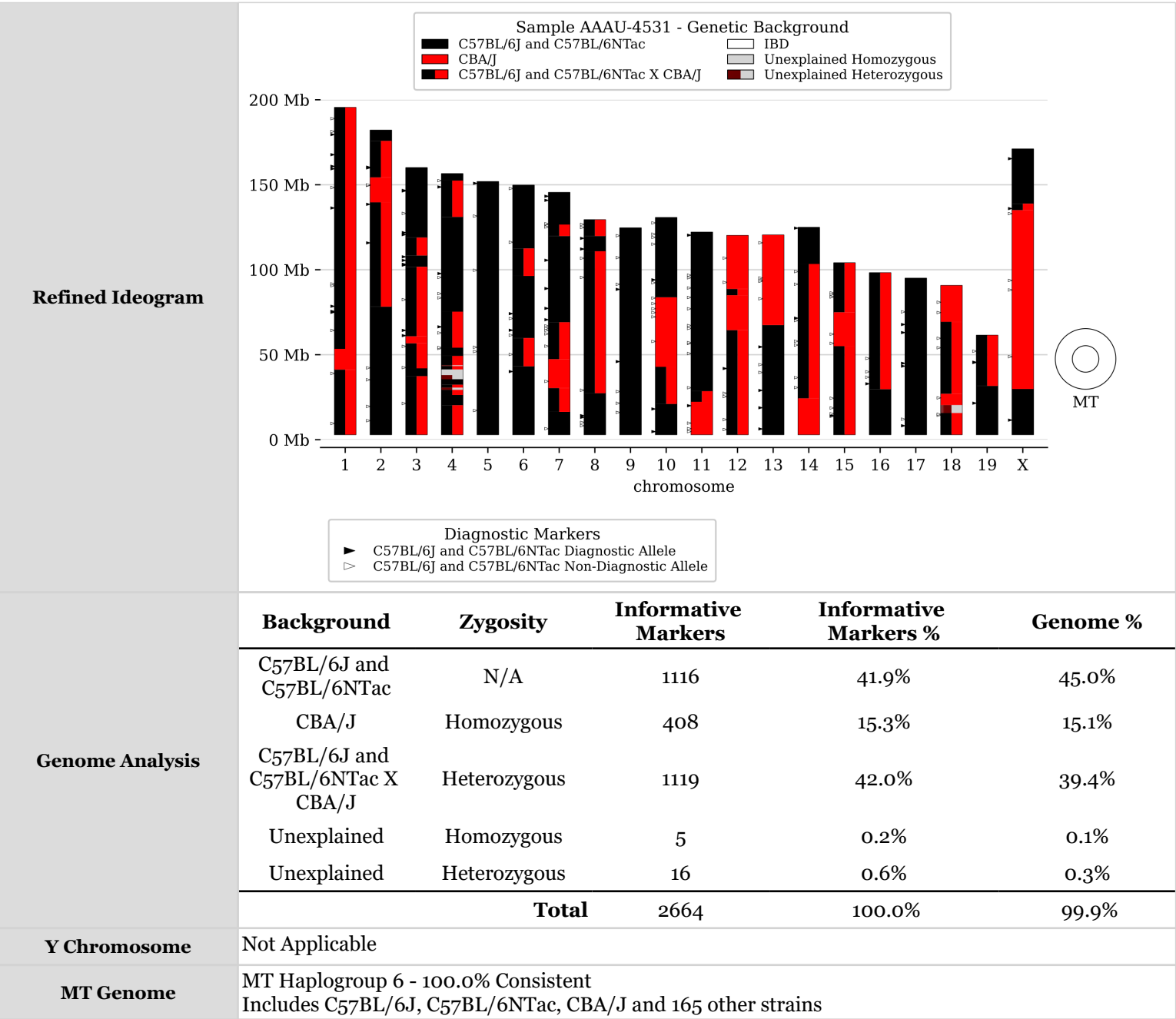


# MiniMUGA Background Analysis v2.3.1

[illegible]

