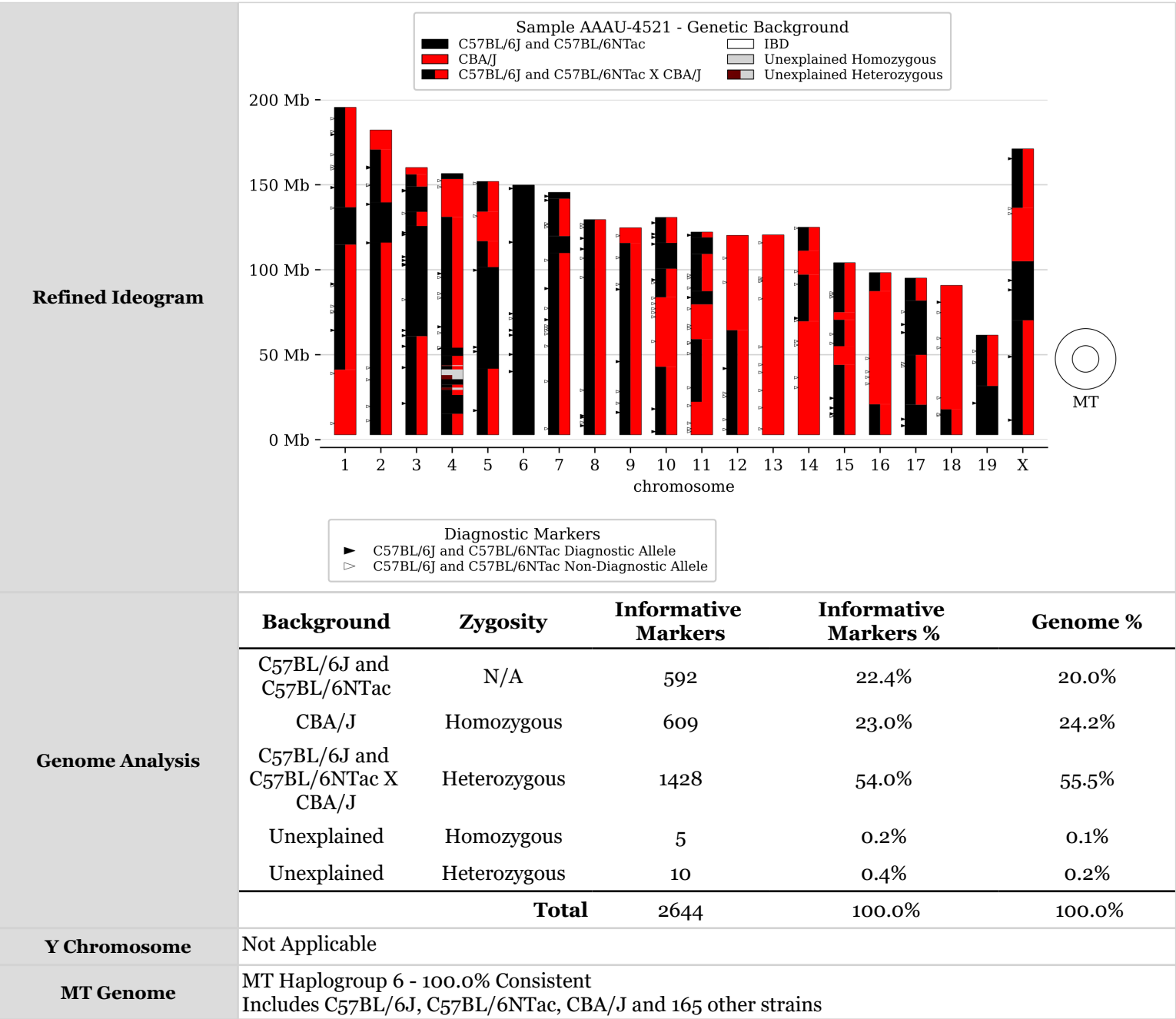


# MiniMUGA Background Analysis v2.3.1

[illegible]

