Comparison of $149 \mathrm{SNP}(2007\text{-}10\text{-}08\ \mathrm{datestamp})$ and $2010\ \mathrm{data}$

Yu Huang

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Abstract

 $Link\ two\ data\ via\ table\ accession 2 ecotype_complete\ (expansion\ of\ ecotype 2 accession\ with\ same\ (nativename, stockparent))$

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3.246row id1=(8309, 1) (HR-5) vs row id2=33...
3.260row id1=(8324, 1) (Ler-1) vs row id2=55...
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3.304row id1=(8372, 1) (RRS-10) vs row id2=2	107
3.305row id1=(8374, 1) (Rsch-4) vs row id2=290	107
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3.307row id1=(8376, 1) (Sanna-2) vs row id2=376	108
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3.309row id1=(8378, 1) (Sap-0) vs row id2=341	
3.310row id1=(8379, 1) (Se-0) vs row id2=83	
3.311row id1=(8380, 1) (Sf-1) vs row id2=300	
3.312row id1=(8381, 1) (Sorbo) vs row id2=90	
3.313row id1=(8382, 1) (Spr1-2) vs row id2=19	
3.314row id1=(8383, 1) (Spr1-6) vs row id2=20	
3.315row id1= $(8384, 1)$ (Sq-1) vs row id2= 37	
3.316row id1= $(8385, 1)$ (Sq-8) vs row id2= 38	
3.317row id1=(8386, 1) (Sr:5) vs row id2=377	
3.318row id1=(8387, 1) (St-0) vs row id2=342	111
3.319row id1=(8388, 1) (Stw-0) vs row id2=343	111
3.320row id1=(8389, 1) (Ta-0) vs row id2=344	
3.321row id1=(8390, 1) (Tamm-2) vs row id2=41	
3.322row id1=(8391, 1) (Tamm-27) vs row id2=42	
3.323row id1=(8392, 1) (Ts-1) vs row id2=84	
3.324row id1=(8393, 1) (Ts-5) vs row id2=85	
3.325row id1=(8394, 1) (Tsu-1) vs row id2=78	
3.326row id1=(8395, 1) (Tu-0) vs row id2=345	
3.327row id1=(8396, 1) (Ull2-3) vs row id2=24	
3.328row id1=(8397, 1) (Ull2-5) vs row id2=23	
3.329row id1= $(8398, 1)$ (Uod-1) vs row id2= 49	
3.330row id1=(8399, 1) (Uod-7) vs row id2=50	
3.331row id1= $(8400, 1)$ (Van-0) vs row id2= 64	
3.332row id1=(8401, 1) (V-1) vs row id2=17	115
3.333row id1=(8402, 1) (V-6) vs row id2=18	
3.334row id1=(8403, 1) (Wa-1) vs row id2=81	
3.335row id1=(8404, 1) (Wei-0) vs row id2=59	
3.336row id1=(8405, 1) (Ws-0) vs row id2=60	
3.337row id1=(8406, 1) (Ws-2) vs row id2=96	
3.338row id1=(8407, 1) (Wt-5) vs row id2=74	
3.339row id1=(8408, 1) (Yo-0) vs row id2=61	
3.340row id1=(8409, 1) (Zdr-1) vs row id2=25	
3.341row id1=(8410, 1) (Zdr-6) vs row id2=26	
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4.1 col id1=AtMSQTsnp 10 vs col id2=AtMSQTsnp 10	119
4.1 col id1=AtMSQTsnp 10 vs col id2=AtMSQTsnp 10	119 120
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4.76 \text{ col id1} = \text{AtMSQTsnp } 30 \text{ vs col id2} = \text{AtMSQTsnp } 30 \dots 147
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4.120col id1=AtMSQTsnp 409 vs col id2=AtMSQTsnp 409
4.121col id1=AtMSQTsnp 41 vs col id2=AtMSQTsnp 41
4.122col id1=AtMSQTsnp 410 vs col id2=AtMSQTsnp 410
4.123col id1=AtMSQTsnp 412 vs col id2=AtMSQTsnp 412
4.124col id1=AtMSQTsnp 415 vs col id2=AtMSQTsnp 415
4.125col id1=AtMSQTsnp 47 vs col id2=AtMSQTsnp 47
4.126col id1=AtMSQTsnp 48 vs col id2=AtMSQTsnp 48
4.127col id1=AtMSQTsnp 49 vs col id2=AtMSQTsnp 49
4.128col id1=AtMSQTsnp 53 vs col id2=AtMSQTsnp 53
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4.142col id1=AtMSQTsnp 85 vs col id2=AtMSQTsnp 85
4.143col id1=AtMSQTsnp 87 vs col id2=AtMSQTsnp 87
4.144col id1=AtMSQTsnp 88 vs col id2=AtMSQTsnp 88
4.145col id1=AtMSQTsnp 9 vs col id2=AtMSQTsnp 9
4.146col id1=AtMSQTsnp 90 vs col id2=AtMSQTsnp 90
4.147col id1=AtMSQTsnp 91 vs col id2=AtMSQTsnp 91
4.148col id1=AtMSQTsnp 92 vs col id2=AtMSQTsnp 92
4.149col id1=AtMSQTsnp 97 vs col id2=AtMSQTsnp 97

1 Summary

Table 1: data_y10001101.tsv vs data_2010_x_149SNP_y1.tsv

		-	NA	A	С	G	T	AC	\overline{AG}	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	3094	13	222	1037	848	1118	720	0	3	0	3	4	1
A	5179	3	296	6332	13	28	4	4	18	5	0	0	0
C	4283	0	296	6	5061	9	27	0	0	0	5	9	0
G	5186	0	284	36	2	6310	7	0	10	0	2	0	3
T	4535	7	244	4	22	7	5614	0	0	2	0	7	4
AC	23	0	1	12	0	0	0	0	0	0	0	0	0
AG	24	0	3	0	0	0	0	0	0	0	0	0	0
AT	7	0	0	0	0	0	1	0	0	1	0	0	0
$^{\mathrm{CG}}$	5	0	0	0	0	0	0	0	0	0	0	0	0
CT	66	0	3	0	24	0	2	0	0	0	0	1	0
GT	6	0	0	0	0	1	0	0	0	0	0	0	0

2 Real Mismatches (deletion/NA excluded)

Table 2: mismatches (deletion/NA excluded)

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 100	G	27	AtMSQTsnp 100	A
(5837, 1)/Bor-1	AtMSQTsnp 12	G	27	AtMSQTsnp 12	A
(5837, 1)/Bor-1	AtMSQTsnp 123	A	27	AtMSQTsnp 123	G
(5837, 1)/Bor-1	AtMSQTsnp 129	A	27	AtMSQTsnp 129	G
(5837, 1)/Bor-1	AtMSQTsnp 130	C	27	AtMSQTsnp 130	T
(5837, 1)/Bor-1	AtMSQTsnp 145	C	27	AtMSQTsnp 145	T
(5837, 1)/Bor-1	AtMSQTsnp 159	C	27	AtMSQTsnp 159	T
(5837, 1)/Bor-1	AtMSQTsnp 177	G	27	AtMSQTsnp 177	A
(5837, 1)/Bor-1	AtMSQTsnp 184	A	27	AtMSQTsnp 184	T
(5837, 1)/Bor-1	AtMSQTsnp 187	Γ	27	AtMSQTsnp 187	A
(5837, 1)/Bor-1	AtMSQTsnp 188	C	27	AtMSQTsnp 188	T
(5837, 1)/Bor-1	AtMSQTsnp 191	A	27	AtMSQTsnp 191	C
(5837, 1)/Bor-1	AtMSQTsnp 194	Γ	27	AtMSQTsnp 194	A
(5837, 1)/Bor-1	AtMSQTsnp 2	G	27	AtMSQTsnp 2	A
(5837, 1)/Bor-1	AtMSQTsnp 21	$\mid T \mid$	27	AtMSQTsnp 21	C
(5837, 1)/Bor-1	AtMSQTsnp 22	A	27	AtMSQTsnp 22	G
(5837, 1)/Bor-1	AtMSQTsnp 220	A	27	AtMSQTsnp 220	G
(5837, 1)/Bor-1	AtMSQTsnp 223	A	27	AtMSQTsnp 223	G
(5837, 1)/Bor-1	AtMSQTsnp 249	G	27	AtMSQTsnp 249	A
(5837, 1)/Bor-1	AtMSQTsnp 254	A	27	AtMSQTsnp 254	C
(5837, 1)/Bor-1	AtMSQTsnp 263	С	27	AtMSQTsnp 263	T

(5837, 1)/Bor-1	AtMSQTsnp 278	A	27	AtMSQTsnp 278	G
(5837, 1)/Bor-1	AtMSQTsnp 286	G	27	AtMSQTsnp 286	С
(5837, 1)/Bor-1	AtMSQTsnp 288	A	27	AtMSQTsnp 288	G
(5837, 1)/Bor-1	AtMSQTsnp 294	G	27	AtMSQTsnp 294	$\widetilde{\mathrm{T}}$
(5837, 1)/Bor-1	AtMSQTsnp 30	$\begin{array}{c} G \\ T \end{array}$	27	AtMSQTsnp 30	C
	AtMSQTsnp 300	G	27	AtMSQTsnp 300	
(5837, 1)/Bor-1		l			A
(5837, 1)/Bor-1	AtMSQTsnp 31	T	27	AtMSQTsnp 31	G
(5837, 1)/Bor-1	AtMSQTsnp 310	A	27	AtMSQTsnp 310	C
(5837, 1)/Bor-1	AtMSQTsnp 321	A	27	AtMSQTsnp 321	$^{\rm C}$
(5837, 1)/Bor-1	AtMSQTsnp 323	G	27	AtMSQTsnp 323	A
(5837, 1)/Bor-1	AtMSQTsnp 325	\sim	27	AtMSQTsnp 325	T
(5837, 1)/Bor-1	AtMSQTsnp 343	T	27	AtMSQTsnp 343	С
(5837, 1)/Bor-1	AtMSQTsnp 355	G	27	AtMSQTsnp 355	Τ
(5837, 1)/Bor-1	AtMSQTsnp 358	G	27	AtMSQTsnp 358	A
(5837, 1)/Bor-1	AtMSQTsnp 368	G	27	AtMSQTsnp 368	A
(5837, 1)/Bor-1	AtMSQTsnp 370	A	27	AtMSQTsnp 370	\mathbf{G}
(5837, 1)/Bor-1	AtMSQTsnp 373	A	27	AtMSQTsnp 373	G
(5837, 1)/Bor-1 (5837, 1)/Bor-1	AtMSQTsnp 379	A	27	AtMSQTsnp 379	G
(5837, 1)/Bor-1		A	27	AtMSQTsnp 388	C
	AtMSQTsnp 388	l		• •	
(5837, 1)/Bor-1	AtMSQTsnp 390	C	27	AtMSQTsnp 390	T
(5837, 1)/Bor-1	AtMSQTsnp 394	A	27	AtMSQTsnp 394	G
(5837, 1)/Bor-1	AtMSQTsnp 398	G	27	AtMSQTsnp 398	C
(5837, 1)/Bor-1	AtMSQTsnp 40	C	27	AtMSQTsnp 40	G
(5837, 1)/Bor-1	AtMSQTsnp 406	A	27	AtMSQTsnp 406	G
(5837, 1)/Bor-1	AtMSQTsnp 408	A	27	AtMSQTsnp 408	G
(5837, 1)/Bor-1	AtMSQTsnp 410	G	27	AtMSQTsnp 410	A
(5837, 1)/Bor-1	AtMSQTsnp 48	C	27	AtMSQTsnp 48	${ m T}$
(5837, 1)/Bor-1	AtMSQTsnp 49	$\tilde{\mathbf{C}}$	27	AtMSQTsnp 49	T
(5837, 1)/Bor-1	AtMSQTsnp 57	$\dot{\mathbf{C}}$	27	AtMSQTsnp 57	$\bar{\mathrm{T}}$
(5837, 1)/Bor-1	AtMSQTsnp 58	\ddot{c}	27	AtMSQTsnp 58	G
(5837, 1)/Bor-1	AtMSQTsnp 67	A	27	AtMSQTsnp 67	G
		$\stackrel{\Lambda}{\mathrm{C}}$	27		T
(5837, 1)/Bor-1	AtMSQTsnp 76	l		AtMSQTsnp 76	
(5837, 1)/Bor-1	AtMSQTsnp 88	G	27	AtMSQTsnp 88	A
(5837, 1)/Bor-1	AtMSQTsnp 91	A	27	AtMSQTsnp 91	G
(5837, 1)/Bor-1	AtMSQTsnp 92	A	27	AtMSQTsnp 92	G
(5837, 1)/Bor-1	AtMSQTsnp 97	C	27	AtMSQTsnp 97	G
(6008, 2)/Duk	AtMSQTsnp 278	G	378	AtMSQTsnp 278	A
(6042, 2)/Lom1-1	AtMSQTsnp 278	G	351	AtMSQTsnp 278	A
(6043, 1)/L	AtMSQTsnp 370	G	11	AtMSQTsnp 370	A
(6046, 1)/L	AtMSQTsnp 370	G	12	AtMSQTsnp 370	A
(6088, 1)/Stu1-1	AtMSQTsnp 274	T	363	AtMSQTsnp 274	G
(6897, 1)/Ag-0	AtMSQTsnp 267	CT	67	AtMSQTsnp 267	\mathbf{C}
(6897, 1)/Ag-0	AtMSQTsnp 315	AT	67	AtMSQTsnp 315	$\stackrel{\circ}{\mathrm{T}}$
(6900, 1)/Bil-5	AtMSQTsnp 370	G	15	AtMSQTsnp 370	A
(6901, 1)/Bil-7	AtMSQTsnp 370	G	16	AtMSQTsnp 370	A
(6904, 1)/Br-0	AtMSQTsnp 267	CT	65	AtMSQTsnp 267	$\stackrel{A}{\text{C}}$
(6907, 1)/CIBC-17	• •		40		G
	AtMSQTsnp 114	$\begin{array}{ c c } A \\ T \end{array}$		AtMSQTsnp 114	
(6907, 1)/CIBC-17	AtMSQTsnp 159	l	40	AtMSQTsnp 159	С
(6907, 1)/CIBC-17	AtMSQTsnp 223	A	40	AtMSQTsnp 223	G
(6907, 1)/CIBC-17	AtMSQTsnp 244	A	40	AtMSQTsnp 244	G
(6907, 1)/CIBC-17	AtMSQTsnp 267	CT	40	AtMSQTsnp 267	С
(6907, 1)/CIBC-17	AtMSQTsnp 307	$\mid T \mid$	40	AtMSQTsnp 307	A
(6907, 1)/CIBC-17	AtMSQTsnp 321	A	40	AtMSQTsnp 321	С
(6907, 1)/CIBC-17	AtMSQTsnp 327	Γ	40	AtMSQTsnp 327	G
(6907, 1)/CIBC-17	AtMSQTsnp 334	C	40	AtMSQTsnp 334	T
(6907, 1)/CIBC-17	AtMSQTsnp 415	G	40	AtMSQTsnp 415	A
(6908, 1)/CIBC-5	AtMSQTsnp 223	G	39	AtMSQTsnp 223	A
(6908, 1)/CIBC-5	AtMSQTsnp 244	G	39	AtMSQTsnp 244	A
(6908, 1)/CIBC-5	AtMSQTsnp 304	T	39	AtMSQTsnp 304	\mathbf{C}
(6908, 1)/CIBC-5	AtMSQTsnp 306	Ĉ	39	AtMSQTsnp 306	G
(6908, 1)/CIBC-5	AtMSQTsnp 307	A	39	AtMSQTsnp 307	$\overset{\smile}{\mathrm{T}}$
(6908, 1)/CIBC-5	AtMSQTsnp 321	$\stackrel{\mathbf{A}}{\mathbf{C}}$	39	AtMSQTsnp 321	A
	• •	l			T
(6908, 1)/CIBC-5	AtMSQTsnp 327	G	39	AtMSQTsnp 327	1
(6908, 1)/CIBC-5	AtMSQTsnp 334	Т	39	AtMSQTsnp 334	С
(6910, 1)/Ct-1	AtMSQTsnp 156	С	76	AtMSQTsnp 156	T
(6910, 1)/Ct-1	AtMSQTsnp 292	С	76	AtMSQTsnp 292	T
(6915, 1)/Ei-2	AtMSQTsnp 138	Γ	53	AtMSQTsnp 138	C
(6915, 1)/Ei-2	AtMSQTsnp 232	AC	53	AtMSQTsnp 232	A
(6916, 1)/Est-1	AtMSQTsnp 164	A	66	AtMSQTsnp 164	$^{\rm C}$
(6916, 1)/Est-1	AtMSQTsnp 232	AC	66	AtMSQTsnp 232	A
(6917, 1)/F2	AtMSQTsnp 138	CT	13	AtMSQTsnp 138	С
(6918, 1)/F4	AtMSQTsnp 282	A	14	AtMSQTsnp 282	AT
(6920, 1)/GOT-22	AtMSQTsnp 267	CT	46	AtMSQTsnp 267	$^{\rm C}$
(6920, 1)/GOT-22	AtMSQTsnp 306	G	46	AtMSQTsnp 306	CG
(6921, 1)/GOT-7	AtMSQTsnp 267	CT	45	AtMSQTsnp 267	C
(6923, 1)/HR-10	AtMSQTsnp 138	CT	34	AtMSQTsnp 138	$^{\circ}$
	AtMSQTsnp 138 AtMSQTsnp 114		33	AtMSQTsnp 138 AtMSQTsnp 114	AG
(609/LI)/UD 5		A	บบ	Tump&TSIID 114	1
(6924, 1)/HR-5	• •	CT	22	14MCOT 204	Т
(6924, 1)/HR-5	AtMSQTsnp 304	СТ	33	AtMSQTsnp 304	Т
(6924, 1)/HR-5 (6927, 1)/KNO-10	AtMSQTsnp 304 AtMSQTsnp 378	С	3	AtMSQTsnp 378	G
(6924, 1)/HR-5	AtMSQTsnp 304	l			1

(6932, 1)/Ler-1	AtMSQTsnp 159	C	55	AtMSQTsnp 159	T
(6932, 2)/Ler-1	AtMSQTsnp 159	C	55	AtMSQTsnp 159	Т
(6935, 1)/L	AtMSQTsnp 370	G	$\begin{vmatrix} 55 \\ 12 \end{vmatrix}$	AtMSQTsnp 370	A
		C	$\begin{bmatrix} 12 \\ 52 \end{bmatrix}$		T
(6936, 1)/Lz-0	AtMSQTsnp 159			AtMSQTsnp 159	
(6937, 1)/Mrk-0	AtMSQTsnp 138	CT	72	AtMSQTsnp 138	C
(6937, 1)/Mrk-0	AtMSQTsnp 325	T	72	AtMSQTsnp 325	С
(6938, 1)/Ms-0	AtMSQTsnp 173	G	92	AtMSQTsnp 173	A
(6938, 1)/Ms-0	AtMSQTsnp 177	A	92	AtMSQTsnp 177	\overline{AG}
(6938, 1)/Ms-0	AtMSQTsnp 220	G	92	AtMSQTsnp 220	A
(6938, 1)/Ms-0	AtMSQTsnp 222	Γ	92	AtMSQTsnp 222	G
(6938, 1)/Ms-0	AtMSQTsnp 249	A	92	AtMSQTsnp 249	AG
(6938, 1)/Ms-0	AtMSQTsnp 323	G	$\begin{vmatrix} 92\\92 \end{vmatrix}$	AtMSQTsnp 323	AG
		l			1
(6938, 1)/Ms-0	AtMSQTsnp 331	С	92	AtMSQTsnp 331	G
(6939, 1)/Mt-0	AtMSQTsnp 97	С	79	AtMSQTsnp 97	G
(6942, 1)/Nd-1	AtMSQTsnp 138	$\mid T \mid$	56	AtMSQTsnp 138	С
(6942, 1)/Nd-1	AtMSQTsnp 232	AC	56	AtMSQTsnp 232	A
(6943, 1)/NFA-10	AtMSQTsnp 159	T	36	AtMSQTsnp 159	$^{\rm C}$
(6943, 1)/NFA-10	AtMSQTsnp 232	AC	36	AtMSQTsnp 232	A
(6945, 1)/Nok-3	AtMSQTsnp 334	Γ	80	AtMSQTsnp 334	\mathbf{C}
(6946, 1)/Oy-0	AtMSQTsnp 232	AC	95	AtMSQTsnp 232	Ā
(6958, 1)/Ra-0	AtMSQTsnp 164	A	69	AtMSQTsnp 164	$^{\Lambda}$
		$\stackrel{\Lambda}{\mathrm{C}}$			
(6958, 1)/Ra-0	AtMSQTsnp 321	1	69	AtMSQTsnp 321	A
(6959, 1)/REN-1	AtMSQTsnp 267	CT	47	AtMSQTsnp 267	C
(6959, 1)/REN-1	AtMSQTsnp 281	CT	47	AtMSQTsnp 281	T
(6959, 1)/REN-1	AtMSQTsnp 388	C	47	AtMSQTsnp 388	A
(6959, 1)/REN-1	AtMSQTsnp 392	G	47	AtMSQTsnp 392	A
(6960, 1)/REN-11	AtMSQTsnp 266	G	48	AtMSQTsnp 266	GT
(6960, 1)/REN-11	AtMSQTsnp 267	CT	48	AtMSQTsnp 267	\mathbf{C}
(6960, 1)/REN-11	AtMSQTsnp 285	$^{\circ}$	48	AtMSQTsnp 285	$\overline{\mathrm{CT}}$
		$_{ m CT}$			C
(6961, 1)/Se-0	AtMSQTsnp 267	l	83	AtMSQTsnp 267	
(6970, 1)/Ts-1	AtMSQTsnp 232	AC	84	AtMSQTsnp 232	A
(6971, 1)/Ts-5	AtMSQTsnp 267	CT	85	AtMSQTsnp 267	С
(6971, 1)/Ts-5	AtMSQTsnp 370	G	85	AtMSQTsnp 370	A
(6972, 1)/Tsu-1	AtMSQTsnp 232	AC	78	AtMSQTsnp 232	A
(6972, 1)/Tsu-1	AtMSQTsnp 334	C	78	AtMSQTsnp 334	${ m T}$
(6976, 1)/Uod-7	AtMSQTsnp 267	CT	50	AtMSQTsnp 267	$^{\rm C}$
(6977, 1)/Van-0	AtMSQTsnp 101	A	64	AtMSQTsnp 101	ĀG
1 77	AtMSQTsnp 101 AtMSQTsnp 108	l			1
(6977, 1)/Van-0		G	64	AtMSQTsnp 108	AG
(6977, 1)/Van-0	AtMSQTsnp 11	T	64	AtMSQTsnp 11	СТ
(6977, 1)/Van-0	AtMSQTsnp 12	A	64	AtMSQTsnp 12	G
(6977, 1)/Van-0	AtMSQTsnp 188	C	64	AtMSQTsnp 188	CT
(6977, 1)/Van-0	AtMSQTsnp 194	$\mid T \mid$	64	AtMSQTsnp 194	AT
(6977, 1)/Van-0	AtMSQTsnp 197	A	64	AtMSQTsnp 197	\overline{AG}
(6977, 1)/Van-0	AtMSQTsnp 203	A	64	AtMSQTsnp 203	AT
(6977, 1)/Van-0	AtMSQTsnp 214	A	64	AtMSQTsnp 214	\overline{AG}
(6977, 1)/Van-0	AtMSQTsnp 220	A	64	AtMSQTsnp 220	G
(6977, 1)/Van-0	AtMSQTsnp 242	11 C	64	AtMSQTsnp 242	CT
				• •	1
(6977, 1)/Van-0	AtMSQTsnp 260	A	64	AtMSQTsnp 260	AC
(6977, 1)/Van-0	AtMSQTsnp 266	Γ	64	AtMSQTsnp 266	GT
(6977, 1)/Van-0	AtMSQTsnp 281	$\mid T \mid$	64	AtMSQTsnp 281	С
(6977, 1)/Van-0	AtMSQTsnp 285	Γ	64	AtMSQTsnp 285	CT
(6977, 1)/Van-0	AtMSQTsnp 29	A	64	AtMSQTsnp 29	AT
(6977, 1)/Van-0	AtMSQTsnp 323	A	64	AtMSQTsnp 323	\overline{AG}
(6977, 1)/Van-0	AtMSQTsnp 359	G	64	AtMSQTsnp 359	GT
(6977, 1)/Van-0	AtMSQTsnp 378	C	64	AtMSQTsnp 378	\overline{CG}
(6977, 1)/Van-0	AtMSQTsnp 390	$\stackrel{\circ}{\mathrm{T}}$	64	AtMSQTsnp 390	CT
(6977, 1)/Van-0	AtMSQTsnp 395	A	64	AtMSQTsnp 395	AG
	AtMSQTsnp 397	$\begin{array}{c c} A \\ T \end{array}$	$\begin{vmatrix} 64 \\ 64 \end{vmatrix}$		GT
(6977, 1)/Van-0		l		AtMSQTsnp 397	1
(6977, 1)/Van-0	AtMSQTsnp 410	G	64	AtMSQTsnp 410	AG
(6977, 1)/Van-0	AtMSQTsnp 63	A	64	AtMSQTsnp 63	AC
(6977, 1)/Van-0	AtMSQTsnp 8	G	64	AtMSQTsnp 8	\overline{AG}
(6977, 1)/Van-0	AtMSQTsnp 90	C	64	AtMSQTsnp 90	CT
(6977, 1)/Van-0	AtMSQTsnp 97	С	64	AtMSQTsnp 97	CG
(6979, 1)/Wei-0	AtMSQTsnp 232	AC	59	AtMSQTsnp 232	A
(6980, 1)/Ws-0	AtMSQTsnp 267	CT	60	AtMSQTsnp 267	C
(6981, 1)/Ws-2	AtMSQTsnp 370	G	96	AtMSQTsnp 370	A
1 ' //		l		• •	1
(6982, 1)/Wt-5	AtMSQTsnp 334	C	74	AtMSQTsnp 334	T
(6984, 1)/Zdr-1	AtMSQTsnp 232	AC	25	AtMSQTsnp 232	A
(6984, 1)/Zdr-1	AtMSQTsnp 260	A	25	AtMSQTsnp 260	С
(6985, 1)/Zdr-6	AtMSQTsnp 267	CT	26	AtMSQTsnp 267	$^{\rm C}$
(7438, 1)/N13	AtMSQTsnp 169	GT	58	AtMSQTsnp 169	G
(7516, 1)/V-1	AtMSQTsnp 138	$\overline{\mathrm{CT}}$	17	AtMSQTsnp 138	\mathbf{C}
(7519, 1)/	AtMSQTsnp 267	CT	$\begin{vmatrix} 1 \\ 22 \end{vmatrix}$	AtMSQTsnp 267	C
(7519, 1)/ $(7519, 1)/$	AtMSQTsnp 373	G	$\begin{vmatrix} 22\\22\end{vmatrix}$	AtMSQTsnp 373	A
		l			
(7523, 1)/Pna-17	AtMSQTsnp 267	CT	7	AtMSQTsnp 267	C
(7524, 1)/Rmx-A02	AtMSQTsnp 232	AC	5	AtMSQTsnp 232	A
(7526, 1)/Pna-10	AtMSQTsnp 232	AC	8	AtMSQTsnp 232	A
(7526, 1)/Pna-10	AtMSQTsnp 267	CT	8	AtMSQTsnp 267	$^{\rm C}$
(8214, 1)/Gy-0	AtMSQTsnp 164	A	68	AtMSQTsnp 164	\mathbf{C}
	Tromp Tor				
(8215, 1)/Fei-0	AtMSQTsnp 223	G	82	AtMSQTsnp 223	\overline{AG}
(8215, 1)/Fei-0 (8215, 1)/Fei-0		l		AtMSQTsnp 223 AtMSQTsnp 232	AG A