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Backgrounds Detected (Diagnostic Alleles)	Diagnostic Alleles Observed			
	Diagnostic Class	Homozygous	Heterozygous	Potential % Observed
	C57BL/6J, C57BL/6JJicTac, C57BL/6JRj	5	28	10232.4%
	C57BL/6J, C57BL/6JEiJ, C57BL/6JJicTac, C57BL/6JRj	5	3	2138.1%
	C57BL/6NRj, C57BL/6NTac	3	5	1553.3%
	C57BL/6NJ, C57BL/6NRj, C57BL/6NTac	2	4	1060.0%
	C57BL/6J, C57BL/6JRj	0	6	3119.4%
	B6N-Tyr<c-Brd>/BrdCrCrI, C57BL/6NCrI, C57BL/6NHsd, C57BL/6NJ, C57BL/6NRj, C57BL/6NTac	1	0	250.0%
	C57BL/6NCrI, C57BL/6NHsd, C57BL/6NJ, C57BL/6NRj, C57BL/6NTac	0	2	2100.0%
	129S5/SvEvBrd	0	1	520.0%
	B6N-Tyr<c-Brd>/BrdCrCrI, C57BL/6J, C57BL/6JEiJ, C57BL/6JJicTac, C57BL/6JRj	0	1	1100.0%
	C57BL/6J, C57BL/6JBomTac, C57BL/6JEiJ, C57BL/6JJicTac, C57BL/6JolaHsd, C57BL/6JRj	0	1	250.0%
	C57BL/6NHsd, C57BL/6NJ, C57BL/6NRj, C57BL/6NTac	0	1	1100.0%
	C57BL/6NRj	0	1	1010.0%
Minimal Strain Sets Explaining All Diagnostic Classes (Number of Markers Explained):				
<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: 49 / 157 (31.2%)</li><li>C57BL/6NRj: 19 / 40 (47.5%)</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: 49 / 157 (31.2%)</li><li>C57BL/6NRj: 19 / 40 (47.5%)</li><li>129S5/SvEvBrd: 1 / 5 (20.0%)</li></ul></li></ul>				
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	195471971	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
2	3000000	78267191	C57BL/6J and C57BL/6NTac	N/A
2	78267191	139631657	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
2	139631657	154349372	CBA/J	Homozygous
2	154349372	175780822	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
2	175780822	182113224	C57BL/6J and C57BL/6NTac	N/A
3	3000000	37371933	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
3	37371933	41975127	C57BL/6J and C57BL/6NTac	N/A
3	41975127	56655047	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
3	56655047	60850190	CBA/J	Homozygous

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Diplotype Intervals	3	60850190	101716043	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	3	101716043	108381941	C57BL/6J and C57BL/6NTac	N/A
	3	108381941	118919242	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	3	118919242	160039680	C57BL/6J and C57BL/6NTac	N/A
	4	30000000	20258658	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	4	20258658	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	75318594	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	4	75318594	131104093	C57BL/6J and C57BL/6NTac	N/A
	4	131104093	152440879	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	4	152440879	156508116	C57BL/6J and C57BL/6NTac	N/A
	5	30000000	151834684	C57BL/6J and C57BL/6NTac	N/A
	6	30000000	43184432	C57BL/6J and C57BL/6NTac	N/A
	6	43184432	59791688	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	6	59791688	96327282	C57BL/6J and C57BL/6NTac	N/A
	6	96327282	112515862	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	6	112515862	149736546	C57BL/6J and C57BL/6NTac	N/A
	7	30000000	16360273	C57BL/6J and C57BL/6NTac	N/A
	7	16360273	30335112	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	7	30335112	47395440	CBA/J	Homozygous
	7	47395440	69096424	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	7	69096424	119823617	C57BL/6J and C57BL/6NTac	N/A

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	7	119823617	126580094	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	7	126580094	145441459	C57BL/6J and C57BL/6NTac	N/A
	8	30000000	27348459	C57BL/6J and C57BL/6NTac	N/A
	8	27348459	110881875	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	8	110881875	119835722	C57BL/6J and C57BL/6NTac	N/A
	8	119835722	129401213	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	9	30000000	124595110	C57BL/6J and C57BL/6NTac	N/A
	10	30000000	21018821	C57BL/6J and C57BL/6NTac	N/A
	10	21018821	42858234	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	10	42858234	83779430	CBA/J	Homozygous
	10	83779430	130694993	C57BL/6J and C57BL/6NTac	N/A
	11	30000000	22302070	CBA/J	Homozygous
	11	22302070	28525615	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	11	28525615	122082543	C57BL/6J and C57BL/6NTac	N/A
	12	30000000	64411355	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	12	64411355	85015902	CBA/J	Homozygous
	12	85015902	88650858	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	12	88650858	120129022	CBA/J	Homozygous
	13	30000000	67442927	C57BL/6J and C57BL/6NTac	N/A
	13	67442927	120421639	CBA/J	Homozygous
	14	30000000	24355636	CBA/J	Homozygous
	14	24355636	103377147	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	14	103377147	124902244	C57BL/6J and C57BL/6NTac	N/A
	15	30000000	55016741	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	15	55016741	74996398	CBA/J	Homozygous
	15	74996398	104043685	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	16	30000000	29701002	C57BL/6J and C57BL/6NTac	N/A
	16	29701002	98207768	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	17	30000000	94987271	C57BL/6J and C57BL/6NTac	N/A
	18	30000000	15685654	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	18	15685654	20363699	Unexplained	Heterozygous
	18	20363699	27036500	CBA/J	Homozygous

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	18	27036500	69337106	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	18	69337106	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	29836043	C57BL/6J and C57BL/6NTac	N/A
	X	29836043	135099309	CBA/J	Homozygous
	X	135099309	138881041	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	X	138881041	171031299	C57BL/6J and C57BL/6NTac	N/A
	MT	o	o	IBD	Hemizygous