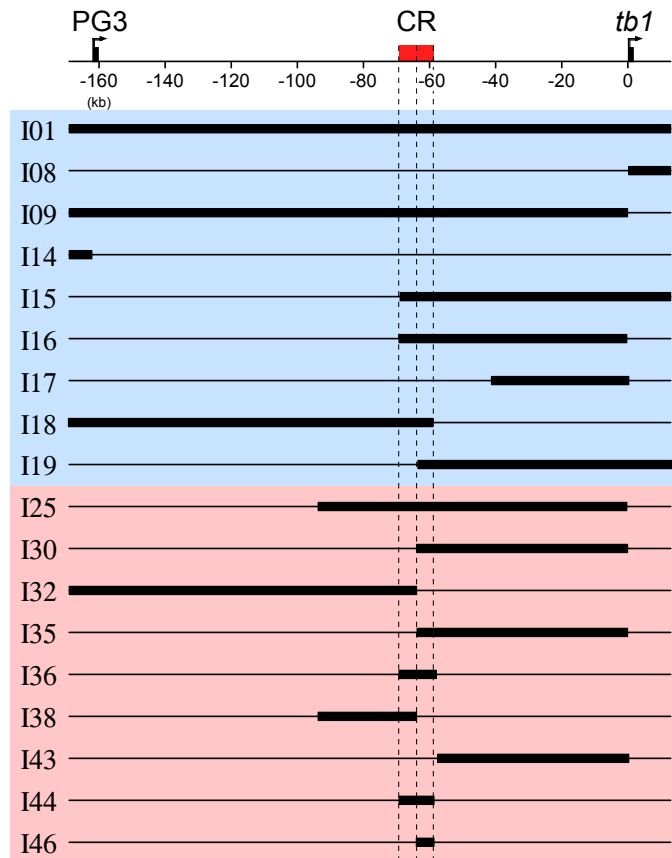
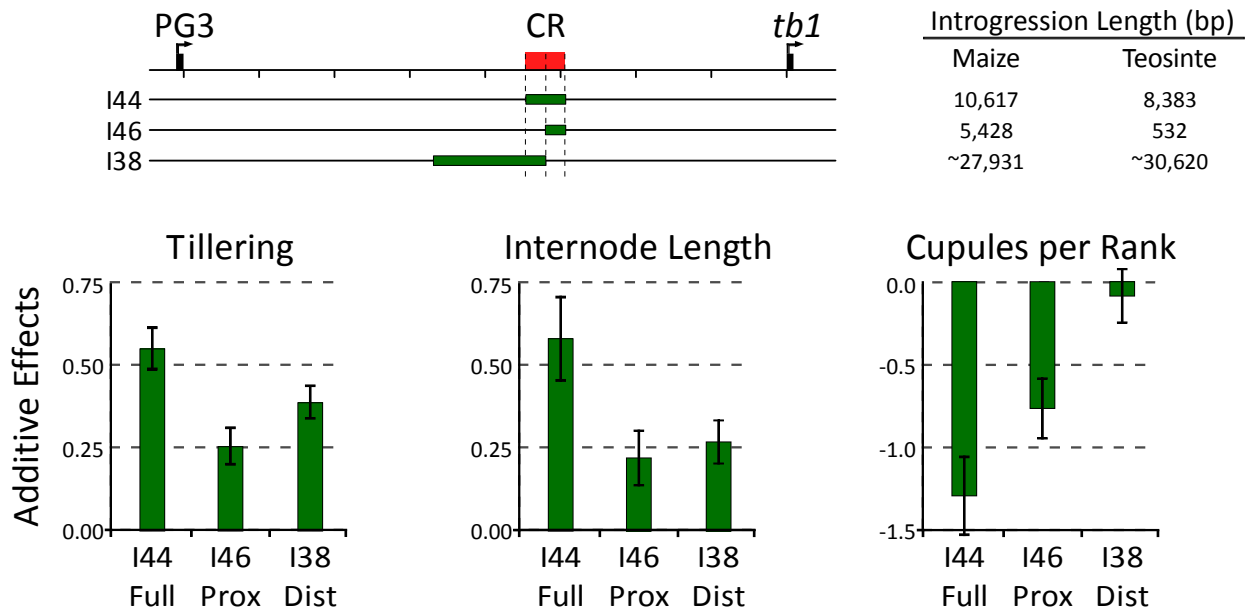


