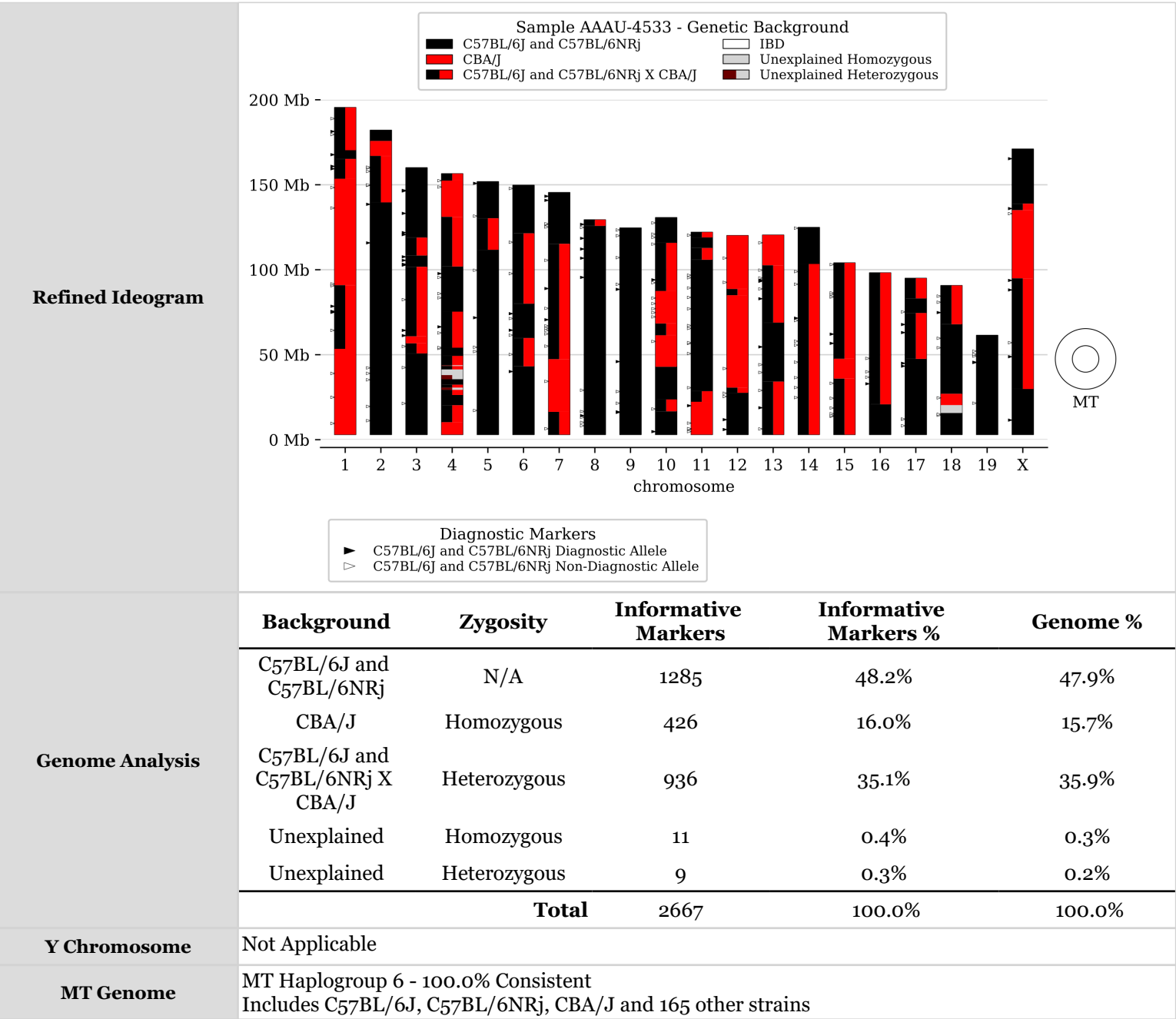


# MiniMUGA Background Analysis v2.3.1

[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	27	102	34.3%
	C57BL/6J, C57BL/6JEiJ, C57BL/6JJicTac, C57BL/6JRj	5	2	21	33.3%
	C57BL/6NRj, C57BL/6NTac	1	9	15	66.7%
	C57BL/6NJ, C57BL/6NRj, C57BL/6NTac	3	2	10	50.0%
	C57BL/6J, C57BL/6JRj	1	4	31	16.1%
	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%
	B6N-Tyr<c-Brd>/BrdCrCrl, C57BL/6J, C57BL/6JJicTac, C57BL/6JRj	0	1	5	20.0%
<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: 49 / 160 (30.6%)</li><li>C57BL/6NRj: 20 / 39 (51.3%)</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 / 160 (30.6%)</li><li>C57BL/6NRj: 20 / 39 (51.3%)</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	90903197	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous	
1	90903197	153548642	CBA/J	Homozygous	
1	153548642	165183608	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous	
1	165183608	170316822	C57BL/6J and C57BL/6NRj	N/A	
1	170316822	195471971	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous	
2	3000000	139631657	C57BL/6J and C57BL/6NRj	N/A	
2	139631657	166963888	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous	
2	166963888	175780822	CBA/J	Homozygous	
2	175780822	182113224	C57BL/6J and C57BL/6NRj	N/A	
3	3000000	50769488	C57BL/6J and C57BL/6NRj	N/A	
3	50769488	56655047	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous	
3	56655047	60850190	CBA/J	Homozygous	

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Diplotype Intervals	3	60850190	101716043	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	3	101716043	108381941	C57BL/6J and C57BL/6NRj	N/A
	3	108381941	118919242	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	3	118919242	160039680	C57BL/6J and C57BL/6NRj	N/A
	4	3000000	10320109	CBA/J	Homozygous
	4	10320109	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	75318594	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	4	75318594	101914190	C57BL/6J and C57BL/6NRj	N/A
	4	101914190	131104093	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	4	131104093	152440879	CBA/J	Homozygous
	4	152440879	156508116	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	5	3000000	111745102	C57BL/6J and C57BL/6NRj	N/A
	5	111745102	130280923	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	5	130280923	151834684	C57BL/6J and C57BL/6NRj	N/A
	6	3000000	43184432	C57BL/6J and C57BL/6NRj	N/A
	6	43184432	59791688	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	6	59791688	80057017	C57BL/6J and C57BL/6NRj	N/A
	6	80057017	121394377	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	6	121394377	149736546	C57BL/6J and C57BL/6NRj	N/A
	7	3000000	16360273	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous

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	7	16360273	47395440	CBA/J	Homozygous
	7	47395440	115227247	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	7	115227247	145441459	C57BL/6J and C57BL/6NRj	N/A
	8	30000000	125832225	C57BL/6J and C57BL/6NRj	N/A
	8	125832225	129401213	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	9	30000000	124595110	C57BL/6J and C57BL/6NRj	N/A
	10	30000000	16704298	C57BL/6J and C57BL/6NRj	N/A
	10	16704298	23654421	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	10	23654421	42917049	C57BL/6J and C57BL/6NRj	N/A
	10	42917049	61450853	CBA/J	Homozygous
	10	61450853	68332199	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	10	68332199	87502245	CBA/J	Homozygous
	10	87502245	115781736	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	10	115781736	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	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	27585493	C57BL/6J and C57BL/6NRj	N/A
	12	27585493	30614550	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	12	30614550	85015902	CBA/J	Homozygous
	12	85015902	88650858	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	12	88650858	120129022	CBA/J	Homozygous
	13	30000000	34155213	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	13	34155213	68886272	C57BL/6J and C57BL/6NRj	N/A
	13	68886272	102595519	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	13	102595519	120421639	CBA/J	Homozygous
	14	30000000	103377147	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	14	103377147	124902244	C57BL/6J and C57BL/6NRj	N/A

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	15	3000000	35896650	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	15	35896650	47626553	CBA/J	Homozygous
	15	47626553	104043685	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	16	3000000	20813513	C57BL/6J and C57BL/6NRj	N/A
	16	20813513	98207768	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	17	3000000	47545390	C57BL/6J and C57BL/6NRj	N/A
	17	47545390	74502727	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	17	74502727	83146268	C57BL/6J and C57BL/6NRj	N/A
	17	83146268	94987271	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	18	3000000	15685654	C57BL/6J and C57BL/6NRj	N/A
	18	15685654	20363699	Unexplained	Homozygous
	18	20363699	27036500	CBA/J	Homozygous
	18	27036500	67937187	C57BL/6J and C57BL/6NRj	N/A
	18	67937187	90702639	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	19	3000000	61431566	C57BL/6J and C57BL/6NRj	N/A
	X	3000000	29836043	C57BL/6J and C57BL/6NRj	N/A
	X	29836043	94918419	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	X	94918419	135099309	CBA/J	Homozygous
	X	135099309	138881041	C57BL/6J and C57BL/6NRj and CBA/J	Heterozygous
	X	138881041	171031299	C57BL/6J and C57BL/6NRj	N/A
	MT	o	o	IBD	Hemizygous