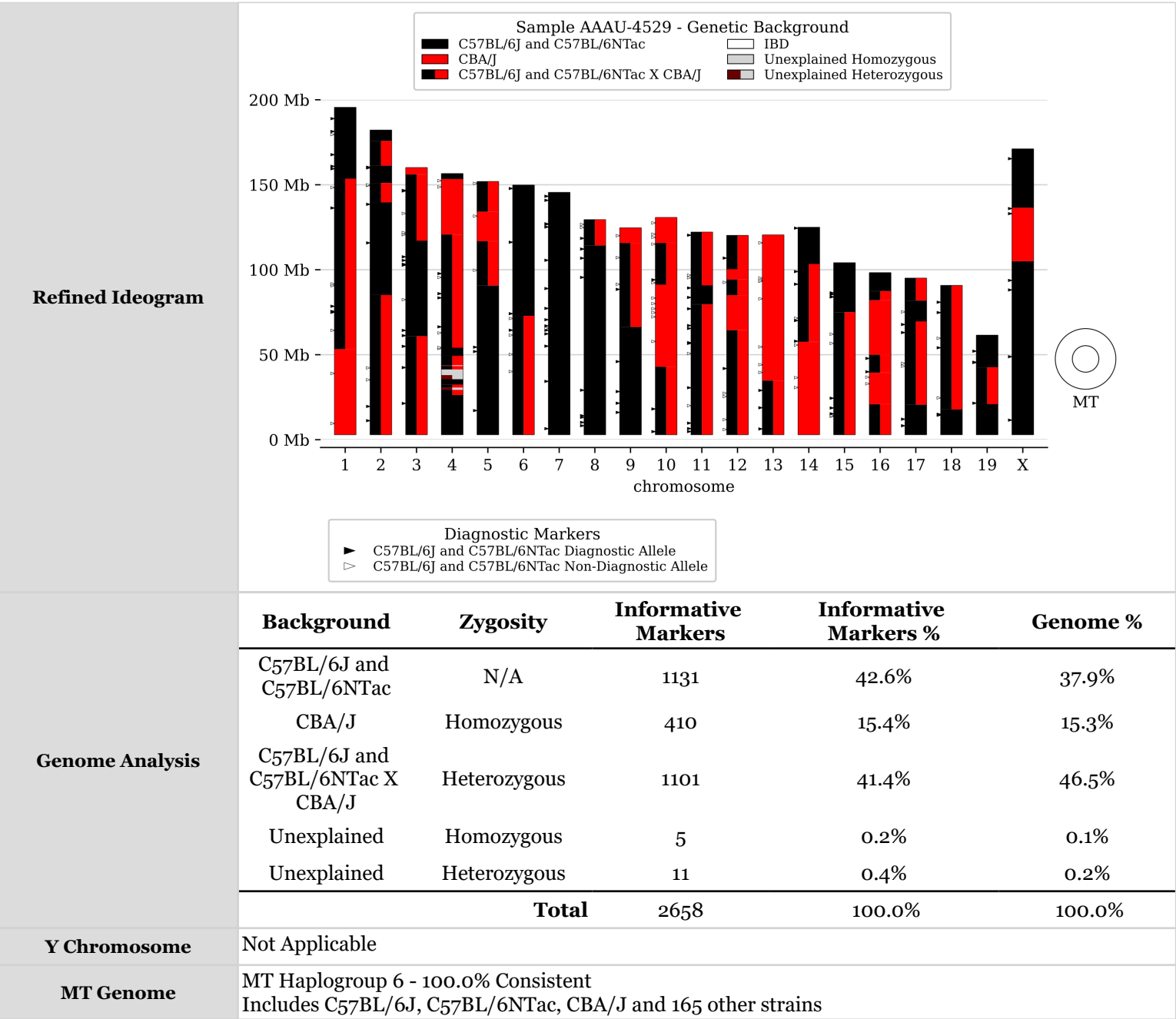


MiniMUGA Background Analysis v2.3.1

[illegible]