Supplementary Figure 1: *tb1* locus teosinte recombinant chromosomes. The horizontal axis represents the *tb1* genomic region to scale. Base-pair positions are relative to AGPv2 position 265,745,977 of the maize reference genome sequence. The *tb1* ORF as well as the nearest upstream predicted gene (PG3) are shown. The previously defined control region (CR) is shown in red, and is divided into its proximal and distal components. Thick black lines represent teosinte chromosome segments and narrow lines represent maize chromosome segments. Introgression lines with blue background shading were developed and described previously. Introgression lines with red background shading were developed during the course of this study.



Supplementary Figure 2: Phenotypic additive effects for the smallest introgression segments.

Three introgression segments are compared. These introgression segments include the full control region (I44), the proximal component only (I46), and the distal component only (I38). The length of each introgressed segment is included for the both the corresponding maize and teosinte alleles. The size of the introgression segments vary between maize and teosinte because of insertion/deletion polymorphisms. Additive effects for each of the introgression segments are shown with standard errors. These effects highlight the independent phenotypic contribution of both the proximal and distal components of the control region (CR).



Supplementary Table 1. AGPv2 position of introgression line crossovers.

Introgression	5' Crossover	3' Crossover
I01	197,055,807 – 214,414,551	273,901,402 – 275,036,633
I08	265,745,913 – 265,746,221	273,901,402 – 275,036,633
I09	197,055,807 – 214,414,551	265,745,913 – 265,746,221
I14	197,055,807 – 214,414,551	265,591,417 – 265,592,617
I15	265,676,915 – 265,677,031	273,901,402 – 275,036,633
I16	265,676,590 – 265,676,675	265,746,271 – 265,746,677
I17	265,703,969 – 265,705,220	265,746,271 – 265,746,677
I18	197,055,807 – 214,414,551	265,687,315 – 265,687,481
I19	265,682,026 – 265,682,152	273,901,402 – 275,036,633
I25	265,652,617 – 265,676,590	265,746,271 – 265,746,677
I30	265,681,922 – 265,681,988	265,745,913 – 265,746,221
I32	197,055,807 – 214,414,551	265,682,026 – 265,682,152
I35	265,682,026 – 265,682,152	265,745,913 – 265,746,221
I36	265,676,915 – 265,676,675	265,687,961 – 265,687,993
I38	265,652,617 – 265,676,590	265,682,026 – 265,682,152
I43	265,688,376 – 265,688,411	265,746,271 – 265,746,677
I44	265,676,682 – 265,676,732	265,687,315 – 265,687,481
I46	265,681,598 – 265,681,922	265,687,315 – 265,687,481

Supplementary Table 2. Primer sequences of markers used for genotyping and detecting transposon insertions.