(8246, 1)/NC-6 (8247, 1)/CBHC-17 (8273, 1)/CBHC-17 (8273, 1)/CBHC-17 (8273, 1)/CBHC-17 (8276, 1)/CBHC-						
(8246, 1)/NC-6 (8246, 1)/NC-6 (8246, 1)/NC-6 (8263, 1)/Bi-7 (8276, 1)/CIBC-17 AtMSQTsmp 370 G (8276, 1)/CIBC-17 AtMSQTsmp 370 G (8276, 1)/CIBC-17 AtMSQTsmp 138 CT 57 AMSQTsmp 144 A AMSQTsmp 149 AMSQTsmp 223 A AMSQTsmp 223 A AMSQTsmp 223 (8276, 1)/CIBC-17 ATMSQTsmp 241 AMSQTsmp 241 AMSQTsmp 307 C8276, 1)/CIBC-17 ATMSQTsmp 321 A AMSQTsmp 327 C8276, 1)/CIBC-17 ATMSQTsmp 321 A AMSQTsmp 327 C8276, 1)/CIBC-17 ATMSQTsmp 334 C AMSQTsmp 334 C AMSQTsmp 321 C8277, 1)/CIBC-5 ATMSQTsmp 334 C AMSQTsmp 349 C8277, 1)/CIBC-5 ATMSQTsmp 340 C8277, 1)/CIBC-5 ATMSQTsmp 360 C8277, 1)/CIBC-5 ATMSQTsmp 361 C8277, 1)/CIBC-5 ATMSQTsmp 370 C8277, 1)/CIBC-5 ATMSQTsmp 371 C8277, 1)/CIBC-5 ATMSQTsmp 372 C8277, 1)/CIBC-5 ATMSQTsmp 374 C8277, 1)/CIBC-5 ATMSQTsmp 377 C8277, 1)/CIBC-5 ATMSQTsmp 378 C8277, 1)/CIBC-5 ATMSQTsmp 379 C8277, 1)/CIBC-5 ATMSQTsmp 370 C8277, 1)/CI	(8234, 1)/Gul1-2	AtMSQTsnp 274	T	356	AtMSQTsnp 274	G
(8264, 1)/NC-6 (8263, 1)/RD-7 (8273, 1)/C24 (8276, 1)/C1BC-17 (8276, 1)/C1BC-17 (8276, 1)/C1BC-17 (8276, 1)/C1BC-17 (8276, 1)/C1BC-17 (8276, 1)/C1BC-17 AMSQTsnp 138 (T) (8276, 1)/C1BC-17 AMSQTsnp 139 (T) (8276, 1)/C1BC-17 AMSQTsnp 223 A 40 AMSQTsnp 139 (8276, 1)/C1BC-17 AMSQTsnp 237 AMSQTsnp 139 (8276, 1)/C1BC-17 AMSQTsnp 237 AMSQTsnp 237 AMSQTsnp 307 T 40 AMSQTsnp 231 (8276, 1)/C1BC-17 AMSQTsnp 307 T 40 AMSQTsnp 319 (8276, 1)/C1BC-17 AMSQTsnp 307 T 40 AMSQTsnp 321 (8276, 1)/C1BC-17 AMSQTsnp 307 T 40 AMSQTsnp 321 (8276, 1)/C1BC-17 AMSQTsnp 307 T 40 AMSQTsnp 321 (8276, 1)/C1BC-17 AMSQTsnp 327 T 40 AMSQTsnp 321 (8276, 1)/C1BC-17 AMSQTsnp 327 T 40 AMSQTsnp 321 (8276, 1)/C1BC-17 AMSQTsnp 327 T 40 AMSQTsnp 321 (8276, 1)/C1BC-15 AMSQTsnp 327 C8277, 1)/C1BC-5 AMSQTsnp 321 C8277, 1)/C1BC-5 AMSQTsnp 223 C8277, 1)/C1BC-5 AMSQTsnp 301 T 39 AMSQTsnp 301 T 39 AMSQTsnp 301 C8277, 1)/C1BC-5 AMSQTsnp 301 T 39 AMSQTsnp 301 C8277, 1)/C1BC-5 AMSQTsnp 301 T 39 AMSQTsnp 301 C8277, 1)/C1BC-5 AMSQTsnp 307 A	(8244, 1)/PHW-34	AtMSQTsnp 274	G	304	AtMSQTsnp 274	${ m T}$
(8264, 1)/NC-6 (8263, 1)/Bil-7 (8273, 1)/C24 (8276, 1)/CIBC-17 (8276, 1)/CIBC-15 (8277, 1)/CIBC-5 (8277, 1	(8246, 1)/NC-6	AtMSQTsnp 274	G	294	AtMSQTsnp 274	T
(8263, 1)/Bil-7	. , , ,		A	294		G
(8276. 1)/CIBC-17 (8276. 1)/CIBC-15 (8277. 1)/CIBC-5 (8277			G	16		A
(8276, 1)/CIBC-17			CT			С
(8276, 1)/CIBC-17 (8276, 1)/CIBC-5 (8277, 1)/CIBC-5						G
(8276, 1)/CIBC-17			1			$\tilde{\mathbf{C}}$
(\$276, 1)/CIBC-17 (\$277, 1)/CIBC-5 (\$277, 1)						Ğ
(8276, 1)/CIBC-17 (8276, 1)/CIBC-17 (8276, 1)/CIBC-17 (8276, 1)/CIBC-17 (8276, 1)/CIBC-17 (8276, 1)/CIBC-17 ARMSQTsnp 327 T 40 AMSQTsnp 327 AMSQTsnp 327 (8277, 1)/CIBC-5 ARMSQTsnp 334 C (8277, 1)/CIBC-5 ARMSQTsnp 340 (8277, 1)/CIBC-5 ARMSQTsnp 341 (8280, 1)/C+1 ARMSQTsnp 341 ARMSQTsnp						Ğ
(8276. 1)/CIBC-17	. , , ,					A
(8276, 1)/CIBC-17						C
(8276, 1)/CIBC-17						G
(8276, 1)/CIBC-17						T
(8277, 1)/CIBC-5 AtMSQTsnp 233 G 39 AtMSQTsnp 242 G (8277, 1)/CIBC-5 AtMSQTsnp 244 G 39 AtMSQTsnp 244 G (8277, 1)/CIBC-5 AtMSQTsnp 306 C 39 AtMSQTsnp 304 G (8277, 1)/CIBC-5 AtMSQTsnp 307 A 39 AtMSQTsnp 307 A (8277, 1)/CIBC-5 AtMSQTsnp 321 C 39 AtMSQTsnp 307 A (8284, 1)/DraII-1 AtMSQTsnp 321 C 39 AtMSQTsnp 307 A (8284, 1)/DraII-1 AtMSQTsnp 274 G 381 AtMSQTsnp 307 A (8284, 1)/DraII-1 AtMSQTsnp 278 A 381 AtMSQTsnp 278 A (8293, 1)/F4 AtMSQTsnp 278 A 381 AtMSQTsnp 278 A (8294, 1)/Fei-0 AtMSQTsnp 307 A 14 AtMSQTsnp 307 A (8294, 1)/Fei-0 AtMSQTsnp 306 G 46 AtMSQTsnp 307 A (8294, 1)/Fib-0 AtMSQTsnp 306 G 46 AtMSQTsnp 307 <td></td> <td></td> <td></td> <td></td> <td></td> <td>A</td>						A
(8277, 1)/CIBC-5						$\stackrel{\Lambda}{\mathrm{C}}$
(8277, 1)/CIBC-5		• •		1		A
(8277, 1)/CIBC-5		• •		1		
(8277, 1)/CIBC-5				1		A
(8277, 1)/CIBC-5 AtMSQTsnp 397 A 39 AtMSQTsnp 321 C 38 AtMSQTsnp 334 T 39 AtMSQTsnp 321 C 76 AtMSQTsnp 327 C 76 AtMSQTsnp 327 C 76 AtMSQTsnp 279 C 76 AtMSQTsnp 279 C 76 AtMSQTsnp 279 T 81 AtMSQTsnp 279 C 14 AtMSQTsnp 279 C 14 AtMSQTsnp 307 C 14 AtMSQTsnp 279 C 14 AtMSQTsnp 279 C 14 AtMSQTsnp 307 C 14 AtMSQTsnp 307 <t< td=""><td>. , ,,</td><td>-</td><td></td><td>1</td><td></td><td>С</td></t<>	. , ,,	-		1		С
(8277, 1)/CIBC-5		• •				G
(827, 1)/CIBC-5						T
(8280, 1)/Ct-1						A
(8284, 1)/Drall-1 AtMSQTsnp 274 G 381 AtMSQTsnp 278 d (8284, 1)/Drall-1 AtMSQTsnp 278 A 381 AtMSQTsnp 278 7 (8284, 1)/Drall-1 AtMSQTsnp 279 T 381 AtMSQTsnp 279 7 (8293, 1)/F4 AtMSQTsnp 307 C 14 AtMSQTsnp 97 C (8294, 1)/Fel-0 AtMSQTsnp 223 G 82 AtMSQTsnp 97 C (8309, 1)/HR-5 AtMSQTsnp 138 CT 91 AtMSQTsnp 306 G 46 AtMSQTsnp 138 CT (8310, 1)/Kin-0 AtMSQTsnp 138 CT 91 AtMSQTsnp 138 CT 91 AtMSQTsnp 144 A 33 AtMSQTsnp 159 C 34 AtMSQTsnp 138 CT 91 AtMSQTsnp 138 CT 91 AtMSQTsnp 138 CT 91 AtMSQTsnp 138 CT 34 AtMSQTsnp 138 CT 34 AtMSQTsnp 138 CT 34 AtMSQTsnp 138 CT 34 AtMSQTsnp 159 C 55 AtMSQTsnp 159 CT<						С
(8284, 1)/DraII-1 AtMSQTsnp 279 T 381 AtMSQTsnp 279 C (8293, 1)/F4 AtMSQTsnp 307 A 14 AtMSQTsnp 307 C (8294, 1)/Fei-0 AtMSQTsnp 97 C 14 AtMSQTsnp 307 C (8294, 1)/Fei-0 AtMSQTsnp 306 G 46 AtMSQTsnp 306 G 42 AtMSQ	. , , ,	AtMSQTsnp 292		1	AtMSQTsnp 292	T
(8284, 1)/DraII-1 AMSQTsnp 279 T 381 AMSQTsnp 370 A 14 AMSQTsnp 370 A AMSQTsnp 114 A 33 AMSQTsnp 114 A AMSQTsnp 114 A AMSQTsnp 114 AMSQTsnp 114 A AMSQTsnp 114 AMSQTsnp 114 AMSQTsnp 114 AMSQTsnp 115 C A AMSQTsnp 114 AMSQTsnp 115 C A AMSQTsnp 115 C A AMSQTsnp 115 C 52 AMSQTsnp 115 C A AMSQTsnp 15 C 52 AMSQTsnp 159 C 52 AMSQTsnp 159 C 52 AMSQTsnp 159 A AMSQT	. , , ,	AtMSQTsnp 274	G	381	AtMSQTsnp 274	T
(8293, 1)/F4 AtMSQTsnp 307 A 14 AtMSQTsnp 307 C 14 AtMSQTsnp 27 C 14 AtMSQTsnp 307 C 14 AtMSQTsnp 223 G 82 AtMSQTsnp 223 G 82 AtMSQTsnp 306 G 46 AtMSQTsnp 306 G 8309, 1)/HR-5 AtMSQTsnp 114 A 33 AtMSQTsnp 136 C 1 AtMSQTsnp 114 A 33 AtMSQTsnp 138 C 91 AtMSQTsnp 138 C 34 AtMSQTsnp 159 C 55 AtMSQTsnp 159 C 52 AtMSQTsnp 159 C 52 AtMSQTsnp 159 AtMSQTsnp 323 G 92	(8284, 1)/DraII-1	AtMSQTsnp 278	A	381		\overline{AG}
(8293, 1)/F4 AtMSQTsnp 97 C 14 AtMSQTsnp 97 (8294, 1)/Got-22 AtMSQTsnp 230 G 82 AtMSQTsnp 306 G (8309, 1)/HR-5 AtMSQTsnp 114 A 33 AtMSQTsnp 138 CT 91 AtMSQTsnp 138 G (8317, 1)/Kn-0 AtMSQTsnp 138 CT 91 AtMSQTsnp 138 G 3 AtMSQTsnp 138 G 4 AtMSQTsnp 138 G 4 AtMSQTsnp 159 C 55 AtMSQTsnp 159 C 55 AtMSQTsnp 159 C 52 AtMSQTsnp 159 C 4 AtMSQTsnp 159 C 4 AtMSQTsnp 159 C 4 AtMSQTsnp 159 C AtMSQTsnp 159 AtMSQTsnp 169 AtMSQTsnp 169 AtMSQTsnp 169 AtMSQTs	. , , ,		T	381		CT
(8294, 1)/Fei-0	(8293, 1)/F4	AtMSQTsnp 307	A	14	AtMSQTsnp 307	${ m T}$
(8298, 1)/Got-22 AtMSQTsnp 114 A 33 AtMSQTsnp 114 A 33 AtMSQTsnp 114 A A 33 AtMSQTsnp 114 A A 33 AtMSQTsnp 118 CT 91 AtMSQTsnp 138 CT 91 AtMSQTsnp 138 C 3 AtMSQTsnp 138 C 4 AtMSQTsnp 159 C 55 AtMSQTsnp 159 C 8324,1/Ler-1 AtMSQTsnp 159 C 55 AtMSQTsnp 159 C 8340,1/Ms-0 AtMSQTsnp 177 A 92 AtMSQTsnp 159 T 2 AtMSQTsnp 159 T 2 AtMSQTsnp 173 G 92 AtMSQTsnp 173 G 8341,1/Ms-0 AtMSQTsnp 173 G	(8293, 1)/F4	AtMSQTsnp 97	С	14	AtMSQTsnp 97	CG
(8309, 1)/HR-5 (8316, 1)/Kin-0 (8317, 1)/Kno-10 (8319, 1)/Kno-10 (8324, 1)/Ler-1 (8324, 1)/Ler-1 (8324, 1)/Ler-1 (8326, 1)/Lz-0 AtMSQTsnp 159 C 55 AtMSQTsnp 159 C 53 AtMSQTsnp 159 C 53 AtMSQTsnp 159 C 6336, 1)/Lz-0 AtMSQTsnp 325 T 72 AtMSQTsnp 159 C 8340, 1)/Ms-0 AtMSQTsnp 177 A 92 AtMSQTsnp 177 A 4MSQTsnp 177 A 92 AtMSQTsnp 177 A 4MSQTsnp 177 A 92 AtMSQTsnp 177 A 4MSQTsnp 177 A 92 AtMSQTsnp 177 A AtMSQTsnp 177 A 4MSQTsnp 179 AtMSQTsnp 177 A 92 AtMSQTsnp 177 A 4MSQTsnp 179 AtMSQTsnp 177 A 92 AtMSQTsnp 177 A 4MSQTsnp 179 AtMSQTsnp 279 AtMSQTsnp 334 C 78 AtMSQTsnp 334 C 78 AtMSQTsnp 110 AtMSQTsnp 120 AtMSQTsnp 110 AtMSQTsnp 120 At	(8294, 1)/Fei-0	AtMSQTsnp 223	G	82	AtMSQTsnp 223	\overline{AG}
(8316, 1)/Kin-0 (8317, 1)/Kno-10 (8317, 1)/Kno-10 (8319, 1)/Kondara (8320, 1)/Kz-1 (8324, 1)/Ler-1 (8324, 1)/Ler-1 (8324, 1)/Ler-0 AtMSQTsnp 15 (8336, 1)/Lz-0 (8336, 1)/Lz-0 (8336, 1)/Lz-0 AtMSQTsnp 15 (8336, 1)/Lz-0 (8340, 1)/Ms-0 AtMSQTsnp 15 (8340, 1)/Ms-0 (8340, 1)/Ms-0 (8340, 1)/Ms-0 (8340, 1)/Ms-0 (8340, 1)/Ms-0 (8340, 1)/Ms-0 (8341, 1)/Ms-0 (8341, 1)/Ms-0 (8341, 1)/Ms-0 (8343, 1)/Ms-0 (8343, 1)/Ms-0 (8344, 1)/Ms-0 (8345, 1)/NFA-10 (8346, 1)/Ra-0 (8346, 1)/Pi-0 (8345, 1)/Pi-0 (8346, 1)/Pi-0 (8346, 1)/Ra-0 (8364, 1)/Ra-0 (8364, 1)/Ra-0 (8364, 1)/Ra-0 (8364, 1)/Ra-0 (8364, 1)/Ra-0 (8365, 1)/Pi-1 (8367, 1)/Ra-1 (8367, 1)/Ra-1 (8367, 1)/Ra-1 (8372, 1)/Ra-1 (8372, 1)/RRS-10 (8364, 1)/S-1 (8372, 1)/Ra-1 (8372, 1	(8298, 1)/Got-22	AtMSQTsnp 306	G	46	AtMSQTsnp 306	CG
(8316, 1)/Kin-0 (8317, 1)/Kno-10 (8317, 1)/Kno-10 (8319, 1)/Kondara (8320, 1)/Kz-1 (8324, 1)/Ler-1 (8324, 1)/Ler-1 (8324, 1)/Ler-1 (8336, 1)/Lz-0 (8336, 1)/Lz-0 (8336, 1)/Lz-0 (8336, 1)/Lz-0 (8340, 1)/Ms-0 (8341, 1)/Ms-0 (8341, 1)/Ms-0 (8343, 1)/Mr-0 (8343, 1)/Mr-0 (8344, 1)/Ms-0 (8344, 1)/Ms-0 (8345, 1)/NFA-10 (8347, 1)/No-0 (8345, 1)/NFA-10 (8356, 1)/Pi-0 (8356, 1)/Pi-0 (8356, 1)/Pi-0 (8364, 1)/Ra-0 (8364, 1)/Ra-0 (8364, 1)/Ra-0 (8364, 1)/Ra-0 (8364, 1)/Ra-0 (8364, 1)/Ra-0 (8364, 1)/Ra-1 (8364, 1)/Ra-1 (8364, 1)/Ra-1 (8364, 1)/Ra-1 (8364, 1)/Ra-1 (8364, 1)/Ra-1 (8364, 1)/Ra-0 (8364, 1)/	(8309, 1)/HR-5	AtMSQTsnp 114	A	33	AtMSQTsnp 114	\overline{AG}
(8317, 1)/Kno-10 (8319, 1)/Kondara (8319, 1)/Kondara (8320, 1)/Kz-1 (8324, 1)/Lz-1 (8324, 1)/Lz-1 (8324, 1)/Lz-1 (8336, 1)/Lz-0 (8336, 1)/Lz-0 (8336, 1)/Lz-0 (8338, 1)/Mrk-0 (8339, 1)/Mrk-0 (8340, 1)/Ms-0 (8341, 1)/Ms-0 (8343, 1)/NFA-10 (8343, 1)/NFA-10 (8344, 1)/Ns-0 (8345, 1)/NFA-10 (8347, 1)/Nok-3 (8345, 1)/Pi-0 (8347, 1)/Pi-0 (8356, 1)/Pi-0 (8364, 1)/Ra-0 (8400, 1)/Van-0 (84			CT	91		С
(8319, 1)/Kondara (8320, 1)/Kz-1 (8322, 1)/Kz-1 (8324, 1)/Ler-1 (8324, 1)/Ler-1 (8324, 1)/Ler-1 (8336, 1)/Lz-0 (8340, 1)/Ms-0 (8341, 1)/Ms-0	. , , ,		С	1		G
(8324, 1)/kz-1 (8324, 1)/ber-1 (8324, 1)/ber-1 (8324, 1)/ber-1 (8336, 1)/kz-0 (8340, 1)/ms-0 (8345, 1)/Rs-10 (8345, 1)/Rs-10 (8345, 1)/Rs-10 (8345, 1)/Rs-10 (8345, 1)/Rs-10 (8345, 1)/Rs-10 (8346, 1)/Rs-0 (8345, 1)/Rs-10 (8346, 1)/Rs-0 (8346, 1)/R						A
(8324, 1)/Ler-1						${ m T}$
(8336, 1)/Lz-0 (8339, 1)/Mrk-0 (8340, 1)/Ms-0 (8341, 1)/Ms-0 (8341, 1)/Ms-0 (8341, 1)/Ms-0 (8341, 1)/Ms-0 (8341, 1)/Ms-0 (8341, 1)/Ms-0 (8345, 1)/NFA-10 (8350, 1)/ (8350, 1)/ (8350, 1)/ (8356, 1)/Pi-0 (8450, 1)/ (8356, 1)/Pi-0 (8450, 1)/ (8356, 1)/Pi-0 (8450, 1)/ (8364, 1)/Ra-0 (8450, 1)/Ra-1 (84						Т
(8339, 1)/Mrk-0 (8340, 1)/Ms-0 (8341, 1)/Mt-0 (8340, 1)/Ms-0 (8341, 1)/Mt-0 (8341, 1)/Mt-0 (8345, 1)/Ms-0 (8345, 1)/NrA-10 (8356, 1)/Pi-0 (8347, 1)/Nok-3 (8356, 1)/Pi-0 (8347, 1)/Nok-3 (8356, 1)/Pi-0 (8356, 1)/Pi-0 (8356, 1)/Pi-0 (8356, 1)/Pi-0 (8356, 1)/Pi-0 (8364, 1)/Ra-0 (8356, 1)/Ra-0 (8356, 1)/Ra-0 (8356, 1)/Ra-0 (8364, 1)/Ra-0 (8367, 1)/Ra-1 (8360, 1)/Sa-1 (8360, 1)/Sa-1 (8360, 1)/Sa-1 (8360, 1)/Van-0 (8360, 1)/Van						$\overline{\mathrm{T}}$
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(8345, 1)/NFA-10	. , , ,					C
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(8400, 1)/Van-0 AtMSQTsnp 11 T 64 AtMSQTsnp 11 C (8400, 1)/Van-0 AtMSQTsnp 12 A 64 AtMSQTsnp 12 C (8400, 1)/Van-0 AtMSQTsnp 188 C 64 AtMSQTsnp 188 C (8400, 1)/Van-0 AtMSQTsnp 194 T 64 AtMSQTsnp 194 A (8400, 1)/Van-0 AtMSQTsnp 197 A 64 AtMSQTsnp 197 A (8400, 1)/Van-0 AtMSQTsnp 203 A 64 AtMSQTsnp 203 A (8400, 1)/Van-0 AtMSQTsnp 214 A 64 AtMSQTsnp 203 A (8400, 1)/Van-0 AtMSQTsnp 220 A 64 AtMSQTsnp 203 A (8400, 1)/Van-0 AtMSQTsnp 220 A 64 AtMSQTsnp 220 A (8400, 1)/Van-0 AtMSQTsnp 260 A 64 AtMSQTsnp 260 A (8400, 1)/Van-0 AtMSQTsnp 266 T 64 AtMSQTsnp 267 C (8400, 1)/Van-0 AtMSQTsnp 281 T 64 AtMSQTsnp 285 A	. , , ,		1	1		AG
(8400, 1)/Van-0 AtMSQTsnp 12 A 64 AtMSQTsnp 12 C (8400, 1)/Van-0 AtMSQTsnp 188 C 64 AtMSQTsnp 188 C (8400, 1)/Van-0 AtMSQTsnp 194 T 64 AtMSQTsnp 194 A (8400, 1)/Van-0 AtMSQTsnp 197 A 64 AtMSQTsnp 197 A (8400, 1)/Van-0 AtMSQTsnp 203 A 64 AtMSQTsnp 203 A (8400, 1)/Van-0 AtMSQTsnp 214 A 64 AtMSQTsnp 203 A (8400, 1)/Van-0 AtMSQTsnp 220 A 64 AtMSQTsnp 214 A (8400, 1)/Van-0 AtMSQTsnp 220 A 64 AtMSQTsnp 220 A (8400, 1)/Van-0 AtMSQTsnp 260 A 64 AtMSQTsnp 242 C (8400, 1)/Van-0 AtMSQTsnp 266 T 64 AtMSQTsnp 266 A (8400, 1)/Van-0 AtMSQTsnp 281 T 64 AtMSQTsnp 281 C (8400, 1)/Van-0 AtMSQTsnp 29 A 64 AtMSQTsnp 323	. , , ,					AG
(8400, 1)/Van-0 AtMSQTsnp 188 C 64 AtMSQTsnp 188 C (8400, 1)/Van-0 AtMSQTsnp 194 T 64 AtMSQTsnp 194 A (8400, 1)/Van-0 AtMSQTsnp 197 A 64 AtMSQTsnp 197 A (8400, 1)/Van-0 AtMSQTsnp 203 A 64 AtMSQTsnp 203 A (8400, 1)/Van-0 AtMSQTsnp 214 A 64 AtMSQTsnp 203 A (8400, 1)/Van-0 AtMSQTsnp 220 A 64 AtMSQTsnp 214 A (8400, 1)/Van-0 AtMSQTsnp 242 C 64 AtMSQTsnp 220 A (8400, 1)/Van-0 AtMSQTsnp 260 A 64 AtMSQTsnp 242 C (8400, 1)/Van-0 AtMSQTsnp 266 T 64 AtMSQTsnp 266 A (8400, 1)/Van-0 AtMSQTsnp 281 T 64 AtMSQTsnp 281 C (8400, 1)/Van-0 AtMSQTsnp 285 T 64 AtMSQTsnp 323 A (8400, 1)/Van-0 AtMSQTsnp 359 G 64 AtMSQTsnp 359 <	. , , ,			1		СТ
(8400, 1)/Van-0 AtMSQTsnp 194 T 64 AtMSQTsnp 194 T (8400, 1)/Van-0 AtMSQTsnp 197 A 64 AtMSQTsnp 197 A (8400, 1)/Van-0 AtMSQTsnp 203 A 64 AtMSQTsnp 203 A (8400, 1)/Van-0 AtMSQTsnp 214 A 64 AtMSQTsnp 214 A (8400, 1)/Van-0 AtMSQTsnp 220 A 64 AtMSQTsnp 220 A (8400, 1)/Van-0 AtMSQTsnp 242 C 64 AtMSQTsnp 242 C (8400, 1)/Van-0 AtMSQTsnp 266 T 64 AtMSQTsnp 260 A (8400, 1)/Van-0 AtMSQTsnp 267 C 64 AtMSQTsnp 267 C (8400, 1)/Van-0 AtMSQTsnp 281 T 64 AtMSQTsnp 281 C (8400, 1)/Van-0 AtMSQTsnp 29 A 64 AtMSQTsnp 29 A (8400, 1)/Van-0 AtMSQTsnp 359 G 64 AtMSQTsnp 359 G (8400, 1)/Van-0 AtMSQTsnp 378 C 64 AtMSQTsnp 390 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>G</td></td<>						G
(8400, 1)/Van-0 AtMSQTsnp 197 A 64 AtMSQTsnp 197 A (8400, 1)/Van-0 AtMSQTsnp 203 A 64 AtMSQTsnp 203 A (8400, 1)/Van-0 AtMSQTsnp 214 A 64 AtMSQTsnp 214 A (8400, 1)/Van-0 AtMSQTsnp 220 A 64 AtMSQTsnp 220 C (8400, 1)/Van-0 AtMSQTsnp 242 C 64 AtMSQTsnp 242 C (8400, 1)/Van-0 AtMSQTsnp 266 T 64 AtMSQTsnp 260 A (8400, 1)/Van-0 AtMSQTsnp 267 C 64 AtMSQTsnp 266 C (8400, 1)/Van-0 AtMSQTsnp 281 T 64 AtMSQTsnp 281 C (8400, 1)/Van-0 AtMSQTsnp 285 T 64 AtMSQTsnp 285 C (8400, 1)/Van-0 AtMSQTsnp 323 A 64 AtMSQTsnp 323 A (8400, 1)/Van-0 AtMSQTsnp 359 G 64 AtMSQTsnp 378 C (8400, 1)/Van-0 AtMSQTsnp 390 T 64 AtMSQTsnp 390 <	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					CT
(8400, 1)/Van-0 AtMSQTsnp 203 A 64 AtMSQTsnp 203 A (8400, 1)/Van-0 AtMSQTsnp 214 A 64 AtMSQTsnp 214 A (8400, 1)/Van-0 AtMSQTsnp 220 A 64 AtMSQTsnp 220 C (8400, 1)/Van-0 AtMSQTsnp 242 C 64 AtMSQTsnp 242 C (8400, 1)/Van-0 AtMSQTsnp 260 A 64 AtMSQTsnp 260 A (8400, 1)/Van-0 AtMSQTsnp 266 T 64 AtMSQTsnp 266 G (8400, 1)/Van-0 AtMSQTsnp 267 C 64 AtMSQTsnp 267 G (8400, 1)/Van-0 AtMSQTsnp 281 T 64 AtMSQTsnp 281 G (8400, 1)/Van-0 AtMSQTsnp 285 T 64 AtMSQTsnp 285 G (8400, 1)/Van-0 AtMSQTsnp 323 A 64 AtMSQTsnp 339 G (8400, 1)/Van-0 AtMSQTsnp 359 G 64 AtMSQTsnp 378 G (8400, 1)/Van-0 AtMSQTsnp 390 T 64 AtMSQTsnp 390 <						AT
(8400, 1)/Van-0 AtMSQTsnp 214 A 64 AtMSQTsnp 214 A (8400, 1)/Van-0 AtMSQTsnp 220 A 64 AtMSQTsnp 220 C (8400, 1)/Van-0 AtMSQTsnp 242 C 64 AtMSQTsnp 242 C (8400, 1)/Van-0 AtMSQTsnp 260 A 64 AtMSQTsnp 260 A (8400, 1)/Van-0 AtMSQTsnp 266 T 64 AtMSQTsnp 266 C (8400, 1)/Van-0 AtMSQTsnp 267 C 64 AtMSQTsnp 267 C (8400, 1)/Van-0 AtMSQTsnp 281 T 64 AtMSQTsnp 281 C (8400, 1)/Van-0 AtMSQTsnp 285 T 64 AtMSQTsnp 285 C (8400, 1)/Van-0 AtMSQTsnp 323 A 64 AtMSQTsnp 323 A (8400, 1)/Van-0 AtMSQTsnp 359 G 64 AtMSQTsnp 378 C (8400, 1)/Van-0 AtMSQTsnp 390 T 64 AtMSQTsnp 390 G (8400, 1)/Van-0 AtMSQTsnp 395 A A AtMSQTsnp 395 <t< td=""><td></td><td>• •</td><td></td><td></td><td></td><td>AG</td></t<>		• •				AG
(8400, 1)/Van-0 AtMSQTsnp 220 A 64 AtMSQTsnp 220 C (8400, 1)/Van-0 AtMSQTsnp 242 C 64 AtMSQTsnp 242 C (8400, 1)/Van-0 AtMSQTsnp 260 A 64 AtMSQTsnp 260 A (8400, 1)/Van-0 AtMSQTsnp 266 T 64 AtMSQTsnp 266 C (8400, 1)/Van-0 AtMSQTsnp 267 C 64 AtMSQTsnp 267 C (8400, 1)/Van-0 AtMSQTsnp 281 T 64 AtMSQTsnp 281 C (8400, 1)/Van-0 AtMSQTsnp 285 T 64 AtMSQTsnp 285 C (8400, 1)/Van-0 AtMSQTsnp 323 A 64 AtMSQTsnp 323 A (8400, 1)/Van-0 AtMSQTsnp 359 G 64 AtMSQTsnp 359 G (8400, 1)/Van-0 AtMSQTsnp 378 C 64 AtMSQTsnp 390 C (8400, 1)/Van-0 AtMSQTsnp 390 T 64 AtMSQTsnp 395 A (8400, 1)/Van-0 AtMSQTsnp 395 A A AtMSQTsnp 395 <t< td=""><td></td><td></td><td></td><td>1</td><td></td><td>AT</td></t<>				1		AT
(8400, 1)/Van-0 AtMSQTsnp 242 C 64 AtMSQTsnp 242 C (8400, 1)/Van-0 AtMSQTsnp 260 A 64 AtMSQTsnp 260 A (8400, 1)/Van-0 AtMSQTsnp 266 T 64 AtMSQTsnp 266 C (8400, 1)/Van-0 AtMSQTsnp 267 C 64 AtMSQTsnp 267 C (8400, 1)/Van-0 AtMSQTsnp 281 T 64 AtMSQTsnp 281 C (8400, 1)/Van-0 AtMSQTsnp 285 T 64 AtMSQTsnp 285 C (8400, 1)/Van-0 AtMSQTsnp 29 A 64 AtMSQTsnp 29 A (8400, 1)/Van-0 AtMSQTsnp 359 G 64 AtMSQTsnp 359 G (8400, 1)/Van-0 AtMSQTsnp 378 C 64 AtMSQTsnp 378 C (8400, 1)/Van-0 AtMSQTsnp 390 T 64 AtMSQTsnp 390 C (8400, 1)/Van-0 AtMSQTsnp 395 A 64 AtMSQTsnp 395 A		• •		1		AG
(8400, 1)/Van-0 AtMSQTsnp 260 A 64 AtMSQTsnp 260 A (8400, 1)/Van-0 AtMSQTsnp 266 T 64 AtMSQTsnp 266 C (8400, 1)/Van-0 AtMSQTsnp 267 C 64 AtMSQTsnp 267 C (8400, 1)/Van-0 AtMSQTsnp 281 T 64 AtMSQTsnp 281 C (8400, 1)/Van-0 AtMSQTsnp 285 T 64 AtMSQTsnp 285 C (8400, 1)/Van-0 AtMSQTsnp 29 A 64 AtMSQTsnp 29 A (8400, 1)/Van-0 AtMSQTsnp 323 A 64 AtMSQTsnp 323 A (8400, 1)/Van-0 AtMSQTsnp 359 G 64 AtMSQTsnp 359 G (8400, 1)/Van-0 AtMSQTsnp 378 C 64 AtMSQTsnp 378 C (8400, 1)/Van-0 AtMSQTsnp 390 T 64 AtMSQTsnp 390 C (8400, 1)/Van-0 AtMSQTsnp 395 A 64 AtMSQTsnp 395 A			1	1	AtMSQTsnp 220	G
(8400, 1)/Van-0 AtMSQTsnp 266 T 64 AtMSQTsnp 266 C (8400, 1)/Van-0 AtMSQTsnp 267 C 64 AtMSQTsnp 267 C (8400, 1)/Van-0 AtMSQTsnp 281 T 64 AtMSQTsnp 281 C (8400, 1)/Van-0 AtMSQTsnp 285 T 64 AtMSQTsnp 285 C (8400, 1)/Van-0 AtMSQTsnp 29 A 64 AtMSQTsnp 29 A (8400, 1)/Van-0 AtMSQTsnp 323 A 64 AtMSQTsnp 323 A (8400, 1)/Van-0 AtMSQTsnp 359 G 64 AtMSQTsnp 359 G (8400, 1)/Van-0 AtMSQTsnp 378 C 64 AtMSQTsnp 378 C (8400, 1)/Van-0 AtMSQTsnp 390 T 64 AtMSQTsnp 390 C (8400, 1)/Van-0 AtMSQTsnp 395 A 64 AtMSQTsnp 395 A	(8400, 1)/Van-0		C	64	AtMSQTsnp 242	CT
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	(8400, 1)/Van-0	AtMSQTsnp 260	A	64	AtMSQTsnp 260	AC
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		AtMSQTsnp 266		64	AtMSQTsnp 266	GT
(8400, 1)/Van-0 AtMSQTsnp 281 T 64 AtMSQTsnp 281 C (8400, 1)/Van-0 AtMSQTsnp 285 T 64 AtMSQTsnp 285 C (8400, 1)/Van-0 AtMSQTsnp 29 A 64 AtMSQTsnp 29 A (8400, 1)/Van-0 AtMSQTsnp 323 A 64 AtMSQTsnp 323 A (8400, 1)/Van-0 AtMSQTsnp 359 G 64 AtMSQTsnp 359 G (8400, 1)/Van-0 AtMSQTsnp 378 C 64 AtMSQTsnp 378 C (8400, 1)/Van-0 AtMSQTsnp 390 T 64 AtMSQTsnp 390 C (8400, 1)/Van-0 AtMSQTsnp 395 A 64 AtMSQTsnp 395 A			C	64		CT
(8400, 1)/Van-0 AtMSQTsnp 285 T 64 AtMSQTsnp 285 C (8400, 1)/Van-0 AtMSQTsnp 29 A 64 AtMSQTsnp 29 A (8400, 1)/Van-0 AtMSQTsnp 323 A 64 AtMSQTsnp 323 A (8400, 1)/Van-0 AtMSQTsnp 359 G 64 AtMSQTsnp 359 G (8400, 1)/Van-0 AtMSQTsnp 378 C 64 AtMSQTsnp 378 C (8400, 1)/Van-0 AtMSQTsnp 390 T 64 AtMSQTsnp 390 C (8400, 1)/Van-0 AtMSQTsnp 395 A 64 AtMSQTsnp 395 A						С
(8400, 1)/Van-0 AtMSQTsnp 29 A 64 AtMSQTsnp 29 A (8400, 1)/Van-0 AtMSQTsnp 323 A 64 AtMSQTsnp 323 A (8400, 1)/Van-0 AtMSQTsnp 359 G 64 AtMSQTsnp 359 G (8400, 1)/Van-0 AtMSQTsnp 378 C 64 AtMSQTsnp 378 G (8400, 1)/Van-0 AtMSQTsnp 390 T 64 AtMSQTsnp 390 G (8400, 1)/Van-0 AtMSQTsnp 395 A 64 AtMSQTsnp 395 A						СТ
(8400, 1)/Van-0 AtMSQTsnp 323 A 64 AtMSQTsnp 323 A (8400, 1)/Van-0 AtMSQTsnp 359 G 64 AtMSQTsnp 359 G (8400, 1)/Van-0 AtMSQTsnp 378 C 64 AtMSQTsnp 378 G (8400, 1)/Van-0 AtMSQTsnp 390 T 64 AtMSQTsnp 390 G (8400, 1)/Van-0 AtMSQTsnp 395 A 64 AtMSQTsnp 395 A		• •				AT
(8400, 1)/Van-0 AtMSQTsnp 359 G 64 AtMSQTsnp 359 G (8400, 1)/Van-0 AtMSQTsnp 378 C 64 AtMSQTsnp 378 G (8400, 1)/Van-0 AtMSQTsnp 390 T 64 AtMSQTsnp 390 G (8400, 1)/Van-0 AtMSQTsnp 395 A 64 AtMSQTsnp 395 A						AG
(8400, 1)/Van-0 AtMSQTsnp 378 C 64 AtMSQTsnp 378 C (8400, 1)/Van-0 AtMSQTsnp 390 T 64 AtMSQTsnp 390 C (8400, 1)/Van-0 AtMSQTsnp 395 A 64 AtMSQTsnp 395 A						GT
(8400, 1)/Van-0 AtMSQTsnp 390 T 64 AtMSQTsnp 390 G AtMSQTsnp 395 A 64 AtMSQTsnp 395 A			1			CG
(8400, 1)/Van-0 AtMSQTsnp 395 A 64 AtMSQTsnp 395 A	. , , , ,	• •				CT
						AG
(8400, 1)/Van-0 AtMSQTsnp 397 T 64 AtMSQTsnp 397 C						GT

(8400, 1)/Van-0	AtMSQTsnp 410	G	64	AtMSQTsnp 410	AG
(8400, 1)/Van-0	AtMSQTsnp 63	A	64	AtMSQTsnp 63	AC
(8400, 1)/Van-0	AtMSQTsnp 65	A	64	AtMSQTsnp 65	\overline{AG}
(8400, 1)/Van-0	AtMSQTsnp 8	G	64	AtMSQTsnp 8	\overline{AG}
(8400, 1)/Van-0	AtMSQTsnp 87	С	64	AtMSQTsnp 87	CT
(8400, 1)/Van-0	AtMSQTsnp 90	С	64	AtMSQTsnp 90	CT
(8400, 1)/Van-0	AtMSQTsnp 97	С	64	AtMSQTsnp 97	CG
(8407, 1)/Wt-5	AtMSQTsnp 334	С	74	AtMSQTsnp 334	T
(8408, 1)/Yo-0	AtMSQTsnp 138	CT	61	AtMSQTsnp 138	\mathbf{C}
(8409, 1)/Zdr-1	AtMSQTsnp 260	A	25	AtMSQTsnp 260	\mathbf{C}

3 Diff Matrix for each strain

3.1 row id1=(5837, 1) (Bor-1) vs row id2=27

Table 3: row id1=(5837, 1) (Bor-1) vs row id2=27

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	1	0	2	1	0	0	0	0	0	0
A	1	0	2	19	5	16	1	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	21	3	11	0	0	0	0	0	0
\mathbf{G}	0	0	1	11	2	17	2	0	0	0	0	0	0
${ m T}$	1	0	1	2	3	1	24	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 4: detailed difference for row id1=(5837, 1) (Bor-1) vs row id2=27

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 100	G	27	AtMSQTsnp 100	A
(5837, 1)/Bor-1	AtMSQTsnp 12	G	27	AtMSQTsnp 12	A
(5837, 1)/Bor-1	AtMSQTsnp 123	A	27	AtMSQTsnp 123	G
(5837, 1)/Bor-1	AtMSQTsnp 129	A	27	AtMSQTsnp 129	G
(5837, 1)/Bor-1	AtMSQTsnp 130	С	27	AtMSQTsnp 130	T
(5837, 1)/Bor-1	AtMSQTsnp 145	С	27	AtMSQTsnp 145	\mathbf{T}
(5837, 1)/Bor-1	AtMSQTsnp 159	С	27	AtMSQTsnp 159	T
(5837, 1)/Bor-1	AtMSQTsnp 177	G	27	AtMSQTsnp 177	A
(5837, 1)/Bor-1	AtMSQTsnp 184	A	27	AtMSQTsnp 184	\mathbf{T}
(5837, 1)/Bor-1	AtMSQTsnp 187	${ m T}$	27	AtMSQTsnp 187	A
(5837, 1)/Bor-1	AtMSQTsnp 188	С	27	AtMSQTsnp 188	T
(5837, 1)/Bor-1	AtMSQTsnp 191	A	27	AtMSQTsnp 191	С
(5837, 1)/Bor-1	AtMSQTsnp 194	${ m T}$	27	AtMSQTsnp 194	A
(5837, 1)/Bor-1	AtMSQTsnp 2	G	27	AtMSQTsnp 2	A
(5837, 1)/Bor-1	AtMSQTsnp 21	${ m T}$	27	AtMSQTsnp 21	С
(5837, 1)/Bor-1	AtMSQTsnp 22	A	27	AtMSQTsnp 22	G
(5837, 1)/Bor-1	AtMSQTsnp 220	A	27	AtMSQTsnp 220	G
(5837, 1)/Bor-1	AtMSQTsnp 223	A	27	AtMSQTsnp 223	G
(5837, 1)/Bor-1	AtMSQTsnp 249	G	27	AtMSQTsnp 249	A
(5837, 1)/Bor-1	AtMSQTsnp 254	A	27	AtMSQTsnp 254	С
(5837, 1)/Bor-1	AtMSQTsnp 263	С	27	AtMSQTsnp 263	T
(5837, 1)/Bor-1	AtMSQTsnp 278	A	27	AtMSQTsnp 278	G
(5837, 1)/Bor-1	AtMSQTsnp 286	G	27	AtMSQTsnp 286	С
(5837, 1)/Bor-1	AtMSQTsnp 288	A	27	AtMSQTsnp 288	G
(5837, 1)/Bor-1	AtMSQTsnp 294	G	27	AtMSQTsnp 294	T
(5837, 1)/Bor-1	AtMSQTsnp 30	${ m T}$	27	AtMSQTsnp 30	С
(5837, 1)/Bor-1	AtMSQTsnp 300	G	27	AtMSQTsnp 300	A
(5837, 1)/Bor-1	AtMSQTsnp 31	$\overline{\mathrm{T}}$	27	AtMSQTsnp 31	G
(5837, 1)/Bor-1	AtMSQTsnp 310	Ā	27	AtMSQTsnp 310	$\tilde{\mathrm{C}}$
(5837, 1)/Bor-1	AtMSQTsnp 321	A	27	AtMSQTsnp 321	$\tilde{\mathrm{C}}$
(5837, 1)/Bor-1	AtMSQTsnp 323	G	27	AtMSQTsnp 323	A
(5837, 1)/Bor-1	AtMSQTsnp 325	C	27	AtMSQTsnp 325	Γ
(5837, 1)/Bor-1	AtMSQTsnp 343	${ m T}$	27	AtMSQTsnp 343	$^{\rm L}$
(5837, 1)/Bor-1	AtMSQTsnp 355	G	27	AtMSQTsnp 355	Γ
(5837, 1)/Bor-1	AtMSQTsnp 358	G	27	AtMSQTsnp 358	A
(5837, 1)/Bor-1 (5837, 1)/Bor-1	AtMSQTsnp 368	G	27	AtMSQTsnp 368	A
(5837, 1)/Bor-1 (5837, 1)/Bor-1	AtMSQTsnp 370	A	27	AtMSQTsnp 370	G
(5837, 1)/Bor-1 (5837, 1)/Bor-1	AtMSQTsnp 373	A	27	AtMSQTsnp 373	G
(5837, 1)/Bor-1 (5837, 1)/Bor-1	AtMSQTsnp 379	A	$\frac{27}{27}$	AtMSQTsnp 379	G
(5051, 1)/DOI-1	Atmogram 579	A	21	Aumogramp 579	G

(5837, 1)/Bor-1	AtMSQTsnp 388	A	27	AtMSQTsnp 388	C
(5837, 1)/Bor-1	AtMSQTsnp 390	\mathbf{C}	27	AtMSQTsnp 390	T
(5837, 1)/Bor-1	AtMSQTsnp 394	A	27	AtMSQTsnp 394	G
(5837, 1)/Bor-1	AtMSQTsnp 398	G	27	AtMSQTsnp 398	C
(5837, 1)/Bor-1	AtMSQTsnp 40	\mathbf{C}	27	AtMSQTsnp 40	G
(5837, 1)/Bor-1	AtMSQTsnp 406	A	27	AtMSQTsnp 406	G
(5837, 1)/Bor-1	AtMSQTsnp 408	A	27	AtMSQTsnp 408	G
(5837, 1)/Bor-1	AtMSQTsnp 410	G	27	AtMSQTsnp 410	A
(5837, 1)/Bor-1	AtMSQTsnp 48	\mathbf{C}	27	AtMSQTsnp 48	T
(5837, 1)/Bor-1	AtMSQTsnp 49	\mathbf{C}	27	AtMSQTsnp 49	T
(5837, 1)/Bor-1	AtMSQTsnp 57	\mathbf{C}	27	AtMSQTsnp 57	T
(5837, 1)/Bor-1	AtMSQTsnp 58	\mathbf{C}	27	AtMSQTsnp 58	G
(5837, 1)/Bor-1	AtMSQTsnp 67	A	27	AtMSQTsnp 67	G
(5837, 1)/Bor-1	AtMSQTsnp 76	\mathbf{C}	27	AtMSQTsnp 76	T
(5837, 1)/Bor-1	AtMSQTsnp 88	G	27	AtMSQTsnp 88	A
(5837, 1)/Bor-1	AtMSQTsnp 91	A	27	AtMSQTsnp 91	G
(5837, 1)/Bor-1	AtMSQTsnp 92	A	27	AtMSQTsnp 92	G
(5837, 1)/Bor-1	AtMSQTsnp 97	\mathbf{C}	27	AtMSQTsnp 97	G

3.2 row id1=(5837, 2) (Bor-1) vs row id2=27

Table 5: row id1=(5837, 2) (Bor-1) vs row id2=27

		-	NA	Α	С	G	T	AC	$^{\mathrm{AG}}$	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	1	5	4	12	3	0	0	0	0	0	0
A	0	0	1	28	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	27	0	0	0	0	0	0	0	0
G	0	0	2	0	0	27	0	0	0	0	0	0	0
\mathbf{T}	0	0	1	0	0	0	36	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.3 row id1=(6008, 1) (Duk) vs row id2=378

Table 6: row id1=(6008, 1) (Duk) vs row id2=378

		-	NA	A	С	G	Τ	AC	\overline{AG}	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	29	0	0	0	0	0	0	0	0	0	0	0	0
A	28	0	0	1	0	0	0	0	0	0	0	0	0
\mathbf{C}	29	0	0	0	0	0	0	0	0	0	0	0	0
G	28	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{T}	31	0	0	0	0	0	2	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	1	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.4 row id1=(6008, 2) (Duk) vs row id2=378

Table 7: row id1=(6008, 2) (Duk) vs row id2=378

		-	NA	A	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	3	0	0	0	0	0	0	0	0	0	0	0	0
A	35	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	32	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	39	0	0	1	0	0	0	0	0	0	0	0	0
${ m T}$	37	0	0	0	0	0	2	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0

\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0	l
AT	0	0						_	0	0	0	0	0	İ
CG	0	0	0	0	0	0	0	0	0	0	0	0	0	l
CT	0	0	0	0	0	0	0	0	0	0	0	0	0	١
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 8: detailed difference for row id1=(6008, 2) (Duk) vs row id2=378

row id1	col id1	call1	row id2	col id2	call2
(6008, 2)/Duk	AtMSQTsnp 278	G	378	AtMSQTsnp 278	A

3.5 row id1=(6009, 1) (Eden-1) vs row id2=9

Table 9: row id1=(6009, 1) (Eden-1) vs row id2=9

		-	NA	Α	С	G	T	AC	$^{\mathrm{AG}}$	AT	$^{\mathrm{CG}}$	CT	$\mid GT \mid$
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	3	2	1	2	2	0	0	0	0	0	0
Α	1	0	3	36	0	0	0	0	0	0	0	0	0
С	0	0	1	0	28	0	0	0	0	0	0	0	0
G	0	0	3	0	0	29	0	0	0	0	0	0	0
Τ	1	0	3	0	0	0	34	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.6 row id1=(6009, 2) (Eden-1) vs row id2=9

Table 10: row id1=(6009, 2) (Eden-1) vs row id2=9

		-	NA	Α	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	3	2	1	2	2	0	0	0	0	0	0
A	1	0	3	36	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	28	0	0	0	0	0	0	0	0
G	0	0	3	0	0	29	0	0	0	0	0	0	0
${ m T}$	1	0	3	0	0	0	34	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.7 row id1=(6009, 3) (Eden-1) vs row id2=9

Table 11: row id1=(6009, 3) (Eden-1) vs row id2=9

		-	NA	A	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	1	1	1	1	0	0	0	0	0	0
A	1	0	3	37	0	0	0	0	0	0	0	0	0
$^{\rm C}$	0	0	1	0	28	0	0	0	0	0	0	0	0
G	0	0	6	0	0	30	0	0	0	0	0	0	0
\mathbf{T}	1	0	3	0	0	0	35	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.8 row id1=(6016, 1) (Eds-1) vs row id2=374

Table 12: row id1=(6016, 1) (Eds-1) vs row id2=374

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	30	0	0	0	0	0	0	0	0	0	0	0	0
A	36	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	21	0	0	0	0	0	0	0	0	0	0	0	0
G	26	0	0	0	0	2	0	0	0	0	0	0	0
${ m T}$	33	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.9 row id1=(6016, 2) (Eds-1) vs row id2=374

Table 13: row id1=(6016, 2) (Eds-1) vs row id2=374

		-	NA	Α	С	G	Τ	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	5	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	46	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	27	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	31	0	0	0	0	2	0	0	0	0	0	0	0
${ m T}$	37	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.10 row id1 = (6024, 1) (Fly2-2) vs row id2 = 346

Table 14: row id1=(6024, 1) (Fly2-2) vs row id2=346

		-	NA	A	С	G	Τ	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	3	0	0	0	0	0	0	0	0	0	0	0	0
A	40	0	1	0	0	0	0	0	0	0	0	0	0
С	24	0	0	0	0	0	0	0	0	0	0	0	0
G	41	0	0	0	0	1	0	0	0	0	0	0	0
${ m T}$	37	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.11 row id1=(6039, 1) (Hovdala-2) vs row id2=368

Table 15: row id1=(6039, 1) (Hovdala-2) vs row id2=368

		-	NA	A	С	G	Τ	AC	AG	AT	CG	CT	GT 0 0
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0

NA	27	0	0	0	0	0	0	0	0	0	0	0	0
A	37	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	28	0	0	0	0	0	0	0	0	0	0	0	0
G	30	0	0	0	0	2	0	0	0	0	0	0	0
T	24	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.12 row id1=(6039, 2) (Hovdala-2) vs row id2=368

Table 16: row id1=(6039, 2) (Hovdala-2) vs row id2=368

		-	NA	Α	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	11	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	41	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	32	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	35	0	0	0	0	2	0	0	0	0	0	0	0
${ m T}$	26	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	1	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.13 row id1=(6040, 1) (Kni-1) vs row id2=362

Table 17: row id1=(6040, 1) (Kni-1) vs row id2=362

		-	NA	A	С	G	T	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	26	0	0	0	0	0	0	0	0	0	0	0	0
A	33	0	1	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	27	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	32	0	0	0	0	1	0	0	0	0	0	0	0
${ m T}$	27	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.14 row id1=(6040, 2) (Kni-1) vs row id2=362

Table 18: row id1=(6040, 2) (Kni-1) vs row id2=362

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	5	0	0	0	0	0	0	0	0	0	0	0	0
A	42	0	1	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	27	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	41	0	0	0	0	1	0	0	0	0	0	0	0
\mathbf{T}	29	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	2	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.15 row id1=(6042, 1) (Lom1-1) vs row id2=351

Table 19: row id1=(6042, 1) (Lom1-1) vs row id2=351

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	25	0	0	1	0	0	0	0	0	0	0	0	0
A	32	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	26	0	0	0	0	0	0	0	0	0	0	0	0
G	32	0	1	0	0	0	0	0	0	0	0	0	0
Τ	31	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.16 row id1 = (6042, 2) (Lom1-1) vs row id2 = 351

Table 20: row id1=(6042, 2) (Lom1-1) vs row id2=351

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	6	0	0	0	0	0	0	0	0	0	0	0	0
Α	35	0	0	0	0	0	0	0	0	0	0	0	0
$^{\rm C}$	25	0	0	0	0	0	0	0	0	0	0	0	0
G	42	0	0	1	0	0	0	0	0	0	0	0	0
${ m T}$	38	0	1	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 21: detailed difference for row id1=(6042, 2) (Lom1-1) vs row id2=351

row id1	col id1	call1	row id2	col id2	call2
(6042, 2)/Lom1-1	AtMSQTsnp 278	G	351	AtMSQTsnp 278	A

3.17 row id1=(6043, 1) (L) vs row id2=11

Table 22: row id1=(6043, 1) (L) vs row id2=11

		-	NA	A	С	G	Т	AC	AG	AT	$\overline{\text{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	0	2	0	0	0	0	0	0	0
A	1	0	2	35	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	26	0	0	0	0	0	0	0	0
G	1	0	4	1	0	38	0	0	0	0	0	0	0
${ m T}$	2	0	3	0	0	0	33	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 23: detailed difference for row id1=(6043, 1) (L) vs row id2=11

row id1	col id1	call1	row id2	col id2	call2
(6043, 1)/L	AtMSQTsnp 370	G	11	AtMSQTsnp 370	A

3.18 row id1=(6043, 2) (L) vs row id2=11

Table 24: row id1=(6043, 2) (L) vs row id2=11

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	3	0	5	20	12	19	9	0	0	0	0	0	0
A	1	0	1	16	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	14	0	0	0	0	0	0	0	0
G	0	0	4	0	0	21	0	0	0	0	0	0	0
Τ	0	0	0	0	0	0	24	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.19 row id1=(6046, 1) (L) vs row id2=12

Table 25: row id1=(6046, 1) (L) vs row id2=12

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	1	1	0	0	0	0	0	0	0
A	0	0	2	36	0	0	0	0	0	0	0	0	0
С	0	0	2	0	24	0	0	0	0	0	0	0	0
G	1	0	2	1	0	41	0	0	0	0	0	0	0
${\rm T}$	0	0	1	0	0	0	37	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 26: detailed difference for row id1=(6046, 1) (L) vs row id2=12

row id1	col id1	call1	row id2	col id2	call2
(6046, 1)/L	AtMSQTsnp 370	G	12	AtMSQTsnp 370	A

3.20 row id1=(6046, 2) (L) vs row id2=12

Table 27: row id1=(6046, 2) (L) vs row id2=12

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	3	11	7	7	2	0	0	0	0	0	0
A	0	0	1	26	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	2	0	18	0	0	0	0	0	0	0	0
G	0	0	1	0	0	35	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	35	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.21 row id1=(6064, 1) (Nyl-2) vs row id2=375

		-	NA	A	С	G	Τ	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	26	0	0	0	0	0	0	0	0	0	0	0	0
A	34	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	20	0	0	0	0	0	0	0	0	0	0	0	0
G	33	0	0	0	0	2	0	0	0	0	0	0	0
${ m T}$	33	0	1	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.22 row id1=(6064, 2) (Nyl-2) vs row id2=375

Table 29: row id1=(6064, 2) (Nyl-2) vs row id2=375

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	0	0	0	0	0	0	0	0	0	0	0
A	46	0	0	0	0	0	0	0	0	0	0	0	0
С	24	0	0	0	0	0	0	0	0	0	0	0	0
G	39	0	0	0	0	2	0	0	0	0	0	0	0
T	36	0	1	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.23 row id1=(6074, 1) (-1) vs row id2=364

Table 30: row id1=(6074, 1) (-1) vs row id2=364

		-	NA	A	С	G	Τ	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	29	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	29	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	30	0	0	0	0	0	0	0	0	0	0	0	0
G	32	0	0	0	0	1	0	0	0	0	0	0	0
${ m T}$	26	0	0	0	0	0	2	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.24 row id1=(6074, 2) (-1) vs row id2=364

Table 31: row id1=(6074, 2) (-1) vs row id2=364

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	0	0	0	0	0	0	0	0	0	0	0
A	35	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	37	0	0	0	0	0	0	0	0	0	0	0	0
G	40	0	0	0	0	1	0	0	0	0	0	0	0
Τ	28	0	0	0	0	0	2	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0

AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	2	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.25 row id1=(6088, 1) (Stu1-1) vs row id2=363

Table 32: row id1=(6088, 1) (Stu1-1) vs row id2=363

		-	NA	Α	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	0	0	0	0	0	0	0	0	0	0	0
A	53	0	0	0	0	0	0	0	0	0	0	0	0
С	22	0	0	0	1	0	0	0	0	0	0	0	0
G	32	0	0	0	0	1	0	0	0	0	0	0	0
\mathbf{T}	34	0	0	0	0	1	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 33: detailed difference for row id1=(6088, 1) (Stu1-1) vs row id2=363

row id1	col id1	call1	row id2	col id2	call2
(6088, 1)/Stu1-1	AtMSQTsnp 274	Т	363	AtMSQTsnp 274	G

3.26 row id1=(6243, 1) (Tottarp-2) vs row id2=370

Table 34: row id1=(6243, 1) (Tottarp-2) vs row id2=370

		-	NA	A	С	G	Τ	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	30	0	0	0	0	0	0	0	0	0	0	0	0
A	33	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	25	0	0	0	0	0	0	0	0	0	0	0	0
G	26	0	0	0	0	1	0	0	0	0	0	0	0
${ m T}$	32	0	0	0	0	0	2	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.27 row id1=(6243, 2) (Tottarp-2) vs row id2=370

Table 35: row id1=(6243, 2) (Tottarp-2) vs row id2=370

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	0	0	0	0	0	0	0	0	0	0	0
A	45	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	31	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	30	0	0	0	0	1	0	0	0	0	0	0	0
${ m T}$	34	0	0	0	0	0	2	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	1	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.28 row id1=(6709, 1) (BG-2) vs row id2=299

Table 36: row id1=(6709, 1) (BG-2) vs row id2=299

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	0	0	0	0	0	0	0	0	0	0	0
A	35	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	33	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	44	0	0	0	0	1	0	0	0	0	0	0	0
${ m T}$	28	0	1	0	0	0	1	0	0	0	0	0	0
AC	1	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.29 row id1=(6830, 1) (KZ-13) vs row id2=298

Table 37: row id1=(6830, 1) (KZ-13) vs row id2=298

		-	NA	A	С	G	T	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	5	0	0	0	0	0	0	0	0	0	0	0	0
A	36	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	35	0	0	0	1	0	0	0	0	0	0	0	0
G	37	0	0	0	0	1	0	0	0	0	0	0	0
${ m T}$	32	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.30 row id1=(6897, 1) (Ag-0) vs row id2=67

Table 38: row id1=(6897, 1) (Ag-0) vs row id2=67

		-	NA	Α	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	2	3	3	4	1	0	0	0	0	0	0
A	1	0	2	33	0	0	0	0	0	0	0	0	0
С	0	0	2	0	29	0	0	0	0	0	0	0	0
G	0	0	1	0	0	36	0	0	0	0	0	0	0
${ m T}$	0	0	2	0	0	0	28	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	1	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	1	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 39: detailed difference for row id1=(6897, 1) (Ag-0) vs row id2=67

row id1	col id1	call1	row id2	col id2	call2
(6897, 1)/Ag-0	AtMSQTsnp 267	CT	67	AtMSQTsnp 267	С
(6897, 1)/Ag-0	AtMSQTsnp 315	AT	67	AtMSQTsnp 315	${ m T}$

Table 40: row id1=(6898, 1) (An-1) vs row id2=63

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	1	0	2	0	1	0	0	0	0	0	0
A	1	0	2	47	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	31	0	0	0	0	0	0	0	0
G	0	0	0	0	0	28	0	0	0	0	0	0	0
\mathbf{T}	0	0	0	0	0	0	36	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.32 row id1=(6899, 1) (Bay-0) vs row id2=70

Table 41: row id1=(6899, 1) (Bay-0) vs row id2=70

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	1	0	1	0	0	0	0	0	0	0
A	0	0	2	45	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	34	0	0	0	0	0	0	0	0
\mathbf{G}	1	0	1	0	0	33	0	0	0	0	0	0	0
${ m T}$	0	0	1	0	0	0	30	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.33 row id1=(6900, 1) (Bil-5) vs row id2=15

Table 42: row id1=(6900, 1) (Bil-5) vs row id2=15

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	1	0	2	1	0	0	0	0	0	0
A	0	0	3	37	0	0	0	0	0	0	0	0	0
$^{\rm C}$	0	0	1	0	25	0	0	0	0	0	0	0	0
G	0	0	2	1	0	40	0	0	0	0	0	0	0
\mathbf{T}	1	0	0	0	0	0	35	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 43: detailed difference for row id1=(6900, 1) (Bil-5) vs row id2=15

row id1	col id1	call1	row id2	col id2	call2
(6900, 1)/Bil-5	AtMSQTsnp 370	G	15	AtMSQTsnp 370	A

3.34 row id1=(6901, 1) (Bil-7) vs row id2=16

Table 44: row id1=(6901, 1) (Bil-7) vs row id2=16

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	1	0	0	2	2	0	0	0	0	0	0
Α	0	0	1	40	0	0	0	0	0	0	0	0	0
С	0	0	1	0	25	0	0	0	0	0	0	0	0
G	0	0	1	1	0	40	0	0	0	0	0	0	0
${\rm T}$	0	0	1	0	0	0	34	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 45: detailed difference for row id1=(6901, 1) (Bil-7) vs row id2=16

row id1	col id1	call1	row id2	col id2	call2
(6901, 1)/Bil-7	AtMSQTsnp 370	G	16	AtMSQTsnp 370	A

3.35 row id1=(6902, 1) (Bor-1) vs row id2=27

Table 46: row id1=(6902, 1) (Bor-1) vs row id2=27

		-	NA	A	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	1	0	1	1	0	0	0	0	0	0
A	1	0	2	32	0	0	0	0	0	0	0	0	0
С	0	0	0	0	31	0	0	0	0	0	0	0	0
G	0	0	2	0	0	38	0	0	0	0	0	0	0
${\rm T}$	1	0	1	0	0	0	38	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.36 row id1=(6903, 1) (Bor-4) vs row id2=28

Table 47: row id1=(6903, 1) (Bor-4) vs row id2=28

		-	NA	Α	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	2	0	2	2	0	0	0	0	0	0
A	0	0	0	39	0	0	0	0	0	0	0	0	0
С	0	0	2	0	26	0	0	0	0	0	0	0	0
G	0	0	1	0	0	38	0	0	0	0	0	0	0
\mathbf{T}	1	0	2	0	0	0	34	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.37 row id1=(6904, 1) (Br-0) vs row id2=65

Table 48: row id1=(6904, 1) (Br-0) vs row id2=65

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0

NA	0	0	0	0	2	3	0	0	0	0	0	0	0
A	0	0	0	42	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	2	0	33	0	0	0	0	0	0	0	0
G	0	0	1	0	0	34	0	0	0	0	0	0	0
T	1	0	2	0	0	0	28	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	1	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 49: detailed difference for row id1=(6904, 1) (Br-0) vs row id2=65

row id1	col id1	call1	row id2	col id2	call2
(6904, 1)/Br-0	AtMSQTsnp 267	CT	65	AtMSQTsnp 267	С

3.38 row id1=(6905, 1) (Bur-0) vs row id2=93

Table 50: row id1=(6905, 1) (Bur-0) vs row id2=93

		l	NA	Λ	\mathbf{C}	G	Т	AC	10	AT	CG	СТ	GT
		-		A	_		_		AG				
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	0	2	2	0	6	0	0	0	0	0	0
A	0	0	0	40	0	0	0	0	0	0	0	0	0
$^{\rm C}$	1	0	1	0	27	0	0	0	0	0	0	0	0
G	1	0	4	0	0	34	0	0	0	0	0	0	0
\mathbf{T}	2	0	0	0	0	0	28	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.39 row id1=(6906, 1) (C24) vs row id2=57