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Backgrounds Detected (Diagnostic Alleles)	Diagnostic Alleles Observed				
	Diagnostic Class	Homozygous	Heterozygous	Potential	% Observed
	C57BL/6J, C57BL/6JJicTac, C57BL/6JRj	11	26	102	36.3%
	C57BL/6J, C57BL/6JRj	1	8	31	29.0%
	C57BL/6J, C57BL/6JEiJ, C57BL/6JJicTac, C57BL/6JRj	0	8	21	38.1%
	C57BL/6NJ, C57BL/6NRj, C57BL/6NTac	0	7	10	70.0%
	C57BL/6NRj, C57BL/6NTac	0	6	15	40.0%
	C57BL/6NCrl, C57BL/6NHsd, C57BL/6NJ, C57BL/6NRj, C57BL/6NTac	0	2	2	100.0%
	129S5/SvEvBrd	0	1	5	20.0%
	B6N-Tyr<c-Brd>/BrdCrCrl, C57BL/6J, C57BL/6JEiJ, C57BL/6JJicTac, C57BL/6JRj	0	1	1	100.0%
	B6N-Tyr<c-Brd>/BrdCrCrl, C57BL/6J, C57BL/6JJicTac, C57BL/6JRj	0	1	5	20.0%
	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: 56 / 160 (35.0%)</li><li>C57BL/6NRj: 18 / 40 (45.0%)</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: 56 / 160 (35.0%)</li><li>C57BL/6NRj: 18 / 40 (45.0%)</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	114727849	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	1	114727849	136798402	C57BL/6J and C57BL/6NTac	N/A
	1	136798402	195471971	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	2	3000000	115970567	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	2	115970567	139631657	C57BL/6J and C57BL/6NTac	N/A
	2	139631657	170694096	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	2	170694096	182113224	CBA/J	Homozygous
	3	3000000	60850190	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	3	60850190	125708355	C57BL/6J and C57BL/6NTac	N/A
	3	125708355	134049530	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous

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Diplotype Intervals	3	134049530	148967944	C57BL/6J and C57BL/6NTac	N/A
	3	148967944	156090101	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	3	156090101	160039680	CBA/J	Homozygous
	4	30000000	15188739	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	4	15188739	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	30000000	41755530	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	5	41755530	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	30000000	149736546	C57BL/6J and C57BL/6NTac	N/A
	7	30000000	109805667	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	7	109805667	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	129401213	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	9	30000000	115715944	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	9	115715944	124595110	CBA/J	Homozygous
	10	30000000	42917049	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous

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10	42917049	83779430	CBA/J	Homozygous
10	83779430	100561092	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
10	100561092	115781736	C57BL/6J and C57BL/6NTac	N/A
10	115781736	130694993	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
11	30000000	22302070	CBA/J	Homozygous
11	22302070	59127711	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
11	59127711	79617327	CBA/J	Homozygous
11	79617327	87432699	C57BL/6J and C57BL/6NTac	N/A
11	87432699	109213602	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
11	109213602	119038285	C57BL/6J and C57BL/6NTac	N/A
11	119038285	122082543	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
12	30000000	64411355	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
12	64411355	120129022	CBA/J	Homozygous
13	30000000	120421639	CBA/J	Homozygous
14	30000000	69660428	CBA/J	Homozygous
14	69660428	97106405	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
14	97106405	111185375	CBA/J	Homozygous
14	111185375	124902244	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
15	30000000	44010563	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
15	44010563	55016741	CBA/J	Homozygous
15	55016741	70554147	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
15	70554147	74996398	CBA/J	Homozygous
15	74996398	104043685	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
16	30000000	20813513	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
16	20813513	87403166	CBA/J	Homozygous
16	87403166	98207768	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
17	30000000	20616647	C57BL/6J and C57BL/6NTac	N/A
17	20616647	49885651	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
17	49885651	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 and CBA/J	Heterozygous
18	17841108	90702639	CBA/J	Homozygous

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	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	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	X	70193631	105020820	C57BL/6J and C57BL/6NTac	N/A
	X	105020820	136441962	CBA/J	Homozygous
	X	136441962	171031299	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	MT	0	0	IBD	Hemizygous