a.	Primer Name	Primer Sequence (5' to 3')	AGPv2 Position
	GS1-F	ACACCGCCACCGACATCT	265,591,673 – 265,591,691
	GS1-R	TTGTCCCTGAACGGCCAATA	265,591,225 – 265,591,246
	GS2-F	TGGCCAATAAATGTACTAGGTCAC	265,745,428 – 265,745,452
	GS2-R	TGATCATACCACCTCTCTATGCAG	265,745,748 – 265,745,771
	GS3-F	CATGAACATGCCGTGTGCT	265,747,137 – 265,747,160
	GS3-R	TTCTAGTACCTAGTGCGCCCGTAG	2656,81,833 – 265,681,851
	GS4-F	AGTAGGCCATAGTACGTAC	2656,81,833 – 265,681,851
	GS4-R	CTCTTTACCGAGCCCCTACA	2656,82,188 – 265,682,208
	GS5-F	AGTGGACAACCGAACGAAGA	2656,88,987 – 265,689,006
	GS5-R	GAAGCAACTATCAACACAAGCCTT	2656,89,395 – 265,689,418
	GS6-F	TGTTGTTGGTGTGGAGTCG	2656,87,243 – 265,687,262
	GS6-R	CGTGTGTGTGATCGAATGGT	2656,87,542 – 265,687,562
	GS7-F	AGCCAGGATCAATGGCATAC	2656,78,681 – 265,678,700
	GS7-R	AGCAAAGGGCATGTGTTACC	2656,78,840 – 265,678,859
	GS8-F	GTTAACCATGAGACGGCCAC	2656,76,101 – 265,676,121
	GS8-R	GTCAGAATCCCCTGCTCG	2656,76,713 – 265,676,730
b.	Primer Name	Primer Sequence (5' to 3')	AGPv2 Position
	FM-F0372	ACCAGCAAGCAGCAAGAAAT	265,681,083 – 265,681,102
	IM-R0375	TTGAGTGTCGCCTAGACTGC	265,681,658 – 265,681,677
	RM-R0377	CCTACTTTTTTCATCTCCCGC	265,681,447 – 265,681,466
	FH-F0378	CTGCGATGATGCAAGGAGTA	265,682,162 – 265,682,181
	IH-R0379	CTCAATGCATGCCGTTATTG	265,687,383 – 265,687,402
	RH-R0381	CGTTGTCGACAGTCTCCTCA	265,682,682 – 265,682,700

Supplementary Table 3. AGPv2 positions of the intervals used in the mixed linear model.

Interval	AGPv2 Position
1	197,055,807 – 265,652,616
2	265,652,617 – 265,676,589
3	265,676,590 – 265,682,025
4	265,682,026 – 265,687,993
5	265,687,994 – 265,745,912
6	265,745,913 – 265,746,677
7	265,746,678 – 275,036,633

Supplementary Table 4. Input values used to perform the HKA tests.

Loci ^a	S ^b	L ^c	N ^d	K ^e
AY104395	10	477	11	4.909
AY106816	39	532	13	37.615
AY107192	13	495	14	6.286
AY107248	21	538	14	7.286
AY111546	4	674	15	3.000
AY111711	26	528	15	13.200
Segment A	40	740	16	15.688
Segment B	89	1086	16	80.938
Segment C	20	1723	15	35.267
Segment D	9	1392	16	47.313

^aSix neutral loci and four segments tested in this paper (Fig. 3a).

^bNumber of segregating sites.

^cNumber of total sites excluding gaps.

^dSample size.

^eAverage nucleotide difference.

Supplementary Table 5. Germplasm assayed for transposon insertions.