Table 51: row id1=(6906, 1) (C24) vs row id2=57

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	1	1	1	1	1	0	0	0	0	0	0
A	0	0	1	40	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	33	0	0	0	0	0	0	0	0
G	1	0	1	0	0	32	0	0	0	0	0	0	0
\mathbf{T}	2	0	1	0	0	0	32	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.40 row id1=(6907, 1) (CIBC-17) vs row id2=40

Table 52: row id1=(6907, 1) (CIBC-17) vs row id2=40

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	1	4	1	0	0	0	0	0	0
A	0	0	0	42	1	3	0	0	0	0	0	0	0
\mathbf{C}	0	0	2	0	27	0	1	0	0	0	0	0	0
G	0	0	2	1	0	31	0	0	0	0	0	0	0

T	1	0	0	1	1	1	28	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	1	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 53: detailed difference for row id1=(6907, 1) (CIBC-17) vs row id2=40

row id1	col id1	call1	row id2	col id2	call2
(6907, 1)/CIBC-17	AtMSQTsnp 114	A	40	AtMSQTsnp 114	G
(6907, 1)/CIBC-17	AtMSQTsnp 159	T	40	AtMSQTsnp 159	C
(6907, 1)/CIBC-17	AtMSQTsnp 223	A	40	AtMSQTsnp 223	G
(6907, 1)/CIBC-17	AtMSQTsnp 244	A	40	AtMSQTsnp 244	G
(6907, 1)/CIBC-17	AtMSQTsnp 267	CT	40	AtMSQTsnp 267	C
(6907, 1)/CIBC-17	AtMSQTsnp 307	T	40	AtMSQTsnp 307	A
(6907, 1)/CIBC-17	AtMSQTsnp 321	A	40	AtMSQTsnp 321	C
(6907, 1)/CIBC-17	AtMSQTsnp 327	Т	40	AtMSQTsnp 327	G
(6907, 1)/CIBC-17	AtMSQTsnp 334	\mathbf{C}	40	AtMSQTsnp 334	T
(6907, 1)/CIBC-17	AtMSQTsnp 415	G	40	AtMSQTsnp 415	A

3.41 row id1=(6908, 1) (CIBC-5) vs row id2=39

Table 54: row id1=(6908, 1) (CIBC-5) vs row id2=39

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	1	0	2	4	0	0	0	0	0	0	0
A	0	0	1	34	0	0	1	0	0	0	0	0	0
С	0	0	1	1	30	1	0	0	0	0	0	0	0
G	0	0	0	2	0	39	1	0	0	0	0	0	0
${ m T}$	0	0	0	0	2	0	29	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 55: detailed difference for row id1=(6908, 1) (CIBC-5) vs row id2=39

row id1	col id1	call1	row id2	col id2	call2
(6908, 1)/CIBC-5	AtMSQTsnp 223	G	39	AtMSQTsnp 223	A
(6908, 1)/CIBC-5	AtMSQTsnp 244	G	39	AtMSQTsnp 244	A
(6908, 1)/CIBC-5	AtMSQTsnp 304	T	39	AtMSQTsnp 304	C
(6908, 1)/CIBC-5	AtMSQTsnp 306	С	39	AtMSQTsnp 306	G
(6908, 1)/CIBC-5	AtMSQTsnp 307	A	39	AtMSQTsnp 307	T
(6908, 1)/CIBC-5	AtMSQTsnp 321	С	39	AtMSQTsnp 321	A
(6908, 1)/CIBC-5	AtMSQTsnp 327	G	39	AtMSQTsnp 327	T
(6908, 1)/CIBC-5	AtMSQTsnp 334	T	39	AtMSQTsnp 334	C

3.42 row id1=(6909, 1) (Col-0) vs row id2=62

Table 56: row id1=(6909, 1) (Col-0) vs row id2=62

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	2	1	0	2	0	0	0	0	0	0
A	0	0	0	44	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	32	0	0	0	0	0	0	0	0
G	0	0	0	0	0	35	0	0	0	0	0	0	0
\mathbf{T}	0	0	1	0	0	0	32	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0

AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.43 row id1=(6910, 1) (Ct-1) vs row id2=76

Table 57: row id1=(6910, 1) (Ct-1) vs row id2=76

		-	NA	Α	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	0	1	1	0	0	0	0	0	0
A	0	0	2	38	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	5	0	32	0	2	0	0	0	0	0	0
G	0	0	1	0	0	40	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	27	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 58: detailed difference for row id1=(6910, 1) (Ct-1) vs row id2=76

row id1	col id1	call1	row id2	col id2	call2
(6910, 1)/Ct-1	AtMSQTsnp 156	С	76	AtMSQTsnp 156	Т
(6910, 1)/Ct-1	AtMSQTsnp 292	C	76	AtMSQTsnp 292	${ m T}$

3.44 row id1=(6911, 1) (Cvi-0) vs row id2=51

Table 59: row id1=(6911, 1) (Cvi-0) vs row id2=51

		-	NA	Α	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	0	3	0	0	0	0	0	0	0
A	0	1	1	34	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	4	0	35	0	0	0	0	0	0	0	0
G	0	0	2	0	0	40	0	0	0	0	0	0	0
${ m T}$	0	0	1	0	0	0	28	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.45 row id1=(6912, 1) (Eden-1) vs row id2=9

Table 60: row id1=(6912, 1) (Eden-1) vs row id2=9

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	4	4	4	3	0	0	0	0	0	0
A	1	0	3	34	0	0	0	0	0	0	0	0	0
$^{\rm C}$	0	0	1	0	25	0	0	0	0	0	0	0	0
G	0	0	5	0	0	27	0	0	0	0	0	0	0
\mathbf{T}	1	0	3	0	0	0	33	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	1	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.46 row id1=(6913, 1) (Eden-2) vs row id2=10

Table 61: row id1=(6913, 1) (Eden-2) vs row id2=10

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	1	0	0	1	1	1	0	0	0	0	0	0
A	1	0	2	35	0	0	0	0	0	0	0	0	0
С	0	0	3	0	26	0	0	0	0	0	0	0	0
G	0	0	5	0	0	31	0	0	0	0	0	0	0
${ m T}$	1	0	4	0	0	0	37	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.47 row id1=(6914, 1) (Edi-0) vs row id2=94

Table 62: row id1=(6914, 1) (Edi-0) vs row id2=94

		-	NA	Α	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	1	0	2	2	0	0	0	0	0	0
A	1	0	4	40	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	26	0	0	0	0	0	0	0	0
G	0	0	1	0	0	36	0	0	0	0	0	0	0
${ m T}$	1	0	0	0	0	0	34	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.48 row id1 = (6915, 1) (Ei-2) vs row id2 = 53

Table 63: row id1=(6915, 1) (Ei-2) vs row id2=53

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	1	1	2	2	1	0	0	0	0	0	0
A	0	0	0	37	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	3	0	32	0	0	0	0	0	0	0	0
G	1	0	2	0	0	38	0	0	0	0	0	0	0
\mathbf{T}	0	0	0	0	1	0	27	0	0	0	0	0	0
AC	0	0	0	1	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 64: detailed difference for row id1=(6915, 1) (Ei-2) vs row id2=53

ſ	row id1	col id1	call1	row id2	col id2	call2
ſ	(6915, 1)/Ei-2	AtMSQTsnp 138	Т	53	AtMSQTsnp 138	С
	(6915, 1)/Ei-2	AtMSQTsnp 232	AC	53	AtMSQTsnp 232	A

Table 65: row id1=(6916, 1) (Est-1) vs row id2=66

		-	NA	A	С	G	T	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	1	0	1	0	1	0	0	0	0	0	0
A	1	0	2	37	1	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	2	0	30	0	0	0	0	0	0	0	0
G	0	0	3	0	0	32	0	0	0	0	0	0	0
\mathbf{T}	0	0	2	0	0	0	35	0	0	0	0	0	0
AC	0	0	0	1	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 66: detailed difference for row id1=(6916, 1) (Est-1) vs row id2=66

row id1	col id1	call1	row id2	col id2	call2
(6916, 1)/Est-1	AtMSQTsnp 164	A	66	AtMSQTsnp 164	С
(6916, 1)/Est-1	AtMSQTsnp 232	AC	66	AtMSQTsnp 232	A

3.50 row id1=(6917, 1) (F2) vs row id2=13

Table 67: row id1=(6917, 1) (F2) vs row id2=13

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	2	0	2	2	0	0	0	0	0	0
A	0	0	5	36	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	2	0	31	0	0	0	0	0	0	0	0
G	0	0	1	0	0	32	0	0	0	0	0	0	0
${f T}$	0	0	0	0	0	0	35	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	1	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 68: detailed difference for row id1=(6917, 1) (F2) vs row id2=13

row id1	col id1	call1	row id2	col id2	call2
(6917, 1)/F2	AtMSQTsnp 138	CT	13	AtMSQTsnp 138	С

3.51 row id1=(6918, 1) (F4) vs row id2=14

Table 69: row id1=(6918, 1) (F4) vs row id2=14

		-	NA	A	С	G	T	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	0	2	2	0	0	0	1	0	0
A	0	0	2	44	0	0	0	0	0	1	0	0	0
\mathbf{C}	0	0	1	0	29	0	0	0	0	0	0	0	0
G	0	0	1	0	0	34	0	0	0	0	0	0	0
\mathbf{T}	0	0	1	0	0	0	31	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0

CT	0	0	0	0	0	0	0	0	0	0	$\begin{bmatrix} 0 \\ 0 \end{bmatrix}$	0	0	١
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 70: detailed difference for row id1=(6918, 1) (F4) vs row id2=14

row id1	col id1	call1	row id2	col id2	call2
(6918, 1)/F4	AtMSQTsnp 282	A	14	AtMSQTsnp 282	AT

3.52 row id1=(6919, 1) (Ga-0) vs row id2=71

Table 71: row id1=(6919, 1) (Ga-0) vs row id2=71

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	1	0	0	1	0	0	0	0	0	0
A	0	0	1	39	0	0	0	0	0	0	0	0	0
С	0	0	4	0	25	0	0	0	0	0	0	0	0
G	0	0	3	0	0	34	0	0	0	0	0	0	0
${ m T}$	2	1	2	0	0	0	36	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.53 row id1=(6920, 1) (GOT-22) vs row id2=46

Table 72: row id1=(6920, 1) (GOT-22) vs row id2=46

		-	NA	Α	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	2	1	1	3	0	0	0	0	0	0
A	0	0	2	42	0	0	0	0	0	0	0	0	0
$^{\rm C}$	0	0	1	0	24	0	0	0	0	0	0	0	0
G	0	0	1	0	0	36	0	0	0	0	1	0	0
${ m T}$	0	0	0	0	0	0	34	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	1	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 73: detailed difference for row id1=(6920, 1) (GOT-22) vs row id2=46

row id1	col id1	call1	row id2	col id2	call2
(6920, 1)/GOT-22	AtMSQTsnp 267	CT	46	AtMSQTsnp 267	С
(6920, 1)/GOT-22	AtMSQTsnp 306	G	46	AtMSQTsnp 306	CG

3.54 row id1=(6921, 1) (GOT-7) vs row id2=45

Table 74: row id1=(6921, 1) (GOT-7) vs row id2=45

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	1	0	1	1	0	0	0	0	0	0
A	0	0	0	45	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	26	0	0	0	0	0	0	0	0
G	1	0	1	0	0	36	0	0	0	0	0	0	0

Γ	0	0	1	0	0	0	35	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	1	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 75: detailed difference for row id1=(6921, 1) (GOT-7) vs row id2=45

	row id1	col id1	call1	row id2	col id2	call2
Ì	(6921, 1)/GOT-7	AtMSQTsnp 267	CT	45	AtMSQTsnp 267	С

3.55 row id1=(6922, 1) (Gu-0) vs row id2=54

Table 76: row id1=(6922, 1) (Gu-0) vs row id2=54

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	8	10	16	8	0	0	0	0	0	0
Α	0	0	1	26	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	29	0	0	0	0	0	0	0	0
G	0	0	1	0	0	27	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	22	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.56 row id1 = (6923, 1) (HR-10) vs row id2 = 34

Table 77: row id1=(6923, 1) (HR-10) vs row id2=34

		-	NA	A	С	G	T	AC	$^{\mathrm{AG}}$	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	1	0	1	2	0	0	0	0	0	0	0
A	0	0	1	37	0	0	0	0	0	0	0	0	0
С	1	0	2	0	32	0	0	0	0	0	0	0	0
G	0	0	1	0	0	40	0	0	0	0	0	0	0
${ m T}$	1	0	0	0	0	0	29	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	1	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 78: detailed difference for row id1=(6923, 1) (HR-10) vs row id2=34

row id1	col id1	call1	row id2	col id2	call2
(6923, 1)/HR-10	AtMSQTsnp 138	CT	34	AtMSQTsnp 138	С

3.57 row id1=(6924, 1) (HR-5) vs row id2=33

Table 79: row id1=(6924, 1) (HR-5) vs row id2=33

											CG		
	0	0	0	0	0	0	0	0	0	0	0	0	0
-											0		

NA	0	0	1	1	3	2	1	0	0	0	0	0	0
A	0	0	0	40	0	0	0	0	1	0	0	0	0
\mathbf{C}	0	0	2	0	37	0	0	0	0	0	0	0	0
G	0	0	0	0	0	30	0	0	0	0	0	0	0
T	0	0	1	0	0	0	29	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	1	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 80: detailed difference for row id1=(6924, 1) (HR-5) vs row id2=33

row id1	col id1	call1	row id2	col id2	call2
(6924, 1)/HR-5	AtMSQTsnp 114	A	33	AtMSQTsnp 114	AG
(6924, 1)/HR-5	AtMSQTsnp 304	CT	33	AtMSQTsnp 304	${ m T}$

3.58 row id1=(6925, 1) (Kas-2) vs row id2=75

Table 81: row id1=(6925, 1) (Kas-2) vs row id2=75

		-	NA	A	С	G	Γ	AC	$^{\mathrm{AG}}$	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	2	5	2	0	0	0	0	0	0
A	0	0	3	35	0	0	0	0	0	0	0	0	0
С	0	0	1	0	35	0	0	0	0	0	0	0	0
G	0	0	1	0	0	34	0	0	0	0	0	0	0
Τ	0	0	2	0	0	0	29	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.59 row id1=(6926, 1) (Kin-0) vs row id2=91

Table 82: row id1=(6926, 1) (Kin-0) vs row id2=91

		1	NA	Α	С	G	T	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	1	0	2	3	0	0	0	0	0	0	0
A	0	0	3	36	0	0	0	0	0	0	0	0	0
\mathbf{C}	1	0	5	0	26	0	0	0	0	0	0	0	0
\mathbf{G}	1	0	2	0	0	37	0	0	0	0	0	0	0
${ m T}$	0	0	2	0	0	0	29	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.60 row id1 = (6927, 1) (KNO-10) vs row id2 = 3

Table 83: row id1=(6927, 1) (KNO-10) vs row id2=3

		-	NA	Α	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	1	1	0	2	0	0	0	0	0	0
Α	1	0	2	41	0	0	0	0	0	0	0	0	0
$^{\mathrm{C}}$	3	0	0	0	21	1	0	0	0	0	0	0	0

G	1	0	3	0	0	35	0	0	0	0	0	0	0	
Τ	2	0	5	0	0	0	29	0	0	0	0	0	0	
AC	0	0	0	0	0	0	0	0	0	0	0	0	0	
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0	
AT	0	0	0	0	0	0	0	0	0	0	0	0	0	
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
CT	1	0	0	0	0	0	0	0	0	0	0	0	0	
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 84: detailed difference for row id1=(6927, 1) (KNO-10) vs row id2=3

row id1	col id1	call1	row id2	col id2	call2
(6927, 1)/KNO-10	AtMSQTsnp 378	С	3	AtMSQTsnp 378	G

3.61 row id1=(6928, 1) (KNO-18) vs row id2=4

Table 85: row id1=(6928, 1) (KNO-18) vs row id2=4

		-	NA	Α	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	2	2	0	2	0	0	0	0	0	0
A	0	0	4	36	0	0	0	0	0	0	0	0	0
\mathbf{C}	1	0	1	0	24	0	0	0	0	0	0	0	0
\mathbf{G}	3	0	2	0	0	37	0	0	0	0	0	0	0
${ m T}$	1	0	2	0	0	0	32	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.62 row id1=(6929, 1) (Kondara) vs row id2=88

Table 86: row id1=(6929, 1) (Kondara) vs row id2=88

	1												
			27.4	Α				4.0	1.0	A.C.	66	COTT	O.T.
		-	NA	A	С	G	$\mid T \mid$	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	1	0	0	2	1	2	0	0	0	0	0	0
A	1	0	3	41	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	33	0	0	0	0	0	0	0	0
G	0	0	2	1	0	29	0	0	0	0	0	0	0
${\rm T}$	1	0	1	0	0	0	31	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 87: detailed difference for row id1=(6929, 1) (Kondara) vs row id2=88

row id1	col id1	call1	row id2	col id2	call2
(6929, 1)/Kondara	AtMSQTsnp 114	G	88	AtMSQTsnp 114	A

3.63 row id1=(6930, 1) (KZ-1) vs row id2=43

Table 88: row id1=(6930, 1) (KZ-1) vs row id2=43

	-	NA	Α	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
0	0	0	0	0	0	0	0	0	0	0	0	0

_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	3	2	1	0	0	0	0	0	0
A	0	0	4	39	0	0	0	0	0	0	0	0	0
$^{\rm C}$	0	0	4	0	28	0	1	0	0	0	0	0	0
G	0	0	2	0	0	32	0	0	0	0	0	0	0
T	0	0	1	0	0	0	32	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 89: detailed difference for row id1=(6930, 1) (KZ-1) vs row id2=43

row id1	col id1	call1	row id2	col id2	call2
(6930, 1)/KZ-1	AtMSQTsnp 15	С	43	AtMSQTsnp 15	Т

3.64 row id1 = (6931, 1) (KZ-9) vs row id2 = 44

Table 90: row id1=(6931, 1) (KZ-9) vs row id2=44

		-	NA	A	С	G	Γ	AC	$^{\mathrm{AG}}$	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	1	0	2	3	0	0	0	0	0	0	0	0
A	1	0	2	33	0	0	0	0	0	0	0	0	0
С	1	0	0	0	34	0	0	0	0	0	0	0	0
G	0	0	1	0	0	37	0	0	0	0	0	0	0
Τ	0	0	2	0	0	0	31	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.65 row id1=(6932, 1) (Ler-1) vs row id2=55

Table 91: row id1=(6932, 1) (Ler-1) vs row id2=55

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	1	1	3	0	0	0	0	0	0	0
A	0	0	0	42	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	2	0	25	0	1	0	0	0	0	0	0
G	0	0	1	0	0	39	0	0	0	0	0	0	0
${ m T}$	0	0	1	0	0	0	33	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 92: detailed difference for row id1=(6932, 1) (Ler-1) vs row id2=55

row id1	col id1	call1	row id2	col id2	call2
(6932, 1)/Ler-1	AtMSQTsnp 159	С	55	AtMSQTsnp 159	Τ

3.66 row id1=(6932, 2) (Ler-1) vs row id2=55

Table 93: row id1=(6932, 2) (Ler-1) vs row id2=55

		-	NA	A	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	1	1	0	1	0	0	0	0	0	0	0
A	0	0	0	42	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	26	0	1	0	0	0	0	0	0
G	0	0	1	0	0	41	0	0	0	0	0	0	0
${ m T}$	0	0	1	0	0	0	33	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 94: detailed difference for row id1=(6932, 2) (Ler-1) vs row id2=55

row id1		col id1	call1	row id2	col id2	call2
(6932, 2)	2)/Ler-1	AtMSQTsnp 159	С	55	AtMSQTsnp 159	Т

3.67 row id1 = (6933, 1) (LL-0) vs row id2 = 87

Table 95: row id1=(6933, 1) (LL-0) vs row id2=87

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	0	4	1	0	0	0	0	0	0
A	0	0	1	34	0	0	0	0	0	0	0	0	0
С	0	0	2	0	33	0	0	0	0	0	0	0	0
G	0	0	2	0	0	36	0	0	0	0	0	0	0
${ m T}$	0	0	2	0	0	0	33	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.68 row id1=(6934, 1) (L) vs row id2=11

Table 96: row id1=(6934, 1) (L) vs row id2=11

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	1	6	3	3	3	0	0	0	0	0	0
A	1	0	2	30	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	23	0	0	0	0	0	0	0	0
G	1	0	4	0	0	37	0	0	0	0	0	0	0
${ m T}$	1	0	2	0	0	0	30	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.69 row id1=(6935, 1) (L) vs row id2=12

Table 97: row id1=(6935, 1) (L) vs row id2=12

	-	NA	A	С	G	$\mid T \mid$	AC	\overline{AG}	AT	CG	CT	GT

	0	0	0	0	0	0	0	0	0	0	0	0	0	
_	0	0	0	0	0	0	0	0	0	0	0	0	0	
NA	0	0	0	2	2	2	1	0	0	0	0	0	0	
A	0	0	2	34	0	0	0	0	0	0	0	0	0	
C	0	0	2	0	23	0	0	0	0	0	0	0	0	
G	1	0	2	1	0	40	0	0	0	0	0	0	0	
\mathbf{T}	0	0	1	0	0	0	36	0	0	0	0	0	0	
AC	0	0	0	0	0	0	0	0	0	0	0	0	0	
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0	
AT	0	0	0	0	0	0	0	0	0	0	0	0	0	
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
CT	0	0	0	0	0	0	0	0	0	0	0	0	0	
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 98: detailed difference for row id1=(6935, 1) (L) vs row id2=12

row id1	col id1	call1	row id2	col id2	call2
(6935, 1)/L	AtMSQTsnp 370	G	12	AtMSQTsnp 370	Α

3.70 row id1=(6936, 1) (Lz-0) vs row id2=52

Table 99: row id1=(6936, 1) (Lz-0) vs row id2=52

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	2	2	3	0	0	0	0	0	0	0
A	0	0	0	47	0	0	0	0	0	0	0	0	0
\mathbf{C}	1	0	4	0	31	0	1	0	0	0	0	0	0
\mathbf{G}	1	0	1	0	0	28	0	0	0	0	0	0	0
${ m T}$	0	0	1	0	0	0	26	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 100: detailed difference for row id1=(6936, 1) (Lz-0) vs row id2=52

row id1	col id1	call1	row id2	col id2	call2
(6936, 1)/Lz-0	AtMSQTsnp 159	С	52	AtMSQTsnp 159	Т

3.71 row id1=(6937, 1) (Mrk-0) vs row id2=72

Table 101: row id1=(6937, 1) (Mrk-0) vs row id2=72

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	1	2	1	1	0	0	0	0	0	0
A	0	0	2	40	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	4	0	23	0	0	0	0	0	0	0	0
G	0	0	1	0	0	37	0	0	0	0	0	0	0
${ m T}$	1	1	0	0	1	0	33	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	1	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 102: detailed difference for row id1=(6937, 1) (Mrk-0) vs row id2=72

row id1	col id1	call1	row id2	col id2	call2
(6937, 1)/Mrk-0	AtMSQTsnp 138	СТ	72	AtMSQTsnp 138	С
(6937, 1)/Mrk-0	AtMSQTsnp 325	${ m T}$	72	AtMSQTsnp 325	\mathbf{C}

3.72 row id1=(6938, 1) (Ms-0) vs row id2=92

Table 103: row id1=(6938, 1) (Ms-0) vs row id2=92

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	1	0	1	1	0	0	0	0	0	0
A	2	0	2	31	0	0	0	0	2	0	0	0	0
\mathbf{C}	4	0	0	0	32	1	0	0	0	0	0	0	0
\mathbf{G}	2	0	3	2	0	30	0	0	1	0	0	0	0
$^{\mathrm{T}}$	2	0	1	0	0	1	30	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 104: detailed difference for row id1=(6938, 1) (Ms-0) vs row id2=92

row id1	col id1	call1	row id2	col id2	call2
(6938, 1)/Ms-0	AtMSQTsnp 173	G	92	AtMSQTsnp 173	A
(6938, 1)/Ms-0	AtMSQTsnp 177	A	92	AtMSQTsnp 177	\overline{AG}
(6938, 1)/Ms-0	AtMSQTsnp 220	G	92	AtMSQTsnp 220	A
(6938, 1)/Ms-0	AtMSQTsnp 222	T	92	AtMSQTsnp 222	G
(6938, 1)/Ms-0	AtMSQTsnp 249	A	92	AtMSQTsnp 249	AG
(6938, 1)/Ms-0	AtMSQTsnp 323	G	92	AtMSQTsnp 323	AG
(6938, 1)/Ms-0	AtMSQTsnp 331	C	92	AtMSQTsnp 331	G

3.73 row id1=(6939, 1) (Mt-0) vs row id2=79

Table 105: row id1=(6939, 1) (Mt-0) vs row id2=79

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	11	41	31	36	27	0	0	0	0	0	0
A	0	0	0	1	0	0	0	0	0	0	0	0	0
С	0	0	0	0	0	1	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 106: detailed difference for row id1=(6939, 1) (Mt-0) vs row id2=79

row id1	col id1	call1	row id2	col id2	call2
(6939, 1)/Mt-0	AtMSQTsnp 97	С	79	AtMSQTsnp 97	G

3.74 row id1=(6940, 1) (Mz-0) vs row id2=73

Table 107: row id1=(6940, 1) (Mz-0) vs row id2=73

		-	NA	Α	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	1	1	2	3	1	0	0	0	0	0	0
A	0	0	1	38	0	0	0	0	0	0	0	0	0
$^{\rm C}$	0	0	1	0	30	0	0	0	0	0	0	0	0
G	0	0	2	0	0	40	0	0	0	0	0	0	0
\mathbf{T}	0	0	1	0	0	0	27	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	1	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.75 row id1=(6942, 1) (Nd-1) vs row id2=56

Table 108: row id1=(6942, 1) (Nd-1) vs row id2=56

		-	NA	A	С	\mathbf{G}	T	AC	$^{\mathrm{AG}}$	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	1	0	0	1	0	0	0	0	0	0	0
A	0	0	0	47	0	0	0	0	0	0	0	0	0
$^{\rm C}$	1	0	1	0	34	0	0	0	0	0	0	0	0
G	0	0	1	0	0	32	0	0	0	0	0	0	0
\mathbf{T}	1	0	1	0	1	0	27	0	0	0	0	0	0
AC	0	0	0	1	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 109: detailed difference for row id1=(6942, 1) (Nd-1) vs row id2=56

row id1	col id1	call1	row id2	col id2	call2
(6942, 1)/Nd-1	AtMSQTsnp 138	Т	56	AtMSQTsnp 138	С
(6942, 1)/Nd-1	AtMSQTsnp 232	AC	56	AtMSQTsnp 232	A

3.76 row id1=(6943, 1) (NFA-10) vs row id2=36

Table 110: row id1=(6943, 1) (NFA-10) vs row id2=36

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	1	1	2	1	0	0	0	0	0	0
A	0	0	1	34	0	0	0	0	0	0	0	0	0
С	0	0	3	0	29	0	0	0	0	0	0	0	0
G	0	0	1	0	0	37	0	0	0	0	0	0	0
Τ	0	0	0	0	1	0	37	0	0	0	0	0	0
AC	0	0	0	1	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 111: detailed difference for row id1=(6943, 1) (NFA-10) vs row id2=36

row id1	col id1	call1	row id2	col id2	call2
(6943, 1)/NFA-10	AtMSQTsnp 159	Т	36	AtMSQTsnp 159	С
(6943, 1)/NFA-10	AtMSQTsnp 232	AC	36	AtMSQTsnp 232	A

3.77 row id1=(6944, 1) (NFA-8) vs row id2=35

Table 112: row id1=(6944, 1) (NFA-8) vs row id2=35

		-	NA	Α	С	G	T	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	1	0	2	0	0	0	0	0	0
A	1	0	1	35	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	35	0	0	0	0	0	0	0	0
G	0	0	0	0	0	39	0	0	0	0	0	0	0
\mathbf{T}	0	0	2	0	0	0	32	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.78 row id1=(6945, 1) (Nok-3) vs row id2=80

Table 113: row id1=(6945, 1) (Nok-3) vs row id2=80

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	1	1	3	1	0	0	0	0	0	0
A	0	0	1	43	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	25	0	0	0	0	0	0	0	0
G	1	0	1	0	0	36	0	0	0	0	0	0	0
${ m T}$	2	0	2	0	1	0	30	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 114: detailed difference for row id1=(6945, 1) (Nok-3) vs row id2=80

row id1	col id1	call1	row id2	col id2	call2
(6945, 1)/Nok-3	AtMSQTsnp 334	Т	80	AtMSQTsnp 334	С

3.79 row id1=(6946, 1) (Oy-0) vs row id2=95

Table 115: row id1=(6946, 1) (Oy-0) vs row id2=95

		-	NA	Α	С	G	T	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	1	1	0	3	0	0	0	0	0	0
A	2	0	1	37	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	39	0	0	0	0	0	0	0	0
G	1	0	5	0	0	34	0	0	0	0	0	0	0
${ m T}$	0	0	1	0	0	0	23	0	0	0	0	0	0
AC	0	0	0	1	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 116: detailed difference for row id1=(6946, 1) (Oy-0) vs row id2=95

row id1	col id1	call1	row id2	col id2	call2
(6946, 1)/Oy-0	AtMSQTsnp 232	AC	95	AtMSQTsnp 232	A

3.80 row id1=(6951, 1) (Pu2-23) vs row id2=30

Table 117: row id1=(6951, 1) (Pu2-23) vs row id2=30

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	1	0	3	0	0	0	0	0	0
A	1	0	1	35	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	32	0	0	0	0	0	0	0	0
G	0	0	0	0	0	36	0	0	0	0	0	0	0
${ m T}$	1	0	0	0	0	0	37	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	1	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.81 row id1=(6956, 1) (Pu2-7) vs row id2=29

Table 118: row id1=(6956, 1) (Pu2-7) vs row id2=29

		-	NA	Α	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	1	4	5	1	1	0	0	0	0	0	0
A	0	1	0	33	0	0	0	0	0	0	0	0	0
С	0	0	2	0	20	0	0	0	0	0	0	0	0
G	0	0	0	0	0	40	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	41	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.82 row id1=(6957, 1) (Pu2-8) vs row id2=296

Table 119: row id1=(6957, 1) (Pu2-8) vs row id2=296

		-	NA	A	С	G	Τ	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	5	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	37	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	30	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	36	0	0	0	0	1	0	0	0	0	0	0	0
${ m T}$	38	0	0	0	0	0	2	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.83 row id1 = (6958, 1) (Ra-0) vs row id2 = 69

Table 120: row id1=(6958, 1) (Ra-0) vs row id2=69

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	5	17	19	23	13	0	0	0	0	0	0
A	2	0	0	21	1	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	1	18	0	0	0	0	0	0	0	0
G	0	0	1	0	0	20	0	0	0	0	0	0	0
\mathbf{T}	0	0	0	0	0	0	7	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 121: detailed difference for row id1=(6958, 1) (Ra-0) vs row id2=69

row id1	col id1	call1	row id2	col id2	call2
(6958, 1)/Ra-0	AtMSQTsnp 164	A	69	AtMSQTsnp 164	С
(6958, 1)/Ra-0	AtMSQTsnp 321	C	69	AtMSQTsnp 321	A

3.84 row id1=(6959, 1) (REN-1) vs row id2=47

Table 122: row id1=(6959, 1) (REN-1) vs row id2=47

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	2	2	2	1	0	0	0	0	0	0
A	0	0	1	30	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	3	1	37	0	0	0	0	0	0	0	0
G	3	0	1	1	0	33	0	0	0	0	0	0	0
${ m T}$	0	0	1	0	0	0	29	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	1	0	1	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 123: detailed difference for row id1=(6959, 1) (REN-1) vs row id2=47

row id1	col id1	call1	row id2	col id2	call2
(6959, 1)/REN-1	AtMSQTsnp 267	CT	47	AtMSQTsnp 267	С
(6959, 1)/REN-1	AtMSQTsnp 281	CT	47	AtMSQTsnp 281	${ m T}$
(6959, 1)/REN-1	AtMSQTsnp 388	С	47	AtMSQTsnp 388	A
(6959, 1)/REN-1	AtMSQTsnp 392	G	47	AtMSQTsnp 392	A

3.85 row id1=(6960, 1) (REN-11) vs row id2=48

Table 124: row id1=(6960, 1) (REN-11) vs row id2=48

		-	NA	Α	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	1	1	1	0	1	0	0	0	0	0	0
A	0	0	1	37	0	0	0	0	0	0	0	0	0
$^{\rm C}$	0	0	1	0	33	0	0	0	0	0	0	1	0
G	1	0	2	0	0	34	0	0	0	0	0	0	1
${ m T}$	0	0	1	0	0	0	32	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	1	0	0	0	0	0	0	0	0

Table 125: detailed difference for row id1=(6960, 1) (REN-11) vs row id2=48

row id1	col id1	call1	row id2	col id2	call2
(6960, 1)/REN-11	AtMSQTsnp 266	G	48	AtMSQTsnp 266	GT
(6960, 1)/REN-11	AtMSQTsnp 267	CT	48	AtMSQTsnp 267	С
(6960, 1)/REN-11	AtMSQTsnp 285	\mathbf{C}	48	AtMSQTsnp 285	CT

3.86 row id1=(6961, 1) (Se-0) vs row id2=83

Table 126: row id1=(6961, 1) (Se-0) vs row id2=83

		-	NA	A	С	G	T	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	1	1	0	2	1	0	0	0	0	0	0
A	0	0	0	40	0	0	0	0	0	0	0	0	0
C	0	0	3	0	20	0	0	0	0	0	0	0	0
G	0	0	1	0	0	42	0	0	0	0	0	0	0
${ m T}$	0	0	3	0	0	0	34	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	1	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 127: detailed difference for row id1=(6961, 1) (Se-0) vs row id2=83

row id1	col id1	call1	row id2	col id2	call2
(6961, 1)/Se-0	AtMSQTsnp 267	CT	83	AtMSQTsnp 267	С

3.87 row id1=(6963, 1) (Sorbo) vs row id2=90

Table 128: row id1=(6963, 1) (Sorbo) vs row id2=90

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	1	2	0	1	1	2	0	0	0	0	0	0
A	0	0	6	39	0	0	0	0	0	0	0	0	0
\mathbf{C}	2	0	1	0	35	0	0	0	0	0	0	0	0
\mathbf{G}	0	0	2	0	0	30	0	0	0	0	0	0	0
${ m T}$	1	0	3	0	0	0	23	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.88 row id1=(6964, 1) (Spr1-2) vs row id2=19

Table 129: row id1=(6964, 1) (Spr1-2) vs row id2=19

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT		
	0	0	0	0	0	0	0	0	0	0	0	0	0		
-	0	0	0	0	0	0	0	0	0	0	0	0	0		
NA	0	1	1	0	2	2	0	0	0	0	0	0	0		
A	0	0	1	35	0	0	0	0	0	0	0	0	0		
\mathbf{C}	1	0	1	0	31	0	0	0	0	0	0	0	0		
G	0	0	2	0	0	39	0	0	0	0	0	0	0		

Τ	0	0	0	0	0	0	33	0	0	0	0	0	0	
AC	0	0	0	0	0	0	0	0	0	0	0	0	0	
AG	0	0	0	0	0	0	0	0	0	0	0	0	0	
AT	0	0	0	0	0	0	0	0	0	0	0	0	0	
CG	0	0	0	0	0	0	0	0	0	0	0	0	0	
CT	0	0	0	0	0	0	0	0	0	0	0	0	0	
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	

3.89 row id1=(6965, 1) (Spr1-6) vs row id2=20

Table 130: row id1=(6965, 1) (Spr1-6) vs row id2=20

		-	NA	Α	С	G	T	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	3	2	1	0	0	0	0	0	0
A	1	0	3	34	0	0	0	0	0	0	0	0	0
C	0	0	2	0	31	0	0	0	0	0	0	0	0
G	0	0	0	0	0	42	0	0	0	0	0	0	0
${ m T}$	0	1	1	0	0	0	28	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.90 row id1=(6966, 1) (Sq-1) vs row id2=37

Table 131: row id1=(6966, 1) (Sq-1) vs row id2=37

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	2	5	0	0	0	0	0	0	0
A	1	0	0	40	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	33	0	0	0	0	0	0	0	0
G	0	0	0	0	0	35	0	0	0	0	0	0	0
${f T}$	0	0	0	0	0	0	32	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.91 row id1=(6967, 1) (Sq-8) vs row id2=38

Table 132: row id1=(6967, 1) (Sq-8) vs row id2=38

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	0	3	3	2	3	0	0	0	0	0	0
A	1	0	1	40	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	34	0	0	0	0	0	0	0	0
G	2	0	1	0	0	27	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	31	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.92 row id1=(6968, 1) (Tamm-2) vs row id2=41

Table 133: row id1=(6968, 1) (Tamm-2) vs row id2=41

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	12	8	16	8	0	0	0	0	0	0
A	0	0	2	26	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	19	0	0	0	0	0	0	0	0
G	0	0	1	0	0	27	0	0	0	0	0	0	0
T	1	0	0	0	0	0	28	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.93 row id1=(6969, 1) (Tamm-27) vs row id2=42

Table 134: row id1=(6969, 1) (Tamm-27) vs row id2=42

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	3	1	3	1	0	0	0	0	0	0
A	0	0	3	34	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	26	0	0	0	0	0	0	0	0
G	1	0	2	0	0	38	0	0	0	0	0	0	0
Τ	1	0	3	0	0	0	32	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.94 row id1=(6970, 1) (Ts-1) vs row id2=84

Table 135: row id1=(6970, 1) (Ts-1) vs row id2=84

		-	NA	A	С	G	T	AC	$^{\mathrm{AG}}$	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	2	0	1	3	3	0	0	0	0	0	0
A	0	0	1	35	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	5	0	21	0	0	0	0	0	0	0	0
G	0	0	1	0	0	38	0	0	0	0	0	0	0
${\rm T}$	0	0	1	0	0	0	37	0	0	0	0	0	0
AC	0	0	0	1	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 136: detailed difference for row id1=(6970, 1) (Ts-1) vs row id2=84

row id1	col id1	call1	row id2	col id2	call2
(6970, 1)/Ts-1	AtMSQTsnp 232	AC	84	AtMSQTsnp 232	A

3.95 row id1=(6971, 1) (Ts-5) vs row id2=85

Table 137: row id1=(6971, 1) (Ts-5) vs row id2=85

	-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT

	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	1	2	1	0	0	0	0	0	0
A	0	0	0	40	0	0	0	0	0	0	0	0	0
$^{\rm C}$	0	0	3	0	25	0	0	0	0	0	0	0	0
G	0	0	1	1	0	39	0	0	0	0	0	0	0
T	0	0	1	0	0	0	34	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	1	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 138: detailed difference for row id1=(6971, 1) (Ts-5) vs row id2=85

row id1	col id1	call1	row id2	col id2	call2
(6971, 1)/Ts-5	AtMSQTsnp 267	CT	85	AtMSQTsnp 267	С
(6971, 1)/Ts-5	AtMSQTsnp 370	G	85	AtMSQTsnp 370	A

3.96 row id1=(6972, 1) (Tsu-1) vs row id2=78

Table 139: row id1=(6972, 1) (Tsu-1) vs row id2=78

		-	NA	Α	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	1	0	0	1	0	0	0	0	0	0
A	0	0	3	33	0	0	0	0	0	0	0	0	0
$^{\rm C}$	0	0	0	0	38	0	1	0	0	0	0	0	0
\mathbf{G}	0	0	0	0	0	41	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	30	0	0	0	0	0	0
AC	0	0	0	1	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 140: detailed difference for row id1=(6972, 1) (Tsu-1) vs row id2=78

	row id1	col id1	call1	row id2	col id2	call2
ĺ	(6972, 1)/Tsu-1	AtMSQTsnp 232	AC	78	AtMSQTsnp 232	A
	(6972, 1)/Tsu-1	AtMSQTsnp 334	\mathbf{C}	78	AtMSQTsnp 334	T

3.97 row id1=(6973, 1) (Ull2-3) vs row id2=24

Table 141: row id1=(6973, 1) (Ull2-3) vs row id2=24

		-	NA	A	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	2	1	2	1	0	0	0	0	0	0
A	1	0	4	38	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	2	0	29	0	0	0	0	0	0	0	0
\mathbf{G}	0	0	1	0	0	37	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	31	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 142: row id1=(6974, 1) (Ull2-5) vs row id2=23

		-	NA	A	С	G	T	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	0	3	2	0	0	0	0	0	0
A	2	0	1	38	0	0	0	0	0	0	0	0	0
$^{\mathrm{C}}$	0	0	1	0	25	0	0	0	0	0	0	0	0
G	0	0	3	0	0	35	0	0	0	0	0	0	0
\mathbf{T}	1	0	5	0	0	0	33	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.99 row id1 = (6975, 1) (Uod-1) vs row id2 = 49

Table 143: row id1=(6975, 1) (Uod-1) vs row id2=49

		-	NA	Α	С	G	T	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	0	1	0	0	0	0	0	0	0
A	0	0	0	37	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	39	0	0	0	0	0	0	0	0
\mathbf{G}	0	0	0	0	0	41	0	0	0	0	0	0	0
\mathbf{T}	2	1	1	0	0	0	26	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.100 row id1=(6976, 1) (Uod-7) vs row id2=50

Table 144: row id1=(6976, 1) (Uod-7) vs row id2=50

		-	NA	Α	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	3	13	5	9	13	0	0	0	0	0	0
\mathbf{A}	0	0	2	23	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	2	0	24	0	0	0	0	0	0	0	0
\mathbf{G}	0	0	1	0	0	32	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	20	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	1	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 145: detailed difference for row id1=(6976, 1) (Uod-7) vs row id2=50

row id1	col id1	call1	row id2	col id2	call2
(6976, 1)/Uod-7	AtMSQTsnp 267	CT	50	AtMSQTsnp 267	С

3.101 row id1=(6977, 1) (Van-0) vs row id2=64

Table 146: row id1=(6977, 1) (Van-0) vs row id2=64

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	2	5	9	9	6	0	2	0	1	3	0
A	0	0	2	23	0	2	0	2	5	2	0	0	0
\mathbf{C}	0	0	1	0	12	0	0	0	0	0	2	3	0
G	0	0	2	0	0	22	0	0	3	0	0	0	1
\mathbf{T}	0	0	2	0	1	0	21	0	0	1	0	3	2
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 147: detailed difference for row id1=(6977, 1) (Van-0) vs row id2=64

row id1	col id1	call1	row id2	col id2	call2
(6977, 1)/Van-0	AtMSQTsnp 101	A	64	AtMSQTsnp 101	AG
(6977, 1)/Van-0	AtMSQTsnp 108	G	64	AtMSQTsnp 108	AG
(6977, 1)/Van-0	AtMSQTsnp 11	T	64	AtMSQTsnp 11	CT
(6977, 1)/Van-0	AtMSQTsnp 12	A	64	AtMSQTsnp 12	G
(6977, 1)/Van-0	AtMSQTsnp 188	С	64	AtMSQTsnp 188	CT
(6977, 1)/Van-0	AtMSQTsnp 194	Γ	64	AtMSQTsnp 194	AT
(6977, 1)/Van-0	AtMSQTsnp 197	A	64	AtMSQTsnp 197	AG
(6977, 1)/Van-0	AtMSQTsnp 203	A	64	AtMSQTsnp 203	AT
(6977, 1)/Van-0	AtMSQTsnp 214	A	64	AtMSQTsnp 214	AG
(6977, 1)/Van-0	AtMSQTsnp 220	A	64	AtMSQTsnp 220	G
(6977, 1)/Van-0	AtMSQTsnp 242	C	64	AtMSQTsnp 242	CT
(6977, 1)/Van-0	AtMSQTsnp 260	A	64	AtMSQTsnp 260	AC
(6977, 1)/Van-0	AtMSQTsnp 266	Γ	64	AtMSQTsnp 266	GT
(6977, 1)/Van-0	AtMSQTsnp 281	Γ	64	AtMSQTsnp 281	C
(6977, 1)/Van-0	AtMSQTsnp 285	Γ	64	AtMSQTsnp 285	CT
(6977, 1)/Van-0	AtMSQTsnp 29	A	64	AtMSQTsnp 29	AT
(6977, 1)/Van-0	AtMSQTsnp 323	A	64	AtMSQTsnp 323	AG
(6977, 1)/Van-0	AtMSQTsnp 359	G	64	AtMSQTsnp 359	GT
(6977, 1)/Van-0	AtMSQTsnp 378	С	64	AtMSQTsnp 378	$^{\mathrm{CG}}$
(6977, 1)/Van-0	AtMSQTsnp 390	Γ	64	AtMSQTsnp 390	CT
(6977, 1)/Van-0	AtMSQTsnp 395	A	64	AtMSQTsnp 395	AG
(6977, 1)/Van-0	AtMSQTsnp 397	T	64	AtMSQTsnp 397	GT
(6977, 1)/Van-0	AtMSQTsnp 410	G	64	AtMSQTsnp 410	AG
(6977, 1)/Van-0	AtMSQTsnp 63	A	64	AtMSQTsnp 63	AC
(6977, 1)/Van-0	AtMSQTsnp 8	G	64	AtMSQTsnp 8	AG
(6977, 1)/Van-0	AtMSQTsnp 90	С	64	AtMSQTsnp 90	CT
(6977, 1)/Van-0	AtMSQTsnp 97	С	64	AtMSQTsnp 97	CG

3.102 row id1=(6978, 1) (Wa-1) vs row id2=81

Table 148: row id1=(6978, 1) (Wa-1) vs row id2=81

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	3	5	7	11	12	0	0	0	0	0	0
A	0	0	2	23	0	0	0	0	0	0	0	0	0
\mathbf{C}	1	0	1	0	21	0	0	0	0	0	0	0	0
G	0	0	0	0	0	30	0	0	0	0	0	0	0
\mathbf{T}	0	0	3	0	0	0	29	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.103 row id1=(6979, 1) (Wei-0) vs row id2=59

Table 149: row id1=(6979, 1) (Wei-0) vs row id2=59

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	0	2	0	0	0	0	0	0	0
A	0	0	2	38	0	0	0	0	0	0	0	0	0
С	0	0	2	0	34	0	0	0	0	0	0	0	0
G	0	0	2	0	0	37	0	0	0	0	0	0	0
T	0	0	3	0	0	0	27	0	0	0	0	0	0
AC	0	0	0	1	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	1	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 150: detailed difference for row id1=(6979, 1) (Wei-0) vs row id2=59

row id1	col id1	call1	row id2	col id2	call2
(6979, 1)/Wei-0	AtMSQTsnp 232	AC	59	AtMSQTsnp 232	A

