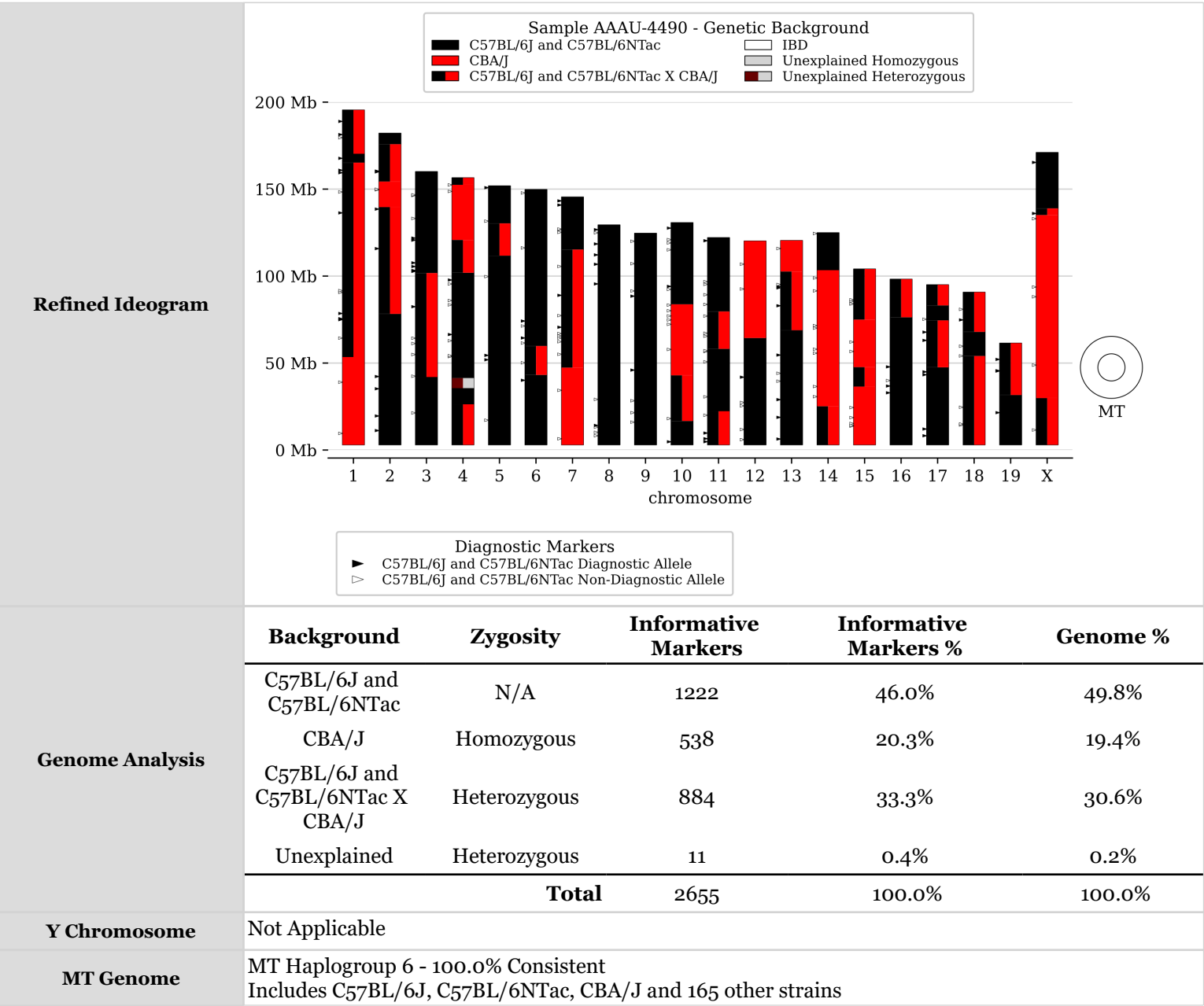


MiniMUGA Background Analysis v2.3.1

[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	35	102	39.2%
	C57BL/6J, C57BL/6JEiJ, C57BL/6JJicTac, C57BL/6JRj	6	4	21	47.6%
	C57BL/6NRj, C57BL/6NTac	3	5	15	53.3%
	C57BL/6J, C57BL/6JRj	0	7	31	22.6%
	C57BL/6NJ, C57BL/6NRj, C57BL/6NTac	3	1	10	40.0%
	B6N-Tyr<c-Brd>/BrdCrCrl, C57BL/6J, C57BL/6JEiJ, C57BL/6JJicTac, C57BL/6JRj	1	0	1	100.0%
	B6N-Tyr<c-Brd>/BrdCrCrl, C57BL/6J, C57BL/6JJicTac, C57BL/6JRj	0	2	5	40.0%
	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/6J, C57BL/6JBomTac, C57BL/6JEiJ, C57BL/6JJicTac, C57BL/6JolaHsd, C57BL/6JRj	0	1	2	50.0%
	C57BL/6NRj	0	1	10	10.0%
Minimal Strain Sets Explaining All Diagnostic Classes (Number of Markers Explained): <ul style="list-style-type: none">Solution 1: C57BL/6J and C57BL/6NRj<ul style="list-style-type: none">C57BL/6J: 61 / 162 (37.7%)C57BL/6NRj: 16 / 39 (41.0%)Solution 2: C57BL/6JRj and C57BL/6NRj<ul style="list-style-type: none">C57BL/6JRj: 61 / 162 (37.7%)C57BL/6NRj: 16 / 39 (41.0%)					
Chromosome	Start (Mb)	Stop (Mb)	Background	Zygosity	
1	3000000	53457225	CBA/J	Homozygous	
1	53457225	165183608	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous	
1	165183608	170316822	C57BL/6J and C57BL/6NTac	N/A	
1	170316822	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	41975127	C57BL/6J and C57BL/6NTac	N/A	
3	41975127	101716043	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous	
3	101716043	160039680	C57BL/6J and C57BL/6NTac	N/A	
4	3000000	26280383	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous	

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Diplotype Intervals	4	26280383	35563307	C57BL/6J and C57BL/6NTac	N/A
	4	35563307	41348396	Unexplained	Heterozygous
	4	41348396	101914190	C57BL/6J and C57BL/6NTac	N/A
	4	101914190	120738488	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	4	120738488	152440879	CBA/J	Homozygous
	4	152440879	156508116	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	5	30000000	111745102	C57BL/6J and C57BL/6NTac	N/A
	5	111745102	130280923	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	5	130280923	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	149736546	C57BL/6J and C57BL/6NTac	N/A