Germplasm Type	Racename	Source ^a	Accession	<i>Tourist</i> ^b	<i>Hopscotch</i> ^b
Maize Landrace*	Assiniboine	NCRPIS	PI213793	M	M
Maize Landrace*	Bolita	INIFAP	OAX68	M	M
Maize Landrace*	Cateto Sulino	CIMMYT	URG II	M	M
Maize Landrace*	Chalqueno	INIFAP	MEX48	M	M
Maize Landrace*	Chapalote	INIFAP	SIN2	M	M
Maize Landrace*	Conico	INIFAP	PUE32	M	M
Maize Landrace*	Costeno	ICA	VEN453	M	M
Maize Landrace*	Cristalino Norteno	NCGRP	CHI349	M	M
Maize Landrace*	Dzit Bacal	CIMMYT	GUA131	M	M
Maize Landrace*	Gordo	CIMMYT	CHH160	M	M
Maize Landrace*	Guirua	NCGRP	MAG450	M	M
Maize Landrace*	Nal-tel	INIFAP	YUC7	M	M
Maize Landrace*	Piscorunto	PCIM	APC13	M	M
Maize Landrace*	Sabanero	NRC	SAN329	M	M
Maize Landrace*	Serrano	INIFAP	GUA14	M	T
Maize Landrace*	Zapalote Chico	CIMMYT	OAX70	M	M
Inbred Teosinte	Balsas	JFD	TIL01	T	T
Inbred Teosinte	Balsas	JFD	TIL02	T	T
Inbred Teosinte	Jalisco	JFD	TIL03	M	M
Inbred Teosinte	Balsas	JFD	TIL04	T	T
Inbred Teosinte	Balsas	JFD	TIL05	T	T
Inbred Teosinte	Balsas	JFD	TIL06	T	T
Inbred Teosinte	Balsas	JFD	TIL07	T	T
Inbred Teosinte	Balsas	JFD	TIL08	T	T
Inbred Teosinte	Balsas	JFD	TIL09	M	M
Inbred Teosinte	Balsas	JFD	TIL10	T	T
Inbred Teosinte	Jalisco	JFD	TIL11	T	T
Inbred Teosinte	Balsas	JFD	TIL12	T	T
Inbred Teosinte	Jalisco	JFD	TIL14	T	T
Inbred Teosinte	Balsas	JFD	TIL16	T	T
Inbred Teosinte	Balsas	JFD	TIL17	M	M
Inbred Teosinte	Chalco	JFD	TIL18	T	T
Inbred Teosinte	Central Plateau	JFD	TIL25	T	T
Non-inbred Teosinte	Balsas	CIMMYT	8779	T	T
Non-Inbred Teosinte	Balsas	INIFAP	JSG Y LOS-113	T	T
Non-Inbred Teosinte	Jalisco	INIFAP	JSG Y SMH-355	M	M
Non-Inbred Teosinte	Balsas	NCRPIS	PI566688	T	H
Non-Inbred Teosinte	Balsas	INIFAP	JSG Y LOS-172	T	T
Non-Inbred Teosinte	Balsas	INIFAP	JSG-377	T	T
Non-Inbred Teosinte	Balsas	INIFAP	C-9-78	T	T