3.104 row id1=(6980, 1) (Ws-0) vs row id2=60

Table 151: row id1=(6980, 1) (Ws-0) vs row id2=60

		-	NA	Α	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	3	1	3	3	0	0	0	0	0	0
A	1	0	1	36	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	4	0	23	0	0	0	0	0	0	0	0
G	0	0	0	0	0	40	0	0	0	0	0	0	0
${ m T}$	0	0	1	0	0	0	31	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	1	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	1	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 152: detailed difference for row id1=(6980, 1) (Ws-0) vs row id2=60

row id1	col id1	call1	row id2	col id2	call2
(6980, 1)/Ws-0	AtMSQTsnp 267	CT	60	AtMSQTsnp 267	С

3.105 row id1=(6981, 1) (Ws-2) vs row id2=96

Table 153: row id1=(6981, 1) (Ws-2) vs row id2=96

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	2	1	1	1	0	0	0	0	0	0
A	6	0	4	25	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	2	0	23	0	0	0	0	0	0	0	0
\mathbf{G}	1	0	2	1	0	40	0	0	0	0	0	0	0
${ m T}$	2	0	4	0	0	0	34	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 154: detailed difference for row id1=(6981, 1) (Ws-2) vs row id2=96

row id1	col id1	call1	row id2	col id2	call2
(6981, 1)/Ws-2	AtMSQTsnp 370	G	96	AtMSQTsnp 370	A

3.106 row id1=(6982, 1) (Wt-5) vs row id2=74

Table 155: row id1=(6982, 1) (Wt-5) vs row id2=74

		I	D.T.A.	Α				1.0	10	ACC	00	O.T.	C/TD
		-	NA	A	$^{\circ}$ C	G	$\mid T \mid$	AC	\mathbf{AG}	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	0	1	1	0	0	0	0	0	0
A	2	0	2	37	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	4	0	34	0	1	0	0	0	0	0	0
\mathbf{G}	0	0	3	0	0	35	0	0	0	0	0	0	0
Τ	1	0	4	0	0	0	24	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 156: detailed difference for row id1=(6982, 1) (Wt-5) vs row id2=74

row id1	col id1	call1	row id2	col id2	call2
(6982, 1)/Wt-5	AtMSQTsnp 334	С	74	AtMSQTsnp 334	Τ

3.107 row id1=(6983, 1) (Yo-0) vs row id2=61

Table 157: row id1=(6983, 1) (Yo-0) vs row id2=61

		-	NA	Α	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	1	0	0	1	0	0	0	0	0	0
A	0	0	0	42	0	0	0	0	0	0	0	0	0
\mathbf{C}	1	0	3	0	26	0	0	0	0	0	0	0	0
G	0	0	1	0	0	42	0	0	0	0	0	0	0
\mathbf{T}	0	0	2	0	0	0	30	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.108 row id1=(6984, 1) (Zdr-1) vs row id2=25

Table 158: row id1=(6984, 1) (Zdr-1) vs row id2=25

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	0	0	1	0	0	0	0	0	0
A	1	0	0	33	1	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	35	0	0	0	0	0	0	0	0
G	0	0	1	0	0	37	0	0	0	0	0	0	0
\mathbf{T}	1	0	0	0	0	0	37	0	0	0	0	0	0
AC	0	0	0	1	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 159: detailed difference for row id1=(6984, 1) (Zdr-1) vs row id2=25

row id1	col id1	call1	row id2	col id2	call2
(6984, 1)/Zdr-1	AtMSQTsnp 232	AC	25	AtMSQTsnp 232	A
(6984, 1)/Zdr-1	AtMSQTsnp 260	A	25	AtMSQTsnp 260	$^{\mathrm{C}}$

3.109 row id1=(6985, 1) (Zdr-6) vs row id2=26

Table 160: row id1=(6985, 1) (Zdr-6) vs row id2=26

		-	NA	Α	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	1	1	2	1	0	0	0	0	0	0	0
A	1	0	2	33	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	2	0	33	0	0	0	0	0	0	0	0
G	1	0	0	0	0	37	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	34	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	1	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 161: detailed difference for row id1=(6985, 1) (Zdr-6) vs row id2=26

row id1	col id1	call1	row id2	col id2	call2
(6985, 1)/Zdr-6	AtMSQTsnp 267	CT	26	AtMSQTsnp 267	С

3.110 row id1=(6986, 1) () vs row id2=386

Table 162: row id1=(6986, 1) () vs row id2=386

		-	NA	A	С	G	Τ	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	5	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	34	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	36	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	40	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	33	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.111 row id1=(6987, 1) () vs row id2=387

Table 163: row id1=(6987, 1) () vs row id2=387

		-	NA	A	С	G	Τ	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	3	0	0	0	0	0	0	0	0	0	0	0	0
A	36	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	34	0	0	0	0	0	0	0	0	0	0	0	0
G	41	0	0	0	0	0	0	0	0	0	0	0	0
T	33	0	0	0	0	0	0	0	0	0	0	0	0

AC	0	0	0	0	0	0	0	0	0	0	0	0	0	
AG	0	0	0	0	0	0	0	0	0	0	0	0	0	
AT	0	0	0	0	0	0	0	0	0	0	0	0	0	
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
CT	2	0	0	0	0	0	0	0	0	0	0	0	0	
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	

3.112 row id1=(7000, 1) () vs row id2=385

Table 164: row id1=(7000, 1) () vs row id2=385

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	0	0	0	0	0	0	0	0	0	0	0
Α	44	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	24	0	0	0	0	0	0	0	0	0	0	0	0
G	42	0	0	0	0	0	0	0	0	0	0	0	0
Τ	35	0	0	0	0	0	0	0	0	0	0	0	0
AC	1	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.113 row id1=(7014, 1) () vs row id2=388

Table 165: row id1=(7014, 1) () vs row id2=388

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	$\overline{\mathrm{GT}}$
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	45	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	27	0	0	0	0	0	0	0	0	0	0	0	0
G	40	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	34	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.114 row id1=(7016, 1) () vs row id2=390

Table 166: row id1=(7016, 1) () vs row id2=390

		-	NA	Α	С	G	Τ	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	0	0	0	0	0	0	0	0	0	0	0
A	43	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	33	0	0	0	0	0	0	0	0	0	0	0	0
G	37	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	30	0	0	0	0	0	0	0	0	0	0	0	0
AC	1	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.115 row id1=(7025, 1) () vs row id2=389

Table 167: row id1=(7025, 1) () vs row id2=389

		-	NA	A	С	G	Τ	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	3	0	0	0	0	0	0	0	0	0	0	0	0
A	34	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	39	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	41	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{T}	31	0	0	0	0	0	0	0	0	0	0	0	0
AC	1	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.116 row id1=(7061, 1) () vs row id2=392

Table 168: row id1=(7061, 1) () vs row id2=392

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	0	0	0	0	0	0	0	0	0	0	0
A	42	0	0	0	0	0	0	0	0	0	0	0	0
$^{\rm C}$	32	0	0	0	0	0	0	0	0	0	0	0	0
G	39	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	34	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.117 row id1=(7062, 1) () vs row id2=391

Table 169: row id1=(7062, 1) () vs row id2=391

		-	NA	A	С	G	T	AC	$^{\mathrm{AG}}$	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	7	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	41	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	34	0	0	0	0	0	0	0	0	0	0	0	0
G	41	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	26	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.118 row id1=(7064, 1) () vs row id2=394

Table 170: row id1=(7064, 1) () vs row id2=394

		-	NA	A	С	G	Τ	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	6	0	0	0	0	0	0	0	0	0	0	0	0
A	38	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	33	0	0	0	0	0	0	0	0	0	0	0	0
G	37	0	0	0	0	0	0	0	0	0	0	0	0
Τ	34	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0

AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.119 row id1=(7072, 1) () vs row id2=393

Table 171: row id1=(7072, 1) () vs row id2=393

		-	NA	Α	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	148	0	0	0	0	0	0	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
С	1	0	0	0	0	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
Γ	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.120 row id1=(7094, 1) () vs row id2=396

Table 172: row id1=(7094, 1) () vs row id2=396

		-	NA	A	С	G	Τ	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	6	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	42	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	29	0	0	0	0	0	0	0	0	0	0	0	0
G	35	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	36	0	0	0	0	0	0	0	0	0	0	0	0
AC	1	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.121 row id1=(7096, 1) () vs row id2=399

Table 173: row id1=(7096, 1) () vs row id2=399

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	0	0	0	0	0	0	0	0	0	0	0
A	43	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	29	0	0	0	0	0	0	0	0	0	0	0	0
G	42	0	0	0	0	0	0	0	0	0	0	0	0
${\rm T}$	34	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.122 row id1=(7103, 1) () vs row id2=400

Table 174: row id1=(7103, 1) () vs row id2=400

		-	NA	A	С	G	Τ	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	3	0	0	0	0	0	0	0	0	0	0	0	0
A	34	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	30	0	0	0	0	0	0	0	0	0	0	0	0
G	40	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	41	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	1	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.123 row id1=(7109, 1) () vs row id2=401

Table 175: row id1=(7109, 1) () vs row id2=401

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	0	0	0	0	0	0	0	0	0	0	0
A	33	0	0	0	0	0	0	0	0	0	0	0	0
С	40	0	0	0	0	0	0	0	0	0	0	0	0
G	41	0	0	0	0	0	0	0	0	0	0	0	0
${\rm T}$	30	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.124 row id1=(7123, 1) () vs row id2=403

Table 176: row id1=(7123, 1) () vs row id2=403

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	0	0	0	0	0	0	0	0	0	0	0
A	42	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	32	0	0	0	0	0	0	0	0	0	0	0	0
G	40	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	33	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.125 row id1=(7125, 1) () vs row id2=404

Table 177: row id1=(7125, 1) () vs row id2=404

		-	NA	A	С	G	T	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	6	0	0	0	0	0	0	0	0	0	0	0	0
A	38	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	29	0	0	0	0	0	0	0	0	0	0	0	0
G	41	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	33	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	1	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0

$ \begin{array}{c} \operatorname{CT} \\ \operatorname{GT} \end{array} $	1	0	0	0	0	0	0	0	0	0	0	0	0	
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	

3.126 row id1=(7127, 1) () vs row id2=405

Table 178: row id1=(7127, 1) () vs row id2=405

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	0	0	0	0	0	0	0	0	0	0	0
A	38	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	35	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	38	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	32	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	2	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.127 row id1=(7130, 1) () vs row id2=406

Table 179: row id1=(7130, 1) () vs row id2=406

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	6	0	0	0	0	0	0	0	0	0	0	0	0
A	48	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	33	0	0	0	0	0	0	0	0	0	0	0	0
G	33	0	0	0	0	0	0	0	0	0	0	0	0
${\rm T}$	28	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	1	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.128 row id1=(7133, 1) () vs row id2=407

Table 180: row id1=(7133, 1) () vs row id2=407

		-	NA	A	С	G	T	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	5	0	0	0	0	0	0	0	0	0	0	0	0
A	33	0	0	0	0	0	0	0	0	0	0	0	0
С	29	0	0	0	0	0	0	0	0	0	0	0	0
G	43	0	0	0	0	0	0	0	0	0	0	0	0
Τ	39	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.129 row id1=(7147, 1) () vs row id2=408

Table 181: row id1=(7147, 1) () vs row id2=408

		-	NA	Α	С	G	Τ	AC	AG	AT	CG	CT	GT
	0	0	NA 0	0	0	0	0	0	0	0	0	0	0

-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	0	0	0	0	0	0	0	0	0	0	0
A	39	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	30	0	0	0	0	0	0	0	0	0	0	0	0
G	45	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	33	0	0	0	0	0	0	0	0	0	0	0	0
AC	1	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.130 row id1=(7160, 1) () vs row id2=409

Table 182: row id1=(7160, 1) () vs row id2=409

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	5	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	44	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	23	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	38	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	36	0	0	0	0	0	0	0	0	0	0	0	0
AC	1	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	2	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.131 row id1=(7163, 1) () vs row id2=410

Table 183: row id1=(7163, 1) () vs row id2=410

		-	NA	A	С	G	Τ	AC	$^{\mathrm{AG}}$	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	0	0	0	0	0	0	0	0	0	0	0
A	41	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	32	0	0	0	0	0	0	0	0	0	0	0	0
G	39	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	29	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	1	0	0	0	0	0	0	0	0	0	0	0	0
AT	1	0	0	0	0	0	0	0	0	0	0	0	0
CG	1	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.132 row id1=(7164, 1) () vs row id2=411

Table 184: row id1=(7164, 1) () vs row id2=411

		-	NA	A	С	G	Τ	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	0	0	0	0	0	0	0	0	0	0	0
A	41	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	35	0	0	0	0	0	0	0	0	0	0	0	0
G	38	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	29	0	0	0	0	0	0	0	0	0	0	0	0
AC	1	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.133 row id1=(7172, 1) () vs row id2=412

Table 185: row id1=(7172, 1) () vs row id2=412

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	3	0	0	0	0	0	0	0	0	0	0	0	0
A	45	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	27	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	38	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	34	0	0	0	0	0	0	0	0	0	0	0	0
AC	1	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.134 row id1=(7181, 1) () vs row id2=413

Table 186: row id1=(7181, 1) () vs row id2=413

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	5	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	38	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	32	0	0	0	0	0	0	0	0	0	0	0	0
G	42	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	31	0	0	0	0	0	0	0	0	0	0	0	0
AC	1	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.135 row id1=(7192, 1) () vs row id2=417

Table 187: row id1=(7192, 1) () vs row id2=417

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	6	0	0	0	0	0	0	0	0	0	0	0	0
A	41	0	0	0	0	0	0	0	0	0	0	0	0
С	30	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	36	0	0	0	0	0	0	0	0	0	0	0	0
Τ	35	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.136 row id1=(7202, 1) () vs row id2=415

Table 188: row id1=(7202, 1) () vs row id2=415

		-	NA	A	С	G	Τ	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	5	0	0	0	0	0	0	0	0	0	0	0	0
A	40	0	0	0	0	0	0	0	0	0	0	0	0

C	34	0	0	0	0	0	0	0	0	0	0	0	0
G	41	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{T}	29	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.137 row id1=(7231, 1) () vs row id2=418

Table 189: row id1=(7231, 1) () vs row id2=418

		-	NA	A	C	G	\mathbf{T}	AC	$^{\mathrm{AG}}$	AT	$^{\rm CG}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	5	0	0	0	0	0	0	0	0	0	0	0	0
A	42	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	37	0	0	0	0	0	0	0	0	0	0	0	0
G	34	0	0	0	0	0	0	0	0	0	0	0	0
Τ	30	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	1	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.138 row id1=(7238, 1) () vs row id2=419

Table 190: row id1=(7238, 1) () vs row id2=419

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	6	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	36	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	34	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	39	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	33	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.139 row id1=(7245, 1) () vs row id2=420

Table 191: row id1=(7245, 1) () vs row id2=420

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	13	0	0	0	0	0	0	0	0	0	0	0	0
A	40	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	31	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	33	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	29	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	1	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	1	0	0	0	0	0	0	0	0	0	0	0	0

3.140 row id1=(7255, 1) () vs row id2=421

Table 192: row id1=(7255, 1) () vs row id2=421

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	6	0	0	0	0	0	0	0	0	0	0	0	0
A	36	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	34	0	0	0	0	0	0	0	0	0	0	0	0
G	41	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	31	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.141 row id1=(7262, 1) () vs row id2=424

Table 193: row id1=(7262, 1) () vs row id2=424

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	3	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	39	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	29	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	43	0	0	0	0	0	0	0	0	0	0	0	0
${f T}$	33	0	0	0	0	0	0	0	0	0	0	0	0
AC	1	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.142 row id1=(7265, 1) () vs row id2=422

Table 194: row id1=(7265, 1) () vs row id2=422

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	6	0	0	0	0	0	0	0	0	0	0	0	0
A	47	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	35	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	32	0	0	0	0	0	0	0	0	0	0	0	0
Τ	28	0	0	0	0	0	0	0	0	0	0	0	0
AC	1	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.143 row id1=(7275, 1) () vs row id2=423

Table 195: row id1=(7275, 1) () vs row id2=423

		-	NA	A	С	G	Τ	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	0	0	0	0	0	0	0	0	0	0	0
A	38	0	0	0	0	0	0	0	0	0	0	0	0
$^{\rm C}$	31	0	0	0	0	0	0	0	0	0	0	0	0
G	42	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	34	0	0	0	0	0	0	0	0	0	0	0	0

AC	0	0	0	0	0	0	0	0	0	0	0	0	0	
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0	
AT	0	0	0	0	0	0	0	0	0	0	0	0	0	
CG	0	0	0	0	0	0	0	0	0	0	0	0	0	
CT	0	0	0	0	0	0	0	0	0	0	0	0	0	
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	

3.144 row id1=(7276, 1) () vs row id2=425

Table 196: row id1=(7276, 1) () vs row id2=425

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	19	0	0	0	0	0	0	0	0	0	0	0	0
A	37	0	0	0	0	0	0	0	0	0	0	0	0
С	38	0	0	0	0	0	0	0	0	0	0	0	0
G	29	0	0	0	0	0	0	0	0	0	0	0	0
Τ	26	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.145 row id1=(7282, 1) () vs row id2=426

Table 197: row id1=(7282, 1) () vs row id2=426

		-	NA	Α	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	6	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	38	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	34	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	42	0	0	0	0	0	0	0	0	0	0	0	0
${f T}$	28	0	0	0	0	0	0	0	0	0	0	0	0
AC	1	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.146 row id1=(7306, 1) () vs row id2=427

Table 198: row id1=(7306, 1) () vs row id2=427

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	5	0	0	0	0	0	0	0	0	0	0	0	0
A	48	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	33	0	0	0	0	0	0	0	0	0	0	0	0
G	31	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	32	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.147 row id1=(7328, 1) () vs row id2=429

Table 199: row id1=(7328, 1) () vs row id2=429

		-	NA	A	С	G	Τ	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	51	0	0	0	0	0	0	0	0	0	0	0	0
A	21	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	17	0	0	0	0	0	0	0	0	0	0	0	0
G	36	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{T}	21	0	0	0	0	0	0	0	0	0	0	0	0
AC	1	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	1	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.148 row id1=(7332, 1) () vs row id2=395

Table 200: row id1=(7332, 1) () vs row id2=395

		-	NA	A	С	G	Τ	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	0	0	0	0	0	0	0	0	0	0	0
A	39	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	33	0	0	0	0	0	0	0	0	0	0	0	0
G	44	0	0	0	0	0	0	0	0	0	0	0	0
Τ	30	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.149 row id1=(7346, 1) () vs row id2=430

Table 201: row id1=(7346, 1) () vs row id2=430

		-	NA	A	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	24	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	32	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	28	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	35	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	30	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.150 row id1=(7352, 1) () vs row id2=431

Table 202: row id1=(7352, 1) () vs row id2=431

		-	NA	A	С	G	Τ	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	49	0	0	0	0	0	0	0	0	0	0	0	0
A	29	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	26	0	0	0	0	0	0	0	0	0	0	0	0
G	27	0	0	0	0	0	0	0	0	0	0	0	0
Τ	18	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0

AT	0	0	0	0	0	0	0	0	0	0	0	0	0	
CG	0	0	0	0	0	0	0	0	0	0	0	0	0	l
CT	0	0	0	0	0	0	0	0	0	0	0	0	0	
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	l

3.151 row id1=(7356, 1) () vs row id2=432

Table 203: row id1=(7356, 1) () vs row id2=432

		-	NA	A	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	0	0	0	0	0	0	0	0	0	0	0
A	39	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	35	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	38	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	32	0	0	0	0	0	0	0	0	0	0	0	0
AC	2	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	2	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.152 row id1=(7376, 1) () vs row id2=433

Table 204: row id1=(7376, 1) () vs row id2=433

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	19	0	0	0	0	0	0	0	0	0	0	0	0
A	31	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	23	0	0	0	0	0	0	0	0	0	0	0	0
G	38	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	37	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.153 row id1=(7381, 1) () vs row id2=434

Table 205: row id1=(7381, 1) () vs row id2=434

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	39	0	0	0	0	0	0	0	0	0	0	0	0
A	31	0	0	0	0	0	0	0	0	0	0	0	0
С	30	0	0	0	0	0	0	0	0	0	0	0	0
G	28	0	0	0	0	0	0	0	0	0	0	0	0
Τ	21	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.154 row id1=(7406, 1) () vs row id2=436

Table 206: row id1=(7406, 1) () vs row id2=436

		-	NA	A	С	G	Τ	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	0	0	0	0	0	0	0	0	0	0	0
A	40	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	27	0	0	0	0	0	0	0	0	0	0	0	0
G	40	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{T}	38	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.155 row id1=(7418, 1) () vs row id2=437

Table 207: row id1=(7418, 1) () vs row id2=437

		-	NA	A	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	11	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	34	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	28	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	41	0	0	0	0	0	0	0	0	0	0	0	0
${f T}$	34	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	1	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.156 row id1=(7419, 1) () vs row id2=398

Table 208: row id1=(7419, 1) () vs row id2=398

		-	NA	A	С	G	Τ	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	3	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	41	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	31	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	40	0	0	0	0	0	0	0	0	0	0	0	0
${f T}$	31	0	0	0	0	0	0	0	0	0	0	0	0
AC	1	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	1	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.157 row id1=(7424, 1) () vs row id2=414

Table 209: row id1=(7424, 1) () vs row id2=414

		-	NA	A	С	G	Τ	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	9	0	0	0	0	0	0	0	0	0	0	0	0
A	36	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	33	0	0	0	0	0	0	0	0	0	0	0	0
G	40	0	0	0	0	0	0	0	0	0	0	0	0
Τ	31	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0

CT	0	0	0	0	0	0	0	0	0	0	0	0	0
													0

3.158 row id1=(7438, 1) (N13) vs row id2=58

Table 210: row id1=(7438, 1) (N13) vs row id2=58

		-	NA	Α	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	2	9	8	9	14	0	0	0	0	0	0
A	2	0	0	21	0	0	0	0	0	0	0	0	0
\mathbf{C}	1	0	1	0	19	0	0	0	0	0	0	0	0
\mathbf{G}	0	0	1	0	0	32	0	0	0	0	0	0	0
\mathbf{T}	0	0	2	0	0	0	25	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	1	0	0	0	0	0	0	0

Table 211: detailed difference for row id1=(7438, 1) (N13) vs row id2=58

row id1	col id1	call1	row id2	col id2	call2
(7438, 1)/N13	AtMSQTsnp 169	GT	58	AtMSQTsnp 169	G

3.159 row id1=(7453, 1) (M3385S) vs row id2=98

Table 212: row id1=(7453, 1) (M3385S) vs row id2=98

		-	NA	A	C	G	${ m T}$	AC	$^{\rm AG}$	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	6	0	0	0	0	0	0	0	0	0	0	0	0
A	41	0	0	1	0	0	0	0	0	0	0	0	0
С	33	0	0	0	1	0	0	0	0	0	0	0	0
G	36	0	0	0	0	3	0	0	0	0	0	0	0
${ m T}$	27	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.160 row id1=(7477, 1) () vs row id2=435

Table 213: row id1=(7477, 1) () vs row id2=435

		-	NA	A	С	G	Τ	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	0	0	0	0	0	0	0	0	0	0	0
A	39	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	28	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	43	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{T}	34	0	0	0	0	0	0	0	0	0	0	0	0
AC	1	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 214: row id1=(7516, 1) (V-1) vs row id2=17

		-	NA	A	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	1	3	1	0	0	0	0	0	0
A	0	0	2	36	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	35	0	0	0	0	0	0	0	0
G	0	0	1	0	0	40	0	0	0	0	0	0	0
\mathbf{T}	1	0	3	0	0	0	25	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	1	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 215: detailed difference for row id1=(7516, 1) (V-1) vs row id2=17

row id1	col id1	call1	row id2	col id2	call2
(7516, 1)/V-1	AtMSQTsnp 138	CT	17	AtMSQTsnp 138	С

3.162 row id1=(7517, 1) (V-6) vs row id2=18

Table 216: row id1=(7517, 1) (V-6) vs row id2=18

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	0	3	1	0	0	0	0	0	0
A	0	0	1	34	0	0	0	0	0	0	0	0	0
С	0	0	2	0	33	0	0	0	0	0	0	0	0
G	0	0	1	0	0	45	0	0	0	0	0	0	0
${ m T}$	1	0	1	0	0	0	27	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.163 row id1=(7518, 1) () vs row id2=21

Table 217: row id1=(7518, 1) () vs row id2=21

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	2	1	1	1	0	0	0	0	0	0
A	1	0	2	30	0	0	0	0	0	0	0	0	0
\mathbf{C}	1	0	1	0	26	0	0	0	0	0	0	0	0
G	0	0	2	0	0	42	0	0	0	0	0	0	0
\mathbf{T}	0	0	1	0	0	0	37	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	1	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.164 row id1=(7519, 1) () vs row id2=22

Table 218: row id1=(7519, 1) () vs row id2=22

		-	NA	Α	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	1	3	2	3	0	0	0	0	0	0
Α	1	0	1	31	0	0	0	0	0	0	0	0	0
С	0	0	0	0	31	0	0	0	0	0	0	0	0
G	0	0	2	1	0	40	0	0	0	0	0	0	0
T	0	0	0	0	0	0	32	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	1	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 219: detailed difference for row id1=(7519, 1) () vs row id2=22

row id1	col id1	call1	row id2	col id2	call2
(7519, 1)/	AtMSQTsnp 267	CT	22	AtMSQTsnp 267	С
(7519, 1)/	AtMSQTsnp 373	G	22	AtMSQTsnp 373	A

3.165 row id1=(7520, 1) (Lp2-2) vs row id2=31

Table 220: row id1=(7520, 1) (Lp2-2) vs row id2=31

		-	NA	Α	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	1	2	2	1	1	0	0	0	0	0	0
\mathbf{A}	0	0	0	32	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	35	0	0	0	0	0	0	0	0
G	0	0	1	0	0	39	0	0	0	0	0	0	0
${ m T}$	1	0	1	0	0	0	32	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	1	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.166 row id1=(7521, 1) (Lp2-6) vs row id2=32

Table 221: row id1=(7521, 1) (Lp2-6) vs row id2=32

		-	NA	Α	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	1	0	2	2	1	0	0	0	0	0	0
A	0	0	0	40	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	33	0	0	0	0	0	0	0	0
G	1	0	1	0	0	31	0	0	0	0	0	0	0
\mathbf{T}	1	0	3	0	0	0	32	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.167 row id1=(7522, 1) (Mr-0) vs row id2=77

Table 222: row id1=(7522, 1) (Mr-0) vs row id2=77

	-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
0	0	0	0	0	0	0	0	0	0	CG 0	0	0

_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	0	0	1	2	1	0	0	0	0	0	0
A	0	0	2	32	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	3	0	34	0	0	0	0	0	0	0	0
G	0	0	2	0	0	47	0	0	0	0	0	0	0
T	0	0	3	0	0	0	21	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.168 row id1=(7523, 1) (Pna-17) vs row id2=7

Table 223: row id1=(7523, 1) (Pna-17) vs row id2=7

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	1	1	0	1	1	0	0	0	0	0	0
\mathbf{A}	1	0	1	43	0	0	0	0	0	0	0	0	0
\mathbf{C}	2	0	2	0	23	0	0	0	0	0	0	0	0
G	2	0	2	0	0	39	0	0	0	0	0	0	0
\mathbf{T}	3	0	0	0	0	0	26	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	1	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 224: detailed difference for row id1=(7523, 1) (Pna-17) vs row id2=7

	row id1	col id1	call1	row id2	col id2	call2
ĺ	(7523, 1)/Pna-17	AtMSQTsnp 267	CT	7	AtMSQTsnp 267	С

3.169 row id1=(7524, 1) (Rmx-A02) vs row id2=5

Table 225: row id1=(7524, 1) (Rmx-A02) vs row id2=5

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	3	1	2	0	0	0	0	0	0
A	0	0	5	40	0	0	0	0	0	0	0	0	0
\mathbf{C}	2	0	0	0	23	0	0	0	0	0	0	0	0
G	1	0	3	0	0	34	0	0	0	0	0	0	0
\mathbf{T}	2	0	2	0	0	0	29	0	0	0	0	0	0
AC	0	0	0	1	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	1	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 226: detailed difference for row id1=(7524, 1) (Rmx-A02) vs row id2=5

	row id1	col id1	call1	row id2	col id2	call2
ĺ	(7524, 1)/Rmx-A02	AtMSQTsnp 232	AC	5	AtMSQTsnp 232	A

3.170 row id1=(7525, 1) (Rmx-A180) vs row id2=6

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	2	1	2	0	0	0	0	0	0
A	1	0	2	34	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	29	0	0	0	0	0	0	0	0
G	3	0	2	0	0	37	0	0	0	0	0	0	0
${ m T}$	3	0	1	0	0	0	31	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.171 row id1=(7526, 1) (Pna-10) vs row id2=8

Table 228: row id1=(7526, 1) (Pna-10) vs row id2=8

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	2	1	2	0	0	0	0	0	0
A	1	0	3	40	0	0	0	0	0	0	0	0	0
С	1	0	3	0	20	0	0	0	0	0	0	0	0
G	0	0	3	0	0	35	0	0	0	0	0	0	0
${ m T}$	0	0	4	0	0	0	32	0	0	0	0	0	0
AC	0	0	0	1	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	1	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 229: detailed difference for row id1=(7526, 1) (Pna-10) vs row id2=8

row id1	col id1	call1	row id2	col id2	call2
(7526, 1)/Pna-10	AtMSQTsnp 232	AC	8	AtMSQTsnp 232	A
(7526, 1)/Pna-10	AtMSQTsnp 267	CT	8	AtMSQTsnp 267	$^{\mathrm{C}}$

3.172 row id1=(8213, 1) (Pro-0) vs row id2=86

Table 230: row id1=(8213, 1) (Pro-0) vs row id2=86

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	4	13	6	9	8	0	0	0	0	0	0
A	1	0	2	28	0	0	0	0	0	0	0	0	0
С	0	0	2	0	20	0	0	0	0	0	0	0	0
G	0	0	0	0	0	35	0	0	0	0	0	0	0
Τ	1	0	0	0	0	0	20	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.173 row id1=(8214, 1) (Gy-0) vs row id2=68

Table 231: row id1=(8214, 1) (Gy-0) vs row id2=68

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	0	3	2	0	0	0	0	0	0	0
A	0	0	0	45	1	0	0	0	0	0	0	0	0
\mathbf{C}	1	0	1	0	26	0	0	0	0	0	0	0	0
G	0	0	0	0	0	36	0	0	0	0	0	0	0
T	0	0	1	0	0	0	33	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 232: detailed difference for row id1=(8214, 1) (Gy-0) vs row id2=68

row id1	col id1	call1	row id2	col id2	call2
(8214, 1)/Gy-0	AtMSQTsnp 164	A	68	AtMSQTsnp 164	С

3.174 row id1=(8215, 1) (Fei-0) vs row id2=82

Table 233: row id1=(8215, 1) (Fei-0) vs row id2=82

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	1	0	2	1	1	0	0	0	0	0	0
A	1	0	5	39	0	0	0	0	0	0	0	0	0
С	0	0	6	0	29	0	0	0	0	0	0	0	0
G	0	0	0	0	0	34	0	0	1	0	0	0	0
${ m T}$	1	0	3	0	0	0	24	0	0	0	0	0	0
AC	0	0	0	1	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 234: detailed difference for row id1=(8215, 1) (Fei-0) vs row id2=82

row id1	col id1	call1	row id2	col id2	call2
(8215, 1)/Fei-0	AtMSQTsnp 223	G	82	AtMSQTsnp 223	AG
(8215, 1)/Fei-0	AtMSQTsnp 232	AC	82	AtMSQTsnp 232	A

3.175 row id1=(8222, 1) (Lis-2) vs row id2=366

Table 235: row id1=(8222, 1) (Lis-2) vs row id2=366

		-	NA	A	С	G	T	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	7	0	0	0	0	0	0	0	0	0	0	0	0
A	34	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	31	0	0	0	1	0	0	0	0	0	0	0	0
\mathbf{G}	39	0	2	0	0	0	0	0	0	0	0	0	0
${ m T}$	33	0	0	0	0	0	0	0	0	0	0	0	0
AC	1	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 236: row id1=(8222, 2) (Lis-2) vs row id2=366

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	31	0	0	0	0	0	0	0	0	0	0	0	0
A	26	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	25	0	0	0	1	0	0	0	0	0	0	0	0
G	32	0	2	0	0	0	0	0	0	0	0	0	0
${ m T}$	32	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.177 row id1=(8231, 1) (Br) vs row id2=354

Table 237: row id1=(8231, 1) (Br) vs row id2=354

		-	NA	A	С	G	Т	AC	AG	AT	$\overline{\text{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	36	0	0	0	0	0	0	0	0	0	0	0	0
A	30	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	27	0	0	0	0	0	0	0	0	0	0	0	0
G	34	0	0	0	0	2	0	0	0	0	0	0	0
${f T}$	19	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.178 row id1=(8233, 1) (Dem-4) vs row id2=297

Table 238: row id1=(8233, 1) (Dem-4) vs row id2=297

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	25	0	0	0	0	0	0	0	0	0	0	0	0
A	35	0	1	0	0	0	0	0	0	0	0	0	0
С	22	0	0	0	0	0	0	0	0	0	0	0	0
G	31	0	0	0	0	1	0	0	0	0	0	0	0
Τ	33	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.179 row id1=(8234, 1) (Gul1-2) vs row id2=356

Table 239: row id1=(8234, 1) (Gul1-2) vs row id2=356

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	24	0	0	0	0	0	0	0	0	0	0	0	0
A	36	0	1	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	27	0	0	0	0	0	0	0	0	0	0	0	0
G	27	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	29	0	0	0	0	1	1	0	0	0	0	0	0

	AC	0	0	0	0	0	0	0	0	0	0	0	0	0
İ	\overline{AG}	1	0	0	0	0	0	0	0	0	0	0	0	0
İ	AT	1	0	0	0	0	0	0	0	0	0	0	0	0
	CG	1	0	0	0	0	0	0	0	0	0	0	0	0
	CT	0	0	0	0	0	0	0	0	0	0	0	0	0
	GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 240: detailed difference for row id1=(8234, 1) (Gul1-2) vs row id2=356

row id1	col id1	call1	row id2	col id2	call2
(8234, 1)/Gul1-2	AtMSQTsnp 274	Τ	356	AtMSQTsnp 274	G

3.180 row id1=(8235, 1) (Hod) vs row id2=379

Table 241: row id1=(8235, 1) (Hod) vs row id2=379

			37.4					1.0	1.0	ACD	00	COTT	O.T.
		-	NA	A	$^{\circ}$	G	Τ	AC	$\mid AG \mid$	\mid AT	$^{\rm CG}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	27	0	0	0	0	0	0	0	0	0	0	0	0
A	35	0	0	1	0	0	0	0	0	0	0	0	0
\mathbf{C}	26	0	0	0	1	0	0	0	0	0	0	0	0
\mathbf{G}	28	0	0	0	0	1	0	0	0	0	0	0	0
${ m T}$	30	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.181 row id1=(8236, 1) (HSm) vs row id2=380

Table 242: row id1=(8236, 1) (HSm) vs row id2=380

		-	NA	A	С	G	Τ	AC	$^{\mathrm{AG}}$	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	26	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	25	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	30	0	0	0	0	0	0	0	0	0	0	0	0
G	38	0	1	0	0	1	0	0	0	0	0	0	0
${\rm T}$	27	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.182 row id1=(8237, 1) (Kinge-1) vs row id2=373

Table 243: row id1=(8237, 1) (Kinge-1) vs row id2=373

		-	NA	A	С	G	Τ	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	29	0	0	0	0	0	0	0	0	0	0	0	0
A	33	0	0	1	0	0	0	0	0	0	0	0	0
\mathbf{C}	25	0	0	0	1	0	0	0	0	0	0	0	0
G	28	0	0	0	0	1	0	0	0	0	0	0	0
Τ	30	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0

CT	1	0	0	0	0	0	0	0	0	0	0	0	0	
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	ı

3.183 row id1=(8238, 1) (Kent) vs row id2=289

Table 244: row id1=(8238, 1) (Kent) vs row id2=289

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	3	0	0	0	0	0	0	0	0	0	0	0	0
A	40	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	31	0	0	0	0	0	0	0	0	0	0	0	0
G	39	0	0	0	0	1	0	0	0	0	0	0	0
${ m T}$	33	0	1	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.184 row id1=(8239, 1) (K) vs row id2=293

Table 245: row id1=(8239, 1) (K) vs row id2=293

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	28	0	0	0	0	0	0	0	0	0	0	0	0
A	31	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	29	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	29	0	0	0	0	1	0	0	0	0	0	0	0
${ m T}$	29	0	0	0	0	0	2	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.185 row id1=(8240, 1) (Kulturen-1) vs row id2=372

Table 246: row id1=(8240, 1) (Kulturen-1) vs row id2=372

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	30	0	0	1	0	0	0	0	0	0	0	0	0
A	25	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	29	0	0	0	1	0	0	0	0	0	0	0	0
G	32	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	30	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.186 row id1=(8241, 1) (Liarum) vs row id2=371

Table 247: row id1=(8241, 1) (Liarum) vs row id2=371

		-	NA	A	С	G	Τ	AC	AG	AT	CG	CT	GT
	0	0	NA 0	0	0	0	0	0	0	0	0	0	0

-	0	0	0	0	0	0	0	0	0	0	0	0	0	
NA	26	0	0	0	0	0	0	0	0	0	0	0	0	
A	26	0	0	0	0	0	0	0	0	0	0	0	0	
$^{\rm C}$	31	0	0	0	1	0	0	0	0	0	0	0	0	
G	31	0	0	0	0	1	0	0	0	0	0	0	0	
${ m T}$	32	0	0	0	0	0	1	0	0	0	0	0	0	
AC	0	0	0	0	0	0	0	0	0	0	0	0	0	
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0	
AT	0	0	0	0	0	0	0	0	0	0	0	0	0	
CG	0	0	0	0	0	0	0	0	0	0	0	0	0	
CT	0	0	0	0	0	0	0	0	0	0	0	0	0	
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	

3.187 row id1=(8242, 1) (Lill) vs row id2=353

Table 248: row id1=(8242, 1) (Lill) vs row id2=353

		-	NA	A	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	26	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	33	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	27	0	0	0	1	0	0	0	0	0	0	0	0
\mathbf{G}	34	0	1	0	0	1	0	0	0	0	0	0	0
${f T}$	26	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.188 row id1 = (8243, 1) (PHW-2) vs row id2 = 313

Table 249: row id1=(8243, 1) (PHW-2) vs row id2=313

		-	NA	A	С	G	Τ	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	25	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	29	0	1	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	35	0	1	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	30	0	0	0	0	0	0	0	0	0	0	0	0
${f T}$	27	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.189 row id1=(8244, 1) (PHW-34) vs row id2=304

Table 250: row id1=(8244, 1) (PHW-34) vs row id2=304

		-	NA	A	С	G	T	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	26	0	0	0	0	0	0	0	0	0	0	0	0
A	36	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	24	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	36	0	0	0	0	1	1	0	0	0	0	0	0
${ m T}$	24	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 251: detailed difference for row id1=(8244, 1) (PHW-34) vs row id2=304

row id1	col id1	call1	row id2	col id2	call2
(8244, 1)/PHW-34	AtMSQTsnp 274	G	304	AtMSQTsnp 274	Т

3.190 row id1=(8245, 1) (Seattle-0) vs row id2=314

Table 252: row id1=(8245, 1) (Seattle-0) vs row id2=314

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	24	0	0	0	0	0	0	0	0	0	0	0	0
A	28	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	30	0	0	0	1	0	0	0	0	0	0	0	0
\mathbf{G}	37	0	1	0	0	0	0	0	0	0	0	0	0
${ m T}$	26	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.191 row id1=(8246, 1) (NC-6) vs row id2=294

Table 253: row id1=(8246, 1) (NC-6) vs row id2=294

		-	NA	A	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	44	0	0	0	0	0	0	0	0	0	0	0	0
A	34	0	0	0	0	1	0	0	0	0	0	0	0
\mathbf{C}	11	0	0	0	0	0	0	0	0	0	0	0	0
G	23	0	0	0	0	0	1	0	0	0	0	0	0
\mathbf{T}	33	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	1	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 254: detailed difference for row id1=(8246, 1) (NC-6) vs row id2=294

	row id1	col id1	call1	row id2	col id2	call2
ſ	(8246, 1)/NC-6	AtMSQTsnp 274	G	294	AtMSQTsnp 274	Τ
	(8246, 1)/NC-6	AtMSQTsnp 278	A	294	AtMSQTsnp 278	G

3.192 row id1=(8247, 1) (San-2) vs row id2=349

Table 255: row id1=(8247, 1) (San-2) vs row id2=349

		-	NA	A	С	G	Τ	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	27	0	0	0	0	0	0	0	0	0	0	0	0
A	40	0	0	1	0	0	0	0	0	0	0	0	0
$^{\rm C}$	21	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	25	0	0	0	0	1	0	0	0	0	0	0	0
T	33	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0

AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT										0	0	0	0
GT				0					0	0	0	0	0

3.193 row id1=(8248, 1) (Shahdara) vs row id2=89

Table 256: row id1=(8248, 1) (Shahdara) vs row id2=89

		-	NA	A	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	1	8	18	15	14	10	0	0	0	0	0	0
A	0	0	2	20	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	21	0	0	0	0	0	0	0	0
\mathbf{G}	0	0	0	0	0	18	0	0	0	0	0	0	0
\mathbf{T}	0	0	1	0	0	0	19	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.194 row id1=(8249, 1) (Vimmerby) vs row id2=295

Table 257: row id1=(8249, 1) (Vimmerby) vs row id2=295

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	26	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	32	0	0	1	0	0	0	0	0	0	0	0	0
\mathbf{C}	31	0	0	0	1	0	0	0	0	0	0	0	0
G	30	0	0	0	0	1	0	0	0	0	0	0	0
Τ	27	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.195 row id1=(8251, 1) (Ag-0) vs row id2=67

Table 258: row id1=(8251, 1) (Ag-0) vs row id2=67

		-	NA	Α	С	G	T	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	4	6	6	12	3	0	0	0	0	0	0
\mathbf{A}	0	0	2	30	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	3	0	27	0	0	0	0	0	0	0	0
\mathbf{G}	0	0	0	0	0	28	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	27	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.196 row id1=(8252, 1) (Alc-0) vs row id2=315

Table 259: row id1=(8252, 1) (Alc-0) vs row id2=315

		-	NA	A	С	G	Τ	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	33	0	0	0	0	0	0	0	0	0	0	0	0
A	30	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	18	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	33	0	0	0	0	1	0	0	0	0	0	0	0
\mathbf{T}	32	0	1	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.197 row id1=(8253, 1) (An-1) vs row id2=63

Table 260: row id1=(8253, 1) (An-1) vs row id2=63

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	1	11	10	6	6	0	0	0	0	0	0
A	0	0	2	36	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	23	0	0	0	0	0	0	0	0
\mathbf{G}	0	0	0	0	0	22	0	0	0	0	0	0	0
\mathbf{T}	0	0	0	0	0	0	31	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.198 row id1=(8254, 1) (Ang-0) vs row id2=303

Table 261: row id1=(8254, 1) (Ang-0) vs row id2=303

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	26	0	0	0	0	0	0	0	0	0	0	0	0
A	29	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	35	0	0	0	1	0	0	0	0	0	0	0	0
G	30	0	0	0	0	2	0	0	0	0	0	0	0
${ m T}$	26	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.199 row id1=(8256, 1) (B2) vs row id2=357

Table 262: row id1=(8256, 1) (B2) vs row id2=357

		-	NA	A	С	G	T	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	27	0	0	0	0	0	0	0	0	0	0	0	0
A	29	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	25	0	0	0	1	0	0	0	0	0	0	0	0
\mathbf{G}	35	0	1	0	0	1	0	0	0	0	0	0	0
${f T}$	30	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0

$ \begin{array}{c} \operatorname{CT} \\ \operatorname{GT} \end{array} $	0	0	0	0	0	0	0	0	0	0	0	0	0	
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	١

3.200 row id1=(8257, 1) (B3) vs row id2=358

Table 263: row id1=(8257, 1) (B3) vs row id2=358

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	25	0	0	0	0	0	0	0	0	0	0	0	0
A	27	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	29	0	0	0	1	0	0	0	0	0	0	0	0
\mathbf{G}	32	0	0	0	0	2	0	0	0	0	0	0	0
${ m T}$	33	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.201 row id1 = (8258, 1) (B1) vs row id2 = 359

Table 264: row id1=(8258, 1) (B1) vs row id2=359

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	26	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	32	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	26	0	1	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	32	0	0	0	0	2	0	0	0	0	0	0	0
${f T}$	30	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.202 row id1=(8259, 1) (B1) vs row id2=360

Table 265: row id1=(8259, 1) (B1) vs row id2=360

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	28	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	32	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	25	0	1	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	32	0	1	0	0	1	0	0	0	0	0	0	0
${ m T}$	28	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.203 row id1=(8260, 1) (Bay-0) vs row id2=70

Table 266: row id1=(8260, 1) (Bay-0) vs row id2=70

	-	NA	Α	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
0	0	0	0	0	0	0	0	0	0	0	0	0

_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	1	11	8	10	2	0	0	0	0	0	0
A	0	0	2	35	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	26	0	0	0	0	0	0	0	0
G	1	0	0	0	0	24	0	0	0	0	0	0	0
T	0	0	1	0	0	0	28	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.204 row id1=(8261, 1) (Bg-2) vs row id2=299

Table 267: row id1=(8261, 1) (Bg-2) vs row id2=299

		-	NA	A	С	G	Τ	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	29	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	28	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	28	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	38	0	0	0	0	1	0	0	0	0	0	0	0
${ m T}$	23	0	1	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.205 row id1=(8262, 1) (Bil-5) vs row id2=15

Table 268: row id1=(8262, 1) (Bil-5) vs row id2=15

		-	NA	Α	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	7	5	12	4	0	0	0	0	0	0
A	0	0	3	32	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	20	0	0	0	0	0	0	0	0
G	0	0	2	0	0	30	0	0	0	0	0	0	0
${f T}$	1	0	0	0	0	0	32	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.206 row id1=(8263, 1) (Bil-7) vs row id2=16

