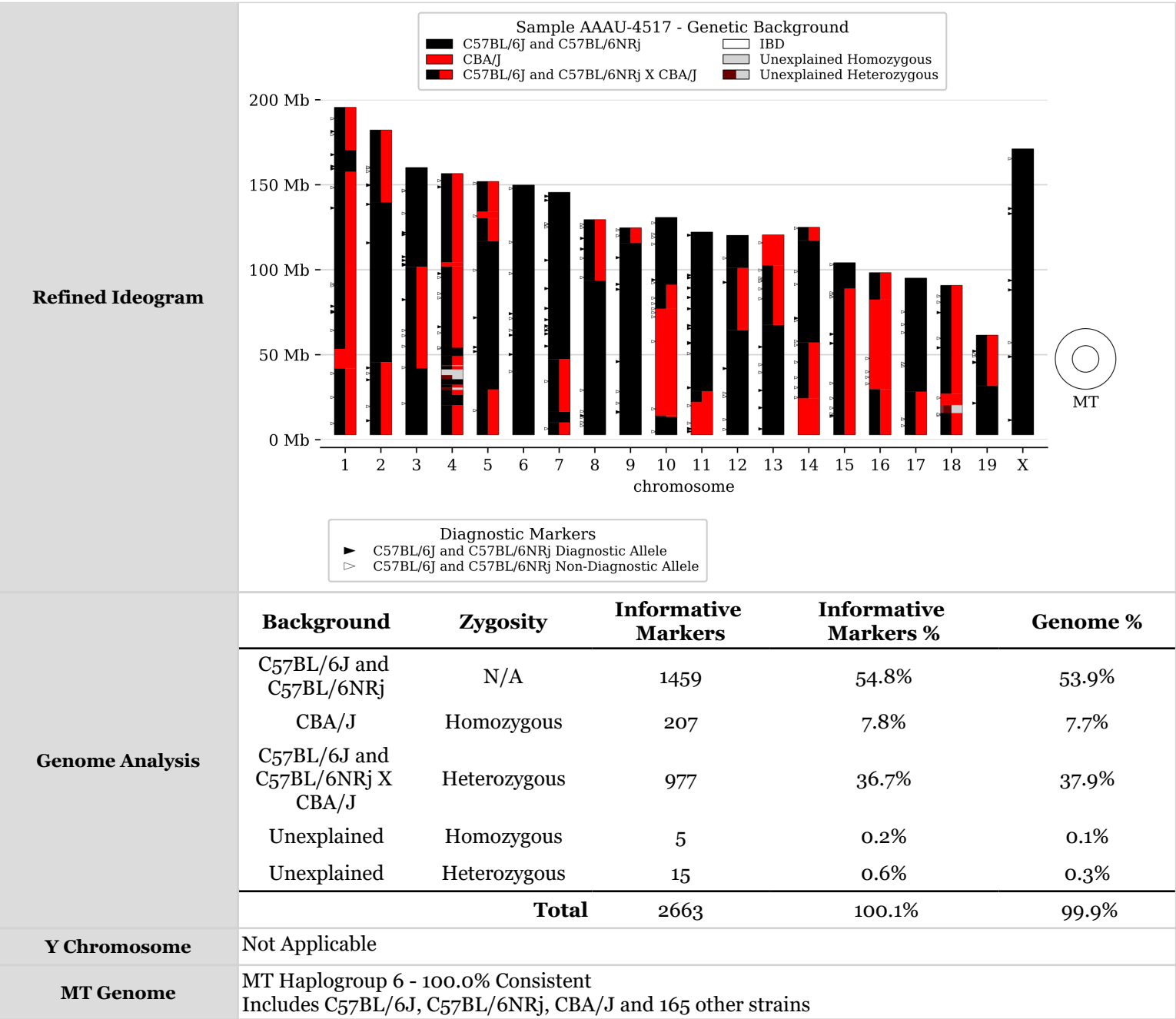


# MiniMUGA Background Analysis v2.3.1

[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	34	102 38.2%
	C57BL/6J, C57BL/6JEiJ, C57BL/6JJicTac, C57BL/6JRj	2	10	21 57.1%
	C57BL/6J, C57BL/6JRj	3	6	31 29.0%
	C57BL/6NRj, C57BL/6NTac	2	6	15 53.3%
	C57BL/6NJ, C57BL/6NRj, C57BL/6NTac	2	5	10 70.0%
	B6N-Tyr<c-Brd>/BrdCrCrI, C57BL/6NCrI, C57BL/6NHsd, C57BL/6NJ, C57BL/6NRj, C57BL/6NTac	1	1	2 100.0%
	B6N-Tyr<c-Brd>/BrdCrCrI, C57BL/6J, C57BL/6JJicTac, C57BL/6JRj	0	2	5 40.0%
	C57BL/6NCrI, 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>/BrdCrCrI, 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%
	C57BL/6J, C57BL/6JEiJ, C57BL/6JJicTac, C57BL/6JolaHsd, C57BL/6JRj	0	1	1 100.0%
Minimal Strain Sets Explaining All Diagnostic Classes (Number of Markers Explained):				
• Solution 1: 129S5/SvEvBrd and C57BL/6J and C57BL/6NRj				
◦ C57BL/6J: 65 / 163 (39.9%)				
◦ C57BL/6NRj: 21 / 39 (53.8%)				
◦ 129S5/SvEvBrd: 1 / 5 (20.0%)				
• Solution 2: 129S5/SvEvBrd and C57BL/6JRj and C57BL/6NRj				
◦ C57BL/6JRj: 65 / 163 (39.9%)				
◦ C57BL/6NRj: 21 / 39 (53.8%)				
◦ 129S5/SvEvBrd: 1 / 5 (20.0%)				
Chromosome	Start (Mb)	Stop (Mb)	Background	Zygosity
1	3000000	41869819	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
1	41869819	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	45666278	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
2	45666278	139631657	C57BL/6J and C57BL/6NRj	N/A
2	139631657	182113224	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
3	3000000	41975127	C57BL/6J and C57BL/6NRj	N/A
3	41975127	101716043	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous

# MiniMUGA Background Analysis v2.3.1

Diplotype Intervals	3	101716043	160039680	C57BL/6J and C57BL/6NRj	N/A
	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	35563307	C57BL/6J and C57BL/6NRj	N/A
	4	35563307	37995481	Unexplained	Heterozygous
	4	37995481	41348396	Unexplained	Homozygous
	4	41348396	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	101914190	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	4	101914190	104362509	CBA/J	Homozygous