Germplasm Type	Racename	Source ^a	Accession	<i>Tourist</i> ^b	<i>Hopscotch</i> ^b
Non-Inbred Teosinte	Balsas	CIMMYT	11401	T	T
Non-Inbred Teosinte	Balsas	INIFAP	JSG Y LOS-178	T	T
Non-Inbred Teosinte	Jalisco	INIFAP	JSG Y MAS-400	T	T
Non-Inbred Teosinte	Jalisco	INIFAP	JSG Y SMH-352	T	T
Non-Inbred Teosinte	Balsas	HHI	IC #3	T	T
Non-Inbred Teosinte	Balsas	CIMMYT	11402	T	T
Non-Inbred Teosinte	Balsas	INIFAP	JSG Y LOS-130	T	T
Non-Inbred Teosinte	Balsas	INIFAP	JSG-379	T	T
Non-Inbred Teosinte	Balsas	INIFAP	C-17-78	T	T
Non-Inbred Teosinte	Balsas	INIFAP	C-14-78	T	T
Non-Inbred Teosinte	Balsas	CIMMYT	8760	T	T
Non-Inbred Teosinte	Balsas	INIFAP	JSG-378	T	T
Non-Inbred Teosinte	Balsas	CIMMYT	8763	T	T
Non-Inbred Teosinte	Balsas	GWB	BK Site 4	T	T
Non-Inbred Teosinte	Balsas	CIMMYT	11406	T	T
Non-Inbred Teosinte	Balsas	CIMMYT	11353	T	T
Non-Inbred Teosinte	Balsas	INIFAP	JSG Y LOS-121	T	T
Non-Inbred Teosinte	Balsas	CIMMYT	8784	T	T
Non-Inbred Teosinte	Balsas	INIFAP	JSG Y LOS-109	T	T
Non-Inbred Teosinte	Jalisco	INIFAP	JSG-203	T	T
Non-Inbred Teosinte	Jalisco	BFB	967	T	T
Non-Inbred Teosinte	Balsas	INIFAP	JSG-387	T	T
Non-Inbred Teosinte	Balsas	INIFAP	JSG-193	T	T
Non-Inbred Teosinte	Balsas	CIMMYT	11357	T	T
Non-Inbred Teosinte	Balsas	CIMMYT	8762	T	T
Non-Inbred Teosinte	Balsas	CIMMYT	8783	T	T
Non-Inbred Teosinte	Balsas	INIFAP	JSG-192	T	T
Non-Inbred Teosinte	Balsas	INIFAP	JSG-374	T	T
Non-Inbred Teosinte	Balsas	INIFAP	JSG Y LOS-159	T	T
Non-Inbred Teosinte	Balsas	CIMMYT	11404	T	T
Non-Inbred Teosinte	Jalisco	INIFAP	JSG Y MAS-264	T	T
Non-Inbred Teosinte	Balsas	INIFAP	JSG-385	T	T
Non-Inbred Teosinte	Jalisco	INIFAP	JSG Y MAS-402	T	T
Non-Inbred Teosinte	Jalisco	INIFAP	JSG Y LOS-43	T	T
Non-Inbred Teosinte	Balsas	INIFAP	JSG Y LOS-161	T	T
Non-Inbred Teosinte	Jalisco	INIFAP	MAS-15	T	T
Non-Inbred Teosinte	Balsas	CIMMYT	11403	T	T
Non-Inbred Teosinte	Balsas	CIMMYT	8776	T	T
Non-Inbred Teosinte	Balsas	CIMMYT	11361	T	H
Non-Inbred Teosinte	Balsas	INIFAP	JSG-197	T	T
Non-Inbred Teosinte	Balsas	INIFAP	JSG Y LOS-120	T	T
Non-Inbred Teosinte	Balsas	INIFAP	JSG-191	T	T

Germplasm Type	Racename	Source ^a	Accession	<i>Tourist</i> ^b	<i>Hopscotch</i> ^b
Non-Inbred Teosinte	Balsas	NCRPIS	PI566686	T	T
Non-Inbred Teosinte	Jalisco	INIFAP	JSG Y LOS-142	T	T
Non-Inbred Teosinte	Balsas	CIMMYT	11355	T	H
Non-Inbred Teosinte	Balsas	INIFAP	JSG Y LOS-119	T	T
Non-Inbred Teosinte	Balsas	CIMMYT	8767	M	M
Non-Inbred Teosinte	Balsas	INIFAP	JSG Y LOS-176	T	T
Non-Inbred Teosinte	Jalisco	INIFAP	JSG Y LOS-40	T	T
Non-Inbred Teosinte	Balsas	INIFAP	JSG-382	T	T
Non-Inbred Teosinte	Jalisco	CIMMYT	9477	T	T
Non-Inbred Teosinte	Balsas	CIMMYT	11388	T	T
Non-Inbred Teosinte	Balsas	INIFAP	JSG-187	T	T
Non-Inbred Teosinte	Balsas	CIMMYT	8759	T	T
Non-Inbred Teosinte	Balsas	CIMMYT	8782	T	T
Non-Inbred Teosinte	Balsas	CIMMYT	11376	T	T
Non-Inbred Teosinte	Balsas	INIFAP	JSG-391	T	T
Non-Inbred Teosinte	Balsas	CIMMYT	8766	T	T
Non-Inbred Teosinte	Balsas	NCRPIS	PI566691	T	T
Non-Inbred Teosinte	Balsas	CIMMYT	8765	T	T
Non-Inbred Teosinte	Jalisco	INIFAP	JSG Y LOS-74	T	T
Non-Inbred Teosinte	Balsas	NCRPIS	PI384064	T	T
Non-Inbred Teosinte	Jalisco	INIFAP	JSG Y MAS-401	T	T
Non-Inbred Teosinte	Balsas	INIFAP	JSG Y LOS-126	T	T
Non-Inbred Teosinte	Balsas	CIMMYT	8761	T	T
Non-Inbred Teosinte	Balsas	CIMMYT	11407	T	T
Non-Inbred Teosinte	Balsas	CIMMYT	8758	T	T
Inbred Teosinte	Balsas	JFD	TIL15	T	T
Maize Landrace	Arrocillo Amarillo	INIFAP	VER 311	M	M
Maize Landrace	Aysuma	ICA	BOV 331	M	M
Maize Landrace	Canilla	ICA	VEN 604	M	M
Maize Landrace	Capia Blanco	CIMMYT	ARG 499	M	M
Maize Landrace	Cariaco	NRC	COR 334	M	M
Maize Landrace	Cateto Nortista Precoce	CIMMYT	SUR I	M	M
Maize Landrace	Cateto Sulino	CIMMYT	URG II	M	M
Maize Landrace	Chalqueno	INIFAP	MEX 48	M	M
Maize Landrace	Chillo	NRC	ECU 458	M	M
Maize Landrace	Chococeno	ICA	ECU 964	M	M
Maize Landrace	Conejo	INIFAP	GRO 157	M	M
Maize Landrace	Confite Puneno	PCIM	PUN 4	M	M
Maize Landrace	Conico	INIFAP	PUE 109	M	M
Maize Landrace	Conico	INIFAP	MEX 108	M	M
Maize Landrace	Coroico	ICA	BOV 992	M	M
Maize Landrace	Cuban Flint	CIMMYT	CUB 63	M	M