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| Backgrounds Detected (Diagnostic Alleles) | Diagnostic Alleles Observed | | | | |
|---|---|------------|------------------------------------|--------------|------------|
| | Diagnostic Class | Homozygous | Heterozygous | Potential | % Observed |
| | C57BL/6J, C57BL/6JJicTac, C57BL/6JRj | 13 | 61 | 102 | 72.5% |
| | C57BL/6J, C57BL/6JRj | 4 | 12 | 31 | 51.6% |
| | C57BL/6J, C57BL/6JEiJ, C57BL/6JJicTac, C57BL/6JRj | 1 | 11 | 21 | 57.1% |
| | C57BL/6NRj, C57BL/6NTac | 0 | 5 | 15 | 33.3% |
| | C57BL/6NJ, C57BL/6NRj, C57BL/6NTac | 0 | 4 | 10 | 40.0% |
| | B6N-Tyr<c-Brd>/BrdCrCrl, C57BL/6J, C57BL/6JJicTac, C57BL/6JRj | 0 | 2 | 5 | 40.0% |
| | C57BL/6NCrl, C57BL/6NHsd, C57BL/6NJ, C57BL/6NRj, C57BL/6NTac | 0 | 2 | 2 | 100.0% |
| | 129S5/SvEvBrd | 0 | 1 | 5 | 20.0% |
| Minimal Strain Sets Explaining All Diagnostic Classes (Number of Markers Explained): | | | | | |
| <ul style="list-style-type: none">Solution 1: 129S5/SvEvBrd and C57BL/6J and C57BL/6NRj<ul style="list-style-type: none">C57BL/6J: 108 / 165 (65.5%)C57BL/6NRj: 13 / 39 (33.3%)129S5/SvEvBrd: 1 / 5 (20.0%)Solution 2: 129S5/SvEvBrd and C57BL/6JRj and C57BL/6NRj<ul style="list-style-type: none">C57BL/6JRj: 108 / 165 (65.5%)C57BL/6NRj: 13 / 39 (33.3%)129S5/SvEvBrd: 1 / 5 (20.0%) | | | | | |
| | | | | | |
| Chromosome | Start (Mb) | Stop (Mb) | Background | Zygosity | |
| 1 | 3000000 | 53295370 | CBA/J | Homozygous | |
| 1 | 53295370 | 153548642 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous | |
| 1 | 153548642 | 195471971 | C57BL/6J and C57BL/6NTac | N/A | |
| 2 | 3000000 | 85084816 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous | |
| 2 | 85084816 | 139631657 | C57BL/6J and C57BL/6NTac | N/A | |
| 2 | 139631657 | 151062687 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous | |
| 2 | 151062687 | 161221795 | C57BL/6J and C57BL/6NTac | N/A | |
| 2 | 161221795 | 175780822 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous | |
| 2 | 175780822 | 182113224 | C57BL/6J and C57BL/6NTac | N/A | |

