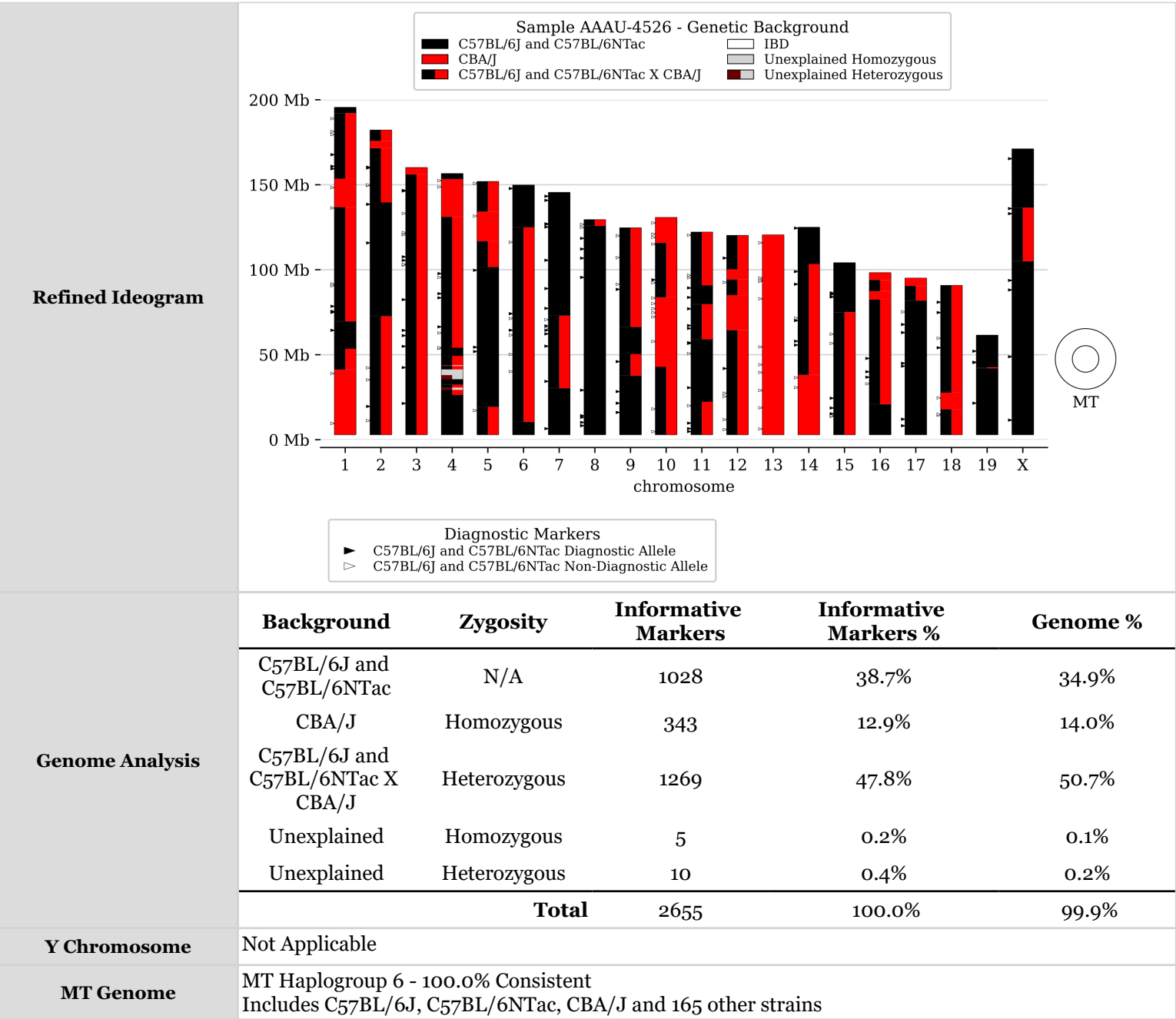


# MiniMUGA Background Analysis v2.3.1

[illegible]

