

Supplemental Table 2. *bztac7077 recombination in bz-m2(D1) Ac7077/Bz-B73 + heterozygotes*

Polymorphism & detection method	Primers	Polymorphisms between Ac7077 and B73
		<i>Ds2(D1)</i> in <i>bz</i> exon2 @ 336
Tour <i>Zm7</i> & <i>Ins4</i> MITEs by 1% agarose	<i>bz</i> -H1 + <i>bz</i> -H3	Ac7077 MITEs in <i>bz-stc1</i> IGR @ 1146-1847
Ac7077 <i>bz-stc1</i> IGR by 1% agarose	<i>bz</i> -H1 + <i>stc1</i> -H1	Ac7077 <i>bz-stc1</i> IGR; no Tekay @ 2690
MITE <i>Ins6</i> by 1% agarose	<i>stc1</i> -H6F1 + <i>stc1</i> -H6R1	<i>Ins6</i> in <i>stc1</i> intr. 3 @ 5270
Indel @ 6500 by sequencing	<i>stc1</i> -RSF6F + <i>stc1</i> RSR2	3-bp indel in <i>stc1</i> exon 2 @ 6500
Indel @ 7436 by sequencing		9-bp indel in <i>stc1-rpl</i> IGR @ 7436
3 SNPs @ primer site by 1% agarose	<i>stc1</i> -PF4 + L <i>hrpl</i> -R4	SNPs @ 7500-7575 in <i>stc1-rpl35A</i> IGR
Indel @ 7740 by 1% agarose	<i>stc1</i> -PF4+ <i>rpl35A</i> -R1	Indel @ 7740 in <i>stc1-rpl35A</i> IGR
SNP @ 11707 (BglII) by 1% agarose	<i>rpl35A</i> -4 + <i>tac6058</i> -2/Bgl II	SNP @ 11707 (BglII) in <i>tac6058</i>
SNP @ 12721 (SphI) by 8% PAGE	L <i>htac6058</i> + L <i>hihpR4/SphI</i>	SNP @ 12721 (SphI) in <i>hypro1</i>
<i>Ins11</i> @ 14400 by 1% agarose	1 <i>hp8</i> + L <i>h1hp-R1</i>	<i>Ins11</i> @ 14400 in B <i>hypro1-znf</i> IGR
MITE Tourist <i>Zm10</i> @ 15833-16014 by 1%	<i>zm20F1</i> + R1	Tourist- <i>Zm10</i> @ 15833 in M <i>hypro1-znf</i> IGR
<i>Ins7</i> @ 17570-17980 by 1% agarose	<i>zm3F2</i> + <i>zm3R2</i>	<i>Ins7</i> @ 17570 in M <i>hypro1-znf</i> IGR
SNP @ 81935 by 1% agarose	<i>znf-F2</i> + <i>zngfR1</i> SNP in <i>zngfR1</i> primer	SNP @ 81935 in <i>znf</i>
Indel @ 82753 by 8% PAGE	1st: <i>znf-hAT-F3+R3</i> 2nd: <i>znf-hAT-F1+R1</i>	Indel @ 82753 beyond <i>znf</i> polyA
Indel @ 82924 & SNP @ 83020 by sequencing	<i>znf-hAT-F3+R3</i>	Indel @ 82924 & SNP @ 83020 3' of <i>znf</i>
SNP @ 83268 by sequencing	<i>znf-hAT-R3rev+znf-F5Rev</i>	SNP @ 83268 in <i>znf-Grande1</i> IGR
SNP @ 84000 by sequencing	<i>znf-F5+znf-3-R1</i>	SNP @ 84000 in <i>znf-Grande1</i> IGR
SNP @ 98132 by sequencing	G <i>tacF3+GtacR3</i>	SNP @ 98132
Indel @ 98868 by 8% PAGE	B <i>73tac7077F2+B73tac7077R1</i>	Indel @ 98868
Ac7077 insertion site @ 92240 by 1% agarose	tac7077F1+Ac4372	Ac7077 @ 99240

A= Ac7077 marker; B = B73 marker

Supplemental Table 2. *bz-tac7077* recombination in *bz-m2(D1)* *Ac7077/Bz-B73* + heterozygotes

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Polymorphisms between Ac7077 and B73											
D4268-13-2	A	A	A	A	A	A	A	A	A	B	B
D4268-17-1	A	A	A	A	A	A	A	A	A	B	B
D4268-30	A	A	A	A	A	A	A	A	A	B	B
D4269-3-4	A	A	A	A	A	A	X	A	A	B	B
D4269-16-3	A	A	A	A	A	A	A	A	B	B	B
Subtotal (SNP-11710--SNP-12725)											
D4269-13	A	A	A	A	A	A	A	A	B	B	B
D4268-14-2	A	A	A	A	A	A	A	A	B	B	B
Subtotal (MITE-16850--MITE-17590)											
D4267-5-2	A	A	A	A	A	A	A	A	B	B	-
D4267-10-2	A	A	A	A	A	A	A	A	B	B	-
D4269-3-5	A	A	A	A	A	A	A	A	B	B	-
Subtotal (SNP-81962--SNP-82780)											
D4269-47	A	A	A	A	A	A	A	A	B	B	B
Subtotal (SNP-83034--SNP-83290)											
D4268-2-2	A	A	A	A	A	X	A	A	A	B	B
D4267-1-1	-	A	A	A	A	A	A	A	A	B	B
D4269-11	A	A	A	A	A	X	A	A	A	B	B
D4269-14	-	X	A	A	A	X	A	A	A	B	B
D4269-20	A	A	A	A	A	A	A	A	A	B	B
D4269-22-3	A	A	A	A	A	A	A	A	A	B	B
D4269-30-2	A	A	A	A	A	A	A	A	A	B	B
D4269-9-2	A	A	A	A	A	A	A	A	B	B	-
D4269-35	A	X	A	A	A	A	X	A	B	B	-
D4269-42	A	X	X	A	A	A	X	A	B	B	-
Subtotal (SNP-83290--SNP-84031)											
D4267-5-1	A	A	A	A	A	A	A	A	B	B	-
D4267-5-6	A	A	A	A	A	A	A	A	B	B	-
D4268-14-3	A	A	A	A	A	A	A	A	B	B	-
D4268-15-3	A	A	A	A	A	A	A	A	B	B	-
D4268-21-1	A	A	A	A	A	X	A	A	B	B	-
D4268-24-1	A	A	A	A	A	A	A	A	B	B	-
D4268-18-3	A	A	A	A	A	A	A	A	B	B	-
D4269-6-1	A	A	A	A	A	A	A	A	B	B	-
D4269-16-1	A	A	A	A	A	A	A	A	B	B	-
D4269-24-1	A	A	A	A	A	A	A	A	B	B	-
D4269-26-1	A	A	A	A	A	A	A	A	B	B	-
Subtotal (SNP-84031--SNP 252 bp beyond Grande1 3TSD)											
D4268-17-2	A	A	A	A	A	A	A	A	B	-	
Subtotal (SNP 252 bp beyond Grande1 -Indel- 100643)											
Total	0	0	15	31	0	2	0	5	5	0	2
Subtotal (Ac7077 insertion @ 101034)	0	0	1	10	11	1	1	1	1	1	1

A = Ac7077 marker; B = B73 marker