Table 269: row id1=(8263, 1) (Bil-7) vs row id2=16

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	1	5	5	11	4	0	0	0	0	0	0
A	0	0	1	35	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	20	0	0	0	0	0	0	0	0
G	0	0	1	1	0	31	0	0	0	0	0	0	0
\mathbf{T}	0	0	1	0	0	0	32	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 270: detailed difference for row id1=(8263, 1) (Bil-7) vs row id2=16

row id1	col id1	call1	row id2	col id2	call2
(8263, 1)/Bil-7	AtMSQTsnp 370	G	16	AtMSQTsnp 370	A

3.207 row id1=(8264, 1) (Bla-1) vs row id2=316

Table 271: row id1=(8264, 1) (Bla-1) vs row id2=316

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	27	0	0	0	0	0	0	0	0	0	0	0	0
A	31	0	0	1	0	0	0	0	0	0	0	0	0
\mathbf{C}	28	0	0	0	0	0	0	0	0	0	0	0	0
G	35	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	24	0	1	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.208 row id1=(8265, 1) (Blh-1) vs row id2=317

Table 272: row id1=(8265, 1) (Blh-1) vs row id2=317

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	27	0	0	0	0	0	0	0	0	0	0	0	0
A	34	0	0	1	0	0	0	0	0	0	0	0	0
С	26	0	0	0	1	0	0	0	0	0	0	0	0
G	29	0	0	0	0	1	0	0	0	0	0	0	0
Τ	30	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.209 row id1=(8268, 1) (Bor-4) vs row id2=28

Table 273: row id1=(8268, 1) (Bor-4) vs row id2=28

		-	NA	A	С	G	T	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	0	8	5	10	3	0	0	0	0	0	0
A	0	0	0	33	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	2	0	21	0	0	0	0	0	0	0	0
G	0	0	1	0	0	30	0	0	0	0	0	0	0
${ m T}$	0	0	2	0	0	0	33	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.210 row id1=(8269, 1) (Br-0) vs row id2=65

Table 274: row id1=(8269, 1) (Br-0) vs row id2=65

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	2	11	14	11	3	0	0	0	0	0	0
A	0	0	0	31	0	0	0	0	0	0	0	0	0
$^{\rm C}$	0	0	1	0	22	0	0	0	0	0	0	0	0
G	0	0	1	0	0	26	0	0	0	0	0	0	0
\mathbf{T}	1	0	1	0	0	0	25	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.211 row id1=(8270, 1) (Bs-1) vs row id2=318

Table 275: row id1=(8270, 1) (Bs-1) vs row id2=318

	T												
		-	NA	A	С	G	Τ	AC	$^{\mathrm{AG}}$	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	25	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	40	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	29	0	0	0	0	0	0	0	0	0	0	0	0
G	28	0	0	0	0	2	0	0	0	0	0	0	0
${\rm T}$	24	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.212 row id1=(8271, 1) (Bu-0) vs row id2=305

Table 276: row id1=(8271, 1) (Bu-0) vs row id2=305

		-	NA	A	С	G	Τ	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	27	0	0	0	0	0	0	0	0	0	0	0	0
A	33	0	0	1	0	0	0	0	0	0	0	0	0
\mathbf{C}	28	0	0	0	0	0	0	0	0	0	0	0	0
G	29	0	0	0	0	0	0	0	0	0	0	0	0
${f T}$	29	0	1	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.213 row id1=(8272, 1) (Bur-0) vs row id2=93

Table 277: row id1=(8272, 1) (Bur-0) vs row id2=93

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	1	7	7	8	8	0	0	0	0	0	0
A	0	0	0	35	0	0	0	0	0	0	0	0	0
\mathbf{C}	1	0	1	0	22	0	0	0	0	0	0	0	0
G	1	0	3	0	0	26	0	0	0	0	0	0	0
\mathbf{T}	1	0	0	0	0	0	26	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0

AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.214 row id1=(8273, 1) (C24) vs row id2=57

Table 278: row id1=(8273, 1) (C24) vs row id2=57

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	1	7	8	10	4	0	0	0	0	0	0
\mathbf{A}	0	0	1	34	0	0	0	0	0	0	0	0	0
С	0	0	1	0	25	0	0	0	0	0	0	0	0
G	0	0	1	0	0	23	0	0	0	0	0	0	0
${ m T}$	1	0	1	0	0	0	29	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	1	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 279: detailed difference for row id1=(8273, 1) (C24) vs row id2=57

row id1	col id1	call1	row id2	col id2	call2
(8273, 1)/C24	AtMSQTsnp 138	CT	57	AtMSQTsnp 138	С

3.215 row id1=(8274, 1) (Can-0) vs row id2=319

Table 280: row id1=(8274, 1) (Can-0) vs row id2=319

		-	NA	A	С	G	Τ	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	28	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	32	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	24	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	34	0	0	0	0	1	0	0	0	0	0	0	0
${f T}$	27	0	0	0	0	0	2	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.216 row id1=(8275, 1) (Cen-0) vs row id2=320

Table 281: row id1=(8275, 1) (Cen-0) vs row id2=320

		-	NA	A	С	G	Τ	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	32	0	0	0	0	0	0	0	0	0	0	0	0
A	29	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	28	0	0	0	1	0	0	0	0	0	0	0	0
\mathbf{G}	33	0	0	0	0	1	0	0	0	0	0	0	0
\mathbf{T}	24	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.217 row id1=(8276, 1) (CIBC-17) vs row id2=40

Table 282: row id1=(8276, 1) (CIBC-17) vs row id2=40

		-	NA	A	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	9	6	7	3	0	0	0	0	0	0
A	0	0	0	33	1	3	0	0	0	0	0	0	0
$^{\rm C}$	0	0	2	0	23	0	1	0	0	0	0	0	0
G	0	0	2	1	0	28	0	0	0	0	0	0	0
${ m T}$	1	0	0	1	1	1	26	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 283: detailed difference for row id1=(8276, 1) (CIBC-17) vs row id2=40

row id1	col id1	call1	row id2	col id2	call2
(8276, 1)/CIBC-17	AtMSQTsnp 114	A	40	AtMSQTsnp 114	G
(8276, 1)/CIBC-17	AtMSQTsnp 159	Т	40	AtMSQTsnp 159	C
(8276, 1)/CIBC-17	AtMSQTsnp 223	A	40	AtMSQTsnp 223	G
(8276, 1)/CIBC-17	AtMSQTsnp 244	A	40	AtMSQTsnp 244	G
(8276, 1)/CIBC-17	AtMSQTsnp 307	T	40	AtMSQTsnp 307	A
(8276, 1)/CIBC-17	AtMSQTsnp 321	A	40	AtMSQTsnp 321	C
(8276, 1)/CIBC-17	AtMSQTsnp 327	T	40	AtMSQTsnp 327	G
(8276, 1)/CIBC-17	AtMSQTsnp 334	\mathbf{C}	40	AtMSQTsnp 334	$\mid T \mid$
(8276, 1)/CIBC-17	AtMSQTsnp 415	G	40	AtMSQTsnp 415	A

3.218 row id1=(8277, 1) (CIBC-5) vs row id2=39

Table 284: row id1=(8277, 1) (CIBC-5) vs row id2=39

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	9	6	9	7	0	0	0	0	0	0
A	0	0	1	25	0	0	1	0	0	0	0	0	0
\mathbf{C}	0	0	1	1	25	1	0	0	0	0	0	0	0
G	0	0	1	2	0	34	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	2	0	23	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	1	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 285: detailed difference for row id1=(8277, 1) (CIBC-5) vs row id2=39

row id1	col id1	call1	row id2	col id2	call2
(8277, 1)/CIBC-5	AtMSQTsnp 138	CT	39	AtMSQTsnp 138	С
(8277, 1)/CIBC-5	AtMSQTsnp 223	G	39	AtMSQTsnp 223	A
(8277, 1)/CIBC-5	AtMSQTsnp 244	G	39	AtMSQTsnp 244	A
(8277, 1)/CIBC-5	AtMSQTsnp 304	T	39	AtMSQTsnp 304	C
(8277, 1)/CIBC-5	AtMSQTsnp 306	С	39	AtMSQTsnp 306	G
(8277, 1)/CIBC-5	AtMSQTsnp 307	A	39	AtMSQTsnp 307	Т
(8277, 1)/CIBC-5	AtMSQTsnp 321	С	39	AtMSQTsnp 321	A
(8277, 1)/CIBC-5	AtMSQTsnp 334	\mathbf{T}	39	AtMSQTsnp 334	C

Table 286: row id1=(8278, 1) () vs row id2=321

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	60	0	1	0	0	0	1	0	0	0	0	0	0
A	28	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	21	0	0	0	0	0	0	0	0	0	0	0	0
G	21	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	15	0	1	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.220 row id1=(8279, 1) (Col-0) vs row id2=62

Table 287: row id1=(8279, 1) (Col-0) vs row id2=62

		-	NA	A	С	G	T	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	1	11	6	9	7	0	0	0	0	0	0
A	0	0	0	35	0	0	0	0	0	0	0	0	0
$^{\rm C}$	0	0	0	0	27	0	0	0	0	0	0	0	0
G	0	0	0	0	0	26	0	0	0	0	0	0	0
\mathbf{T}	0	0	0	0	0	0	27	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.221 row id1=(8280, 1) (Ct-1) vs row id2=76

Table 288: row id1=(8280, 1) (Ct-1) vs row id2=76

		-	NA	Α	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	1	9	7	7	6	0	0	0	0	0	0
A	0	0	2	29	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	4	0	25	0	1	0	0	0	0	0	0
G	0	0	1	0	0	34	0	0	0	0	0	0	0
${\rm T}$	0	0	0	0	0	0	23	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 289: detailed difference for row id1=(8280, 1) (Ct-1) vs row id2=76

row id1	col id1	call1	row id2	col id2	call2
(8280, 1)/Ct-1	AtMSQTsnp 292	С	76	AtMSQTsnp 292	Τ

3.222 row id1=(8281, 1) (Cvi-0) vs row id2=51

Table 290: row id1=(8281, 1) (Cvi-0) vs row id2=51

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	1	11	7	7	6	0	0	0	0	0	0
A	0	1	1	23	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	3	0	28	0	0	0	0	0	0	0	0
G	0	0	2	0	0	36	0	0	0	0	0	0	0
Τ	0	0	1	0	0	0	22	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.223 row id1=(8283, 1) (Dra3-1) vs row id2=361

Table 291: row id1=(8283, 1) (Dra3-1) vs row id2=361

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	27	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	26	0	1	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	30	0	0	0	1	0	0	0	0	0	0	0	0
\mathbf{G}	36	0	0	0	0	1	0	0	0	0	0	0	0
${ m T}$	26	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.224 row id1=(8284, 1) (DraII-1) vs row id2=381

Table 292: row id1=(8284, 1) (DraII-1) vs row id2=381

		-	NA	A	С	G	Τ	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	26	0	0	0	0	0	0	0	0	0	0	0	0
A	25	0	0	0	0	0	0	0	1	0	0	0	0
\mathbf{C}	27	0	0	0	0	0	0	0	0	0	0	0	0
G	30	0	0	0	0	0	1	0	0	0	0	0	0
\mathbf{T}	31	0	0	0	0	0	0	0	0	0	0	1	0
AC	1	0	0	0	0	0	0	0	0	0	0	0	0
AG	2	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	3	0	0	0	0	0	0	0	0	0	0	0	0
GT	1	0	0	0	0	0	0	0	0	0	0	0	0

Table 293: detailed difference for row id1=(8284, 1) (DraII-1) vs row id2=381

row id1	col id1	call1	row id2	col id2	call2
(8284, 1)/DraII-1	AtMSQTsnp 274	G	381	AtMSQTsnp 274	T
(8284, 1)/DraII-1	AtMSQTsnp 278	A	381	AtMSQTsnp 278	AG
(8284, 1)/DraII-1	AtMSQTsnp 279	T	381	AtMSQTsnp 279	CT

3.225 row id1=(8285, 1) (DraIII-1) vs row id2=382

Table 294: row id1=(8285, 1) (DraIII-1) vs row id2=382

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	29	0	0	0	0	0	0	0	0	0	0	0	0
A	31	0	0	1	0	0	0	0	0	0	0	0	0
\mathbf{C}	29	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	27	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{T}	30	0	0	0	0	0	2	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.226 row id1=(8287, 1) (Eden-2) vs row id2=10

Table 295: row id1=(8287, 1) (Eden-2) vs row id2=10

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	1	4	10	8	8	3	0	0	0	0	0	0
A	1	0	2	25	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	19	0	0	0	0	0	0	0	0
\mathbf{G}	0	0	4	0	0	24	0	0	0	0	0	0	0
\mathbf{T}	1	0	3	0	0	0	35	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.227 row id1=(8288, 1) (Edi-0) vs row id2=94

Table 296: row id1=(8288, 1) (Edi-0) vs row id2=94

		-	NA	A	С	G	T	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	3	10	4	10	6	0	0	0	0	0	0
A	1	0	3	31	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	22	0	0	0	0	0	0	0	0
G	0	0	0	0	0	28	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	30	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.228 row id1=(8289, 1) (Ei-2) vs row id2=53

Table 297: row id1=(8289, 1) (Ei-2) vs row id2=53

		-	NA	A	С	G	T	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	1	7	6	8	7	0	0	0	0	0	0
A	0	0	0	32	0	0	0	0	0	0	0	0	0
С	0	0	4	0	29	0	0	0	0	0	0	0	0
G	0	0	1	0	0	32	0	0	0	0	0	0	0
\mathbf{T}	0	0	0	0	0	0	21	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0

CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.229 row id1=(8290, 1) (En-1) vs row id2=301

Table 298: row id1=(8290, 1) (En-1) vs row id2=301

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	25	0	0	0	0	0	0	0	0	0	0	0	0
A	32	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	31	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	35	0	0	0	0	2	0	0	0	0	0	0	0
${ m T}$	23	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.230 row id1=(8291, 1) (Est-1) vs row id2=66

Table 299: row id1=(8291, 1) (Est-1) vs row id2=66

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	3	9	4	7	8	0	0	0	0	0	0
A	0	0	2	29	0	0	0	0	0	0	0	0	0
С	0	0	2	0	28	0	0	0	0	0	0	0	0
G	0	0	2	0	0	25	0	0	0	0	0	0	0
T	0	0	1	0	0	0	28	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.231 row id1=(8292, 1) (F2) vs row id2=13

Table 300: row id1=(8292, 1) (F2) vs row id2=13

		-	NA	A	С	G	T	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	2	7	6	8	7	0	0	0	0	0	0
\mathbf{A}	0	0	3	31	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	2	0	26	0	0	0	0	0	0	0	0
G	0	0	1	0	0	26	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	30	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.232 row id1=(8293, 1) (F4) vs row id2=14

Table 301: row id1=(8293, 1) (F4) vs row id2=14

	-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
0	0	0	0	0	0	0	0	0	0	0	0	0

_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	1	9	4	7	5	0	0	0	0	0	0
A	0	0	1	35	0	0	1	0	0	0	0	0	0
$^{\rm C}$	0	0	2	0	25	0	0	0	0	0	1	0	0
G	0	0	1	0	0	29	0	0	0	0	0	0	0
T	0	0	0	0	0	0	27	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	1	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 302: detailed difference for row id1=(8293, 1) (F4) vs row id2=14

row id1	col id1	call1	row id2	col id2	call2
(8293, 1)/F4	AtMSQTsnp 307	A	14	AtMSQTsnp 307	T
(8293, 1)/F4	AtMSQTsnp 97	\mathbf{C}	14	AtMSQTsnp 97	CG

3.233 row id1=(8294, 1) (Fei-0) vs row id2=82

Table 303: row id1=(8294, 1) (Fei-0) vs row id2=82

		-	NA	Α	С	G	T	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	3	11	8	8	3	0	0	0	0	0	0
A	1	0	5	29	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	4	0	23	0	0	0	0	0	0	0	0
G	0	0	0	0	0	27	0	0	1	0	0	0	0
${ m T}$	1	0	3	0	0	0	22	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 304: detailed difference for row id1=(8294, 1) (Fei-0) vs row id2=82

row id1	col id1	call1	row id2	col id2	call2
(8294, 1)/Fei-0	AtMSQTsnp 223	G	82	AtMSQTsnp 223	AG

3.234 row id1=(8295, 1) (Ga-0) vs row id2=71

Table 305: row id1=(8295, 1) (Ga-0) vs row id2=71

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	3	8	6	6	7	0	0	0	0	0	0
A	0	0	0	32	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	3	0	19	0	0	0	0	0	0	0	0
G	0	0	2	0	0	28	0	0	0	0	0	0	0
\mathbf{T}	1	1	2	0	0	0	30	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.235 row id1=(8296, 1) (Gd-1) vs row id2=306

Table 306: row id1=(8296, 1) (Gd-1) vs row id2=306

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	25	0	0	0	0	0	0	0	0	0	0	0	0
A	26	0	0	1	0	0	0	0	0	0	0	0	0
\mathbf{C}	20	0	0	0	0	0	0	0	0	0	0	0	0
G	42	0	0	0	0	1	0	0	0	0	0	0	0
${ m T}$	33	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.236 row id1=(8297, 1) (Ge-0) vs row id2=322

Table 307: row id1=(8297, 1) (Ge-0) vs row id2=322

	1												
		-	NA	A	С	G	Τ	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	27	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	28	0	0	0	0	0	0	0	0	0	0	0	0
С	37	0	0	0	0	0	0	0	0	0	0	0	0
G	33	0	0	0	0	1	0	0	0	0	0	0	0
${ m T}$	21	0	0	0	0	0	2	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.237 row id1=(8298, 1) (Got-22) vs row id2=46

Table 308: row id1=(8298, 1) (Got-22) vs row id2=46

		-	NA	A	С	G	T	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	1	9	6	8	6	0	0	0	0	0	0
A	0	0	2	35	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	20	0	0	0	0	0	0	0	0
G	0	0	0	0	0	29	0	0	0	0	1	0	0
\mathbf{T}	0	0	0	0	0	0	31	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 309: detailed difference for row id1=(8298, 1) (Got-22) vs row id2=46

row id1	col id1	call1	row id2	col id2	call2
(8298, 1)/Got-22	AtMSQTsnp 306	G	46	AtMSQTsnp 306	CG

3.238 row id1=(8299, 1) (Got-7) vs row id2=45

Table 310: row id1=(8299, 1) (Got-7) vs row id2=45

	-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT

	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	10	4	9	6	0	0	0	0	0	0
A	0	0	0	36	0	0	0	0	0	0	0	0	0
$^{\rm C}$	0	0	0	0	23	0	0	0	0	0	0	0	0
G	1	0	1	0	0	28	0	0	0	0	0	0	0
T	0	0	1	0	0	0	30	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.239 row id1=(8300, 1) (Gr-1) vs row id2=302

Table 311: row id1=(8300, 1) (Gr-1) vs row id2=302

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	35	0	0	1	0	0	0	0	0	0	0	0	0
A	24	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	19	0	0	0	1	0	0	0	0	0	0	0	0
G	29	0	0	0	0	0	0	0	0	0	0	0	0
Τ	38	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.240 row id1=(8301, 1) (Gu-0) vs row id2=54

Table 312: row id1=(8301, 1) (Gu-0) vs row id2=54

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	7	9	7	5	0	0	0	0	0	0
\mathbf{A}	0	0	1	27	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	30	0	0	0	0	0	0	0	0
G	0	0	1	0	0	36	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	25	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.241 row id1=(8302, 1) (Gy-0) vs row id2=68

Table 313: row id1=(8302, 1) (Gy-0) vs row id2=68

		-	NA	Α	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	11	10	10	6	0	0	0	0	0	0
A	0	0	0	34	0	0	0	0	0	0	0	0	0
\mathbf{C}	1	0	1	0	20	0	0	0	0	0	0	0	0
G	0	0	0	0	0	28	0	0	0	0	0	0	0
${ m T}$	0	0	1	0	0	0	27	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.242 row id1=(8303, 1) (H55) vs row id2=323

Table 314: row id1=(8303, 1) (H55) vs row id2=323

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	34	0	0	0	0	1	0	0	0	0	0	0	0
A	32	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	29	0	0	0	1	0	0	0	0	0	0	0	0
G	27	0	0	0	0	1	0	0	0	0	0	0	0
${ m T}$	24	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.243 row id1=(8304, 1) (Hi-0) vs row id2=307

Table 315: row id1=(8304, 1) (Hi-0) vs row id2=307

		-	NA	A	С	G	T	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	27	0	0	0	0	0	0	0	0	0	0	0	0
A	33	0	1	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	32	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	28	0	0	0	0	1	0	0	0	0	0	0	0
${ m T}$	26	0	1	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.244 row id1=(8306, 1) (Hov4-1) vs row id2=348

Table 316: row id1=(8306, 1) (Hov4-1) vs row id2=348

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	25	0	0	0	0	0	0	0	0	0	0	0	0
A	28	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	27	0	1	0	0	0	0	0	0	0	0	0	0
G	33	0	0	0	0	2	0	0	0	0	0	0	0
${\rm T}$	33	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.245 row id1=(8308, 1) (HR-10) vs row id2=34

Table 317: row id1=(8308, 1) (HR-10) vs row id2=34

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	3	7	7	11	7	0	0	0	0	0	0
A	0	0	0	30	0	0	0	0	0	0	0	0	0

\mathbf{C}	1	10	1	0	27	0	1.0	0	0	l n	1.0	0	۱.	ı
	0	0	1	_		_	0	_	~	0	0	_	0	
G	0	0	1	0	0	31	0	0	0	0	0	0	U	
T	0	0	0	0	0	0	22	0	0	0	0	0	0	
AC	0	0	0	0	0	0	0	0	0	0	0	0	0	
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0	
AT	0	0	0	0	0	0	0	0	0	0	0	0	0	
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
CT	0	0	0	0	0	0	0	0	0	0	0	0	0	
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	

3.246 row id1=(8309, 1) (HR-5) vs row id2=33

Table 318: row id1=(8309, 1) (HR-5) vs row id2=33

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	3	10	5	8	5	0	0	0	0	0	0
A	0	0	0	31	0	0	0	0	1	0	0	0	0
С	0	0	1	0	35	0	0	0	0	0	0	0	0
G	0	0	0	0	0	24	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	26	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 319: detailed difference for row id1=(8309, 1) (HR-5) vs row id2=33

row id1	col id1	call1	row id2	col id2	call2
(8309, 1)/HR-5	AtMSQTsnp 114	A	33	AtMSQTsnp 114	AG

3.247 row id1=(8310, 1) () vs row id2=308

Table 320: row id1=(8310, 1) () vs row id2=308

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	53	0	0	0	0	2	0	0	0	0	0	0	0
\mathbf{A}	19	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	18	0	0	0	0	0	0	0	0	0	0	0	0
G	33	0	0	0	0	0	0	0	0	0	0	0	0
Τ	23	0	1	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.248 row id1=(8311, 1) (In-0) vs row id2=324

Table 321: row id1=(8311, 1) (In-0) vs row id2=324

		-	NA	A	С	G	Τ	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	26	0	0	0	0	0	0	0	0	0	0	0	0
A	28	0	0	1	0	0	0	0	0	0	0	0	0
\mathbf{C}	27	0	0	0	0	0	0	0	0	0	0	0	0
G	32	0	0	0	0	0	0	0	0	0	0	0	0
Τ	32	0	1	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0

\overline{AG}	1	0	0	0	0	0	0	0	0	0	0	0	0	I
AT	0	0	0	0	0	0	0	0	0	0	0	0	0	
CG	0	0	0	0	0	0	0	0	0	0	0	0	0	
CT	0	0	0	0	0	0	0	0	0	0	0	0	0	
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	

3.249 row id1=(8312, 1) (Is-0) vs row id2=309

Table 322: row id1=(8312, 1) (Is-0) vs row id2=309

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	29	0	0	0	0	0	0	0	0	0	0	0	0
A	27	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	30	0	1	0	0	0	0	0	0	0	0	0	0
G	32	0	0	0	0	1	0	0	0	0	0	0	0
${ m T}$	28	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.250 row id1=(8313, 1) (Jm-0) vs row id2=310

Table 323: row id1=(8313, 1) (Jm-0) vs row id2=310

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	29	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	26	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	30	0	0	0	0	0	0	0	0	0	0	0	0
G	32	0	0	0	0	1	0	0	0	0	0	0	0
Τ	29	0	0	0	0	0	2	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.251 row id1=(8314, 1) (Ka-0) vs row id2=311

Table 324: row id1=(8314, 1) (Ka-0) vs row id2=311

		-	NA	A	С	G	Τ	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	28	0	0	0	0	0	0	0	0	0	0	0	0
A	30	0	0	1	0	0	0	0	0	0	0	0	0
\mathbf{C}	27	0	0	0	1	0	0	0	0	0	0	0	0
G	32	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	29	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.252 row id1=(8316, 1) (Kin-0) vs row id2=91

Table 325: row id1=(8316, 1) (Kin-0) vs row id2=91

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	3	12	4	8	6	0	0	0	0	0	0
A	0	0	2	24	0	0	0	0	0	0	0	0	0
С	1	0	5	0	23	0	0	0	0	0	0	0	0
G	2	0	2	0	0	32	0	0	0	0	0	0	0
Τ	0	0	1	0	0	0	23	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	1	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 326: detailed difference for row id1=(8316, 1) (Kin-0) vs row id2=91

row id1	col id1	call1	row id2	col id2	call2
(8316, 1)/Kin-0	AtMSQTsnp 138	CT	91	AtMSQTsnp 138	С

3.253 row id1=(8317, 1) (Kno-10) vs row id2=3

Table 327: row id1=(8317, 1) (Kno-10) vs row id2=3

		_	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	3	8	4	6	4	0	0	0	0	0	0
A	0	0	2	34	0	0	0	0	0	0	0	0	0
С	4	0	0	0	18	1	0	0	0	0	0	0	0
G	1	0	1	0	0	29	0	0	0	0	0	0	0
${\rm T}$	1	0	4	0	0	0	27	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 328: detailed difference for row id1=(8317, 1) (Kno-10) vs row id2=3

row id1	col id1	call1	row id2	col id2	call2
(8317, 1)/Kno-10	AtMSQTsnp 378	С	3	AtMSQTsnp 378	G

3.254 row id1=(8318, 1) (Kno-18) vs row id2=4

Table 329: row id1=(8318, 1) (Kno-18) vs row id2=4

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	3	7	3	11	5	0	0	0	0	0	0
A	0	0	2	31	0	0	0	0	0	0	0	0	0
\mathbf{C}	1	0	1	0	23	0	0	0	0	0	0	0	0
\mathbf{G}	3	0	1	0	0	26	0	0	0	0	0	0	0
${ m T}$	0	0	2	0	0	0	29	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 330: row id1=(8319, 1) (Kondara) vs row id2=88

		-	NA	A	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	1	0	11	5	4	5	0	0	0	0	0	0
A	1	0	3	30	0	0	0	0	0	0	0	0	0
C	0	0	0	0	30	0	0	0	0	0	0	0	0
G	0	0	2	1	0	26	0	0	0	0	0	0	0
T	0	0	1	0	0	0	28	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 331: detailed difference for row id1=(8319, 1) (Kondara) vs $row~id2{=}88$

row id1	col id1	call1	row id2	col id2	call2
(8319, 1)/Kondara	AtMSQTsnp 114	G	88	AtMSQTsnp 114	A

3.256 row id1=(8320, 1) (Kz-1) vs row id2=43

Table 332: row id1=(8320, 1) (Kz-1) vs row id2=43

		-	NA	A	С	G	T	AC	$^{\mathrm{AG}}$	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	5	8	9	4	8	0	0	0	0	0	0
A	0	0	1	31	0	0	0	0	0	0	0	0	0
С	0	0	3	0	22	0	1	0	0	0	0	0	0
G	0	0	1	0	0	30	0	0	0	0	0	0	0
${ m T}$	0	0	1	0	0	0	25	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 333: detailed difference for row id1=(8320, 1) (Kz-1) vs row id2 = 43

ſ	row id1	col id1	call1	row id2	col id2	call2
Ī	(8320, 1)/Kz-1	AtMSQTsnp 15	С	43	AtMSQTsnp 15	Т

3.257 row id1=(8321, 1) (Kz-13) vs row id2=298

Table 334: row id1=(8321, 1) (Kz-13) vs row id2=298

		-	NA	A	С	G	Τ	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	29	0	0	0	0	0	0	0	0	0	0	0	0
A	25	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	20	0	0	0	1	0	0	0	0	0	0	0	0
G	26	0	0	0	0	1	0	0	0	0	0	0	0
${ m T}$	18	0	0	0	0	0	1	0	0	0	0	0	0
AC	2	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	6	0	0	0	0	0	0	0	0	0	0	0	0
AT	3	0	0	0	0	0	0	0	0	0	0	0	0
CG	1	0	0	0	0	0	0	0	0	0	0	0	0
CT	12	0	0	0	0	0	0	0	0	0	0	0	0

3.258 row id1=(8322, 1) (Kz-9) vs row id2=44

Table 335: row id1=(8322, 1) (Kz-9) vs row id2=44

		-	NA	Α	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	1	1	6	8	8	6	0	0	0	0	0	0
A	0	0	2	29	0	0	0	0	0	0	0	0	0
\mathbf{C}	2	0	0	0	29	0	0	0	0	0	0	0	0
G	0	0	0	0	0	29	0	0	0	0	0	0	0
\mathbf{T}	0	0	2	0	0	0	25	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.259 row id1=(8323, 1) (Lc-0) vs row id2=325

Table 336: row id1=(8323, 1) (Lc-0) vs row id2=325

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	27	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	31	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	23	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	37	0	0	0	0	2	0	0	0	0	0	0	0
${f T}$	28	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.260 row id1 = (8324, 1) (Ler-1) vs row id2 = 55

Table 337: row id1=(8324, 1) (Ler-1) vs row id2=55

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	1	10	7	9	5	0	0	0	0	0	0
\mathbf{A}	0	0	0	33	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	19	0	1	0	0	0	0	0	0
G	0	0	1	0	0	33	0	0	0	0	0	0	0
${\rm T}$	0	0	1	0	0	0	28	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 338: detailed difference for row id1=(8324, 1) (Ler-1) vs row id2=55

row id1	col id1	call1	row id2	col id2	call2
(8324, 1)/Ler-1	AtMSQTsnp 159	С	55	AtMSQTsnp 159	Т

Table 339: row id1=(8325, 1) (Lip-0) vs row id2=326

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	39	0	0	0	0	0	0	0	0	0	0	0	0
A	26	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	27	0	0	0	1	0	0	0	0	0	0	0	0
G	28	0	0	0	0	1	0	0	0	0	0	0	0
${ m T}$	26	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.262 row id1=(8326, 1) (Lis-1) vs row id2=365

Table 340: row id1=(8326, 1) (Lis-1) vs row id2=365

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	25	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	26	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	25	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	38	0	1	0	0	1	0	0	0	0	0	0	0
${f T}$	32	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.263 row id1=(8328, 1) (LL-0) vs row id2=87

Table 341: row id1=(8328, 1) (LL-0) vs row id2=87

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	4	11	7	11	3	0	0	0	0	0	0
A	0	0	1	23	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	26	0	0	0	0	0	0	0	0
G	0	0	1	0	0	29	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	31	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.264 row id1=(8329, 1) (Lm-2) vs row id2=327

Table 342: row id1=(8329, 1) (Lm-2) vs row id2=327

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	28	0	0	0	0	0	0	0	0	0	0	0	0
A	38	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	25	0	0	0	0	0	0	0	0	0	0	0	0
G	24	0	0	0	0	2	0	0	0	0	0	0	0
${ m T}$	31	0	0	0	0	0	1	0	0	0	0	0	0

AC	0	0	0	0	0	0	0	0	0	0	0	0	0	
AG	0	0	0	0	0	0	0	0	0	0	0	0	0	
AT	0	0	0	0	0	0	0	0	0	0	0	0	0	
CG	0	0	0	0	0	0	0	0	0	0	0	0	0	
CT	0	0	0	0	0	0	0	0	0	0	0	0	0	
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	

3.265 row id1=(8332, 1) (Lp2-2) vs row id2=31

Table 343: row id1=(8332, 1) (Lp2-2) vs row id2=31

		-	NA	Α	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	1	7	10	12	3	0	0	0	0	0	0
A	0	0	0	27	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	27	0	0	0	0	0	0	0	0
G	0	0	2	0	0	28	0	0	0	0	0	0	0
${ m T}$	0	0	1	0	0	0	30	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.266 row id1=(8333, 1) (Lp2-6) vs row id2=32

Table 344: row id1=(8333, 1) (Lp2-6) vs row id2=32

		-	NA	Α	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	2	7	6	8	5	0	0	0	0	0	0
A	0	0	0	33	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	29	0	0	0	0	0	0	0	0
G	0	0	1	0	0	25	0	0	0	0	0	0	0
${f T}$	0	0	2	0	0	0	28	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.267 row id1=(8334, 1) (Lu-1) vs row id2=328

Table 345: row id1=(8334, 1) (Lu-1) vs row id2=328

		-	NA	A	С	G	Τ	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	28	0	0	0	0	0	0	0	0	0	0	0	0
A	33	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	27	0	0	0	0	0	0	0	0	0	0	0	0
G	29	0	1	0	0	0	0	0	0	0	0	0	0
${ m T}$	29	0	0	0	0	0	2	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.268 row id1=(8335, 1) (Lund) vs row id2=292

Table 346: row id1=(8335, 1) (Lund) vs row id2=292

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	26	0	0	0	0	0	0	0	0	0	0	0	0
A	32	0	0	1	0	0	0	0	0	0	0	0	0
\mathbf{C}	26	0	0	0	0	0	0	0	0	0	0	0	0
G	32	0	0	0	0	1	0	0	0	0	0	0	0
\mathbf{T}	30	0	1	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.269 row id1=(8336, 1) (Lz-0) vs row id2=52

Table 347: row id1=(8336, 1) (Lz-0) vs row id2=52

		-	NA	Α	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	1	10	6	8	2	0	0	0	0	0	0
A	0	0	0	39	0	0	0	0	0	0	0	0	0
С	2	0	3	0	27	0	1	0	0	0	0	0	0
G	0	0	1	0	0	23	0	0	0	0	0	0	0
T	0	0	1	0	0	0	24	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 348: detailed difference for row id1=(8336, 1) (Lz-0) vs row id2=52

row id1	col id1	call1	row id2	col id2	call2
(8336, 1)/Lz-0	AtMSQTsnp 159	С	52	AtMSQTsnp 159	T

3.270 row id1=(8337, 1) (Mir-0) vs row id2=329

Table 349: row id1=(8337, 1) (Mir-0) vs row id2=329

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	32	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	29	0	1	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	26	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	29	0	0	0	0	1	0	0	0	0	0	0	0
${ m T}$	29	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	1	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.271 row id1=(8338, 1) (Mr-0) vs row id2=77

Table 350: row id1=(8338, 1) (Mr-0) vs row id2=77

	-	NA	A	Γ	G	$\mid T \mid$	AC	AG	AT	CG	CT	GT

١		0	0	0	0	0	0	0	0	0	0	0	0	0	
İ	-	0	0	0	0	0	0	0	0	0	0	0	0	0	
İ	NA	0	0	1	10	4	10	1	0	0	0	0	0	0	
١	A	0	0	2	22	0	0	0	0	0	0	0	0	0	
	\mathbf{C}	0	0	3	0	31	0	0	0	0	0	0	0	0	
١	\mathbf{G}	1	0	2	0	0	39	0	0	0	0	0	0	0	
I	Τ	0	0	2	0	0	0	21	0	0	0	0	0	0	
İ	AC	0	0	0	0	0	0	0	0	0	0	0	0	0	
İ	AG	0	0	0	0	0	0	0	0	0	0	0	0	0	
İ	AT	0	0	0	0	0	0	0	0	0	0	0	0	0	
١	CG	0	0	0	0	0	0	0	0	0	0	0	0	0	
١	CT	0	0	0	0	0	0	0	0	0	0	0	0	0	
	GT	0	0	0	0	0	0	0	0	0	0	0	0	0	

3.272 row id1=(8339, 1) (Mrk-0) vs row id2=72

Table 351: row id1=(8339, 1) (Mrk-0) vs row id2=72

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	1	12	6	7	6	0	0	0	0	0	0
A	0	0	2	29	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	3	0	20	0	0	0	0	0	0	0	0
G	0	0	1	0	0	31	0	0	0	0	0	0	0
${ m T}$	0	1	0	0	1	0	28	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 352: detailed difference for row id1=(8339, 1) (Mrk-0) vs row id2=72

	row id1	col id1	call1	row id2	col id2	call2
ĺ	(8339, 1)/Mrk-0	AtMSQTsnp 325	T	72	AtMSQTsnp 325	С

3.273 row id1=(8340, 1) (Ms-0) vs row id2=92

Table 353: row id1=(8340, 1) (Ms-0) vs row id2=92

		-	NA	Α	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	0	8	6	10	7	0	0	0	0	0	0
A	1	0	2	25	0	0	0	0	2	0	0	0	0
С	4	0	0	0	26	0	0	0	0	0	0	0	0
G	2	0	3	1	0	23	0	0	1	0	0	0	0
${ m T}$	1	0	1	0	0	0	24	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 354: detailed difference for row id1=(8340, 1) (Ms-0) vs row id2=92

	row id1	col id1	call1	row id2	col id2	call2
Ì	(8340, 1)/Ms-0	AtMSQTsnp 173	G	92	AtMSQTsnp 173	A
	(8340, 1)/Ms-0	AtMSQTsnp 177	A	92	AtMSQTsnp 177	\overline{AG}
	(8340, 1)/Ms-0	AtMSQTsnp 249	A	92	AtMSQTsnp 249	\overline{AG}
	(8340, 1)/Ms-0	AtMSQTsnp 323	G	92	AtMSQTsnp 323	\overline{AG}

Table 355: row id1=(8341, 1) (Mt-0) vs row id2=79

		-	NA	A	С	G	T	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	3	9	8	7	6	0	0	0	0	0	0
A	0	0	1	33	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	22	0	0	0	0	0	0	0	0
G	1	0	3	0	0	30	0	0	0	0	0	0	0
\mathbf{T}	0	0	2	0	0	0	21	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	1	0	1	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 356: detailed difference for row id1=(8341, 1) (Mt-0) vs row id2=79

row id1	col id1	call1	row id2	col id2	call2
(8341, 1)/Mt-0	AtMSQTsnp 138	CT	79	AtMSQTsnp 138	С

3.275 row id1=(8342, 1) (Mz-0) vs row id2=73

Table 357: row id1=(8342, 1) (Mz-0) vs row id2=73

		-	NA	A	С	G	T	AC	$^{\mathrm{AG}}$	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	8	6	9	6	0	0	0	0	0	0
A	0	0	1	31	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	26	0	0	0	0	0	0	0	0
G	1	0	3	0	0	34	0	0	0	0	0	0	0
\mathbf{T}	0	0	1	0	0	0	22	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.276 row id1=(8343, 1) (Na-1) vs row id2=330

Table 358: row id1=(8343, 1) (Na-1) vs row id2=330

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	31	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	28	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	29	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	35	0	0	0	0	1	0	0	0	0	0	0	0
${ m T}$	22	0	0	0	0	0	2	0	0	0	0	0	0
AC	1	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.277 row id1=(8344, 1) (Nd-1) vs row id2=56

Table 359: row id1=(8344, 1) (Nd-1) vs row id2=56

	1												
		-	NA	Α	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	1	8	5	9	3	0	0	0	0	0	0
A	0	0	0	40	0	0	0	0	0	0	0	0	0
С	1	0	1	0	30	0	0	0	0	0	0	0	0
G	0	0	1	0	0	24	0	0	0	0	0	0	0
T	0	0	1	0	0	0	24	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.278 row id1=(8345, 1) (NFA-10) vs row id2=36

Table 360: row id1=(8345, 1) (NFA-10) vs row id2=36

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	Ö	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	1	10	7	9	5	0	0	0	0	0	0
A	0	0	0	26	0	0	0	0	0	0	0	0	0
С	0	0	3	0	23	0	0	0	0	0	0	0	0
G	0	0	1	0	0	30	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	1	0	33	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 361: detailed difference for row id1=(8345, 1) (NFA-10) vs row id2=36

row id1	col id1	call1	row id2	col id2	call2
(8345, 1)/NFA-10	AtMSQTsnp 159	T	36	AtMSQTsnp 159	С

3.279 row id1=(8346, 1) (NFA-8) vs row id2=35

Table 362: row id1=(8346, 1) (NFA-8) vs row id2=35

		-	NA	A	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	3	7	4	6	7	0	0	0	0	0	0
A	0	0	0	28	0	0	0	0	0	0	0	0	0
С	0	0	0	0	32	0	0	0	0	0	0	0	0
G	0	0	0	0	0	33	0	0	0	0	0	0	0
Τ	0	0	1	0	0	0	27	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.280 row id1=(8347, 1) (Nok-3) vs row id2=80

Table 363: row id1=(8347, 1) (Nok-3) vs row id2=80

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0

NA	1	0	1	7	4	10	6	0	0	0	0	0	0
A	0	0	1	37	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	22	0	0	0	0	0	0	0	0
G	1	0	0	0	0	29	0	0	0	0	0	0	0
T	1	0	2	0	1	0	25	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 364: detailed difference for row id1=(8347, 1) (Nok-3) vs row id2=80

row id1	col id1	call1	row id2	col id2	call2
(8347, 1)/Nok-3	AtMSQTsnp 334	Т	80	AtMSQTsnp 334	С

3.281 row id1=(8348, 1) (Nw-0) vs row id2=331

Table 365: row id1=(8348, 1) (Nw-0) vs row id2=331

	1												
		-	NA	A	С	G	Τ	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	6	0	0	0	0	0	0	0	0	0	0	0	0
A	39	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	28	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	42	0	1	0	0	0	0	0	0	0	0	0	0
${ m T}$	31	0	1	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.282 row id1=(8349, 1) () vs row id2=21

Table 366: row id1=(8349, 1) () vs row id2=21

		-	NA	Α	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	1	7	9	9	5	0	0	0	0	0	0
\mathbf{A}	0	0	2	25	0	0	0	0	0	0	0	0	0
\mathbf{C}	1	0	1	0	18	0	0	0	0	0	0	0	0
G	1	0	1	0	0	34	0	0	0	0	0	0	0
${ m T}$	0	0	1	0	0	0	33	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.283 row id1=(8350, 1) () vs row id2=22

Table 367: row id1=(8350, 1) () vs row id2=22

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	1	9	8	5	4	0	0	0	0	0	0
A	0	0	1	23	0	0	0	0	0	0	0	0	0
С	0	0	0	0	27	0	0	0	0	0	0	0	0
G	0	0	1	1	0	37	0	0	0	0	0	0	0

Γ	0	0	0	0	0	0	31	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 368: detailed difference for row id1=(8350, 1) () vs row id2=22

row id1	col id1	call1	row id2	col id2	call2
(8350, 1)/	AtMSQTsnp 373	G	22	AtMSQTsnp 373	A

3.284 row id1=(8351, 1) (Ost-0) vs row id2=332

Table 369: row id1=(8351, 1) (Ost-0) vs row id2=332

	1		TAT A	Α.			TD.	10	1.0	Am	aa	CIT	C/T
		-	NA	A	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	30	0	0	0	0	0	0	0	0	0	0	0	0
A	35	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	24	0	1	0	0	0	0	0	0	0	0	0	0
G	29	0	0	0	0	2	0	0	0	0	0	0	0
${\rm T}$	28	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.285 row id1=(8352, 1) (Oy-0) vs row id2=95

Table 370: row id1=(8352, 1) (Oy-0) vs row id2=95

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	2	7	9	7	4	0	0	0	0	0	0
A	1	0	0	32	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	31	0	0	0	0	0	0	0	0
G	0	0	4	0	0	27	0	0	0	0	0	0	0
${ m T}$	0	0	1	0	0	0	22	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.286 row id1=(8353, 1) (Pa-1) vs row id2=333

Table 371: row id1=(8353, 1) (Pa-1) vs row id2=333

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	32	0	0	0	0	0	0	0	0	0	0	0	0
A	34	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	18	0	0	0	0	0	0	0	0	0	0	0	0
G	33	0	0	0	0	1	0	0	0	0	0	0	0
\mathbf{T}	29	0	0	0	0	0	2	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0

CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.287 row id1=(8354, 1) (Per-1) vs row id2=334

Table 372: row id1=(8354, 1) (Per-1) vs row id2=334

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	26	0	0	0	0	0	0	0	0	0	0	0	0
A	32	0	0	1	0	0	0	0	0	0	0	0	0
\mathbf{C}	25	0	0	0	1	0	0	0	0	0	0	0	0
\mathbf{G}	25	0	1	0	0	0	0	0	0	0	0	0	0
${ m T}$	37	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.288 row id1=(8355, 1) (Petergof) vs row id2=335

Table 373: row id1=(8355, 1) (Petergof) vs row id2=335

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	32	0	0	0	0	0	0	0	0	0	0	0	0
A	29	0	0	1	0	0	0	0	0	0	0	0	0
\mathbf{C}	27	0	0	0	1	0	0	0	0	0	0	0	0
\mathbf{G}	34	0	0	0	0	1	0	0	0	0	0	0	0
${ m T}$	24	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.289 row id1=(8356, 1) (Pi-0) vs row id2=336

Table 374: row id1=(8356, 1) (Pi-0) vs row id2=336

		-	NA	A	С	G	Τ	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	24	0	0	0	0	0	0	0	0	0	0	0	0
A	31	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	28	0	0	0	0	0	0	0	0	0	0	0	0
G	36	0	0	0	0	1	1	0	0	0	0	0	0
\mathbf{T}	27	0	0	0	1	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 375: detailed difference for row id1=(8356, 1) (Pi-0) vs row id2=336

row id1	col id1	call1	row id2	col id2	call2
(8356, 1)/Pi-0	AtMSQTsnp 274	G	336	AtMSQTsnp 274	Т
(8356, 1)/Pi-0	AtMSQTsnp 279	$\mid \mathrm{T}$	336	AtMSQTsnp 279	C

3.290 row id1=(8357, 1) (Pla-0) vs row id2=337

Table 376: row id1=(8357, 1) (Pla-0) vs row id2=337

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	27	0	0	0	0	0	0	0	0	0	0	0	0
A	36	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	22	0	1	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	33	0	1	0	0	0	0	0	0	0	0	0	0
${ m T}$	28	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.291 row id1=(8358, 1) (Pna-10) vs row id2=8

Table 377: row id1=(8358, 1) (Pna-10) vs row id2=8

		-	NA	A	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	0	10	3	5	4	0	0	0	0	0	0
A	1	0	3	31	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	3	0	20	0	0	0	0	0	0	0	0
G	0	0	3	0	0	31	0	0	0	0	0	0	0
${ m T}$	0	0	4	0	0	0	30	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.292 row id1=(8359, 1) (Pna-17) vs row id2=7