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Backgrounds Detected (Diagnostic Alleles)	Diagnostic Alleles Observed				
	Diagnostic Class	Homozygous	Heterozygous	Potential	% Observed
	C57BL/6J, C57BL/6JJicTac, C57BL/6JRj	8	59	102	65.7%
	C57BL/6J, C57BL/6JRj	4	11	31	48.4%
	C57BL/6J, C57BL/6JEiJ, C57BL/6JJicTac, C57BL/6JRj	2	8	21	47.6%
	C57BL/6NRj, C57BL/6NTac	0	6	15	40.0%
	C57BL/6NJ, C57BL/6NRj, C57BL/6NTac	0	5	10	50.0%
	B6N-Tyr<c-Brd>/BrdCrCrl, C57BL/6J, C57BL/6JJicTac, C57BL/6JRj	0	2	5	40.0%
	129S5/SvEvBrd	0	1	5	20.0%
	B6N-Tyr<c-Brd>/BrdCrCrl, C57BL/6J, C57BL/6JBomTac, C57BL/6JEiJ, C57BL/6JJicTac, C57BL/6JolaHsd, C57BL/6JRj	0	1	2	50.0%
	B6N-Tyr<c-Brd>/BrdCrCrl, C57BL/6J, C57BL/6JEiJ, C57BL/6JJicTac, C57BL/6JRj	0	1	1	100.0%
	B6N-Tyr<c-Brd>/BrdCrCrl, C57BL/6NCrl, C57BL/6NHsd, C57BL/6NJ, C57BL/6NRj, C57BL/6NTac	0	1	2	50.0%
<b>Minimal Strain Sets Explaining All Diagnostic Classes (Number of Markers Explained):</b>					
<ul style="list-style-type: none"><li>Solution 1: 129S5/SvEvBrd and C57BL/6J and C57BL/6NRj<ul style="list-style-type: none"><li>C57BL/6J: 97 / 163 (59.5%)</li><li>C57BL/6NRj: 14 / 39 (35.9%)</li><li>129S5/SvEvBrd: 1 / 5 (20.0%)</li></ul></li><li>Solution 2: 129S5/SvEvBrd and C57BL/6JRj and C57BL/6NRj<ul style="list-style-type: none"><li>C57BL/6JRj: 97 / 163 (59.5%)</li><li>C57BL/6NRj: 14 / 39 (35.9%)</li><li>129S5/SvEvBrd: 1 / 5 (20.0%)</li></ul></li></ul>					
	Chromosome	Start (Mb)	Stop (Mb)	Background	Zygosity
	1	3000000	41199760	CBA/J	Homozygous
	1	41199760	53457225	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	1	53457225	69700765	C57BL/6J and C57BL/6NTac	N/A
	1	69700765	136798402	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	1	136798402	153548642	CBA/J	Homozygous
	1	153548642	192078159	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	1	192078159	195471971	C57BL/6J and C57BL/6NTac	N/A
	2	3000000	72629186	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	2	72629186	139631657	C57BL/6J and C57BL/6NTac	N/A
	2	139631657	171484731	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous

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Diplotype Intervals	2	171484731	175780822	CBA/J	Homozygous
	2	175780822	182113224	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	3	3000000	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	131104093	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	4	131104093	153356388	CBA/J	Homozygous
	4	153356388	156508116	C57BL/6J and C57BL/6NTac	N/A
	5	3000000	19267794	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	5	19267794	101581477	C57BL/6J and C57BL/6NTac	N/A
	5	101581477	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	10424941	C57BL/6J and C57BL/6NTac	N/A
	6	10424941	124881471	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	6	124881471	149736546	C57BL/6J and C57BL/6NTac	N/A
	7	3000000	30335112	C57BL/6J and C57BL/6NTac	N/A
	7	30335112	72944748	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	7	72944748	145441459	C57BL/6J and C57BL/6NTac	N/A
	8	3000000	125832225	C57BL/6J and C57BL/6NTac	N/A
	8	125832225	129401213	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	9	3000000	37691490	C57BL/6J and C57BL/6NTac	N/A

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	9	37691490	50381732	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	9	50381732	66341356	C57BL/6J and C57BL/6NTac	N/A
	9	66341356	124595110	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	10	30000000	42858234	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	10	42858234	83779430	CBA/J	Homozygous
	10	83779430	115781736	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	10	115781736	130694993	CBA/J	Homozygous
	11	30000000	22302070	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	11	22302070	59127711	C57BL/6J and C57BL/6NTac	N/A
	11	59127711	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	120421639	CBA/J	Homozygous
	14	30000000	38092288	CBA/J	Homozygous
	14	38092288	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	N/A
	16	20813513	82429429	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	16	82429429	87403166	CBA/J	Homozygous
	16	87403166	93997286	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	16	93997286	98207768	CBA/J	Homozygous
	17	30000000	81881415	C57BL/6J and C57BL/6NTac	N/A
	17	81881415	90487634	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	17	90487634	94987271	CBA/J	Homozygous
	18	30000000	17841108	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous

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	18	17841108	27650151	CBA/J	Homozygous
	18	27650151	90702639	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	19	3000000	42043276	C57BL/6J and C57BL/6NTac	N/A
	19	42043276	42582533	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	19	42582533	61431566	C57BL/6J and C57BL/6NTac	N/A
	X	3000000	105020820	C57BL/6J and C57BL/6NTac	N/A
	X	105020820	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