	7	30000000	47395440	CBA/J	Homozygous
	7	47395440	115227247	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	7	115227247	145441459	C57BL/6J and C57BL/6NTac	N/A
	8	30000000	129401213	C57BL/6J and C57BL/6NTac	N/A
	9	30000000	124595110	C57BL/6J and C57BL/6NTac	N/A
	10	30000000	16704298	C57BL/6J and C57BL/6NTac	N/A
	10	16704298	42917049	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	10	42917049	83779430	CBA/J	Homozygous
	10	83779430	130694993	C57BL/6J and C57BL/6NTac	N/A
	11	30000000	22302070	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	11	22302070	58168384	C57BL/6J and C57BL/6NTac	N/A
	11	58168384	79617327	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	11	79617327	122082543	C57BL/6J and C57BL/6NTac	N/A
	12	30000000	64411355	C57BL/6J and C57BL/6NTac	N/A
	12	64411355	120129022	CBA/J	Homozygous
	13	30000000	68886272	C57BL/6J and C57BL/6NTac	N/A
	13	68886272	102595519	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	13	102595519	120421639	CBA/J	Homozygous
	14	30000000	25112834	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous

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	14	25112834	103377147	CBA/J	Homozygous
	14	103377147	124902244	C57BL/6J and C57BL/6NTac	N/A
	15	30000000	36473640	CBA/J	Homozygous
	15	36473640	47626553	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	15	47626553	74996398	CBA/J	Homozygous
	15	74996398	104043685	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	16	30000000	76315797	C57BL/6J and C57BL/6NTac	N/A
	16	76315797	98207768	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	17	30000000	47545390	C57BL/6J and C57BL/6NTac	N/A
	17	47545390	74502727	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	17	74502727	83146268	C57BL/6J and C57BL/6NTac	N/A
	17	83146268	94987271	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	18	30000000	54023745	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	18	54023745	67937187	C57BL/6J and C57BL/6NTac	N/A
	18	67937187	90702639	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	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 and CBA/J	Heterozygous
	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