Table 378: row id1=(8359, 1) (Pna-17) vs row id2=7

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	3	0	2	8	7	7	6	0	0	0	0	0	0
A	0	0	1	36	0	0	0	0	0	0	0	0	0
\mathbf{C}	2	0	1	0	17	0	0	0	0	0	0	0	0
G	0	0	2	0	0	33	0	0	0	0	0	0	0
\mathbf{T}	3	0	0	0	0	0	21	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.293 row id1=(8360, 1) (Pro-0) vs row id2=86

Table 379: row id1=(8360, 1) (Pro-0) vs row id2=86

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	3	6	3	14	7	0	0	0	0	0	0
A	1	0	2	35	0	0	0	0	0	0	0	0	0

~								1 -						
$^{\mathrm{C}}$	0	0	2	0	23	0	0	0	0	0	0	0	0	
G	0	0	0	0	0	30	0	0	0	0	0	0	0	
Τ	1	0	0	0	0	0	21	0	0	0	0	0	0	
AC	0	0	1	0	0	0	0	0	0	0	0	0	0	
AG	0	0	0	0	0	0	0	0	0	0	0	0	0	
AT	0	0	0	0	0	0	0	0	0	0	0	0	0	
CG	0	0	0	0	0	0	0	0	0	0	0	0	0	
CT	0	0	0	0	0	0	0	0	0	0	0	0	0	
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	

3.294 row id1=(8361, 1) (Pu2-23) vs row id2=30

Table 380: row id1=(8361, 1) (Pu2-23) vs row id2=30

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	0	8	9	8	6	0	0	0	0	0	0
A	1	0	1	27	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	24	0	0	0	0	0	0	0	0
G	1	0	0	0	0	28	0	0	0	0	0	0	0
\mathbf{T}	0	0	0	0	0	0	34	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.295 row id1=(8362, 1) (Pu2-7) vs row id2=29

Table 381: row id1=(8362, 1) (Pu2-7) vs row id2=29

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	1	0	5	3	13	5	0	0	0	0	0	0
\mathbf{A}	0	0	1	32	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	2	0	22	0	0	0	0	0	0	0	0
G	0	0	0	0	0	28	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	37	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.296 row id1=(8363, 1) (Pu2-8) vs row id2=296

Table 382: row id1=(8363, 1) (Pu2-8) vs row id2=296

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	25	0	0	0	0	0	0	0	0	0	0	0	0
A	30	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	30	0	0	0	0	0	0	0	0	0	0	0	0
G	27	0	0	0	0	1	0	0	0	0	0	0	0
${ m T}$	34	0	0	0	0	0	2	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 383: row id1=(8364, 1) (Ra-0) vs row id2=69

		-	NA	A	С	G	T	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	1	11	9	7	4	0	0	0	0	0	0
A	1	0	2	27	0	1	0	0	0	0	0	0	0
\mathbf{C}	0	0	2	1	28	0	0	0	0	0	0	0	0
G	0	0	1	0	0	35	0	0	0	0	0	0	0
\mathbf{T}	0	0	1	0	1	0	16	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 384: detailed difference for row id1=(8364, 1) (Ra-0) vs row id2=69

row id1	col id1	call1	row id2	col id2	call2
(8364, 1)/Ra-0	AtMSQTsnp 223	A	69	AtMSQTsnp 223	G
(8364, 1)/Ra-0	AtMSQTsnp 321	С	69	AtMSQTsnp 321	A
(8364, 1)/Ra-0	AtMSQTsnp 334	Γ	69	AtMSQTsnp 334	\mathbf{C}

3.298 row id1=(8365, 1) (Rak-2) vs row id2=338

Table 385: row id1=(8365, 1) (Rak-2) vs row id2=338

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	27	0	0	0	0	0	0	0	0	0	0	0	0
A	25	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	29	0	0	0	0	0	0	0	0	0	0	0	0
G	38	0	1	0	0	0	0	0	0	0	0	0	0
${ m T}$	27	0	0	0	0	0	2	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.299 row id1=(8367, 1) (Ren-1) vs row id2=47

Table 386: row id1=(8367, 1) (Ren-1) vs row id2=47

	1		NA	Λ	С	G	Т	\overline{AC}	AG	AT	CC	СТ	GT
1		-		A	_		_			AT	CG	-	
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	0	6	12	6	6	0	0	0	0	0	0
A	0	0	1	27	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	2	1	28	0	0	0	0	0	0	0	0
G	1	0	1	0	0	29	0	0	0	0	0	0	0
Τ	0	0	1	0	0	0	25	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	1	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 387: detailed difference for row id1=(8367, 1) (Ren-1) vs row id2=47

row id1	col id1	call1	row id2	col id2	call2
(8367, 1)/Ren-1	AtMSQTsnp 388	С	47	AtMSQTsnp 388	A

3.300 row id1 = (8368, 1) (Ren-11) vs row id2 = 48

Table 388: row id1=(8368, 1) (Ren-11) vs row id2=48

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	5	22	24	17	18	0	0	0	0	0	1
\mathbf{A}	0	0	0	16	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	11	0	0	0	0	0	0	0	0
G	0	0	1	0	0	17	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	15	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	1	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.301 row id1=(8369, 1) (Rev-1) vs row id2=347

Table 389: row id1=(8369, 1) (Rev-1) vs row id2=347

		-	NA	Α	С	G	Τ	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	25	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{A}	30	0	0	1	0	0	0	0	0	0	0	0	0
\mathbf{C}	29	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	34	0	0	0	0	1	0	0	0	0	0	0	0
${f T}$	28	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.302 row id1=(8370, 1) (Rmx-A02) vs row id2=5

Table 390: row id1=(8370, 1) (Rmx-A02) vs row id2=5

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	2	8	5	7	6	0	0	0	0	0	0
A	0	0	5	33	0	0	0	0	0	0	0	0	0
\mathbf{C}	2	0	0	0	21	0	0	0	0	0	0	0	0
G	1	0	2	0	0	28	0	0	0	0	0	0	0
${ m T}$	1	0	2	0	0	0	25	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.303 row id1=(8371, 1) (Rmx-A180) vs row id2=6

Table 391: row id1=(8371, 1) (Rmx-A180) vs row id2=6

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	2	6	5	6	6	0	0	0	0	0	0
A	1	0	1	28	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	26	0	0	0	0	0	0	0	0
G	1	0	2	0	0	32	0	0	0	0	0	0	0
Τ	1	0	0	0	0	0	27	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.304 row id1=(8372, 1) (RRS-10) vs row id2=2

Table 392: row id1=(8372, 1) (RRS-10) vs row id2=2

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	1	10	4	7	4	0	0	0	0	0	0
A	0	0	2	32	1	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	22	0	0	0	0	0	0	0	0
G	1	0	3	0	0	28	0	0	0	0	0	0	0
${ m T}$	1	0	3	0	0	0	29	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 393: detailed difference for row id1=(8372, 1) (RRS-10) vs row id2=2

row id1	col id1	call1	row id2	col id2	call2
(8372, 1)/RRS-10	AtMSQTsnp 140	A	2	AtMSQTsnp 140	С

3.305 row id1=(8374, 1) (Rsch-4) vs row id2=290

Table 394: row id1=(8374, 1) (Rsch-4) vs row id2=290

		-	NA	A	С	G	Τ	AC	\overline{AG}	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	31	0	0	0	0	0	0	0	0	0	0	0	0
A	33	0	0	0	0	0	0	0	0	0	0	0	0
С	24	0	0	0	0	0	0	0	0	0	0	0	0
G	33	0	0	0	0	1	0	0	0	0	0	0	0
Τ	25	0	0	0	0	0	2	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.306 row id1=(8375, 1) (Rubezhnoe-1) vs row id2=339

Table 395: row id1=(8375, 1) (Rubezhnoe-1) vs row id2=339

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0

NA	30	0	0	0	0	0	0	0	0	0	0	0	0
A	27	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	26	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	32	0	1	0	0	1	0	0	0	0	0	0	0
${ m T}$	31	0	1	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.307 row id1=(8376, 1) (Sanna-2) vs row id2=376

Table 396: row id1=(8376, 1) (Sanna-2) vs row id2=376

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	31	0	0	0	0	0	0	0	0	0	0	0	0
A	38	0	0	1	0	0	0	0	0	0	0	0	0
С	19	0	1	0	0	0	0	0	0	0	0	0	0
G	29	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	29	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.308 row id1=(8377, 1) (Santa Clara) vs row id2=340

Table 397: row id1=(8377, 1) (Santa Clara) vs row id2=340

		-	NA	A	С	G	Τ	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	26	0	0	0	0	0	0	0	0	0	0	0	0
A	37	0	1	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	30	0	0	0	0	0	0	0	0	0	0	0	0
G	26	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	27	0	0	0	0	0	2	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.309 row id1=(8378, 1) (Sap-0) vs row id2=341

Table 398: row id1=(8378, 1) (Sap-0) vs row id2=341

		-	NA	A	С	G	Τ	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	24	0	0	0	0	0	0	0	0	0	0	0	0
A	28	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	26	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	35	0	1	0	0	0	0	0	0	0	0	0	0
${ m T}$	33	0	0	0	0	0	2	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.310 row id1=(8379, 1) (Se-0) vs row id2=83

Table 399: row id1=(8379, 1) (Se-0) vs row id2=83

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	2	9	3	13	4	0	0	0	0	0	0
A	0	0	0	32	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	3	0	18	0	0	0	0	0	0	0	0
G	0	0	1	0	0	31	0	0	0	0	0	0	0
\mathbf{T}	0	0	2	0	0	0	31	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.311 row id1=(8380, 1) (Sf-1) vs row id2=300

Table 400: row id1=(8380, 1) (Sf-1) vs row id2=300

		-	NA	A	С	G	Τ	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	27	0	0	0	0	0	0	0	0	0	0	0	0
A	39	0	0	0	0	0	0	0	0	0	0	0	0
С	24	0	0	0	0	0	0	0	0	0	0	0	0
G	27	0	0	1	0	0	0	0	0	0	0	0	0
${ m T}$	29	0	0	0	0	1	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 401: detailed difference for row id1=(8380, 1) (Sf-1) vs row id2=300

row id1	col id1	call1	row id2	col id2	call2
(8380, 1)/Sf-1	AtMSQTsnp 274	T	300	AtMSQTsnp 274	G
(8380, 1)/Sf-1	AtMSQTsnp 278	G	300	AtMSQTsnp 278	A

3.312 row id1=(8381, 1) (Sorbo) vs row id2=90

Table 402: row id1=(8381, 1) (Sorbo) vs row id2=90

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	1	3	11	10	4	4	0	0	0	0	0	0
A	0	0	5	28	0	0	0	0	0	0	0	0	0
$^{\mathrm{C}}$	2	0	1	0	26	0	0	0	0	0	0	0	0
\mathbf{G}	0	0	1	0	0	27	0	0	0	0	0	0	0
${ m T}$	0	0	4	0	0	0	21	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.313 row id1=(8382, 1) (Spr1-2) vs row id2=19

		-	NA	Α	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	1	2	8	5	8	4	0	0	0	0	0	0
A	0	0	1	27	0	0	0	0	0	0	0	0	0
\mathbf{C}	1	0	0	0	28	0	0	0	0	0	0	0	0
G	0	0	2	0	0	33	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	29	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.314 row id1=(8383, 1) (Spr1-6) vs row id2=20

Table 404: row id1=(8383, 1) (Spr1-6) vs row id2=20

			27.4				-	1.0	1.0	4.00	0.0	O.T.	(Am)
		-	NA	A	$^{\circ}$ C	G	$\mid T \mid$	AC	AG	\mid AT	$^{\mathrm{CG}}$	CT	\mid GT \mid
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	1	0	5	8	11	7	0	0	0	0	0	0
A	0	0	3	29	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	2	0	26	0	0	0	0	0	0	0	0
G	0	0	0	0	0	33	0	0	0	0	0	0	0
${\rm T}$	0	0	1	0	0	0	22	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.315 row id1=(8384, 1) (Sq-1) vs row id2=37

Table 405: row id1=(8384, 1) (Sq-1) vs row id2=37

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	9	9	9	4	0	0	0	0	0	0
A	0	0	0	31	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	26	0	0	0	0	0	0	0	0
G	1	0	0	0	0	31	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	28	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.316 row id1=(8385, 1) (Sq-8) vs row id2=38

Table 406: row id1=(8385, 1) (Sq-8) vs row id2=38

		-	NA	A	С	G	T	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	0	9	9	5	5	0	0	0	0	0	0
Α	1	0	1	34	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	28	0	0	0	0	0	0	0	0
G	2	0	1	0	0	24	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	29	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0

AT	0	0	0	0	0	0	0	0	0	0	0	0	0	
CG	0	0	0	0	0	0	0	0	0	0	0	0	0	
CT	0	0	0	0	0	0	0	0	0	0	0	0	0	
			0						0	1	0	0	0	

3.317 row id1=(8386, 1) (Sr:5) vs row id2=377

Table 407: row id1=(8386, 1) (Sr:5) vs row id2=377

		-	NA	A	С	G	Т	AC	AG	AT	$\overline{\text{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	0	0	0	0	0	0	0	0	0	0	0
A	29	0	0	0	0	0	0	0	0	0	0	0	0
С	33	0	0	0	0	0	0	0	0	0	0	0	0
G	43	0	1	0	0	0	0	0	0	0	0	0	0
Τ	37	0	0	0	0	0	2	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.318 row id1=(8387, 1) (St-0) vs row id2=342

Table 408: row id1=(8387, 1) (St-0) vs row id2=342

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	24	0	0	0	0	0	0	0	0	0	0	0	0
A	34	0	0	0	0	0	0	0	0	0	0	0	0
С	32	0	0	0	0	0	0	0	0	0	0	0	0
G	32	0	0	0	0	2	0	0	0	0	0	0	0
${ m T}$	24	0	0	0	0	0	1	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.319 row id1=(8388, 1) (Stw-0) vs row id2=343

Table 409: row id1=(8388, 1) (Stw-0) vs row id2=343

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	31	0	0	0	0	0	0	0	0	0	0	0	0
A	30	0	0	0	0	0	0	0	0	0	0	0	0
С	21	0	0	0	0	0	0	0	0	0	0	0	0
G	33	0	1	0	0	0	0	0	0	0	0	0	0
${ m T}$	31	0	0	0	0	0	2	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.320 row id1=(8389, 1) (Ta-0) vs row id2=344

Table 410: row id1=(8389, 1) (Ta-0) vs row id2=344

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	28	0	0	0	0	0	0	0	0	0	0	0	0
A	25	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	29	0	0	0	0	0	0	0	0	0	0	0	0
G	34	0	1	0	0	0	0	0	0	0	0	0	0
${ m T}$	30	0	0	0	0	0	2	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.321 row id1=(8390, 1) (Tamm-2) vs row id2=41

Table 411: row id1=(8390, 1) (Tamm-2) vs row id2=41

		-	NA	A	С	G	T	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	2	9	6	9	6	0	0	0	0	0	0
A	0	0	2	29	0	0	0	0	0	0	0	0	0
С	0	0	0	0	21	0	0	0	0	0	0	0	0
G	0	0	0	0	0	34	0	0	0	0	0	0	0
${\rm T}$	1	0	0	0	0	0	30	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.322 row id1=(8391, 1) (Tamm-27) vs row id2=42

Table 412: row id1=(8391, 1) (Tamm-27) vs row id2=42

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	2	10	6	9	5	0	0	0	0	0	0
A	0	0	3	27	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	21	0	0	0	0	0	0	0	0
\mathbf{G}	0	0	2	0	0	32	0	0	0	0	0	0	0
\mathbf{T}	1	0	2	0	0	0	28	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.323 row id1=(8392, 1) (Ts-1) vs row id2=84

Table 413: row id1=(8392, 1) (Ts-1) vs row id2=84

		-	NA	A	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	2	10	3	12	4	0	0	0	0	0	0
A	0	0	1	26	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	4	0	19	0	0	0	0	0	0	0	0
G	0	0	2	0	0	29	0	0	0	0	0	0	0
\mathbf{T}	0	0	1	0	0	0	36	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0

CT GT	0	0	0	0	0	0	0	0	0	0	0	0	0	
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	

3.324 row id1=(8393, 1) (Ts-5) vs row id2=85

Table 414: row id1=(8393, 1) (Ts-5) vs row id2=85

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	2	12	5	9	5	0	0	0	0	0	0
A	0	0	0	29	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	2	0	22	0	0	0	0	0	0	0	0
G	0	0	0	0	0	32	0	0	0	0	0	0	0
Τ	0	0	1	0	0	0	30	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.325 row id1=(8394, 1) (Tsu-1) vs row id2=78

Table 415: row id1=(8394, 1) (Tsu-1) vs row id2=78

		-	NA	A	$^{\circ}$ C	G	T	AC	$^{\rm AG}$	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	0	11	7	8	6	0	0	0	0	0	0
A	0	0	3	24	0	0	0	0	0	0	0	0	0
С	0	0	0	0	30	0	1	0	0	0	0	0	0
G	0	0	0	0	0	33	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	1	0	25	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 416: detailed difference for row id1=(8394, 1) (Tsu-1) vs row id2=78

row id1	col id1	call1	row id2	col id2	call2
(8394, 1)/Tsu-1	AtMSQTsnp 138	Τ	78	AtMSQTsnp 138	С
(8394, 1)/Tsu-1	AtMSQTsnp 334	\mathbf{C}	78	AtMSQTsnp 334	Γ

3.326 row id1=(8395, 1) (Tu-0) vs row id2=345

Table 417: row id1=(8395, 1) (Tu-0) vs row id2=345

		-	NA	A	С	G	Τ	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	24	0	0	0	0	0	0	0	0	0	0	0	0
A	30	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	32	0	1	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	32	0	1	0	0	1	0	0	0	0	0	0	0
${ m T}$	28	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.327 row id1=(8396, 1) (Ull2-3) vs row id2=24

Table 418: row id1=(8396, 1) (Ull2-3) vs row id2=24

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	2	8	5	7	4	0	0	0	0	0	0
A	1	0	3	32	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	25	0	0	0	0	0	0	0	0
G	0	0	1	0	0	32	0	0	0	0	0	0	0
Τ	0	0	0	0	0	0	28	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.328 row id1=(8397, 1) (Ull2-5) vs row id2=23

Table 419: row id1=(8397, 1) (Ull2-5) vs row id2=23

		-	NA	A	С	G	${ m T}$	AC	\overline{AG}	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	2	8	4	7	6	0	0	0	0	0	0
A	1	0	1	30	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	21	0	0	0	0	0	0	0	0
G	0	0	3	0	0	31	0	0	0	0	0	0	0
${\rm T}$	0	0	4	0	0	0	29	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.329 row id1=(8398, 1) (Uod-1) vs row id2=49

Table 420: row id1=(8398, 1) (Uod-1) vs row id2=49

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	1	6	6	11	4	0	0	0	0	0	0
A	0	0	0	31	0	0	0	0	0	0	0	0	0
С	0	0	1	0	33	0	0	0	0	0	0	0	0
G	0	0	0	0	0	31	0	0	0	0	0	0	0
${\rm T}$	1	1	0	0	0	0	22	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.330 row id1=(8399, 1) (Uod-7) vs row id2=50

Table 421: row id1=(8399, 1) (Uod-7) vs row id2=50

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	2	5	5	11	7	0	0	0	0	0	0
A	0	0	1	31	0	0	0	0	0	0	0	0	0

\mathbf{C}	1	0	2	0	25	0	0	0	0	0	0	0	0
G	0	0	2	0	0	30	0	0	0	0	0	0	0
T	0	0	1	0	0	0	26	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.331 row id1=(8400, 1) (Van-0) vs row id2=64

Table 422: row id1=(8400, 1) (Van-0) vs row id2=64

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	2	5	5	7	4	0	1	0	1	1	0
A	0	0	2	23	0	2	0	2	6	2	0	0	0
\mathbf{C}	0	0	1	0	16	0	0	0	0	0	2	5	0
G	0	0	2	0	0	24	0	0	3	0	0	0	1
${ m T}$	0	0	2	0	1	0	23	0	0	1	0	3	2
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 423: detailed difference for row id1=(8400, 1) (Van-0) vs row id2=64

row id1	col id1	call1	row id2	col id2	call2
(8400, 1)/Van-0	AtMSQTsnp 101	A	64	AtMSQTsnp 101	AG
(8400, 1)/Van-0	AtMSQTsnp 108	G	64	AtMSQTsnp 108	AG
(8400, 1)/Van-0	AtMSQTsnp 11	T	64	AtMSQTsnp 11	CT
(8400, 1)/Van-0	AtMSQTsnp 12	A	64	AtMSQTsnp 12	G
(8400, 1)/Van-0	AtMSQTsnp 188	C	64	AtMSQTsnp 188	CT
(8400, 1)/Van-0	AtMSQTsnp 194	T	64	AtMSQTsnp 194	AT
(8400, 1)/Van-0	AtMSQTsnp 197	A	64	AtMSQTsnp 197	AG
(8400, 1)/Van-0	AtMSQTsnp 203	A	64	AtMSQTsnp 203	AT
(8400, 1)/Van-0	AtMSQTsnp 214	A	64	AtMSQTsnp 214	AG
(8400, 1)/Van-0	AtMSQTsnp 220	A	64	AtMSQTsnp 220	G
(8400, 1)/Van-0	AtMSQTsnp 242	C	64	AtMSQTsnp 242	CT
(8400, 1)/Van-0	AtMSQTsnp 260	A	64	AtMSQTsnp 260	AC
(8400, 1)/Van-0	AtMSQTsnp 266	Т	64	AtMSQTsnp 266	GT
(8400, 1)/Van-0	AtMSQTsnp 267	С	64	AtMSQTsnp 267	CT
(8400, 1)/Van-0	AtMSQTsnp 281	Т	64	AtMSQTsnp 281	C
(8400, 1)/Van-0	AtMSQTsnp 285	Т	64	AtMSQTsnp 285	CT
(8400, 1)/Van-0	AtMSQTsnp 29	A	64	AtMSQTsnp 29	AT
(8400, 1)/Van-0	AtMSQTsnp 323	A	64	AtMSQTsnp 323	AG
(8400, 1)/Van-0	AtMSQTsnp 359	G	64	AtMSQTsnp 359	GT
(8400, 1)/Van-0	AtMSQTsnp 378	C	64	AtMSQTsnp 378	$^{\rm CG}$
(8400, 1)/Van-0	AtMSQTsnp 390	Т	64	AtMSQTsnp 390	CT
(8400, 1)/Van-0	AtMSQTsnp 395	A	64	AtMSQTsnp 395	AG
(8400, 1)/Van-0	AtMSQTsnp 397	Т	64	AtMSQTsnp 397	GT
(8400, 1)/Van-0	AtMSQTsnp 410	G	64	AtMSQTsnp 410	AG
(8400, 1)/Van-0	AtMSQTsnp 63	A	64	AtMSQTsnp 63	AC
(8400, 1)/Van-0	AtMSQTsnp 65	A	64	AtMSQTsnp 65	AG
(8400, 1)/Van-0	AtMSQTsnp 8	G	64	AtMSQTsnp 8	AG
(8400, 1)/Van-0	AtMSQTsnp 87	С	64	AtMSQTsnp 87	CT
(8400, 1)/Van-0	AtMSQTsnp 90	С	64	AtMSQTsnp 90	CT
(8400, 1)/Van-0	AtMSQTsnp 97	С	64	AtMSQTsnp 97	$^{\mathrm{CG}}$

3.332 row id1=(8401, 1) (V-1) vs row id2=17

Table 424: row id1=(8401, 1) (V-1) vs row id2=17

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0

NA	1	0	4	8	10	11	4	0	0	0	0	0	0
A	0	0	2	28	0	0	0	0	0	0	0	0	0
С	0	0	0	0	27	0	0	0	0	0	0	0	0
G	0	0	0	0	0	32	0	0	0	0	0	0	0
T	0	0	0	0	0	0	22	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.333 row id1=(8402, 1) (V-6) vs row id2=18

Table 425: row id1=(8402, 1) (V-6) vs row id2=18

	1												
		-	NA	Α	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	1	6	7	12	4	0	0	0	0	0	0
A	0	0	1	28	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	2	0	26	0	0	0	0	0	0	0	0
G	0	0	1	0	0	36	0	0	0	0	0	0	0
Τ	0	0	0	0	0	0	24	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.334 row id1=(8403, 1) (Wa-1) vs row id2=81

Table 426: row id1=(8403, 1) (Wa-1) vs row id2=81

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	3	9	9	11	8	0	0	0	0	0	0
\mathbf{A}	0	0	4	19	0	0	0	0	0	0	0	0	0
\mathbf{C}	2	0	0	0	19	0	0	0	0	0	0	0	0
G	0	0	1	0	0	30	0	0	0	0	0	0	0
${f T}$	0	0	1	0	0	0	33	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.335 row id1=(8404, 1) (Wei-0) vs row id2=59

Table 427: row id1=(8404, 1) (Wei-0) vs row id2=59

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	3	13	8	9	5	0	0	0	0	0	0
A	0	0	0	26	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	2	0	26	0	0	0	0	0	0	0	0
G	0	0	2	0	0	30	0	0	0	0	0	0	0
\mathbf{T}	0	0	3	0	0	0	22	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 428: row id1=(8405, 1) (Ws-0) vs row id2=60

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	0	7	5	10	8	0	0	0	0	0	0
A	0	0	1	32	0	0	0	0	0	0	0	0	0
$^{\rm C}$	0	0	4	0	20	0	0	0	0	0	0	0	0
G	1	0	0	0	0	33	0	0	0	0	0	0	0
\mathbf{T}	0	0	1	0	0	0	26	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.337 row id1=(8406, 1) (Ws-2) vs row id2=96

Table 429: row id1=(8406, 1) (Ws-2) vs row id2=96

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	3	0	0	9	7	7	8	0	0	0	0	0	0
A	4	0	4	19	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	2	0	17	0	0	0	0	0	0	0	0
\mathbf{G}	1	0	2	0	0	34	0	0	0	0	0	0	0
${ m T}$	1	0	4	0	0	0	27	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.338 row id1=(8407, 1) (Wt-5) vs row id2=74

Table 430: row id1=(8407, 1) (Wt-5) vs row id2=74

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	4	10	9	8	2	0	0	0	0	0	0
A	1	0	2	27	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	3	0	25	0	1	0	0	0	0	0	0
G	0	0	1	0	0	28	0	0	0	0	0	0	0
${ m T}$	0	0	3	0	0	0	23	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 431: detailed difference for row id1=(8407, 1) (Wt-5) vs row id2=74

row id1	col id1	call1	row id2	col id2	call2
(8407, 1)/Wt-5	AtMSQTsnp 334	С	74	AtMSQTsnp 334	Τ

3.339 row id1=(8408, 1) (Yo-0) vs row id2=61

Table 432: row id1=(8408, 1) (Yo-0) vs row id2=61

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	0	0	2	10	6	8	5	0	0	0	0	0	0
Α	0	0	0	33	0	0	0	0	0	0	0	0	0
С	1	0	2	0	19	0	0	0	0	0	0	0	0
G	0	0	0	0	0	34	0	0	0	0	0	0	0
T	0	0	2	0	0	0	26	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	1	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 433: detailed difference for row id1=(8408, 1) (Yo-0) vs row id2=61

row id1	col id1	call1	row id2	col id2	call2
(8408, 1)/Yo-0	AtMSQTsnp 138	CT	61	AtMSQTsnp 138	С

3.340 row id1=(8409, 1) (Zdr-1) vs row id2=25

Table 434: row id1=(8409, 1) (Zdr-1) vs row id2=25

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	1	6	6	10	4	0	0	0	0	0	0
\mathbf{A}	0	0	0	28	1	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	1	0	29	0	0	0	0	0	0	0	0
\mathbf{G}	0	0	0	0	0	27	0	0	0	0	0	0	0
${ m T}$	1	0	0	0	0	0	34	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 435: detailed difference for row id1=(8409, 1) (Zdr-1) vs row id2=25

row id1	col id1	call1	row id2	col id2	call2
(8409, 1)/Zdr-1	AtMSQTsnp 260	A	25	AtMSQTsnp 260	С

3.341 row id1=(8410, 1) (Zdr-6) vs row id2=26

Table 436: row id1=(8410, 1) (Zdr-6) vs row id2=26

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	0	6	11	9	4	0	0	0	0	0	0
A	1	0	2	28	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	3	0	25	0	0	0	0	0	0	0	0
G	0	0	0	0	0	29	0	0	0	0	0	0	0
\mathbf{T}	0	0	0	0	0	0	30	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 437: row id1=(8411, 1) (Rd-0) vs row id2=312

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	27	0	0	0	0	0	0	0	0	0	0	0	0
A	32	0	0	1	0	0	0	0	0	0	0	0	0
\mathbf{C}	30	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	29	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	28	0	0	0	0	0	2	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

3.343 row id1=(8429, 1) (N13) vs row id2=58

Table 438: row id1=(8429, 1) (N13) vs row id2=58

		-	NA	Α	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	2	7	5	7	11	0	0	0	0	0	0
A	1	0	0	23	0	0	0	0	0	0	0	0	0
\mathbf{C}	2	0	1	0	22	0	0	0	0	0	0	0	0
G	0	0	1	0	0	35	0	0	0	0	0	0	0
\mathbf{T}	0	0	2	0	0	0	28	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4 Diff Matrix for each SNP

4.1 col id1=AtMSQTsnp 10 vs col id2=AtMSQTsnp 10

Table 439: col id1=AtMSQTsnp 10 vs col id2=AtMSQTsnp 10

		-	NA	A	С	G	Т	AC	\overline{AG}	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	0	0	0	4	0	0	0	0	0	0	0
A	38	0	0	73	0	0	0	0	0	0	0	0	0
С	0	0	0	0	0	0	0	0	0	0	0	0	0
G	110	0	0	0	0	116	0	0	0	0	0	0	0
Γ	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

$4.2 \quad {\rm col~id1{=}AtMSQTsnp~100~vs~col~id2{=}AtMSQTsnp~100}$

Table 440: col id1=AtMSQTsnp 100 vs col id2=AtMSQTsnp 100

		-	NA	A	С	G	Т	AC	\overline{AG}	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	3	0	0	1	0	4	0	0	0	0	0	0	0
A	44	0	2	57	0	0	0	0	0	0	0	0	0

$\mid C$	0	0	0	0	0	0	0	0	0	0	0	0	0
G	102	0	0	1	0	128	0	0	0	0	0	0	0
$\mid T \mid$	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	1	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 441: detailed difference for col $id1{=}AtMSQTsnp$ 100 vs col $id2{=}AtMSQTsnp$ 100

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 100	G	27	AtMSQTsnp 100	A

4.3 col id1=AtMSQTsnp 101 vs col id2=AtMSQTsnp 101

Table 442: col id1=AtMSQTsnp 101 vs col id2=AtMSQTsnp 101

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	0	2	0	2	0	0	0	0	0	0	0
\mathbf{A}	54	0	2	51	0	0	0	0	2	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	95	0	0	0	0	134	0	0	0	0	0	0	0
${\rm T}$	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 443: detailed difference for col $id1{=}AtMSQTsnp$ 101 vs col $id2{=}AtMSQTsnp$ 101

	row id1	col id1	call1	row id2	col id2	call2
ĺ	(6977, 1)/Van-0	AtMSQTsnp 101	A	64	AtMSQTsnp 101	AG
	(8400, 1)/Van-0	AtMSQTsnp 101	A	64	AtMSQTsnp 101	\overline{AG}

4.4 col id1=AtMSQTsnp 104 vs col id2=AtMSQTsnp 104

Table 444: col id1=AtMSQTsnp 104 vs col id2=AtMSQTsnp 104

		-	NA	Α	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	6	0	0	0	2	0	4	0	0	0	0	0	0
\mathbf{A}	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	68	0	0	0	75	0	0	0	0	0	0	0	0
\mathbf{G}	0	0	0	0	0	0	0	0	0	0	0	0	0
${f T}$	74	0	0	0	0	0	112	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	2	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.5 col id1=AtMSQTsnp 108 vs col id2=AtMSQTsnp 108

Table 445: col id1=AtMSQTsnp 108 vs col id2=AtMSQTsnp 108

		-	NA	Α	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	11	0	0	4	0	6	0	0	0	0	0	0	0
A	72	0	4	97	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	69	0	0	0	0	78	0	0	2	0	0	0	0
Τ	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 446: detailed difference for col $id1{=}AtMSQTsnp$ 108 vs col $id2{=}AtMSQTsnp$ 108

row id1	col id1	call1	row id2	col id2	call2
(6977, 1)/Van-0	AtMSQTsnp 108	G	64	AtMSQTsnp 108	AG
(8400, 1)/Van-0	AtMSQTsnp 108	G	64	AtMSQTsnp 108	AG

4.6 col id1=AtMSQTsnp 11 vs col id2=AtMSQTsnp 11

Table 447: col id1=AtMSQTsnp 11 vs col id2=AtMSQTsnp 11

		-	NA	Α	С	G	${ m T}$	AC	\overline{AG}	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	0	0	2	0	3	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
С	47	0	2	0	60	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
Γ	103	0	0	0	0	0	120	0	0	0	0	2	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 448: detailed difference for col id1=AtMSQTsnp 11 vs col id2=AtMSQTsnp 11

row id1	col id1		row id2	col id2	call2
(6977, 1)/Van-0	AtMSQTsnp 11	T	64	AtMSQTsnp 11	CT
(8400, 1)/Van-0	AtMSQTsnp 11	Γ	64	AtMSQTsnp 11	CT

4.7 col id1=AtMSQTsnp 114 vs col id2=AtMSQTsnp 114

Table 449: col id1=AtMSQTsnp 114 vs col id2=AtMSQTsnp 114

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	3	0	1	1	0	5	0	0	0	0	0	0	0
A	48	0	0	67	0	2	0	0	2	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	99	0	0	2	0	113	0	0	0	0	0	0	0
\mathbf{T}	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 450: detailed difference for col $id1{=}AtMSQTsnp$ 114 vs col $id2{=}AtMSQTsnp$ 114

row id1	col id1	call1	row id2	col id2	call2
(6907, 1)/CIBC-17	AtMSQTsnp 114	A	40	AtMSQTsnp 114	G
(6924, 1)/HR-5	AtMSQTsnp 114	A	33	AtMSQTsnp 114	AG
(6929, 1)/Kondara	AtMSQTsnp 114	G	88	AtMSQTsnp 114	A
(8276, 1)/CIBC-17	AtMSQTsnp 114	A	40	AtMSQTsnp 114	G
(8309, 1)/HR-5	AtMSQTsnp 114	A	33	AtMSQTsnp 114	AG
(8319, 1)/Kondara	AtMSQTsnp 114	G	88	AtMSQTsnp 114	A

4.8 col id1=AtMSQTsnp 118 vs col id2=AtMSQTsnp 118

Table 451: col id1=AtMSQTsnp 118 vs col id2=AtMSQTsnp 118

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	3	1	0	0	0	0	0	0	0	0	0
A	66	0	9	89	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	81	0	16	0	0	75	0	0	0	0	0	0	0
\mathbf{T}	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	1	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.9 col id1=AtMSQTsnp 12 vs col id2=AtMSQTsnp 12

Table 452: col id1=AtMSQTsnp 12 vs col id2=AtMSQTsnp 12

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	8	0	0	5	0	2	0	0	0	0	0	0	0
A	76	0	0	106	0	2	0	0	0	0	0	0	0
С	0	0	0	0	0	0	0	0	0	0	0	0	0
G	66	0	0	1	0	77	0	0	0	0	0	0	0
${f T}$	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 453: detailed difference for col id1=AtMSQTsnp 12 vs col id2=AtMSQTsnp 12

ſ	row id1	col id1	call1	row id2	col id2	call2
Ì	(5837, 1)/Bor-1	AtMSQTsnp 12	G	27	AtMSQTsnp 12	A
	' '/'		I .		AtMSQTsnp 12	
	' '/'	AtMSQTsnp 12	l .	64	AtMSQTsnp 12	

$4.10 \quad {\rm col~id1{=}AtMSQTsnp~123~vs~col~id2{=}AtMSQTsnp~123}$

Table 454: col id1=AtMSQTsnp 123 vs col id2=AtMSQTsnp 123

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	0	4	0	2	0	0	0	0	0	0	0

l A	81	0	0	106	0	1	0	0	0	0	0	0	0
C	0	0	0	0	$\begin{bmatrix} 0 \end{bmatrix}$	0	0	0	0	0	0	0	
G	65	0	6	0	0	74	0	0	0	0	0	0	0
T	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	2	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 455: detailed difference for col $id1{=}AtMSQTsnp$ 123 vs col $id2{=}AtMSQTsnp$ 123

r	row id1	col id1	call1	row id2	col id2	call2
((5837, 1)/Bor-1	AtMSQTsnp 123	A	27	AtMSQTsnp 123	G

4.11 col id1=AtMSQTsnp 126 vs col id2=AtMSQTsnp 126

Table 456: col $\mathrm{id}1\mathrm{=}\mathrm{AtMSQTsnp}$ 126 vs col $\mathrm{id}2\mathrm{=}\mathrm{AtMSQTsnp}$ 126

		-	NA	Α	С	G	Т	AC	\overline{AG}	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	3	0	0	3	0	0	0	0	0	0	0
A	31	0	6	54	0	0	0	0	0	0	0	0	0
С	0	0	0	0	0	0	0	0	0	0	0	0	0
G	117	0	19	0	0	107	0	0	0	0	0	0	0
T	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	1	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.12 col id1=AtMSQTsnp 128 vs col id2=AtMSQTsnp 128

Table 457: col id1=AtMSQTsnp 128 vs col id2=AtMSQTsnp 128

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	1	0	0	2	1	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\rm C}$	0	0	0	0	0	0	0	0	0	0	0	0	0
G	108	0	3	0	0	130	0	0	0	0	0	0	0
\mathbf{T}	37	0	0	0	0	0	56	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	1	0	0	0	0	0	0	0	0	0	0	0	0

4.13 col id1=AtMSQTsnp 129 vs col id2=AtMSQTsnp 129

Table 458: col id1=AtMSQTsnp 129 vs col id2=AtMSQTsnp 129

		-	NA	A	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	89	0	6	27	0	56	0	0	2	0	0	0	0
Α	29	0	7	28	0	1	0	0	0	0	0	0	0
С	0	0	0	0	0	0	0	0	0	0	0	0	0
G	42	0	1	0	0	55	0	0	0	0	0	0	0
Τ	0	0	0	0	0	0	0	0	0	0	0	0	0

AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 459: detailed difference for col $id1{=}AtMSQTsnp$ 129 vs col $id2{=}AtMSQTsnp$ 129

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 129	A	27	AtMSQTsnp 129	G

4.14 col id1=AtMSQTsnp 130 vs col id2=AtMSQTsnp 130

Table 460: col id1=AtMSQTsnp 130 vs col id2=AtMSQTsnp 130

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	3	0	0	0	0	0	6	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
C	37	0	12	0	47	0	1	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
T	110	0	27	0	0	0	100	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 461: detailed difference for col $\mathrm{id}1{=}\mathrm{AtMSQTsnp}$ 130 vs col $\mathrm{id}2{=}\mathrm{AtMSQTsnp}$ 130

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 130	С	27	AtMSQTsnp 130	Т

4.15 col id1=AtMSQTsnp 132 vs col id2=AtMSQTsnp 132

Table 462: col id1=AtMSQTsnp 132 vs col id2=AtMSQTsnp 132

		-	NA	Α	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	3	0	0	0	3	0	4	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
C	76	0	0	0	92	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{T}	68	0	2	0	0	0	92	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	3	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.16 col id1=AtMSQTsnp 138 vs col id2=AtMSQTsnp 138

Table 463: col $\mathrm{id}1\mathrm{=}\mathrm{AtMSQTsnp}$ 138 vs col $\mathrm{id}2\mathrm{=}\mathrm{AtMSQTsnp}$ 138

		-	NA	A	С	G	T	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
 - NA	19	0	1	0	20	0	3	0	0	0	0	0	0

A	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	30	0	2	0	52	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	90	0	0	0	3	0	103	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	11	0	0	0	9	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 464: detailed difference for col $id1{=}AtMSQTsnp$ 138 vs col $id2{=}AtMSQTsnp$ 138

row id1	col id1	call1	row id2	col id2	call2
(6915, 1)/Ei-2	AtMSQTsnp 138	Т	53	AtMSQTsnp 138	С
(6917, 1)/F2	AtMSQTsnp 138	CT	13	AtMSQTsnp 138	C
(6923, 1)/HR-10	AtMSQTsnp 138	CT	34	AtMSQTsnp 138	C
(6937, 1)/Mrk-0	AtMSQTsnp 138	CT	72	AtMSQTsnp 138	C
(6942, 1)/Nd-1	AtMSQTsnp 138	${ m T}$	56	AtMSQTsnp 138	C
(7516, 1)/V-1	AtMSQTsnp 138	CT	17	AtMSQTsnp 138	C
(8273, 1)/C24	AtMSQTsnp 138	CT	57	AtMSQTsnp 138	C
(8277, 1)/CIBC-5	AtMSQTsnp 138	CT	39	AtMSQTsnp 138	C
(8316, 1)/Kin-0	AtMSQTsnp 138	CT	91	AtMSQTsnp 138	C
(8341, 1)/Mt-0	AtMSQTsnp 138	CT	79	AtMSQTsnp 138	C
(8394, 1)/Tsu-1	AtMSQTsnp 138	Т	78	AtMSQTsnp 138	\mathbf{C}
(8408, 1)/Yo-0	AtMSQTsnp 138	CT	61	AtMSQTsnp 138	C

4.17 col id1=AtMSQTsnp 14 vs col id2=AtMSQTsnp 14

Table 465: col id1=AtMSQTsnp 14 vs col id2=AtMSQTsnp 14

		-	NA	Α	С	G	T	AC	\overline{AG}	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	0	1	0	0	5	0	0	0	0	0	0
A	44	0	2	60	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{T}	104	0	0	0	0	0	125	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.18 col id1=AtMSQTsnp 140 vs col id2=AtMSQTsnp 140

Table 466: col id1=AtMSQTsnp 140 vs col id2=AtMSQTsnp 140

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	3	0	0	1	3	0	0	0	0	0	0	0	0
A	106	2	6	112	1	0	0	0	0	0	0	0	0
C	43	0	4	0	62	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
T	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 467: detailed difference for col $\mathrm{id}1\mathrm{=}\mathrm{AtMSQTsnp}$ 140 vs col $\mathrm{id}2\mathrm{=}\mathrm{AtMSQTsnp}$ 140

row id1	col id1	call1	row id2	col id2	call2
(8372, 1)/RRS-10	AtMSQTsnp 140	A	2	AtMSQTsnp 140	С

4.19 col id1=AtMSQTsnp 142 vs col id2=AtMSQTsnp 142

Table 468: col id1=AtMSQTsnp 142 vs col id2=AtMSQTsnp 142

		-	NA	A	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	1	0	1	0	1	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	100	0	26	0	80	0	0	0	0	0	0	0	0
\mathbf{G}	0	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	47	0	19	0	0	0	65	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	2	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.20 col id1=AtMSQTsnp 143 vs col id2=AtMSQTsnp 143

Table 469: col id1=AtMSQTsnp 143 vs col id2=AtMSQTsnp 143

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	6	0	0	4	2	0	0	0	0	0	0	0	0
A	84	0	8	107	0	0	0	0	0	0	0	0	0
C	59	0	0	0	72	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{T}	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	1	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.21 col id1=AtMSQTsnp 145 vs col id2=AtMSQTsnp 145

Table 470: col id1=AtMSQTsnp 145 vs col id2=AtMSQTsnp 145

		-	NA	Α	С	G	Τ	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	6	0	1	0	4	0	2	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
C	81	0	16	0	74	0	1	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
T	63	0	7	0	0	0	88	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 471: detailed difference for col $\mathrm{id}1{=}\mathrm{AtMSQTsnp}$ 145 vs col $\mathrm{id}2{=}\mathrm{AtMSQTsnp}$ 145

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 145	$^{\mathrm{C}}$	27	AtMSQTsnp 145	Т

4.22 col id1=AtMSQTsnp 146 vs col id2=AtMSQTsnp 146

Table 472: col id1=AtMSQTsnp 146 vs col id2=AtMSQTsnp 146

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	67	0	3	55	17	19	0	0	0	0	0	0	0
A	56	0	1	64	0	0	0	0	0	0	0	0	0
$^{\rm C}$	0	0	0	0	0	0	0	0	0	0	0	0	0
G	29	0	2	0	0	30	0	0	0	0	0	0	0
T	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.23 col id1=AtMSQTsnp 15 vs col id2=AtMSQTsnp 15

Table 473: col id1=AtMSQTsnp 15 vs col id2=AtMSQTsnp 15

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	3	0	0	0	4	0	3	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	78	0	0	0	126	0	2	0	0	0	0	0	0
\mathbf{G}	0	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	71	0	0	0	0	0	55	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 474: detailed difference for col id1=AtMSQTsnp 15 vs col id2=AtMSQTsnp 15

row id1	col id1	call1	row id2	col id2	call2
(6930, 1)/KZ-1	AtMSQTsnp 15	С	43	AtMSQTsnp 15	Т
(8320, 1)/Kz-1	AtMSQTsnp 15	C	43	AtMSQTsnp 15	Γ

4.24 col id1=AtMSQTsnp 155 vs col id2=AtMSQTsnp 155

Table 475: col id1=AtMSQTsnp 155 vs col id2=AtMSQTsnp 155

		-	NA	A	С	G	Т	AC	AG	AT	$^{\rm CG}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	86	0	2	45	0	47	0	0	0	0	0	0	0
A	27	0	4	44	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
G	41	0	0	0	0	47	0	0	0	0	0	0	0
\mathbf{T}	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 476: col $\mathrm{id}1\mathrm{=}\mathrm{AtMSQTsnp}$ 156 vs col $\mathrm{id}2\mathrm{=}\mathrm{AtMSQTsnp}$ 156

		-	NA	Α	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	84	1	6	0	36	0	54	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
C	26	0	7	0	39	0	1	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
$\mid T \mid$	40	1	1	0	0	0	47	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 477: detailed difference for col $id1{=}AtMSQTsnp$ 156 vs col $id2{=}AtMSQTsnp$ 156

	row id1	col id1	call1	row id2	col id2	call2
Ì	(6910, 1)/Ct-1	AtMSQTsnp 156	С	76	AtMSQTsnp 156	Т

4.26 col id1=AtMSQTsnp 159 vs col id2=AtMSQTsnp 159

Table 478: col id1=AtMSQTsnp 159 vs col id2=AtMSQTsnp 159

		-	NA	Α	С	G	Т	AC	\overline{AG}	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	1	0	2	0	4	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
C	65	0	2	0	87	0	6	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
T	83	0	0	0	4	0	87	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 479: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 159 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 159