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| | | | | | |
|---------------------|----|-----------|-----------|---------------------------------------|--------------|
| Diplotype Intervals | 3 | 3000000 | 60850190 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 3 | 60850190 | 117076578 | C57BL/6J and C57BL/6NTac | N/A |
| | 3 | 117076578 | 156090101 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 3 | 156090101 | 160039680 | CBA/J | Homozygous |
| | 4 | 3000000 | 26280383 | C57BL/6J and C57BL/6NTac | N/A |
| | 4 | 26280383 | 29346519 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 4 | 29346519 | 30650814 | Unexplained | Heterozygous |
| | 4 | 30650814 | 32327128 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 4 | 32327128 | 35563307 | C57BL/6J and C57BL/6NTac | N/A |
| | 4 | 35563307 | 37995481 | Unexplained | Heterozygous |
| | 4 | 37995481 | 41348396 | Unexplained | Homozygous |
| | 4 | 41348396 | 43372387 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 4 | 43372387 | 43819249 | Unexplained | Heterozygous |
| | 4 | 43819249 | 49280860 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 4 | 49280860 | 54114833 | C57BL/6J and C57BL/6NTac | N/A |
| | 4 | 54114833 | 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 | 3000000 | 90681879 | C57BL/6J and C57BL/6NTac | N/A |
| | 5 | 90681879 | 116795433 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 5 | 116795433 | 134172373 | CBA/J | Homozygous |
| | 5 | 134172373 | 151834684 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 6 | 3000000 | 72868996 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 6 | 72868996 | 149736546 | C57BL/6J and C57BL/6NTac | N/A |
| | 7 | 3000000 | 145441459 | C57BL/6J and C57BL/6NTac | N/A |
| | 8 | 3000000 | 114311388 | C57BL/6J and C57BL/6NTac | N/A |
| | 8 | 114311388 | 129401213 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 9 | 3000000 | 66341356 | C57BL/6J and C57BL/6NTac | N/A |
| | 9 | 66341356 | 115715944 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 9 | 115715944 | 124595110 | CBA/J | Homozygous |
| | 10 | 3000000 | 42917049 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 10 | 42917049 | 91235291 | CBA/J | Homozygous |

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|--|----|-----------|-----------|---------------------------------------|--------------|
| | 10 | 91235291 | 115781736 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 10 | 115781736 | 130694993 | CBA/J | Homozygous |
| | 11 | 30000000 | 79617327 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 11 | 79617327 | 90803561 | C57BL/6J and C57BL/6NTac | N/A |
| | 11 | 90803561 | 122082543 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 12 | 30000000 | 64411355 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 12 | 64411355 | 85015902 | CBA/J | Homozygous |
| | 12 | 85015902 | 94246475 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 12 | 94246475 | 100284662 | CBA/J | Homozygous |
| | 12 | 100284662 | 120129022 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 13 | 30000000 | 34755755 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 13 | 34755755 | 120421639 | CBA/J | Homozygous |
| | 14 | 30000000 | 57544602 | CBA/J | Homozygous |
| | 14 | 57544602 | 103377147 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 14 | 103377147 | 124902244 | C57BL/6J and C57BL/6NTac | N/A |
| | 15 | 30000000 | 74996398 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 15 | 74996398 | 104043685 | C57BL/6J and C57BL/6NTac | N/A |
| | 16 | 30000000 | 20813513 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 16 | 20813513 | 39422954 | CBA/J | Homozygous |
| | 16 | 39422954 | 49897727 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 16 | 49897727 | 82107593 | CBA/J | Homozygous |
| | 16 | 82107593 | 87403166 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 16 | 87403166 | 98207768 | C57BL/6J and C57BL/6NTac | N/A |
| | 17 | 30000000 | 20616647 | C57BL/6J and C57BL/6NTac | N/A |
| | 17 | 20616647 | 69590784 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 17 | 69590784 | 81881415 | C57BL/6J and C57BL/6NTac | N/A |
| | 17 | 81881415 | 94987271 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 18 | 30000000 | 17841108 | C57BL/6J and C57BL/6NTac | N/A |
| | 18 | 17841108 | 90702639 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |
| | 19 | 30000000 | 20955280 | C57BL/6J and C57BL/6NTac | N/A |
| | 19 | 20955280 | 42582533 | C57BL/6J and C57BL/6NTac and CBA/J | Heterozygous |

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|--|----|-----------|-----------|------------------------------------|------------|
| | 19 | 42582533 | 61431566 | C57BL/6J and C57BL/6NTac | N/A |
| | X | 3000000 | 105020820 | C57BL/6J and C57BL/6NTac | Hemizygous |
| | X | 105020820 | 136441962 | C57BL/6J and C57BL/6NTac and CBA/J | Hemizygous |
| | X | 136441962 | 171031299 | C57BL/6J and C57BL/6NTac | Hemizygous |
| | MT | 0 | 0 | IBD | Hemizygous |