	4	104362509	156508116	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	5	3000000	29588943	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	5	29588943	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	10069735	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	7	10069735	16360273	C57BL/6J and C57BL/6NRj	N/A
	7	16360273	47395440	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	7	47395440	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	115715944	C57BL/6J and C57BL/6NRj	N/A
	9	115715944	124595110	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	10	3000000	13392478	C57BL/6J and C57BL/6NRj	N/A

# MiniMUGA Background Analysis v2.3.1

	10	13392478	14185354	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	10	14185354	77055656	CBA/J	Homozygous
	10	77055656	91235291	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	10	91235291	130694993	C57BL/6J and C57BL/6NRj	N/A
	11	30000000	22302070	CBA/J	Homozygous
	11	22302070	28525615	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	11	28525615	122082543	C57BL/6J and C57BL/6NRj	N/A
	12	30000000	64411355	C57BL/6J and C57BL/6NRj	N/A
	12	64411355	101027932	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	12	101027932	120129022	C57BL/6J and C57BL/6NRj	N/A
	13	30000000	67442927	C57BL/6J and C57BL/6NRj	N/A
	13	67442927	102595519	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	13	102595519	120421639	CBA/J	Homozygous
	14	30000000	24355636	CBA/J	Homozygous
	14	24355636	57122837	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	14	57122837	117206934	C57BL/6J and C57BL/6NRj	N/A
	14	117206934	124902244	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	15	30000000	89025824	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	15	89025824	104043685	C57BL/6J and C57BL/6NRj	N/A
	16	30000000	29701002	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	16	29701002	82429429	CBA/J	Homozygous
	16	82429429	98207768	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	17	30000000	28225412	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	17	28225412	94987271	C57BL/6J and C57BL/6NRj	N/A
	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	31636352	C57BL/6J and C57BL/6NRj	N/A
	19	31636352	61431566	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	X	30000000	171031299	C57BL/6J and C57BL/6NRj	N/A
	MT	o	o	IBD	Hemizygous