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 159	С	27	AtMSQTsnp 159	T
(6907, 1)/CIBC-17	AtMSQTsnp 159	${ m T}$	40	AtMSQTsnp 159	C
(6932, 1)/Ler-1	AtMSQTsnp 159	\mathbf{C}	55	AtMSQTsnp 159	Γ
(6932, 2)/Ler-1	AtMSQTsnp 159	C	55	AtMSQTsnp 159	Γ
(6936, 1)/Lz-0	AtMSQTsnp 159	\mathbf{C}	52	AtMSQTsnp 159	Γ
(6943, 1)/NFA-10	AtMSQTsnp 159	${ m T}$	36	AtMSQTsnp 159	C
(8276, 1)/CIBC-17	AtMSQTsnp 159	${ m T}$	40	AtMSQTsnp 159	C
(8324, 1)/Ler-1	AtMSQTsnp 159	C	55	AtMSQTsnp 159	Γ
(8336, 1)/Lz-0	AtMSQTsnp 159	\mathbf{C}	52	AtMSQTsnp 159	Γ
(8345, 1)/NFA-10	AtMSQTsnp 159	Т	36	AtMSQTsnp 159	С

4.27 col id1=AtMSQTsnp 164 vs col id2=AtMSQTsnp 164

Table 480: col $\mathrm{id}1\mathrm{=}\mathrm{AtMSQTsnp}$ 164 vs col $\mathrm{id}2\mathrm{=}\mathrm{AtMSQTsnp}$ 164

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
 - NA	80	0	9	27	60	0	0	0	0	0	0	0	0

A	25	0	2	28	3	0	0	0	0	0	0	0	0
\mathbf{C}	45	0	7	0	57	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
T	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 481: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 164 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 164

	row id1	col id1	call1	row id2	col id2	call2
ĺ	(6916, 1)/Est-1	AtMSQTsnp 164	A	66	AtMSQTsnp 164	С
	(6958, 1)/Ra-0	AtMSQTsnp 164	A	69	AtMSQTsnp 164	С
	(8214, 1)/Gy-0	AtMSQTsnp 164	A	68	AtMSQTsnp 164	С

4.28 col id1=AtMSQTsnp 169 vs col id2=AtMSQTsnp 169

Table 482: col id1=AtMSQTsnp 169 vs col id2=AtMSQTsnp 169

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	0	0	0	4	1	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\rm C}$	0	0	0	0	0	0	0	0	0	0	0	0	0
G	116	0	0	0	0	122	0	0	0	0	0	0	0
\mathbf{T}	32	0	0	0	0	0	65	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	1	0	0	0	0	0	0	0

Table 483: detailed difference for col $\mathrm{id}1{=}\mathrm{AtMSQTsnp}$ 169 vs col $\mathrm{id}2{=}\mathrm{AtMSQTsnp}$ 169

row id1	col id1	call1	row id2	col id2	call2
(7438, 1)/N13	AtMSQTsnp 169	GT	58	AtMSQTsnp 169	G

4.29 col id1=AtMSQTsnp 170 vs col id2=AtMSQTsnp 170

Table 484: col id1=AtMSQTsnp 170 vs col id2=AtMSQTsnp 170

		-	NA	A	С	G	Τ	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	94	0	3	44	45	0	0	0	0	0	0	0	0
A	37	0	2	42	0	0	0	0	0	0	0	0	0
\mathbf{C}	29	0	1	0	46	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.30 col id1=AtMSQTsnp 173 vs col id2=AtMSQTsnp 173

Table 485: col id1=AtMSQTsnp 173 vs col id2=AtMSQTsnp 173

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	10	0	0	2	0	8	0	0	0	0	0	0	0
A	80	0	0	88	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
G	60	0	3	2	0	90	0	0	0	0	0	0	0
T	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 486: detailed difference for col $\mathrm{id}1{=}\mathrm{AtMSQTsnp}$ 173 vs col $\mathrm{id}2{=}\mathrm{AtMSQTsnp}$ 173

row id1	col id1	call1	row id2	col id2	call2
(6938, 1)/Ms-0	AtMSQTsnp 173	G	92	AtMSQTsnp 173	A
(8340, 1)/Ms-0	AtMSQTsnp 173	G	92	AtMSQTsnp 173	A

4.31 col id1=AtMSQTsnp 174 vs col id2=AtMSQTsnp 174

Table 487: col id1=AtMSQTsnp 174 vs col id2=AtMSQTsnp 174

		-	NA	Α	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	3	0	3	0	0	2	0	0	0	0	0	0	0
A	68	0	17	62	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	79	0	21	0	0	88	0	0	0	0	0	0	0
\mathbf{T}	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.32 col id1=AtMSQTsnp 177 vs col id2=AtMSQTsnp 177

Table 488: col id1=AtMSQTsnp 177 vs col id2=AtMSQTsnp 177

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	0	0	0	2	0	0	0	0	0	0	0
A	38	0	0	53	0	0	0	0	2	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	110	0	2	1	0	133	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 489: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 177 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 177

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 177	G	27	AtMSQTsnp 177	A
(6938, 1)/Ms-0	AtMSQTsnp 177	A	92	AtMSQTsnp 177	AG

4.33 col id1=AtMSQTsnp 18 vs col id2=AtMSQTsnp 18

Table 490: col id1=AtMSQTsnp 18 vs col id2=AtMSQTsnp 18

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	5	0	1	0	15	2	0	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	108	0	9	0	110	0	0	0	0	0	0	0	0
G	37	0	2	0	0	54	0	0	0	0	0	0	0
\mathbf{T}	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.34 col id1=AtMSQTsnp 184 vs col id2=AtMSQTsnp 184

Table 491: col $\mathrm{id}1{=}\mathrm{AtMSQTsnp}$ 184 vs col $\mathrm{id}2{=}\mathrm{AtMSQTsnp}$ 184

		-	NA	A	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	78	0	16	21	0	0	57	0	0	0	0	0	0
A	30	0	4	22	0	0	1	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	0	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	44	0	19	0	0	0	51	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 492: detailed difference for col $id1{=}AtMSQTsnp$ 184 vs col $id2{=}AtMSQTsnp$ 184

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 184	A	27	AtMSQTsnp 184	T

4.35 col id1=AtMSQTsnp 186 vs col id2=AtMSQTsnp 186

Table 493: col $\mathrm{id}1{=}\mathrm{AtMSQTsnp}$ 186 vs col $\mathrm{id}2{=}\mathrm{AtMSQTsnp}$ 186

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	84	0	0	37	0	0	58	0	0	0	0	0	0
A	22	0	0	42	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	43	0	0	0	0	0	56	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	1	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.36 col id1=AtMSQTsnp 187 vs col id2=AtMSQTsnp 187

Table 494: col id1=AtMSQTsnp 187 vs col id2=AtMSQTsnp 187

		-	NA	A	С	G	Τ	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	0	1	0	0	2	0	0	0	0	0	0
A	101	0	8	119	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
Τ	51	0	0	1	0	0	57	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	1	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 495: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 187 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 187

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 187	Т	27	AtMSQTsnp 187	A

4.37 col id1=AtMSQTsnp 188 vs col id2=AtMSQTsnp 188

Table 496: col $\mathrm{id}1\mathrm{=}\mathrm{AtMSQTsnp}$ 188 vs col $\mathrm{id}2\mathrm{=}\mathrm{AtMSQTsnp}$ 188

		-	NA	Α	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	5	0	0	0	2	0	6	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
C	112	0	0	0	124	0	1	0	0	0	0	2	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
Γ	31	0	0	0	0	0	58	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	2	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 497: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 188 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 188

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 188	С	27	AtMSQTsnp 188	Т
(6977, 1)/Van-0	AtMSQTsnp 188	C	64	AtMSQTsnp 188	CT
(8400, 1)/Van-0	AtMSQTsnp 188	\mathbf{C}	64	AtMSQTsnp 188	CT

4.38 col id1=AtMSQTsnp 189 vs col id2=AtMSQTsnp 189

Table 498: col $\mathrm{id}1{=}\mathrm{AtMSQTsnp}$ 189 vs col $\mathrm{id}2{=}\mathrm{AtMSQTsnp}$ 189

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	52	0	1	43	0	49	0	0	0	0	0	0	0
A	39	0	1	46	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	59	0	0	0	0	53	0	0	0	0	0	0	0
Τ	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0

CG	0	0	0	0	0	0	0	0	0	0	0	0	0	
CG CT	0	0	0	0	0	0	0	0	0	0	0	0	0	l
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	l

$4.39 \quad {\rm col~id1{=}AtMSQTsnp~191~vs~col~id2{=}AtMSQTsnp~191}$

Table 499: col $\mathrm{id}1\mathrm{=}\mathrm{AtMSQTsnp}$ 191 vs col $\mathrm{id}2\mathrm{=}\mathrm{AtMSQTsnp}$ 191

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	3	0	0	2	1	0	0	0	0	0	0	0	0
A	85	0	2	115	1	0	0	0	0	0	0	0	0
C	59	0	0	0	72	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
Γ	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	3	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{AG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 500: detailed difference for col $\mathrm{id}1{=}\mathrm{AtMSQTsnp}$ 191 vs col $\mathrm{id}2{=}\mathrm{AtMSQTsnp}$ 191

1	row id1	col id1	call1	row id2	col id2	call2
Ì	(5837, 1)/Bor-1	AtMSQTsnp 191	A	27	AtMSQTsnp 191	С

4.40 col id1=AtMSQTsnp 194 vs col id2=AtMSQTsnp 194

Table 501: col $\mathrm{id}1{=}\mathrm{AtMSQTsnp}$ 194 vs col $\mathrm{id}2{=}\mathrm{AtMSQTsnp}$ 194

		-	NA	Α	С	G	Τ	AC	\overline{AG}	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	5	0	0	3	0	0	2	0	0	0	0	0	0
A	49	0	0	84	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
Γ	95	0	0	1	0	0	101	0	0	2	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	1	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 502: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 194 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 194

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 194	Т	27	AtMSQTsnp 194	A
(6977, 1)/Van-0	AtMSQTsnp 194	Γ	64	AtMSQTsnp 194	AT
(8400, 1)/Van-0	AtMSQTsnp 194	Γ	64	AtMSQTsnp 194	AT

4.41 col id1=AtMSQTsnp 197 vs col id2=AtMSQTsnp 197

Table 503: col id1=AtMSQTsnp 197 vs col id2=AtMSQTsnp 197

		-	NA	A	С	G	Т	AC	\overline{AG}	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	0	3	0	0	0	0	0	0	0	0	0
A	142	0	8	120	0	0	0	0	2	0	0	0	0

C	0	0	0	0	0	0	0	0	0	0	0	0	0	
G	16	0	0	0	0	50	0	0	0	0	0	0	0	
Γ	0	0	0	0	0	0	0	0	0	0	0	0	0	
AC	0	0	0	0	0	0	0	0	0	0	0	0	0	
AG	0	0	0	0	0	0	0	0	0	0	0	0	0	
AT	0	0	0	0	0	0	0	0	0	0	0	0	0	
CG	0	0	0	0	0	0	0	0	0	0	0	0	0	
CT	0	0	0	0	0	0	0	0	0	0	0	0	0	
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 504: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 197 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 197

row id1	col id1	call1	row id2	col id2	call2
(6977, 1)/Van-0	AtMSQTsnp 197	A	64	AtMSQTsnp 197	AG
(8400, 1)/Van-0	AtMSQTsnp 197	A	64	AtMSQTsnp 197	AG

4.42 col id1=AtMSQTsnp 198 vs col id2=AtMSQTsnp 198

Table 505: col $\mathrm{id}1\mathrm{=}\mathrm{AtMSQTsnp}$ 198 vs col $\mathrm{id}2\mathrm{=}\mathrm{AtMSQTsnp}$ 198

		-	NA	Α	С	G	${ m T}$	AC	\overline{AG}	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	0	0	1	0	1	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	33	0	0	0	47	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
Τ	115	0	0	0	0	0	144	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.43 col id1=AtMSQTsnp 2 vs col id2=AtMSQTsnp 2

Table 506: col id1=AtMSQTsnp 2 vs col id2=AtMSQTsnp 2

		-	NA	Α	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	7	0	0	4	0	10	0	0	0	0	0	0	0
A	59	0	0	95	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	84	0	0	1	0	83	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 507: detailed difference for col id1=AtMSQTsnp 2 vs col id2=AtMSQTsnp 2

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSOTsnp 2	G	27	AtMSQTsnp 2	Α

4.44 col id1=AtMSQTsnp 203 vs col id2=AtMSQTsnp 203

Table 508: col id1=AtMSQTsnp 203 vs col id2=AtMSQTsnp 203

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	0	4	0	0	0	0	0	0	0	0	0
A	83	0	8	93	0	0	0	0	0	2	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
Τ	64	0	4	0	0	0	80	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	1	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 509: detailed difference for col $id1{=}AtMSQTsnp$ 203 vs col $id2{=}AtMSQTsnp$ 203

row id1	col id1	call1	row id2	col id2	call2
(6977, 1)/Van-0	AtMSQTsnp 203	A	64	AtMSQTsnp 203	AT
(8400, 1)/Van-0	AtMSQTsnp 203	A	64	AtMSQTsnp 203	AT

4.45 col id1=AtMSQTsnp 205 vs col id2=AtMSQTsnp 205

Table 510: col id1=AtMSQTsnp 205 vs col id2=AtMSQTsnp 205

		-	NA	Α	С	G	Т	AC	AG	AT	$\overline{\text{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	85	0	3	0	67	0	25	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	49	0	1	0	69	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	16	0	2	0	0	0	26	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.46 col id1=AtMSQTsnp 21 vs col id2=AtMSQTsnp 21

Table 511: col id1=AtMSQTsnp 21 vs col id2=AtMSQTsnp 21

		-	NA	Α	С	G	Τ	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	9	0	6	0	11	0	9	0	0	0	0	0	0
\mathbf{A}	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	80	0	2	0	98	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	59	0	3	0	1	0	63	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	2	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 512: detailed difference for col $\mathrm{id}1{=}\mathrm{AtMSQTsnp}$ 21 vs col $\mathrm{id}2{=}\mathrm{AtMSQTsnp}$ 21

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 21	T	27	AtMSQTsnp 21	С

4.47 col id1=AtMSQTsnp 214 vs col id2=AtMSQTsnp 214

Table 513: col id1=AtMSQTsnp 214 vs col id2=AtMSQTsnp 214

		-	NA	A	С	G	Т	AC	AG	AT	$^{\rm CG}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	21	0	0	17	0	34	0	0	0	0	0	0	0
A	63	0	0	63	0	0	0	0	2	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
G	65	0	0	0	0	77	0	0	0	0	0	0	0
\mathbf{T}	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	1	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 514: detailed difference for col $id1{=}AtMSQTsnp$ 214 vs col $id2{=}AtMSQTsnp$ 214

row id1	col id1	call1	row id2	col id2	call2
(6977, 1)/Van-0	AtMSQTsnp 214	A	64	AtMSQTsnp 214	AG
(8400, 1)/Van-0	AtMSQTsnp 214	A	64	AtMSQTsnp 214	AG

4.48 col id1=AtMSQTsnp 22 vs col id2=AtMSQTsnp 22

Table 515: col id1=AtMSQTsnp 22 vs col id2=AtMSQTsnp 22

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	5	0	0	2	0	5	0	0	0	0	0	0	0
A	65	0	0	65	0	1	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	81	0	0	0	0	118	0	0	0	0	0	0	0
\mathbf{T}	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	1	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 516: detailed difference for col id1=AtMSQTsnp 22 vs col id2=AtMSQTsnp 22

row id1	col id1		row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 22	A	27	AtMSQTsnp 22	G

4.49 col id1=AtMSQTsnp 220 vs col id2=AtMSQTsnp 220

Table 517: col id1=AtMSQTsnp 220 vs col id2=AtMSQTsnp 220

		-	NA	A	С	G	Т	AC	\overline{AG}	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	2	1	0	4	0	0	0	0	0	0	0
A	35	0	3	66	0	3	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	117	0	3	1	0	105	0	0	0	0	0	0	0
T	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	1	0	0	0	0	0	0	0	0	0	0

AT	0	0	0	0	0	0	0	0	0	0	0	0	0	
$^{\rm CG}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
CT	0	0	0	0	0	0	0	0	0	0	0	0	0	
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 518: detailed difference for col $id1{=}AtMSQTsnp$ 220 vs col $id2{=}AtMSQTsnp$ 220

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 220	A	27	AtMSQTsnp 220	G
(6938, 1)/Ms-0	AtMSQTsnp 220	G	92	AtMSQTsnp 220	A
(6977, 1)/Van-0	AtMSQTsnp 220	A	64	AtMSQTsnp 220	G
(8400, 1)/Van-0	AtMSQTsnp 220	A	64	AtMSQTsnp 220	G

4.50 col id1=AtMSQTsnp 222 vs col id2=AtMSQTsnp 222

Table 519: col $\mathrm{id}1{=}\mathrm{AtMSQTsnp}$ 222 vs col $\mathrm{id}2{=}\mathrm{AtMSQTsnp}$ 222

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	6	0	0	0	0	5	5	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
С	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	64	0	0	0	0	82	0	0	0	0	0	0	0
T	80	0	0	0	0	1	100	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 520: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 222 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 222

row id1	col id1	call1	row id2	col id2	call2
(6938, 1)/Ms-0	AtMSQTsnp 222	Т	92	AtMSQTsnp 222	G

$4.51 \quad {\rm col~id1}{=}AtMSQTsnp~223~vs~col~id2{=}AtMSQTsnp~223$

Table 521: col $\mathrm{id}1{=}\mathrm{AtMSQTsnp}$ 223 vs col $\mathrm{id}2{=}\mathrm{AtMSQTsnp}$ 223

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	6	0	0	5	0	2	0	0	0	0	0	0	0
A	61	0	0	81	0	4	0	0	0	0	0	0	0
$^{\rm C}$	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	83	0	0	2	0	97	0	0	2	0	0	0	0
${ m T}$	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 522: detailed difference for col $id1{=}AtMSQTsnp$ 223 vs col $id2{=}AtMSQTsnp$ 223

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 223	A	27	AtMSQTsnp 223	G
(6907, 1)/CIBC-17	AtMSQTsnp 223	A	40	AtMSQTsnp 223	G
(6908, 1)/CIBC-5	AtMSQTsnp 223	G	39	AtMSQTsnp 223	A
(8215, 1)/Fei-0	AtMSQTsnp 223	G	82	AtMSQTsnp 223	\overline{AG}

(8276, 1)/CIBC-17	AtMSQTsnp 223	A	40	AtMSQTsnp 223	G
(8277, 1)/CIBC-5	AtMSQTsnp 223	G	39	AtMSQTsnp 223	A
(8294, 1)/Fei-0	AtMSQTsnp 223	G	82	AtMSQTsnp 223	\overline{AG}
(8364, 1)/Ra-0	AtMSQTsnp 223	A	69	AtMSQTsnp 223	G

4.52 col id1=AtMSQTsnp 231 vs col id2=AtMSQTsnp 231

Table 523: col $\mathrm{id}1\mathrm{=}\mathrm{AtMSQTsnp}$ 231 vs col $\mathrm{id}2\mathrm{=}\mathrm{AtMSQTsnp}$ 231

		-	NA	Α	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	22	0	0	28	0	6	0	0	0	0	0	0	0
A	33	0	0	44	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	95	0	6	0	0	109	0	0	0	0	0	0	0
T	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.53 col id1=AtMSQTsnp 232 vs col id2=AtMSQTsnp 232

Table 524: col id1=AtMSQTsnp 232 vs col id2=AtMSQTsnp 232

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	11	0	0	40	3	0	0	0	0	0	0	0	0
A	70	0	0	66	0	0	0	0	0	0	0	0	0
С	52	0	0	0	72	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
Τ	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	17	0	0	12	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 525: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 232 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 232

row id1	col id1	call1	row id2	col id2	call2
(6915, 1)/Ei-2	AtMSQTsnp 232	AC	53	AtMSQTsnp 232	A
(6916, 1)/Est-1	AtMSQTsnp 232	AC	66	AtMSQTsnp 232	A
(6942, 1)/Nd-1	AtMSQTsnp 232	AC	56	AtMSQTsnp 232	A
(6943, 1)/NFA-10	AtMSQTsnp 232	AC	36	AtMSQTsnp 232	\mathbf{A}
(6946, 1)/Oy-0	AtMSQTsnp 232	AC	95	AtMSQTsnp 232	\mathbf{A}
(6970, 1)/Ts-1	AtMSQTsnp 232	AC	84	AtMSQTsnp 232	\mathbf{A}
(6972, 1)/Tsu-1	AtMSQTsnp 232	AC	78	AtMSQTsnp 232	\mathbf{A}
(6979, 1)/Wei-0	AtMSQTsnp 232	AC	59	AtMSQTsnp 232	\mathbf{A}
(6984, 1)/Zdr-1	AtMSQTsnp 232	AC	25	AtMSQTsnp 232	\mathbf{A}
(7524, 1)/Rmx-A02	AtMSQTsnp 232	AC	5	AtMSQTsnp 232	\mathbf{A}
(7526, 1)/Pna-10	AtMSQTsnp 232	AC	8	AtMSQTsnp 232	A
(8215, 1)/Fei-0	AtMSQTsnp 232	AC	82	AtMSQTsnp 232	A

$4.54 \quad {\rm col~id1{=}AtMSQTsnp~235~vs~col~id2{=}AtMSQTsnp~235}$

Table 526: col id1=AtMSQTsnp 235 vs col id2=AtMSQTsnp 235

									AG				
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0

NA	82	0	0	58	0	37	0	0	0	0	0	0	0	
A	41	0	0	66	0	0	0	0	0	0	0	0	0	l
С	0	0	0	0	0	0	0	0	0	0	0	0	0	
G	27	0	0	0	0	32	0	0	0	0	0	0	0	
Т	0	0	0	0	0	0	0	0	0	0	0	0	0	
AC	0	0	0	0	0	0	0	0	0	0	0	0	0	
AG	0	0	0	0	0	0	0	0	0	0	0	0	0	
AT	0	0	0	0	0	0	0	0	0	0	0	0	0	
CG	0	0	0	0	0	0	0	0	0	0	0	0	0	
CT	0	0	0	0	0	0	0	0	0	0	0	0	0	
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	

4.55 col id1=AtMSQTsnp 237 vs col id2=AtMSQTsnp 237

Table 527: col id1=AtMSQTsnp 237 vs col id2=AtMSQTsnp 237

		-	NA	Α	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	28	0	1	0	23	0	28	0	0	0	0	2	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\rm C}$	101	0	4	0	110	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
Γ	20	0	0	0	0	0	25	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.56 col id1=AtMSQTsnp 242 vs col id2=AtMSQTsnp 242

Table 528: col $\mathrm{id}1\mathrm{=}\mathrm{AtMSQTsnp}$ 242 vs col $\mathrm{id}2\mathrm{=}\mathrm{AtMSQTsnp}$ 242

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	3	0	1	0	2	0	1	0	0	0	0	0	0
\mathbf{A}	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	87	0	5	0	123	0	0	0	0	0	0	2	0
\mathbf{G}	0	0	0	0	0	0	0	0	0	0	0	0	0
${f T}$	60	0	0	0	0	0	59	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 529: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 242 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 242

row id1	col id1	call1	row id2	col id2	call2
(6977, 1)/Van-0	AtMSQTsnp 242	С	64	AtMSQTsnp 242	CT
(8400, 1)/Van-0	AtMSQTsnp 242	C	64	AtMSQTsnp 242	CT

$4.57 \quad {\rm col~id1}{=}AtMSQTsnp~244~vs~col~id2{=}AtMSQTsnp~244$

Table 530: col id1=AtMSQTsnp 244 vs col id2=AtMSQTsnp 244

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	0	7	0	2	0	0	0	0	0	0	0
A	92	0	4	111	0	2	0	0	0	0	0	0	0
С	0	0	0	0	0	0	0	0	0	0	0	0	0

G	58	0	6	2	0	55	0	0	0	0	0	0	0	
Γ	0	0	0	0	0	0	0	0	0	0	0	0	0	
AC	0	0	0	0	0	0	0	0	0	0	0	0	0	
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0	
AT	0	0	0	0	0	0	0	0	0	0	0	0	0	
CG	0	0	0	0	0	0	0	0	0	0	0	0	0	
CT	0	0	0	0	0	0	0	0	0	0	0	0	0	
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 531: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 244 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 244

_						
	row id1	col id1	call1	row id2	col id2	call2
	(6907, 1)/CIBC-17	AtMSQTsnp 244	A	40	AtMSQTsnp 244	G
	(6908, 1)/CIBC-5	AtMSQTsnp 244	G	39	AtMSQTsnp 244	A
	(8276, 1)/CIBC-17	AtMSQTsnp 244	A	40	AtMSQTsnp 244	G
	(8277, 1)/CIBC-5	AtMSQTsnp 244	G	39	AtMSQTsnp 244	A

4.58 col id1=AtMSQTsnp 249 vs col id2=AtMSQTsnp 249

Table 532: col id1=AtMSQTsnp 249 vs col id2=AtMSQTsnp 249

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	0	2	0	3	0	0	0	0	0	0	0
A	101	0	0	133	0	0	0	0	2	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	45	0	0	1	0	52	0	0	0	0	0	0	0
${\rm T}$	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 533: detailed difference for col $id1{=}AtMSQTsnp$ 249 vs col $id2{=}AtMSQTsnp$ 249

	row id1	col id1	call1	row id2	col id2	call2
ĺ	(5837, 1)/Bor-1	AtMSQTsnp 249	G	27	AtMSQTsnp 249	A
	(6938, 1)/Ms-0	AtMSQTsnp 249	A	92	AtMSQTsnp 249	AG
	(8340, 1)/Ms-0	AtMSQTsnp 249	A	92	AtMSQTsnp 249	AG

4.59 col id1=AtMSQTsnp 254 vs col id2=AtMSQTsnp 254

Table 534: col id1=AtMSQTsnp 254 vs col id2=AtMSQTsnp 254

		-	NA	A	С	G	T	AC	$^{\mathrm{AG}}$	AT	$^{\circ}$ CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	7	11	0	4	4	0	0	0	0	0	0	0	0
A	49	0	0	65	1	0	0	0	0	0	0	0	0
\mathbf{C}	94	0	2	0	106	0	0	0	0	0	0	0	0
\mathbf{G}	0	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

	row id1	col id1	call1	row id2	col id2	call2
ĺ	(5837, 1)/Bor-1	AtMSQTsnp 254	A	27	AtMSQTsnp 254	С

$4.60 \quad {\rm col~id1{=}AtMSQTsnp~260~vs~col~id2{=}AtMSQTsnp~260}$

Table 536: col id1=AtMSQTsnp 260 vs col id2=AtMSQTsnp 260

		-	NA	A	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	10	0	0	3	1	0	0	0	0	0	0	0	0
A	53	0	6	61	2	0	0	2	0	0	0	0	0
\mathbf{C}	99	0	6	0	98	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
${\rm T}$	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	2	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 537: detailed difference for col $id1{=}AtMSQTsnp$ 260 vs col $id2{=}AtMSQTsnp$ 260

row id1	col id1	call1	row id2	col id2	call2
(6977, 1)/Van-0	AtMSQTsnp 260	A	64	AtMSQTsnp 260	AC
(6984, 1)/Zdr-1	AtMSQTsnp 260	A	25	AtMSQTsnp 260	$^{\rm C}$
(8400, 1)/Van-0	AtMSQTsnp 260	A	64	AtMSQTsnp 260	AC
(8409, 1)/Zdr-1	AtMSQTsnp 260	A	25	AtMSQTsnp~260	\mathbf{C}

4.61 col id1=AtMSQTsnp 263 vs col id2=AtMSQTsnp 263

Table 538: col id1=AtMSQTsnp 263 vs col id2=AtMSQTsnp 263

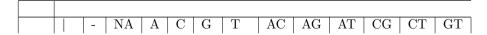
		-	NA	A	$^{\mathrm{C}}$	G	${ m T}$	AC	\overline{AG}	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	0	0	2	0	0	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
C	40	0	4	0	61	0	1	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
Γ	114	0	2	0	0	0	117	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 539: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 263 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 263

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 263	С	27	AtMSQTsnp 263	Т

$4.62 \quad {\rm col~id1}{=}AtMSQTsnp~266~vs~col~id2{=}AtMSQTsnp~266$

Table 540: col id1=AtMSQTsnp 266 vs col id2=AtMSQTsnp 266



	0	0	0	0	0	0	0	0	0	0	0	0	0	
-	0	0	0	0	0	0	0	0	0	0	0	0	0	
NA	2	0	0	0	0	1	1	0	0	0	0	0	1	
A	0	0	0	0	0	0	0	0	0	0	0	0	0	
С	0	0	0	0	0	0	0	0	0	0	0	0	0	
G	62	0	0	0	0	57	0	0	0	0	0	0	1	
Τ	86	0	0	0	0	0	130	0	0	0	0	0	2	
AC	0	0	0	0	0	0	0	0	0	0	0	0	0	
AG	0	0	0	0	0	0	0	0	0	0	0	0	0	
AT	0	0	0	0	0	0	0	0	0	0	0	0	0	
CG	0	0	0	0	0	0	0	0	0	0	0	0	0	
CT	0	0	0	0	0	0	0	0	0	0	0	0	0	
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 541: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 266 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 266

row id1	col id1	call1	row id2	col id2	call2
(6960, 1)/REN-11	AtMSQTsnp 266	G	48	AtMSQTsnp 266	GT
(6977, 1)/Van-0	AtMSQTsnp 266	T	64	AtMSQTsnp 266	GT
(8400, 1)/Van-0	AtMSQTsnp 266	T	64	AtMSQTsnp 266	GT

$4.63 \quad {\rm col~id1}{=}AtMSQTsnp~267~vs~col~id2{=}AtMSQTsnp~267$

Table 542: col id1=AtMSQTsnp 267 vs col id2=AtMSQTsnp 267

		-	NA	Α	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	68	0	2	0	17	0	26	0	0	0	0	1	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	55	0	0	0	40	0	0	0	0	0	0	1	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
Γ	54	0	1	0	0	0	35	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	27	0	1	0	15	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 543: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 267 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 267

row id1	col id1	call1	row id2	col id2	call2
(6897, 1)/Ag-0	AtMSQTsnp 267	CT	67	AtMSQTsnp 267	С
(6904, 1)/Br-0	AtMSQTsnp 267	CT	65	AtMSQTsnp 267	C
(6907, 1)/CIBC-17	AtMSQTsnp 267	CT	40	AtMSQTsnp 267	C
(6920, 1)/GOT-22	AtMSQTsnp 267	CT	46	AtMSQTsnp 267	C
(6921, 1)/GOT-7	AtMSQTsnp 267	CT	45	AtMSQTsnp 267	C
(6959, 1)/REN-1	AtMSQTsnp 267	CT	47	AtMSQTsnp 267	C
(6960, 1)/REN-11	AtMSQTsnp 267	CT	48	AtMSQTsnp 267	C
(6961, 1)/Se-0	AtMSQTsnp 267	CT	83	AtMSQTsnp 267	C
(6971, 1)/Ts-5	AtMSQTsnp 267	CT	85	AtMSQTsnp 267	C
(6976, 1)/Uod-7	AtMSQTsnp 267	CT	50	AtMSQTsnp 267	C
(6980, 1)/Ws-0	AtMSQTsnp 267	CT	60	AtMSQTsnp 267	C
(6985, 1)/Zdr-6	AtMSQTsnp 267	CT	26	AtMSQTsnp 267	C
(7519, 1)/	AtMSQTsnp 267	CT	22	AtMSQTsnp 267	C
(7523, 1)/Pna-17	AtMSQTsnp 267	CT	7	AtMSQTsnp 267	C
(7526, 1)/Pna-10	AtMSQTsnp 267	CT	8	AtMSQTsnp 267	\mathbf{C}
(8400, 1)/Van-0	AtMSQTsnp 267	\mathbf{C}	64	AtMSQTsnp 267	CT

4.64 col id1=AtMSQTsnp 27 vs col id2=AtMSQTsnp 27

Table 544: col id1=AtMSQTsnp 27 vs col id2=AtMSQTsnp 27

ſ		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	GT 0

i .														
-	0	0	0	0	0	0	0	0	0	0	0	0	0	
NA	86	0	1	56	0	38	0	0	0	0	0	0	0	
A	42	0	1	53	0	0	0	0	0	0	0	0	0	
C	0	0	0	0	0	0	0	0	0	0	0	0	0	
G	24	0	0	0	0	42	0	0	0	0	0	0	0	
\mathbf{T}	0	0	0	0	0	0	0	0	0	0	0	0	0	
AC	0	0	0	0	0	0	0	0	0	0	0	0	0	
AG	0	0	0	0	0	0	0	0	0	0	0	0	0	
AT	0	0	0	0	0	0	0	0	0	0	0	0	0	
CG	0	0	0	0	0	0	0	0	0	0	0	0	0	
CT	0	0	0	0	0	0	0	0	0	0	0	0	0	
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	

4.65 col id1=AtMSQTsnp 274 vs col id2=AtMSQTsnp 274

Table 545: col id1=AtMSQTsnp 274 vs col id2=AtMSQTsnp 274

		-	NA	A	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	0	0	0	7	5	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\rm C}$	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	23	0	6	0	0	123	4	0	0	0	0	0	0
T	24	0	1	0	0	3	143	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 546: detailed difference for col $id1{=}AtMSQTsnp$ 274 vs col $id2{=}AtMSQTsnp$ 274

row id1	col id1	call1	row id2	col id2	call2
(6088, 1)/Stu1-1	AtMSQTsnp 274	Т	363	AtMSQTsnp 274	G
(8234, 1)/Gul1-2	AtMSQTsnp 274	${ m T}$	356	AtMSQTsnp 274	G
(8244, 1)/PHW-34	AtMSQTsnp 274	G	304	AtMSQTsnp 274	Т
(8246, 1)/NC-6	AtMSQTsnp 274	G	294	AtMSQTsnp 274	Т
(8284, 1)/DraII-1	AtMSQTsnp 274	G	381	AtMSQTsnp 274	Т
(8356, 1)/Pi-0	AtMSQTsnp 274	G	336	AtMSQTsnp 274	Т
(8380, 1)/Sf-1	AtMSQTsnp 274	T	300	AtMSQTsnp 274	G

4.66 col id1=AtMSQTsnp 278 vs col id2=AtMSQTsnp 278

Table 547: col id1=AtMSQTsnp 278 vs col id2=AtMSQTsnp 278

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	1	11	0	5	0	0	0	0	0	0	0
A	18	0	10	71	0	2	0	0	1	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
G	29	0	20	3	0	168	0	0	0	0	0	0	0
Γ	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 548: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 278 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 278

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 278	A	27	AtMSQTsnp 278	G
(6008, 2)/Duk	AtMSQTsnp 278	G	378	AtMSQTsnp 278	A

(6042, 2)/Lom1-1	AtMSQTsnp 278	G	351	AtMSQTsnp 278	A
(8246, 1)/NC-6	AtMSQTsnp 278	A	294	AtMSQTsnp 278	G
(8284, 1)/DraII-1	AtMSQTsnp 278	A	381	AtMSQTsnp 278	\overline{AG}
(8380, 1)/Sf-1	AtMSQTsnp 278	G	300	AtMSQTsnp 278	A

4.67 col id1=AtMSQTsnp 279 vs col id2=AtMSQTsnp 279

Table 549: col $\mathrm{id}1\mathrm{=}\mathrm{AtMSQTsnp}$ 279 vs col $\mathrm{id}2\mathrm{=}\mathrm{AtMSQTsnp}$ 279

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	1	0	0	0	3	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	18	0	12	0	83	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	32	0	18	0	1	0	173	0	0	0	0	1	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 550: detailed difference for col $id1{=}AtMSQTsnp$ 279 vs col $id2{=}AtMSQTsnp$ 279

row id1	col id1	call1	row id2	col id2	call2
(8284, 1)/DraII-1	AtMSQTsnp 279	Т	381	AtMSQTsnp 279	CT
(8356, 1)/Pi-0	AtMSQTsnp 279	\mathbf{T}	336	AtMSQTsnp 279	С

4.68 col id1=AtMSQTsnp 281 vs col id2=AtMSQTsnp 281

Table 551: col id1=AtMSQTsnp 281 vs col id2=AtMSQTsnp 281

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	2	0	3	0	1	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
C	72	0	6	0	89	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
T	73	0	7	0	2	0	82	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	1	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 552: detailed difference for col $\mathrm{id}1{=}\mathrm{AtMSQTsnp}$ 281 vs col $\mathrm{id}2{=}\mathrm{AtMSQTsnp}$ 281

row id1	col id1	call1	row id2	col id2	call2
(6959, 1)/REN-1	AtMSQTsnp 281	CT	47	AtMSQTsnp 281	T
(6977, 1)/Van-0	AtMSQTsnp 281	T	64	AtMSQTsnp 281	C
(8400, 1)/Van-0	AtMSQTsnp 281	Т	64	AtMSQTsnp 281	С

$4.69 \quad {\rm col~id1}{=}AtMSQTsnp~282~vs~col~id2{=}AtMSQTsnp~282$

Table 553: col id1=AtMSQTsnp 282 vs col id2=AtMSQTsnp 282

		-	NA	A	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	GT 0

-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	6	0	0	0	0	0	6	0	0	0	0	0	0
A	59	0	0	57	0	0	0	0	0	1	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
T	88	0	4	0	0	0	121	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	1	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 554: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 282 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 282

row id1	col id1	call1	row id2	col id2	call2
(6918, 1)/F4	AtMSQTsnp 282	A	14	AtMSQTsnp 282	AT

$4.70 \quad {\rm col~id1}{=}AtMSQTsnp~285~vs~col~id2{=}AtMSQTsnp~285$

Table 555: col id1=AtMSQTsnp 285 vs col id2=AtMSQTsnp 285

		-	NA	Α	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	0	0	1	0	1	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
C	36	0	0	0	62	0	0	0	0	0	0	1	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
T	117	0	0	0	0	0	119	0	0	0	0	2	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	1	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 556: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 285 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 285

row id1	col id1	call1	row id2	col id2	call2
(6960, 1)/REN-11	AtMSQTsnp 285	С	48	AtMSQTsnp 285	CT
(6977, 1)/Van-0	AtMSQTsnp 285	T	64	AtMSQTsnp 285	CT
(8400, 1)/Van-0	AtMSQTsnp 285	\mathbf{T}	64	AtMSQTsnp 285	CT

$4.71 \quad {\rm col~id1}{=}AtMSQTsnp~286~vs~col~id2{=}AtMSQTsnp~286$

Table 557: col id1=AtMSQTsnp 286 vs col id2=AtMSQTsnp 286

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	84	0	1	0	54	40	0	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
C	35	0	1	0	59	0	0	0	0	0	0	0	0
G	31	0	0	0	1	37	0	0	0	0	0	0	0
T	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\rm CG}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 286	G	27	AtMSQTsnp 286	С

4.72 col id1=AtMSQTsnp 288 vs col id2=AtMSQTsnp 288

Table 559: col $\mathrm{id}1\mathrm{=}\mathrm{AtMSQTsnp}$ 288 vs col $\mathrm{id}2\mathrm{=}\mathrm{AtMSQTsnp}$ 288

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	1	4	0	3	0	0	0	0	0	0	0
A	71	0	3	84	0	1	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	74	0	7	0	0	90	0	0	0	0	0	0	0
Τ	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	1	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 560: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 288 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 288

	row id1	col id1	call1	row id2	col id2	call2
Ì	(5837, 1)/Bor-1	AtMSQTsnp 288	A	27	AtMSQTsnp 288	G

4.73 col id1=AtMSQTsnp 29 vs col id2=AtMSQTsnp 29

Table 561: col id1=AtMSQTsnp 29 vs col id2=AtMSQTsnp 29

		-	NA	Α	С	G	Τ	AC	\overline{AG}	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	5	0	0	3	0	0	4	0	0	0	0	0	0
A	46	0	0	61	0	0	0	0	0	2	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
Γ	99	0	0	0	0	0	123	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\rm CG}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 562: detailed difference for col id1=AtMSQTsnp 29 vs col id2=AtMSQTsnp 29

row id1	col id1	call1	row id2	col id2	call2
(6977, 1)/Van-0	AtMSQTsnp 29	A	64	AtMSQTsnp 29	AT
(8400, 1)/Van-0	AtMSQTsnp 29	A	64	AtMSQTsnp 29	AT

4.74 col id1=AtMSQTsnp 292 vs col id2=AtMSQTsnp 292

Table 563: col id1=AtMSQTsnp 292 vs col id2=AtMSQTsnp 292

		-	NA	A	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0

NA	6	0	1	0	2	0	4	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
С	45	0	4	0	65	0	2	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
T	98	0	4	0	0	0	111	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 564: detailed difference for col $id1{=}AtMSQTsnp$ 292 vs col $id2{=}AtMSQTsnp$ 292

row id1	col id1	call1	row id2	col id2	call2
(6910, 1)/Ct-1	AtMSQTsnp 292	С	76	AtMSQTsnp 292	Т
(8280, 1)/Ct-1	AtMSQTsnp 292	C	76	AtMSQTsnp 292	Τ

4.75 col id1=AtMSQTsnp 294 vs col id2=AtMSQTsnp 294

Table 565: col id1=AtMSQTsnp 294 vs col id2=AtMSQTsnp 294

		-	NA	Α	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	7	0	0	0	0	4	9	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	95	0	0	0	0	108	1	0	0	0	0	0	0
$^{\mathrm{T}}$	48	0	0	0	0	0	71	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 566: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 294 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 294

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 294	G	27	AtMSQTsnp 294	Т

4.76 col id1=AtMSQTsnp 30 vs col id2=AtMSQTsnp 30

Table 567: col id1=AtMSQTsnp 30 vs col id2=AtMSQTsnp 30

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	84	0	14	0	52	0	30	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
C	31	0	6	0	54	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
Γ	35	0	6	0	1	0	30	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 568: detailed difference for col id1=AtMSQTsnp 30 vs col id2=AtMSQTsnp 30

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 30	Т	27	AtMSQTsnp 30	С

4.77 col id1=AtMSQTsnp 300 vs col id2=AtMSQTsnp 300

Table 569: col id1=AtMSQTsnp 300 vs col id2=AtMSQTsnp 300

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	0	2	0	0	0	0	0	0	0	0	0
A	95	0	0	102	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
G	53	0	0	1	0	88	0	0	0	0	0	0	0
T	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 570: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 300 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 300

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 300	G	27	AtMSQTsnp 300	A

4.78 col id1=AtMSQTsnp 304 vs col id2=AtMSQTsnp 304

Table 571: col id1=AtMSQTsnp 304 vs col id2=AtMSQTsnp 304

		-	NA	A	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	1	0	9	0	2	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	47	0	10	0	58	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	100	0	10	0	2	0	97	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	1	0	0	0	1	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 572: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 304 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 304

row id1	col id1	call1	row id2	col id2	call2
(6908, 1)/CIBC-5	AtMSQTsnp 304	Т	39	AtMSQTsnp 304	С
(6924, 1)/HR-5	AtMSQTsnp 304	CT	33	AtMSQTsnp 304	${ m T}$
(8277, 1)/CIBC-5	AtMSQTsnp 304	${ m T}$	39	AtMSQTsnp 304	\mathbf{C}

4.79 col id1=AtMSQTsnp 306 vs col id2=AtMSQTsnp 306

Table 573: col id1=AtMSQTsnp 306 vs col id2=AtMSQTsnp 306

		-	NA	Α	С	G	Т	AC	\overline{AG}	AT	$^{\rm CG}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	7	0	3	0	3	3	0	0	0	0	0	0	0
 - NA A	0	0	0	0	0	0	0	0	0	0	0	0	0

$\mid C$	88	0	29	0	75	2	0	0	0	0	0	0	0
G	59	0	16	0	0	55	0	0	0	0	2	0	0
$\mid T \mid$	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	1	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 574: detailed difference for col $id1{=}AtMSQTsnp$ 306 vs col $id2{=}AtMSQTsnp$ 306

row id1	col id1	call1	row id2	col id2	call2
(6908, 1)/CIBC-5	AtMSQTsnp 306	С	39	AtMSQTsnp 306	G
(6920, 1)/GOT-22	AtMSQTsnp 306	G	46	AtMSQTsnp 306	CG
(8277, 1)/CIBC-5	AtMSQTsnp 306	\mathbf{C}	39	AtMSQTsnp 306	G
(8298, 1)/Got-22	AtMSQTsnp 306	\mathbf{G}	46	AtMSQTsnp 306	$^{\mathrm{CG}}$

$4.80 \quad {\rm col~id1{=}AtMSQTsnp~307~vs~col~id2{=}AtMSQTsnp~307}$

Table 575: col id1=AtMSQTsnp 307 vs col id2=AtMSQTsnp 307

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	3	0	0	1	0	0	4	0	0	0	0	0	0
A	67	0	0	76	0	0	3	0	0	0	0	0	0
С	0	0	0	0	0	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{T}	88	0	0	2	0	0	97	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	2	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 576: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 307 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 307

row id1	col id1	call1	row id2	col id2	call2
(6907, 1)/CIBC-17	AtMSQTsnp 307	Т	40	AtMSQTsnp 307	A
(6908, 1)/CIBC-5	AtMSQTsnp 307	A	39	AtMSQTsnp 307	T
(8276, 1)/CIBC-17	AtMSQTsnp 307	${ m T}$	40	AtMSQTsnp 307	A
(8277, 1)/CIBC-5	AtMSQTsnp 307	A	39	AtMSQTsnp 307	${ m T}$
(8293, 1)/F4	AtMSQTsnp 307	A	14	AtMSQTsnp 307	${ m T}$

$4.81 \quad {\rm col~id1{=}AtMSQTsnp~31~vs~col~id2{=}AtMSQTsnp~31}$

Table 577: col id1=AtMSQTsnp 31 vs col id2=AtMSQTsnp 31

		-	NA	Α	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	0	0	0	4	0	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
G	84	0	4	0	0	111	0	0	0	0	0	0	0
\mathbf{T}	61	0	0	0	0	1	73	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	1	0	0	0	0	0	0	0	0	0	0	0	0

	row id1	col id1	call1	row id2	col id2	call2
ſ	(5837, 1)/Bor-1	AtMSQTsnp 31	Τ	27	AtMSQTsnp 31	G

4.82 col id1=AtMSQTsnp 310 vs col id2=AtMSQTsnp 310

Table 579: col $\mathrm{id}1{=}\mathrm{AtMSQTsnp}$ 310 vs col $\mathrm{id}2{=}\mathrm{AtMSQTsnp}$ 310

		-	NA	Α	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	5	0	1	4	1	0	0	0	0	0	0	0	0
A	96	0	11	97	1	0	0	0	0	0	0	0	0
\mathbf{C}	49	0	8	0	70	0	0	0	0	0	0	0	0
\mathbf{G}	0	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 580: detailed difference for col $\mathrm{id}1{=}\mathrm{AtMSQTsnp}$ 310 vs col $\mathrm{id}2{=}\mathrm{AtMSQTsnp}$ 310

