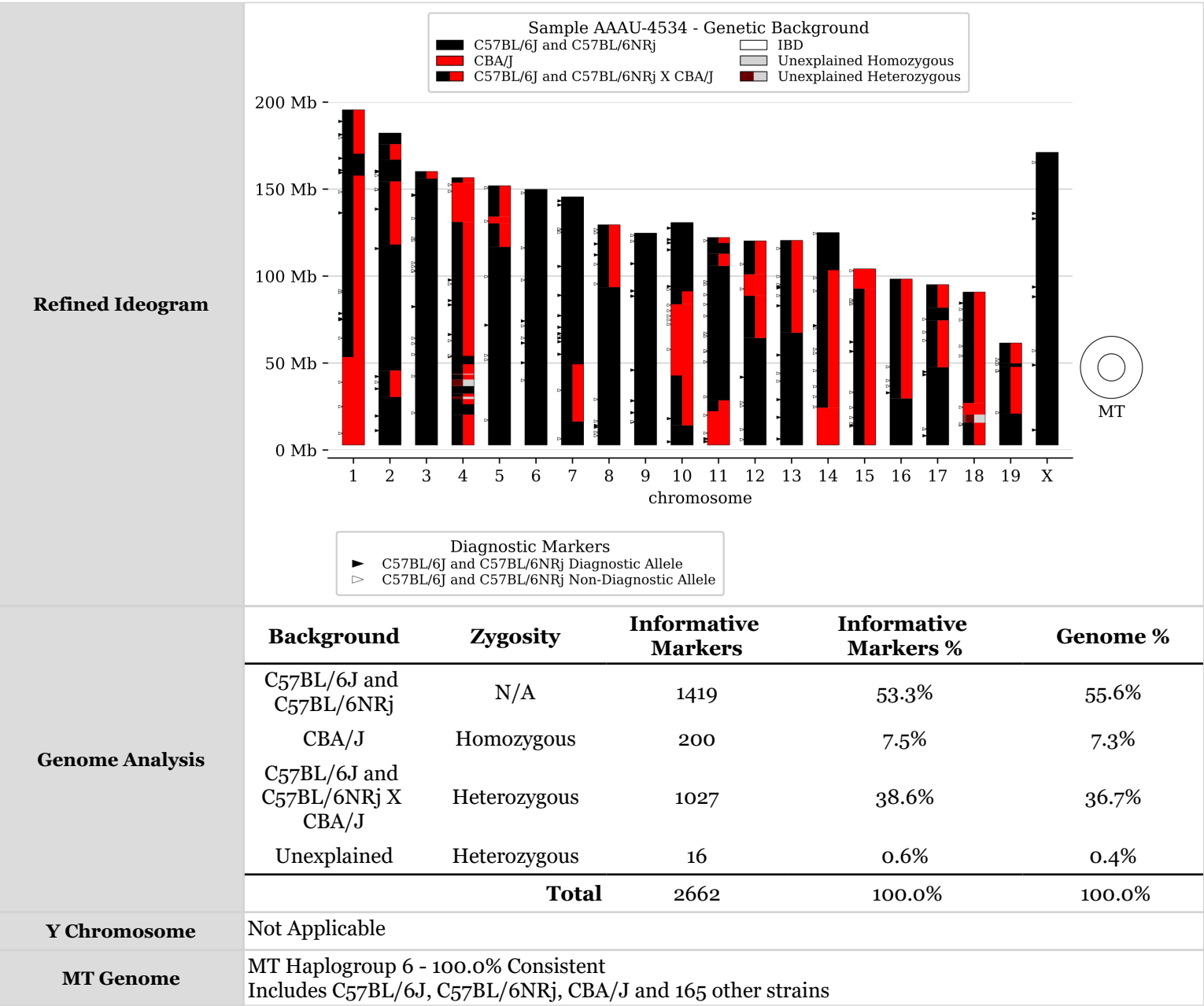


# MiniMUGA Background Analysis v2.3.1

[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	35	102	42.2%
	C57BL/6J, C57BL/6JEiJ, C57BL/6JJicTac, C57BL/6JRj	4	6	21	47.6%
	C57BL/6J, C57BL/6JRj	4	5	31	29.0%
	C57BL/6NRj, C57BL/6NTac	3	5	15	53.3%
	C57BL/6NJ, C57BL/6NRj, C57BL/6NTac	0	6	10	60.0%
	B6N-Tyr<c-Brd>/BrdCrCrl, C57BL/6NCrl, C57BL/6NHsd, C57BL/6NJ, C57BL/6NRj, C57BL/6NTac	1	0	2	50.0%
	C57BL/6NCrl, C57BL/6NHsd, C57BL/6NJ, C57BL/6NRj, C57BL/6NTac	0	2	2	100.0%
	C57BL/6NRj	0	2	10	20.0%
	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%
	C57BL/6J, C57BL/6JBomTac, C57BL/6JEiJ, C57BL/6JJicTac, C57BL/6JOlaHsd, C57BL/6JRj	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: 64 / 157 (40.8%)</li><li>C57BL/6NRj: 19 / 39 (48.7%)</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: 64 / 157 (40.8%)</li><li>C57BL/6NRj: 19 / 39 (48.7%)</li><li>129S5/SvEvBrd: 1 / 5 (20.0%)</li></ul></li></ul>					
	Chromosome	Start (Mb)	Stop (Mb)	Background	Zygosity
	1	3000000	53457225	CBA/J	Homozygous
	1	53457225	157713559	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	1	157713559	170316822	C57BL/6J and C57BL/6NRj	N/A
	1	170316822	195471971	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	2	3000000	30514669	C57BL/6J and C57BL/6NRj	N/A
	2	30514669	45666278	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	2	45666278	118156944	C57BL/6J and C57BL/6NRj	N/A
	2	118156944	154349372	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	2	154349372	166963888	C57BL/6J and C57BL/6NRj	N/A
	2	166963888	175780822	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	2	175780822	182113224	C57BL/6J and C57BL/6NRj	N/A
	3	3000000	156090101	C57BL/6J and C57BL/6NRj	N/A

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Diplotype Intervals	3	156090101	160039680	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	4	3000000	20258658	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	4	20258658	26280383	C57BL/6J and C57BL/6NRj	N/A
	4	26280383	29346519	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	4	29346519	30650814	Unexplained	Heterozygous
	4	30650814	32327128	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	4	32327128	36784495	C57BL/6J and C57BL/6NRj	N/A
	4	36784495	40531709	Unexplained	Heterozygous
	4	40531709	43372387	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	4	43372387	43819249	Unexplained	Heterozygous
	4	43819249	49280860	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	4	49280860	54114833	C57BL/6J and C57BL/6NRj	N/A
	4	54114833	131104093	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	4	131104093	153688585	CBA/J	Homozygous
	4	153688585	156508116	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	5	3000000	116795433	C57BL/6J and C57BL/6NRj	N/A
	5	116795433	130280923	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	5	130280923	134172373	CBA/J	Homozygous