Germplasm Type	Racename	Source ^a	Accession	<i>Tourist</i> ^b	<i>Hopscotch</i> ^b
Maize Landrace	Dente Paulista	CIMMYT	SP III	M	M
Maize Landrace	Dulce de Jalisco	INIFAP	ZAC 182	M	M
Maize Landrace	Dzit Bacal	CIMMYT	GUA 130	M	M
Maize Landrace	Dzit Bacal	INIFAP	QOO 20	M	M
Maize Landrace	Guirua	NCGRP	MAG 443	M	M
Maize Landrace	Harinoso Tarapaqueno	NRC	CHI 421	M	M
Maize Landrace	Imbricado	ICA	CUN 372	M	M
Maize Landrace	Jala	CIMMYT	JAL 44	M	M
Maize Landrace	Karapampa	NRC	BOV 961	M	M
Maize Landrace	Kculli	PCIM	CUZ 66	M	M
Maize Landrace	Montana	ICA	NAR 426	M	M
Maize Landrace	morado	ICA	BOV 567	M	M
Maize Landrace	motozinteco	INIFAP	CHS 650	M	M
Maize Landrace	mushito	INIFAP	MIC 328	M	M
Maize Landrace	Nal-tel	INIFAP	CAM 48	M	M
Maize Landrace	Nal-tel	INIFAP	YUC 148	M	H
Maize Landrace	Nal-tel de Altura	INIFAP	CHS 196	M	M
Maize Landrace	Onaveno	INIFAP	SON 105	H	M
Maize Landrace	Pepitilla	INIFAP	MOR 99	M	M
Maize Landrace	Pira	ICA	VEN 485	M	M
Maize Landrace	Piscorunto	PCIM	APC 13	M	M
Maize Landrace	Sabanero	NRC	SAN 329	M	M
Maize Landrace	Serrano	INIFAP	GUA 14	M	H
Maize Landrace	Serrano Mixe	INIFAP	OAX 565	T	M
Maize Landrace	Tablilla de Ocho	CIMMYT	NAY 185	M	M
Maize Landrace	Tuson	INIFAP	TRN 10	M	M
Maize Landrace	Tuxpeno Norteno	INIFAP	COA 21	M	M
Maize Landrace	Tuxpeno Norteno	INIFAP	CHH 121	M	M
Inbred Landrace	Araguito	NCRPIS	MR01	M	M
Inbred Landrace	Assiniboine	NCRPIS	MR02	T	M
Inbred Landrace	Bolita	NCRPIS	MR03	M	M
Inbred Landrace	Cateto	NCRPIS	MR05	M	M
Inbred Landrace	Chapalote	NCRPIS	MR06	M	M
Inbred Landrace	Comiteco	NCRPIS	MR07	M	M
Inbred Landrace	Costeno	NCRPIS	MR08	M	M
Inbred Landrace	Cravo Riogranense	NCRPIS	MR09	M	M
Inbred Landrace	Cristalino Norteno	NCRPIS	MR10	M	M
Inbred Landrace	Cuban Flint	NCRPIS	MR11	M	M
Inbred Landrace	Havasupai	NCRPIS	MR12	M	M
Inbred Landrace	Hickory King	NCRPIS	MR13	M	M
Inbred Landrace	Longfellow Flint	NCRPIS	MR14	M	M
Inbred Landrace	Pisankalla	NCRPIS	MR17	M	M

