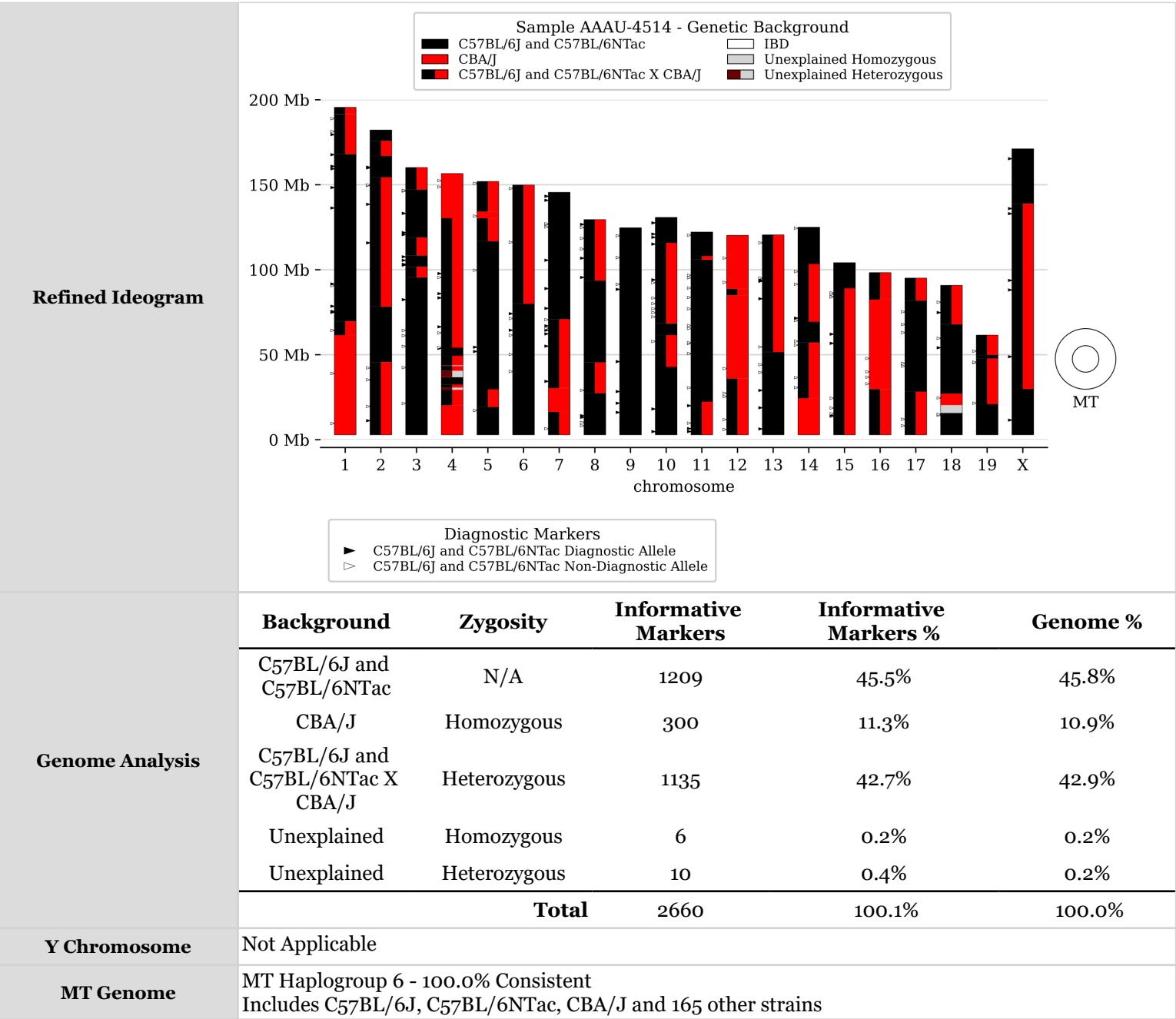


# MiniMUGA Background Analysis v2.3.1

[illegible]

# MiniMUGA Background Analysis v2.3.1



# MiniMUGA Background Analysis v2.3.1

Backgrounds Detected (Diagnostic Alleles)	Diagnostic Alleles Observed				
	Diagnostic Class	Homozygous	Heterozygous	Potential	% Observed
	C57BL/6J, C57BL/6JJicTac, C57BL/6JRj	6	38	102	43.1%
	C57BL/6J, C57BL/6JEiJ, C57BL/6JJicTac, C57BL/6JRj	3	5	21	38.1%
	C57BL/6NRj, C57BL/6NTac	2	7	15	60.0%
	C57BL/6J, C57BL/6JRj	0	8	31	25.8%
	C57BL/6NJ, C57BL/6NRj, C57BL/6NTac	2	4	10	60.0%
	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%
	129S5/SvEvBrd	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/6NTac<ul style="list-style-type: none"><li>C57BL/6J: 64 / 162 (39.5%)</li><li>C57BL/6NTac: 18 / 30 (60.0%)</li><li>129S5/SvEvBrd: 1 / 5 (20.0%)</li></ul></li><li>Solution 2: 129S5/SvEvBrd and C57BL/6J and C57BL/6NRj<ul style="list-style-type: none"><li>C57BL/6J: 64 / 162 (39.5%)</li><li>C57BL/6NRj: 18 / 30 (60.0%)</li><li>129S5/SvEvBrd: 1 / 5 (20.0%)</li></ul></li><li>Solution 3: 129S5/SvEvBrd and C57BL/6JRj and C57BL/6NTac<ul style="list-style-type: none"><li>C57BL/6JRj: 64 / 162 (39.5%)</li><li>C57BL/6NTac: 18 / 30 (60.0%)</li><li>129S5/SvEvBrd: 1 / 5 (20.0%)</li></ul></li><li>Solution 4: 129S5/SvEvBrd and C57BL/6JRj and C57BL/6NRj<ul style="list-style-type: none"><li>C57BL/6JRj: 64 / 162 (39.5%)</li><li>C57BL/6NRj: 18 / 30 (60.0%)</li><li>129S5/SvEvBrd: 1 / 5 (20.0%)</li></ul></li></ul>					
	Chromosome	Start (Mb)	Stop (Mb)	Background	Zygosity
	1	30000000	61451021	CBA/J	Homozygous
	1	61451021	69700765	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	1	69700765	168019536	C57BL/6J and C57BL/6NTac	N/A
	1	168019536	191479666	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	1	191479666	191629867	C57BL/6J and C57BL/6NTac	N/A
	1	191629867	195471971	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	2	30000000	45666278	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous

# MiniMUGA Background Analysis v2.3.1

Diplotype Intervals	2	45666278	78267191	C57BL/6J and C57BL/6NTac	N/A
	2	78267191	154349372	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	2	154349372	166963888	C57BL/6J and C57BL/6NTac	N/A
	2	166963888	175780822	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	2	175780822	182113224	C57BL/6J and C57BL/6NTac	N/A
	3	3000000	95548182	C57BL/6J and C57BL/6NTac	N/A
	3	95548182	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	147169673	C57BL/6J and C57BL/6NTac	N/A
	3	147169673	160039680	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	4	3000000	20258658	CBA/J	Homozygous
	4	20258658	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	36784495	C57BL/6J and C57BL/6NTac	N/A
	4	36784495	40531709	Unexplained	Heterozygous
	4	40531709	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	130336992	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	4	130336992	156508116	CBA/J	Homozygous
	5	3000000	19267794	C57BL/6J and C57BL/6NTac	N/A
	5	19267794	29588943	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	5	29588943	116795433	C57BL/6J and C57BL/6NTac	N/A
	5	116795433	130280923	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	5	130280923	134172373	CBA/J	Homozygous
	5	134172373	151834684	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	6	3000000	80057017	C57BL/6J and C57BL/6NTac	N/A
	6	80057017	149736546	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous

# MiniMUGA Background Analysis v2.3.1

	7	3000000	16360273	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	7	16360273	30335112	CBA/J	Homozygous
	7	30335112	70828686	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	7	70828686	145441459	C57BL/6J and C57BL/6NTac	N/A
	8	3000000	27348459	C57BL/6J and C57BL/6NTac	N/A
	8	27348459	45403996	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	8	45403996	93626178	C57BL/6J and C57BL/6NTac	N/A
	8	93626178	129401213	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	9	3000000	124595110	C57BL/6J and C57BL/6NTac	N/A
	10	3000000	42858234	C57BL/6J and C57BL/6NTac	N/A
	10	42858234	61450853	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	10	61450853	68332199	C57BL/6J and C57BL/6NTac	N/A
	10	68332199	115781736	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	10	115781736	130694993	C57BL/6J and C57BL/6NTac	N/A
	11	3000000	22302070	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	11	22302070	105886229	C57BL/6J and C57BL/6NTac	N/A
	11	105886229	108040605	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	11	108040605	122082543	C57BL/6J and C57BL/6NTac	N/A
	12	3000000	35924045	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	12	35924045	85015902	CBA/J	Homozygous
	12	85015902	88650858	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	12	88650858	120129022	CBA/J	Homozygous
	13	3000000	51605798	C57BL/6J and C57BL/6NTac	N/A
	13	51605798	120421639	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	14	3000000	24355636	CBA/J	Homozygous
	14	24355636	57122837	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	14	57122837	69368817	C57BL/6J and C57BL/6NTac	N/A
	14	69368817	103377147	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	14	103377147	124902244	C57BL/6J and C57BL/6NTac	N/A
	15	3000000	89025824	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous

# MiniMUGA Background Analysis v2.3.1

	15	89025824	104043685	C57BL/6J and C57BL/6NTac	N/A
	16	30000000	29701002	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	16	29701002	82429429	CBA/J	Homozygous
	16	82429429	98207768	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	17	30000000	28225412	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	17	28225412	81881415	C57BL/6J and C57BL/6NTac	N/A
	17	81881415	94987271	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	18	30000000	15685654	C57BL/6J and C57BL/6NTac	N/A
	18	15685654	20363699	Unexplained	Homozygous
	18	20363699	27036500	CBA/J	Homozygous
	18	27036500	67937187	C57BL/6J and C57BL/6NTac	N/A
	18	67937187	90702639	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	19	30000000	20955280	C57BL/6J and C57BL/6NTac	N/A
	19	20955280	47746251	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	19	47746251	49870985	C57BL/6J and C57BL/6NTac	N/A
	19	49870985	61431566	C57BL/6J and C57BL/6NTac and CBA/J	Heterozygous
	X	30000000	29836043	C57BL/6J and C57BL/6NTac	N/A
	X	29836043	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