	5	134172373	151834684	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	6	3000000	149736546	C57BL/6J and C57BL/6NRj	N/A
	7	3000000	16360273	C57BL/6J and C57BL/6NRj	N/A
	7	16360273	49270765	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	7	49270765	145441459	C57BL/6J and C57BL/6NRj	N/A
	8	3000000	93626178	C57BL/6J and C57BL/6NRj	N/A
	8	93626178	129401213	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	9	3000000	124595110	C57BL/6J and C57BL/6NRj	N/A
	10	3000000	14185354	C57BL/6J and C57BL/6NRj	N/A
	10	14185354	42858234	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	10	42858234	83779430	CBA/J	Homozygous
	10	83779430	91235291	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	10	91235291	130694993	C57BL/6J and C57BL/6NRj	N/A

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	11	30000000	22302070	CBA/J	Homozygous
	11	22302070	28525615	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	11	28525615	105886229	C57BL/6J and C57BL/6NRj	N/A
	11	105886229	112771442	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	11	112771442	119038285	C57BL/6J and C57BL/6NRj	N/A
	11	119038285	122082543	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	12	30000000	64411355	C57BL/6J and C57BL/6NRj	N/A
	12	64411355	88650858	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	12	88650858	101027932	CBA/J	Homozygous
	12	101027932	120129022	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	13	30000000	67442927	C57BL/6J and C57BL/6NRj	N/A
	13	67442927	120421639	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	14	30000000	24355636	CBA/J	Homozygous
	14	24355636	103377147	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	14	103377147	124902244	C57BL/6J and C57BL/6NRj	N/A
	15	30000000	92737752	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	15	92737752	104043685	CBA/J	Homozygous
	16	30000000	29701002	C57BL/6J and C57BL/6NRj	N/A
	16	29701002	98207768	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	17	30000000	47545390	C57BL/6J and C57BL/6NRj	N/A
	17	47545390	74502727	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	17	74502727	81881415	C57BL/6J and C57BL/6NRj	N/A
	17	81881415	94987271	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	18	30000000	15685654	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	18	15685654	20363699	Unexplained	Heterozygous
	18	20363699	27036500	CBA/J	Homozygous
	18	27036500	90702639	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	19	30000000	20955280	C57BL/6J and C57BL/6NRj	N/A
	19	20955280	47746251	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	19	47746251	49870985	C57BL/6J and C57BL/6NRj	N/A
	19	49870985	61431566	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous

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	X	30000000	171031299	C57BL/6J and C57BL/6NRj	N/A
	MT	o	o	IBD	Hemizygous