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 310	A	27	AtMSQTsnp 310	С

4.83 col id1=AtMSQTsnp 312 vs col id2=AtMSQTsnp 312

Table 581: col id1=AtMSQTsnp 312 vs col id2=AtMSQTsnp 312

		-	NA	A	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	8	0	0	0	1	0	5	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	44	0	2	0	56	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
${f T}$	97	0	4	0	0	0	125	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.84 col id1=AtMSQTsnp 315 vs col id2=AtMSQTsnp 315

Table 582: col id1=AtMSQTsnp 315 vs col id2=AtMSQTsnp 315

		-	NA	A	С	G	T	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	1	0	0	0	4	0	0	0	0	0	0
A	36	0	4	40	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	0	0	0	0	0	0	0	0	0	0	0	0	0
Τ	116	0	24	0	0	0	115	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	1	0	0	0	0	0	1	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0

GT	0	0	0	0	0	0	0	0	0	0	0	0	0
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Table 583: detailed difference for col $id1{=}AtMSQTsnp$ 315 vs col $id2{=}AtMSQTsnp$ 315

row id1	col id1	call1	row id2	col id2	call2
(6897, 1)/Ag-0	AtMSQTsnp 315	AT	67	AtMSQTsnp 315	Τ

$4.85 \quad {\rm col~id1{=}AtMSQTsnp~321~vs~col~id2{=}AtMSQTsnp~321}$

Table 584: col $\mathrm{id}1{=}\mathrm{AtMSQTsnp}$ 321 vs col $\mathrm{id}2{=}\mathrm{AtMSQTsnp}$ 321

		-	NA	A	С	G	Т	AC	\overline{AG}	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	1	3	2	0	0	0	0	0	0	0	0
A	30	0	17	52	3	0	0	0	0	0	0	0	0
C	118	0	34	4	77	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
T	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 585: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 321 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 321

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 321	A	27	AtMSQTsnp 321	С
(6907, 1)/CIBC-17	AtMSQTsnp 321	A	40	AtMSQTsnp 321	C
(6908, 1)/CIBC-5	AtMSQTsnp 321	C	39	AtMSQTsnp 321	A
(6958, 1)/Ra-0	AtMSQTsnp 321	C	69	AtMSQTsnp 321	A
(8276, 1)/CIBC-17	AtMSQTsnp 321	A	40	AtMSQTsnp 321	C
(8277, 1)/CIBC-5	AtMSQTsnp 321	C	39	AtMSQTsnp 321	A
(8364, 1)/Ra-0	AtMSQTsnp 321	C	69	AtMSQTsnp 321	A

$4.86 \quad {\rm col~id1}{=}AtMSQTsnp~323~vs~col~id2{=}AtMSQTsnp~323$

Table 586: col $\mathrm{id}1\mathrm{=}\mathrm{AtMSQTsnp}$ 323 vs col $\mathrm{id}2\mathrm{=}\mathrm{AtMSQTsnp}$ 323

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	5	0	0	4	0	1	0	0	0	0	0	0	0
A	95	0	4	104	0	0	0	0	2	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	59	0	0	1	0	65	0	0	2	0	0	0	0
${ m T}$	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	1	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 587: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 323 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 323

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 323	G	27	AtMSQTsnp 323	A
(6938, 1)/Ms-0	AtMSQTsnp 323	G	92	AtMSQTsnp 323	\overline{AG}
(6977, 1)/Van-0	AtMSQTsnp 323	A	64	AtMSQTsnp 323	\overline{AG}
(8340, 1)/Ms-0	AtMSQTsnp 323	G	92	AtMSQTsnp 323	\overline{AG}

$4.87 \quad {\rm col~id1}{=}AtMSQTsnp~325~vs~col~id2{=}AtMSQTsnp~325$

Table 588: col id1=AtMSQTsnp 325 vs col id2=AtMSQTsnp 325

		-	NA	A	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	3	0	2	0	0	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	103	0	36	0	77	0	1	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	41	0	23	0	2	0	49	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	2	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 589: detailed difference for col $\mathrm{id}1{=}\mathrm{AtMSQTsnp}$ 325 vs col $\mathrm{id}2{=}\mathrm{AtMSQTsnp}$ 325

1	row id1	col id1	call1	row id2	col id2	call2
	(5837, 1)/Bor-1	AtMSQTsnp 325	С	27	AtMSQTsnp 325	Т
	' '/'	AtMSQTsnp 325	${ m T}$	72	AtMSQTsnp 325	
	(8339, 1)/Mrk-0	AtMSQTsnp 325	${ m T}$	72	AtMSQTsnp 325	

4.88 col id1=AtMSQTsnp 327 vs col id2=AtMSQTsnp 327

Table 590: col $\mathrm{id}1{=}\mathrm{AtMSQTsnp}$ 327 vs col $\mathrm{id}2{=}\mathrm{AtMSQTsnp}$ 327

		-	NA	Α	С	G	Т	AC	\overline{AG}	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	32	0	35	0	0	26	43	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
G	49	0	11	0	0	32	1	0	0	0	0	0	0
Γ	68	0	8	0	0	2	35	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	1	0	0	0	0	0	0	0	0	0	0	0	0

Table 591: detailed difference for col $\mathrm{id}1{=}\mathrm{AtMSQTsnp}$ 327 vs col $\mathrm{id}2{=}\mathrm{AtMSQTsnp}$ 327

row id1	col id1	call1	row id2	col id2	call2
(6907, 1)/CIBC-17	AtMSQTsnp 327	Т	40	AtMSQTsnp 327	G
(6908, 1)/CIBC-5	AtMSQTsnp 327	G	39	AtMSQTsnp 327	${ m T}$
(8276, 1)/CIBC-17	AtMSQTsnp 327	Т	40	AtMSQTsnp 327	G

$4.89 \quad {\rm col~id1{=}AtMSQTsnp~33~vs~col~id2{=}AtMSQTsnp~33}$

Table 592: col $id1{=}AtMSQTsnp$ 33 vs col $id2{=}AtMSQTsnp$ 33

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	146	0	2	0	0	97	81	0	0	0	0	0	0

A	0	0	0	0	0	0	0	0	0	0	0	0	0	
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0	
G	3	0	0	0	0	13	0	0	0	0	0	0	0	
${ m T}$	1	0	0	0	0	0	0	0	0	0	0	0	0	
AC	0	0	0	0	0	0	0	0	0	0	0	0	0	
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0	
AT	0	0	0	0	0	0	0	0	0	0	0	0	0	
CG	0	0	0	0	0	0	0	0	0	0	0	0	0	
CT	0	0	0	0	0	0	0	0	0	0	0	0	0	
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	

4.90 col id1=AtMSQTsnp 331 vs col id2=AtMSQTsnp 331

Table 593: col $\mathrm{id}1{=}\mathrm{AtMSQTsnp}$ 331 vs col $\mathrm{id}2{=}\mathrm{AtMSQTsnp}$ 331

		-	NA	Α	С	G	Т	AC	\overline{AG}	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	83	0	0	0	52	42	0	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
C	30	0	0	0	48	1	0	0	0	0	0	0	0
G	36	0	0	0	0	50	0	0	0	0	0	0	0
T	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{AG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	1	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 594: detailed difference for col $\mathrm{id}1{=}\mathrm{AtMSQTsnp}$ 331 vs col $\mathrm{id}2{=}\mathrm{AtMSQTsnp}$ 331

row id1	col id1	call1	row id2	col id2	call2
(6938, 1)/Ms-0	AtMSQTsnp 331	С	92	AtMSQTsnp 331	G

4.91 col id1=AtMSQTsnp 334 vs col id2=AtMSQTsnp 334

Table 595: col id1=AtMSQTsnp 334 vs col id2=AtMSQTsnp 334

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	0	0	6	0	0	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	118	0	4	0	95	0	6	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	28	0	2	0	5	0	75	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 596: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 334 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 334

row id1	col id1	call1	row id2	col id2	call2
(6907, 1)/CIBC-17	AtMSQTsnp 334	С	40	AtMSQTsnp 334	Т
(6908, 1)/CIBC-5	AtMSQTsnp 334	T	39	AtMSQTsnp 334	C
(6945, 1)/Nok-3	AtMSQTsnp 334	T	80	AtMSQTsnp 334	\mid C
(6972, 1)/Tsu-1	AtMSQTsnp 334	С	78	AtMSQTsnp 334	T
(6982, 1)/Wt-5	AtMSQTsnp 334	С	74	AtMSQTsnp 334	T
(8276, 1)/CIBC-17	AtMSQTsnp 334	С	40	AtMSQTsnp 334	T
(8277, 1)/CIBC-5	AtMSQTsnp 334	T	39	AtMSQTsnp 334	\mid C \mid
(8347, 1)/Nok-3	AtMSQTsnp 334	T	80	AtMSQTsnp 334	C
(8364, 1)/Ra-0	AtMSQTsnp 334	T	69	AtMSQTsnp 334	\mid C \mid
(8394, 1)/Tsu-1	AtMSQTsnp 334	С	78	AtMSQTsnp 334	\mid T \mid

(8407, 1)/Wt-5	AtMSQTsnp 334	\mathbf{C}	74	AtmSQTsnp 334 T	
(0101, 1), 1100	1101112 @ 151112 001	\sim		110111D @ 1511D 001 1	

4.92 col id1=AtMSQTsnp 343 vs col id2=AtMSQTsnp 343

Table 597: col $\mathrm{id}1{=}\mathrm{AtMSQTsnp}$ 343 vs col $\mathrm{id}2{=}\mathrm{AtMSQTsnp}$ 343

		-	NA	A	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	0	0	1	0	3	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	82	0	0	0	104	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{T}	64	0	0	0	1	0	84	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 598: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 343 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 343

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 343	Т	27	AtMSQTsnp 343	С

4.93 col id1=AtMSQTsnp 350 vs col id2=AtMSQTsnp 350

Table 599: col $\mathrm{id}1\mathrm{=}\mathrm{AtMSQTsnp}$ 350 vs col $\mathrm{id}2\mathrm{=}\mathrm{AtMSQTsnp}$ 350

		-	NA	A	С	G	Т	AC	\overline{AG}	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	0	2	0	5	0	0	0	0	0	0	0
A	42	0	0	68	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	106	0	0	0	0	118	0	0	0	0	0	0	0
T	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

$4.94 \quad {\rm col~id1{=}AtMSQTsnp~351~vs~col~id2{=}AtMSQTsnp~351}$

Table 600: col id1=AtMSQTsnp 351 vs col id2=AtMSQTsnp 351

		-	NA	Α	С	G	Т	AC	\overline{AG}	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	7	0	0	1	0	4	0	0	0	0	0	0	0
A	35	0	0	55	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
G	108	0	0	0	0	133	0	0	0	0	0	0	0
Γ	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.95 col id1=AtMSQTsnp 355 vs col id2=AtMSQTsnp 355

Table 601: col id1=AtMSQTsnp 355 vs col id2=AtMSQTsnp 355

		-	NA	A	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	8	0	0	0	0	1	3	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
G	36	0	0	0	0	45	1	0	0	0	0	0	0
T	122	0	0	0	0	0	127	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 602: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 355 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 355

	row id1	col id1	call1	row id2	col id2	call2
Ì	(5837, 1)/Bor-1	AtMSQTsnp 355	G	27	AtMSQTsnp 355	Т

4.96 col id1=AtMSQTsnp 358 vs col id2=AtMSQTsnp 358

Table 603: col id1=AtMSQTsnp 358 vs col id2=AtMSQTsnp 358

	Ι												
			37.4					1.0	1.0	A.T.	00	CIT	O.T.
		-	NA	A	С	\mathbf{G}	T	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	5	0	0	1	0	4	0	0	0	0	0	0	0
Α	52	0	0	70	0	0	0	0	0	0	0	0	0
С	0	0	0	0	0	0	0	0	0	0	0	0	0
G	93	0	0	1	0	117	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 604: detailed difference for col $id1{=}AtMSQTsnp$ 358 vs col $id2{=}AtMSQTsnp$ 358

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 358	G	27	AtMSQTsnp 358	A

4.97 col id1=AtMSQTsnp 359 vs col id2=AtMSQTsnp 359

Table 605: col id1=AtMSQTsnp 359 vs col id2=AtMSQTsnp 359

		-	NA	A	С	G	T	AC	AG	AT	$\overline{\text{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	3	0	0	0	0	2	1	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	77	0	2	0	0	74	0	0	0	0	0	0	2
\mathbf{T}	72	0	2	0	0	0	108	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 606: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 359 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 359

row id1	col id1	call1	row id2	col id2	call2
(6977, 1)/Van-0	AtMSQTsnp 359	G	64	AtMSQTsnp 359	GT
(8400, 1)/Van-0	AtMSQTsnp 359	G	64	AtMSQTsnp 359	GT

4.98 col id1=AtMSQTsnp 360 vs col id2=AtMSQTsnp 360

Table 607: col id1=AtMSQTsnp 360 vs col id2=AtMSQTsnp 360

		-	NA	Α	С	G	Т	AC	\overline{AG}	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	88	0	5	0	0	60	28	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	38	0	4	0	0	54	0	0	0	0	0	0	0
Γ	37	0	1	0	0	0	28	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.99 col id1=AtMSQTsnp 361 vs col id2=AtMSQTsnp 361

Table 608: col id1=AtMSQTsnp 361 vs col id2=AtMSQTsnp 361

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	3	0	0	3	0	3	0	0	0	0	0	0	0
A	67	0	0	88	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	80	0	0	0	0	99	0	0	0	0	0	0	0
\mathbf{T}	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.100 col id1=AtMSQTsnp 368 vs col id2=AtMSQTsnp 368

Table 609: col id1=AtMSQTsnp 368 vs col id2=AtMSQTsnp 368

		-	NA	A	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	84	0	0	44	0	52	0	0	0	0	0	0	0
A	24	0	0	43	0	0	0	0	0	0	0	0	0
С	0	0	0	0	0	0	0	0	0	0	0	0	0
G	42	0	0	1	0	53	0	0	0	0	0	0	0
\mathbf{T}	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

	row id1	col id1	call1	row id2	col id2	call2
Γ	(5837, 1)/Bor-1	AtMSQTsnp 368	G	27	AtMSQTsnp 368	A

4.101 col id1=AtMSQTsnp 370 vs col id2=AtMSQTsnp 370

Table 611: col id1=AtMSQTsnp 370 vs col id2=AtMSQTsnp 370

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	13	0	7	11	0	2	0	0	0	0	0	0	0
A	50	0	0	72	0	1	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	95	0	7	8	0	77	0	0	0	0	0	0	0
\mathbf{T}	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 612: detailed difference for col $id1{=}AtMSQTsnp$ 370 vs col $id2{=}AtMSQTsnp$ 370

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 370	A	27	AtMSQTsnp 370	G
(6043, 1)/L	AtMSQTsnp 370	G	11	AtMSQTsnp 370	A
(6046, 1)/L	AtMSQTsnp 370	G	12	AtMSQTsnp 370	A
(6900, 1)/Bil-5	AtMSQTsnp 370	G	15	AtMSQTsnp 370	A
(6901, 1)/Bil-7	AtMSQTsnp 370	G	16	AtMSQTsnp 370	A
(6935, 1)/L	AtMSQTsnp 370	G	12	AtMSQTsnp 370	A
(6971, 1)/Ts-5	AtMSQTsnp 370	G	85	AtMSQTsnp 370	A
(6981, 1)/Ws-2	AtMSQTsnp 370	G	96	AtMSQTsnp 370	A
(8263, 1)/Bil-7	AtMSQTsnp 370	\mathbf{G}	16	AtMSQTsnp 370	A

4.102 col id1=AtMSQTsnp 372 vs col id2=AtMSQTsnp 372

Table 613: col id1=AtMSQTsnp 372 vs col id2=AtMSQTsnp 372

		-	NA	Α	С	G	Т	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	42	0	6	3	0	34	0	0	0	0	0	0	0
A	77	0	32	82	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	31	0	5	0	0	31	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.103 col id1=AtMSQTsnp 373 vs col id2=AtMSQTsnp 373

Table 614: col id1=AtMSQTsnp 373 vs col id2=AtMSQTsnp 373

ſ			-	NA	Α	С	G	Т	AC	\overline{AG}	AT	CG	CT	GT
		0	0	0	0	0	0	0	0	0	0	0	0	0
	-	0	0	0	0	0	0	0	0	0	0	0	0	0
l	NA	8	0	4	0	0	1	0	0	0	0	0	0	0
	A	35	0	4	39	0	1	0	0	0	0	0	0	0

$\mid C \mid$	0	0	0	0	0	0	0	0	0	0	0	0	0
G	110	0	20	2	0	107	0	0	0	0	0	0	0
T	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	11	0	1	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 615: detailed difference for col $id1{=}AtMSQTsnp$ 373 vs col $id2{=}AtMSQTsnp$ 373

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 373	A	27	AtMSQTsnp 373	G
(7519, 1)/	AtMSQTsnp 373	G	22	AtMSQTsnp 373	A
(8350, 1)/	AtMSQTsnp 373	G	22	AtMSQTsnp 373	A

4.104 col id1=AtMSQTsnp 378 vs col id2=AtMSQTsnp 378

Table 616: col id1=AtMSQTsnp 378 vs col id2=AtMSQTsnp 378

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	0	0	3	1	4	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	52	0	0	0	88	2	0	0	0	0	2	0	0
G	94	0	2	0	0	91	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 617: detailed difference for col $id1{=}AtMSQTsnp$ 378 vs col $id2{=}AtMSQTsnp$ 378

	row id1	col id1	call1	row id2	col id2	call2
	(6927, 1)/KNO-10	AtMSQTsnp 378	С	3	AtMSQTsnp 378	G
	(6977, 1)/Van-0	AtMSQTsnp 378	\mathbf{C}	64	AtMSQTsnp 378	$^{\mathrm{CG}}$
	(8317, 1)/Kno-10	AtMSQTsnp 378	С	3	AtMSQTsnp 378	G
l	(8400, 1)/Van-0	AtMSQTsnp 378	\mathbf{C}	64	AtMSQTsnp 378	CG

4.105 col id1=AtMSQTsnp 379 vs col id2=AtMSQTsnp 379

Table 618: col $\mathrm{id}1{=}\mathrm{AtMSQTsnp}$ 379 vs col $\mathrm{id}2{=}\mathrm{AtMSQTsnp}$ 379

		-	NA	A	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	5	0	0	4	0	3	0	0	0	0	0	0	0
A	58	0	6	93	0	1	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	87	0	0	0	0	86	0	0	0	0	0	0	0
\mathbf{T}	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 379	A	27	AtMSQTsnp 379	G

4.106 col id1=AtMSQTsnp 38 vs col id2=AtMSQTsnp 38

Table 620: col id1=AtMSQTsnp 38 vs col id2=AtMSQTsnp 38

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	2	3	1	0	0	0	0	0	0	0	0
A	122	0	12	118	0	0	0	0	0	0	0	0	0
C	26	0	2	0	55	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
T	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.107 col id1=AtMSQTsnp 388 vs col id2=AtMSQTsnp 388

Table 621: col id1=AtMSQTsnp 388 vs col id2=AtMSQTsnp 388

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	8	0	0	2	7	0	0	0	0	0	0	0	0
A	21	0	0	47	1	0	0	0	0	0	0	0	0
\mathbf{C}	121	0	0	2	134	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
Γ	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 622: detailed difference for col $id1{=}AtMSQTsnp$ 388 vs col $id2{=}AtMSQTsnp$ 388

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 388	A	27	AtMSQTsnp 388	С
(6959, 1)/REN-1	AtMSQTsnp 388	С	47	AtMSQTsnp 388	A
(8367, 1)/Ren-1	AtMSQTsnp 388	С	47	AtMSQTsnp 388	A

4.108 col id1=AtMSQTsnp 390 vs col id2=AtMSQTsnp 390

Table 623: col id1=AtMSQTsnp 390 vs col id2=AtMSQTsnp 390

		-	NA	Α	C	G	Т	AC	\overline{AG}	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	5	0	0	0	6	0	1	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	107	0	0	0	123	0	1	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
T	38	0	0	0	0	0	60	0	0	0	0	2	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0

CG	0	0	0	0	0	0	0	0	0	0	0	0	0	
CT	0	0	0	0	0	0	0	0	0	0	0	0	0	
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 624: detailed difference for col $id1{=}AtMSQTsnp$ 390 vs col $id2{=}AtMSQTsnp$ 390

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 390	С	27	AtMSQTsnp 390	Τ
(6977, 1)/Van-0	AtMSQTsnp 390	Т	64	AtMSQTsnp 390	CT
(8400, 1)/Van-0	AtMSQTsnp 390	T	64	AtMSQTsnp 390	CT

4.109 col id1=AtMSQTsnp 392 vs col id2=AtMSQTsnp 392

Table 625: col id1=AtMSQTsnp 392 vs col id2=AtMSQTsnp 392

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	72	0	14	18	0	58	0	0	0	0	0	0	0
A	26	0	2	28	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	52	0	14	1	0	58	0	0	0	0	0	0	0
Τ	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 626: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 392 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 392

row id1	col id1	call1	row id2	col id2	call2
(6959, 1)/REN-1	AtMSQTsnp 392	G	47	AtMSQTsnp 392	A

4.110 col id1=AtMSQTsnp 394 vs col id2=AtMSQTsnp 394

Table 627: col id1=AtMSQTsnp 394 vs col id2=AtMSQTsnp 394

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	0	1	0	1	0	0	0	0	0	0	0
A	90	0	2	108	0	1	0	0	0	0	0	0	0
$^{\rm C}$	0	0	0	0	0	0	0	0	0	0	0	0	0
G	59	0	2	0	0	78	0	0	0	0	0	0	0
\mathbf{T}	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 628: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 394 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 394

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 394	Α	27	AtMSQTsnp 394	G

4.111 col id1=AtMSQTsnp 395 vs col id2=AtMSQTsnp 395

Table 629: col id1=AtMSQTsnp 395 vs col id2=AtMSQTsnp 395

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	5	0	0	4	0	2	0	0	0	0	0	0	0
A	99	0	0	114	0	0	0	0	2	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	45	0	0	0	0	71	0	0	0	0	0	0	0
T	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	1	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 630: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 395 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 395

row id1	col id1	call1	row id2	col id2	call2
(6977, 1)/Van-0	AtMSQTsnp 395	A	64	AtMSQTsnp 395	AG
(8400, 1)/Van-0	AtMSQTsnp 395	A	64	AtMSQTsnp 395	\overline{AG}

4.112 col id1=AtMSQTsnp 397 vs col id2=AtMSQTsnp 397

Table 631: col id1=AtMSQTsnp 397 vs col id2=AtMSQTsnp 397

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	0	0	0	2	0	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\rm C}$	0	0	0	0	0	0	0	0	0	0	0	0	0
G	110	0	5	0	0	129	0	0	0	0	0	0	0
\mathbf{T}	38	0	0	0	0	0	55	0	0	0	0	0	2
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	1	0	0	0	0	0	0	0	0	0	0	0	0

Table 632: detailed difference for col $\mathrm{id}1{=}\mathrm{AtMSQTsnp}$ 397 vs col $\mathrm{id}2{=}\mathrm{AtMSQTsnp}$ 397

row id1	col id1	call1	row id2	col id2	call2
(6977, 1)/Van-0	AtMSQTsnp 397	T	64	AtMSQTsnp 397	GT
(8400, 1)/Van-0	AtMSQTsnp 397	T	64	AtMSQTsnp 397	GT

4.113 col id1=AtMSQTsnp 398 vs col id2=AtMSQTsnp 398

Table 633: col $\mathrm{id}1{=}\mathrm{AtMSQTsnp}$ 398 vs col $\mathrm{id}2{=}\mathrm{AtMSQTsnp}$ 398

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	22	0	0	0	23	28	0	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
\sim	63	0	0	0	67	0	0	0	0	0	0	0	0
G	65	0	0	0	1	74	0	0	0	0	0	0	0
Γ	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0

CG	0	0	0	0	0	0	0	0	0	0	0	0	0	
CT	0	0	0	0	0	0	0	0	0	0	0	0	0	
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 634: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 398 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 398

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 398	G	27	AtMSQTsnp 398	С

4.114 col id1=AtMSQTsnp 399 vs col id2=AtMSQTsnp 399

Table 635: col $\mathrm{id}1{=}\mathrm{AtMSQTsnp}$ 399 vs col $\mathrm{id}2{=}\mathrm{AtMSQTsnp}$ 399

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	0	4	0	2	0	0	0	0	0	0	0
A	92	0	0	119	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	53	0	0	0	0	68	0	0	0	0	0	0	0
T	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	1	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.115 col id1=AtMSQTsnp 4 vs col id2=AtMSQTsnp 4

Table 636: col id1=AtMSQTsnp 4 vs col id2=AtMSQTsnp 4

		-	NA	Α	С	G	Т	AC	\overline{AG}	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	5	0	0	4	1	0	0	0	0	0	0	0	0
A	54	0	2	71	0	0	0	0	0	0	0	0	0
\mathbf{C}	94	0	0	0	112	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
T	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

$4.116 \quad {\rm col~id1}{=}AtMSQTsnp~40~vs~col~id2{=}AtMSQTsnp~40$

Table 637: col id1=AtMSQTsnp 40 vs col id2=AtMSQTsnp 40

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	5	0	0	0	6	0	0	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	102	0	0	0	99	1	0	0	0	0	0	0	0
\mathbf{G}	43	0	0	0	0	87	0	0	0	0	0	0	0
\mathbf{T}	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 638: detailed difference for col id1=AtMSQTsnp 40 vs col id2=AtMSQTsnp 40

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 40	С	27	AtMSQTsnp 40	G

4.117 col id1=AtMSQTsnp 404 vs col id2=AtMSQTsnp 404

Table 639: col id1=AtMSQTsnp 404 vs col id2=AtMSQTsnp 404

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	0	0	3	0	3	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	88	0	0	0	105	0	0	0	0	0	0	0	0
\mathbf{G}	0	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	60	0	2	0	0	0	80	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.118 col id1=AtMSQTsnp 406 vs col id2=AtMSQTsnp 406

Table 640: col id1=AtMSQTsnp 406 vs col id2=AtMSQTsnp 406

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	85	0	0	66	0	30	0	0	0	0	0	0	0
\mathbf{A}	43	0	0	65	0	1	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	22	0	0	0	0	31	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 641: detailed difference for col $\mathrm{id}1\mathrm{=}A\mathrm{tMSQTsnp}$ 406 vs col $\mathrm{id}2\mathrm{=}A\mathrm{tMSQTsnp}$ 406

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 406	A	27	AtMSQTsnp 406	G

4.119 col id1=AtMSQTsnp 408 vs col id2=AtMSQTsnp 408

Table 642: col id1=AtMSQTsnp 408 vs col id2=AtMSQTsnp 408

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	0	1	0	1	0	0	0	0	0	0	0
A	77	0	5	107	0	1	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	71	0	0	0	0	78	0	0	0	0	0	0	0
\mathbf{T}	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0

CG	0	0	0	0	0	0	0	0	0	0	0	0	0	
CT	0	0	0	0	0	0	0	0	0	0	0	0	0	
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 643: detailed difference for col $id1{=}AtMSQTsnp$ 408 vs col $id2{=}AtMSQTsnp$ 408

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 408	A	27	AtMSQTsnp 408	G

4.120 col id1=AtMSQTsnp 409 vs col id2=AtMSQTsnp 409

Table 644: col id1=AtMSQTsnp 409 vs col id2=AtMSQTsnp 409

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	17	0	1	0	26	0	21	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	79	0	0	0	91	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
T	54	0	1	0	0	0	53	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{AG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.121 col id1=AtMSQTsnp 41 vs col id2=AtMSQTsnp 41

Table 645: col id1=AtMSQTsnp 41 vs col id2=AtMSQTsnp 41

		-	NA	Α	С	G	T	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	11	0	1	0	24	0	21	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
С	75	0	1	0	86	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
$\mid T \mid$	63	0	0	0	0	0	60	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

$4.122 \quad {\rm col~id1}{=} AtMSQTsnp~410~vs~col~id2{=} AtMSQTsnp~410$

Table 646: col id1=AtMSQTsnp 410 vs col id2=AtMSQTsnp 410

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	0	3	0	2	0	0	0	0	0	0	0
A	98	0	0	101	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	49	0	0	1	0	82	0	0	2	0	0	0	0
\mathbf{T}	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	1	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 647: detailed difference for col $id1{=}AtMSQTsnp$ 410 vs col $id2{=}AtMSQTsnp$ 410

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 410	G	27	AtMSQTsnp 410	A
(6977, 1)/Van-0	AtMSQTsnp 410	G	64	AtMSQTsnp 410	AG
(8400, 1)/Van-0	AtMSQTsnp 410	G	64	AtMSQTsnp 410	AG

4.123 col id1=AtMSQTsnp 412 vs col id2=AtMSQTsnp 412

Table 648: col id1=AtMSQTsnp 412 vs col id2=AtMSQTsnp 412

		-	NA	A	С	G	T	AC	AG	AT	$^{\mathrm{CG}}$	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	7	0	0	4	0	0	3	0	0	0	0	0	0
A	101	0	4	125	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
Γ	44	0	0	0	0	0	55	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.124 col id1=AtMSQTsnp 415 vs col id2=AtMSQTsnp 415

Table 649: col id1=AtMSQTsnp 415 vs col id2=AtMSQTsnp 415

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	3	0	2	2	0	2	0	0	0	0	0	0	0
A	52	0	17	58	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	95	0	46	2	0	64	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 650: detailed difference for col $id1{=}AtMSQTsnp$ 415 vs col $id2{=}AtMSQTsnp$ 415

row id1	col id1	call1	row id2	col id2	call2
(6907, 1)/CIBC-17	AtMSQTsnp 415	G	40	AtMSQTsnp 415	A
(8276, 1)/CIBC-17	AtMSQTsnp 415	G	40	AtMSQTsnp 415	A

4.125 col id1=AtMSQTsnp 47 vs col id2=AtMSQTsnp 47

Table 651: col id1=AtMSQTsnp 47 vs col id2=AtMSQTsnp 47

		-	NA	Α	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	86	0	1	60	35	0	0	0	0	0	0	0	0
A	46	0	0	60	0	0	0	0	0	0	0	0	0
\mathbf{C}	21	0	1	0	33	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
T	0	0	0	0	0	0	0	0	0	0	0	0	0

AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.126 col id1=AtMSQTsnp 48 vs col id2=AtMSQTsnp 48

Table 652: col id1=AtMSQTsnp 48 vs col id2=AtMSQTsnp 48

		-	NA	Α	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	5	0	0	0	3	0	2	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
C	102	0	2	0	122	0	1	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
Γ	43	0	4	0	0	0	59	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 653: detailed difference for col id1=AtMSQTsnp 48 vs col id2=AtMSQTsnp 48

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 48	С	27	AtMSQTsnp 48	Т

4.127 col id1=AtMSQTsnp 49 vs col id2=AtMSQTsnp 49

Table 654: col id1=AtMSQTsnp 49 vs col id2=AtMSQTsnp 49

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	0	0	3	0	1	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	72	0	0	0	63	0	1	0	0	0	0	0	0
\mathbf{G}	0	0	0	0	0	0	0	0	0	0	0	0	0
${f T}$	77	6	4	0	0	0	115	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 655: detailed difference for col id1=AtMSQTsnp 49 vs col id2=AtMSQTsnp 49

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 49	С	27	AtMSQTsnp 49	Т

4.128 col id1=AtMSQTsnp 53 vs col id2=AtMSQTsnp 53

Table 656: col id1=AtMSQTsnp 53 vs col id2=AtMSQTsnp 53

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	5	0	1	0	2	0	1	0	0	0	0	0	0

A	0	0	0	0	0	0	0	0	0	0	0	0	0	
C	65	0	1	0	70	0	0	0	0	0	0	0	0	
G	0	0	0	0	0	0	0	0	0	0	0	0	0	
Γ	95	0	11	0	0	0	92	0	0	0	0	0	0	
AC	0	0	0	0	0	0	0	0	0	0	0	0	0	
AG	0	0	0	0	0	0	0	0	0	0	0	0	0	
AT	0	0	0	0	0	0	0	0	0	0	0	0	0	
CG	0	0	0	0	0	0	0	0	0	0	0	0	0	
CT	0	0	0	0	0	0	0	0	0	0	0	0	0	
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	

4.129 col id1=AtMSQTsnp 54 vs col id2=AtMSQTsnp 54

Table 657: col id1=AtMSQTsnp 54 vs col id2=AtMSQTsnp 54

		-	NA	A	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	3	0	0	4	0	5	0	0	0	0	0	0	0
A	82	0	0	116	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	63	0	0	0	0	68	0	0	0	0	0	0	0
\mathbf{T}	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	2	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.130 col id1=AtMSQTsnp 57 vs col id2=AtMSQTsnp 57

Table 658: col id1=AtMSQTsnp 57 vs col id2=AtMSQTsnp 57

		-	NA	A	С	G	T	AC	AG	AT	$^{\mathrm{CG}}$	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	1	0	3	0	1	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	44	0	0	0	50	0	1	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	99	0	0	0	0	0	136	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	3	0	1	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 659: detailed difference for col id1=AtMSQTsnp 57 vs col id2=AtMSQTsnp 57

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 57	С	27	AtMSQTsnp 57	T

4.131 col id1=AtMSQTsnp 58 vs col id2=AtMSQTsnp 58

Table 660: col id1=AtMSQTsnp 58 vs col id2=AtMSQTsnp 58

		-	NA	A	С	G	Т	AC	\overline{AG}	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	85	0	0	0	60	35	0	0	0	0	2	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
C	44	0	0	0	61	1	0	0	0	0	0	0	0
G	21	0	0	0	0	34	0	0	0	0	0	0	0
T	0	0	0	0	0	0	0	0	0	0	0	0	0

AC	0	0	0	0	0	0	0	0	0	0	0	0	0	1
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0	
AT	0	0	0	0	0	0	0	0	0	0	0	0	0	
CG	0	0	0	0	0	0	0	0	0	0	0	0	0	
CT	0	0	0	0	0	0	0	0	0	0	0	0	0	
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 661: detailed difference for col id1=AtMSQTsnp 58 vs col id2=AtMSQTsnp 58

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 58	С	27	AtMSQTsnp 58	G

4.132 col id1=AtMSQTsnp 60 vs col id2=AtMSQTsnp 60

Table 662: col id1=AtMSQTsnp 60 vs col id2=AtMSQTsnp 60

		-	NA	Α	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	85	1	4	62	0	0	30	0	0	0	0	0	0
\mathbf{A}	48	1	2	59	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{G}	0	0	0	0	0	0	0	0	0	0	0	0	0
${f T}$	17	0	2	0	0	0	32	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.133 col id1=AtMSQTsnp 61 vs col id2=AtMSQTsnp 61

Table 663: col id1=AtMSQTsnp 61 vs col id2=AtMSQTsnp 61

		-	NA	Α	С	G	Т	AC	\overline{AG}	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	76	0	17	0	55	0	25	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	52	0	7	0	63	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
Γ	20	0	1	0	0	0	25	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{AG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	2	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.134 col id1=AtMSQTsnp 62 vs col id2=AtMSQTsnp 62

Table 664: col id1=AtMSQTsnp 62 vs col id2=AtMSQTsnp 62

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	0	4	0	2	0	0	0	0	0	0	0
A	111	0	0	125	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
G	35	0	0	0	0	62	0	0	0	0	0	0	0
$\mid T \mid$	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0

CT	0	0	0	0	0	0	0	0	0	0	$\begin{bmatrix} 0 \\ 0 \end{bmatrix}$	0	0	
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	İ

4.135 col id1=AtMSQTsnp 63 vs col id2=AtMSQTsnp 63

Table 665: col id1=AtMSQTsnp 63 vs col id2=AtMSQTsnp 63

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	9	0	1	5	3	0	0	0	0	0	0	0	0
A	57	0	0	62	0	0	0	2	0	0	0	0	0
$^{\rm C}$	110	0	16	0	77	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
T	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	1	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 666: detailed difference for col id1=AtMSQTsnp 63 vs col id2=AtMSQTsnp 63

row id1	col id1	call1	row id2	col id2	call2
(6977, 1)/Van-0	AtMSQTsnp 63	A	64	AtMSQTsnp 63	AC
(8400, 1)/Van-0	AtMSQTsnp 63	A	64	AtMSQTsnp 63	AC

4.136 col id1=AtMSQTsnp 65 vs col id2=AtMSQTsnp 65

Table 667: col id1=AtMSQTsnp 65 vs col id2=AtMSQTsnp 65

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	0	3	0	2	0	0	1	0	0	0	0
A	109	0	0	122	0	0	0	0	1	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
G	39	0	0	0	0	64	0	0	0	0	0	0	0
T	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\mathrm{CG}}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 668: detailed difference for col id1=AtMSQTsnp 65 vs col id2=AtMSQTsnp 65

	row id1	col id1	call1	row id2	col id2	call2
Ì	(8400_1)/Van-0	AtMSOTsnn 65	Δ	64	AtMSOTsnn 65	AG

4.137 col id1=AtMSQTsnp 67 vs col id2=AtMSQTsnp 67

Table 669: col id1=AtMSQTsnp 67 vs col id2=AtMSQTsnp 67

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	84	0	1	42	0	51	0	0	0	0	0	0	0
A	28	0	0	46	0	1	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	38	0	1	0	0	51	0	0	0	0	0	0	0

$\mid T \mid$	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 670: detailed difference for col id1=AtMSQTsnp 67 vs col id2=AtMSQTsnp 67

	row id1	col id1	call1	row id2	col id2	call2
Ì	(5837, 1)/Bor-1	AtMSQTsnp 67	A	27	AtMSQTsnp 67	G

4.138 col id1=AtMSQTsnp 69 vs col id2=AtMSQTsnp 69

Table 671: col id1=AtMSQTsnp 69 vs col id2=AtMSQTsnp 69

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	0	0	0	3	0	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
С	0	0	0	0	0	0	0	0	0	0	0	0	0
G	81	0	2	0	0	120	0	0	0	0	0	0	0
${ m T}$	68	0	6	0	0	0	62	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.139 col id1=AtMSQTsnp 73 vs col id2=AtMSQTsnp 73

Table 672: col id1=AtMSQTsnp 73 vs col id2=AtMSQTsnp 73

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	17	0	0	0	16	0	10	0	0	0	0	0	0
\mathbf{A}	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	41	0	0	0	67	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	92	0	0	0	0	0	100	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.140 col id1=AtMSQTsnp 76 vs col id2=AtMSQTsnp 76

Table 673: col id1=AtMSQTsnp 76 vs col id2=AtMSQTsnp 76

		-	NA	A	С	G	Т	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	1	0	0	0	3	0	1	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	53	0	2	0	57	0	1	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
${ m T}$	96	0	4	0	0	0	125	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0

CG	0	0	0	0	0	0	0	0	0	0	0	0	0	
CT	0	0	0	0	0	0	0	0	0	0	0	0	0	
GT	0	0	0	0	0	0	0	0	0	0	0	0	0	

Table 674: detailed difference for col id1=AtMSQTsnp 76 vs col id2=AtMSQTsnp 76

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 76	С	27	AtMSQTsnp 76	Т

4.141 col id1=AtMSQTsnp 8 vs col id2=AtMSQTsnp 8

Table 675: col id1=AtMSQTsnp 8 vs col id2=AtMSQTsnp 8

		-	NA	A	С	G	Т	AC	\overline{AG}	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	2	0	2	6	0	0	0	0	0	0	0	0	0
A	115	0	29	106	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
G	33	0	6	0	0	42	0	0	2	0	0	0	0
T	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
$^{\rm CG}$	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 676: detailed difference for col id1=AtMSQTsnp 8 vs col id2=AtMSQTsnp 8

	row id1	col id1	call1	row id2	col id2	call2
ſ	(6977, 1)/Van-0	AtMSQTsnp 8	G	64	AtMSQTsnp 8	AG
	(8400, 1)/Van-0	AtMSQTsnp 8	G	64	AtMSQTsnp 8	\overline{AG}

4.142 col id1=AtMSQTsnp 85 vs col id2=AtMSQTsnp 85

Table 677: col id1=AtMSQTsnp 85 vs col id2=AtMSQTsnp 85

		-	NA	A	С	G	Τ	AC	AG	AT	CG	СТ	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	3	0	1	5	0	0	1	0	0	0	0	0	0
A	125	0	9	112	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
Τ	26	0	2	0	0	0	59	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

4.143 col id1=AtMSQTsnp 87 vs col id2=AtMSQTsnp 87

Table 678: col id1=AtMSQTsnp 87 vs col id2=AtMSQTsnp 87

		-	NA	Α	С	G	Τ	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	18	0	0	0	23	0	38	0	0	0	0	1	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
С	74	0	0	0	85	0	0	0	0	0	0	1	0

G	0	0	0	0	0	0	0	0	0	0	0	0	0
Γ	60	0	0	0	0	0	43	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 679: detailed difference for col $\mathrm{id}1\mathrm{=}At\mathrm{MSQTsnp}$ 87 vs col $\mathrm{id}2\mathrm{=}At\mathrm{MSQTsnp}$ 87

row id1	col id1	call1	row id2	col id2	call2
(8400, 1)/Van-0	AtMSQTsnp 87	С	64	AtMSQTsnp 87	CT

4.144 col id1=AtMSQTsnp 88 vs col id2=AtMSQTsnp 88

Table 680: col id1=AtMSQTsnp 88 vs col id2=AtMSQTsnp 88

		-	NA	A	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	0	3	0	1	0	0	0	0	0	0	0
\mathbf{A}	49	0	0	45	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	105	0	10	1	0	125	0	0	0	0	0	0	0
${\rm T}$	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 681: detailed difference for col $\mathrm{id}1\mathrm{=}At\mathrm{MSQTsnp}$ 88 vs col $\mathrm{id}2\mathrm{=}At\mathrm{MSQTsnp}$ 88

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 88	G	27	AtMSQTsnp 88	A

4.145 col id1=AtMSQTsnp 9 vs col id2=AtMSQTsnp 9

Table 682: col id1=AtMSQTsnp 9 vs col id2=AtMSQTsnp 9

		-	NA	Α	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	10	0	0	0	0	6	3	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	57	0	0	0	0	90	0	0	0	0	0	0	0
${ m T}$	84	0	2	0	0	0	89	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	2	0	0	0	0	0	0	0	0	0	0	0	0

4.146 col id1=AtMSQTsnp 90 vs col id2=AtMSQTsnp 90

Table 683: col id1=AtMSQTsnp 90 vs col id2=AtMSQTsnp 90

ĺ		-	NA	A	С	G	T	AC	AG	AT	CG	CT	GT
	0	0	NA 0	0	0	0	0	0	0	0	0	0	0

-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	4	0	0	0	1	0	5	0	0	0	0	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
\mathbf{C}	47	0	0	0	70	0	0	0	0	0	0	2	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0
T	98	0	4	0	0	0	111	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
AG	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	1	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 684: detailed difference for col id1=AtMSQTsnp 90 vs col id2=AtMSQTsnp 90

row id1	col id1	call1	row id2	col id2	call2
(6977, 1)/Van-	AtMSQTsnp 90	С	64	AtMSQTsnp 90	CT
(8400, 1)/Van-	AtMSQTsnp 90	C	64	AtMSQTsnp 90	CT

$4.147 \quad {\rm col~id1}{=} AtMSQTsnp~91~vs~col~id2{=}AtMSQTsnp~91$

Table 685: col id1=AtMSQTsnp 91 vs col id2=AtMSQTsnp 91

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	86	0	0	48	0	47	0	0	0	0	0	0	0
A	27	0	0	47	0	1	0	0	0	0	0	0	0
\mathbf{C}	0	0	0	0	0	0	0	0	0	0	0	0	0
G	37	0	0	0	0	50	0	0	0	0	0	0	0
${ m T}$	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 686: detailed difference for col $\mathrm{id}1\mathrm{=}\mathrm{AtMSQTsnp}$ 91 vs col $\mathrm{id}2\mathrm{=}\mathrm{AtMSQTsnp}$ 91

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 91	A	27	AtMSQTsnp 91	G

4.148 col id1=AtMSQTsnp 92 vs col id2=AtMSQTsnp 92

Table 687: col id1=AtMSQTsnp 92 vs col id2=AtMSQTsnp 92

		-	NA	Α	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
_	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	106	0	5	17	0	52	0	0	0	0	0	0	0
A	35	0	4	19	0	1	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0
G	53	0	4	0	0	47	0	0	0	0	0	0	0
\mathbf{T}	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	0	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 688: detailed difference for col id1=AtMSQTsnp 92 vs col id2=AtMSQTsnp 92

1	ow id1	col id1	call1	row id2	col id2	call2
((5837, 1)/Bor-1	AtMSQTsnp 92	A	27	AtMSQTsnp 92	G

4.149 col id1=AtMSQTsnp 97 vs col id2=AtMSQTsnp 97

Table 689: col id1=AtMSQTsnp 97 vs col id2=AtMSQTsnp 97

		-	NA	A	С	G	Т	AC	AG	AT	CG	CT	GT
	0	0	0	0	0	0	0	0	0	0	0	0	0
-	0	0	0	0	0	0	0	0	0	0	0	0	0
NA	11	0	0	0	2	16	0	0	0	0	1	0	0
A	0	0	0	0	0	0	0	0	0	0	0	0	0
C	82	0	0	0	112	2	0	0	0	0	3	0	0
G	62	0	0	0	0	49	0	0	0	0	0	0	0
T	0	0	0	0	0	0	0	0	0	0	0	0	0
AC	0	0	0	0	0	0	0	0	0	0	0	0	0
\overline{AG}	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	0	0	0	0	0	0	0	0	0	0	0	0	0
CG	3	0	0	0	0	0	0	0	0	0	0	0	0
CT	0	0	0	0	0	0	0	0	0	0	0	0	0
GT	0	0	0	0	0	0	0	0	0	0	0	0	0

Table 690: detailed difference for col $id1{=}AtMSQTsnp$ 97 vs col $id2{=}AtMSQTsnp$ 97

row id1	col id1	call1	row id2	col id2	call2
(5837, 1)/Bor-1	AtMSQTsnp 97	С	27	AtMSQTsnp 97	G
(6939, 1)/Mt-0	AtMSQTsnp 97	C	79	AtMSQTsnp 97	G
(6977, 1)/Van-0	AtMSQTsnp 97	C	64	AtMSQTsnp 97	CG
(8293, 1)/F4	AtMSQTsnp 97	C	14	AtMSQTsnp 97	CG
(8400, 1)/Van-0	AtMSQTsnp 97	C	64	AtMSQTsnp 97	CG