Germplasm Type	Racename	Source ^a	Accession	<i>Tourist</i> ^b	<i>Hopscotch</i> ^b
Inbred Landrace	Reventador	NCRPIS	MR18	M	M
Inbred Landrace	Santa Domingo	NCRPIS	MR19	T	M
Inbred Landrace	Shoe Peg	NCRPIS	MR20	M	M
Inbred Landrace	Tabloncillo	NCRPIS	MR21	M	M
Inbred Landrace	Tuxpeno	NCRPIS	MR22	M	M
Inbred Landrace	Zapalote Chico	NCRPIS	MR23	M	M
Inbred Landrace	Chullpi	NCRPIS	MR24	M	M
Inbred Landrace	Pororo	NCRPIS	MR25	M	M
Inbred Landrace	Pollo	NCRPIS	MR26	M	M
Maize Inbred		NCRPIS	B73	M	M
Maize Inbred		NCRPIS	Mo17	M	M
Maize Inbred		NCRPIS	B97	M	M
Maize Inbred		NCRPIS	CML52	M	M
Maize Inbred		NCRPIS	CML69	M	M
Maize Inbred		NCRPIS	CML103	M	M
Maize Inbred		NCRPIS	CML228	M	M
Maize Inbred		NCRPIS	CML247	M	M
Maize Inbred		NCRPIS	CML277	M	M
Maize Inbred		NCRPIS	CML322	M	M
Maize Inbred		NCRPIS	CML333	M	M
Maize Inbred		NCRPIS	Hp301	M	M
Maize Inbred		NCRPIS	Il14H	M	M
Maize Inbred		NCRPIS	Ki3	M	M
Maize Inbred		NCRPIS	Ki11	M	M
Maize Inbred		NCRPIS	Ky21	M	M
Maize Inbred		NCRPIS	M37W	M	M
Maize Inbred		NCRPIS	M162W	M	M
Maize Inbred		NCRPIS	MO18W	M	M
Maize Inbred		NCRPIS	MS71	M	M
Maize Inbred		NCRPIS	NC350	M	M
Maize Inbred		NCRPIS	NC358	M	M
Maize Inbred		NCRPIS	Oh7B	M	M
Maize Inbred		NCRPIS	Oh43	M	M
Maize Inbred		NCRPIS	P39	M	M
Maize Inbred		NCRPIS	Tx303	M	M
Maize Inbred		NCRPIS	Tzi8	M	M
Maize Inbred		NCRPIS	W22	M	M

* Maize landrace made haploid for DNA extraction and sequencing.

^a Source information can be found at www.panzea.org.

^b "M" denotes the common maize haplotype (presence of the element), "T" denotes the common teosinte haplotype (absence of the element).