

Variants	Allele		Physical position (Relative to the start codon, bp)	MAF	P-Value
	(B73 Reference/Alternative allele)				
Indel-2339	GAG/---		-2339	0.12	1.82E-04
SNP-1311	C/A		-1311	0.07	2.65E-05
Indel-1299	34bp insertion/---		-1299	0.07	2.65E-05
SNP-1247	C/G		-1247	0.10	3.88E-07
SNP-1245	A/G		-1245	0.10	3.88E-07
Indel-1243	AA/--		-1243	0.06	2.65E-05
Indel-1230	--/AT		-1230	0.06	2.65E-05
SNP-1146	A/G		-1146	0.06	2.65E-05
SNP-1117	G/A		-1117	0.06	2.65E-05
SNP-1096	A/G		-1096	0.07	1.72E-05
SNP-1087	G/T		-1087	0.07	1.72E-05
Indel-948	AGTACCC/-----		-948	0.11	2.02E-05
SNP-934	A/G		-934	0.11	2.02E-05

Table S1. Significant association variants across the 6.3-kb sequenced region around *ZCN8* after Bonferroni multiple test correction ($P < 4.95E-04$). Related to Figure 1.

Material	Location	Subspecies	Source	SNP-1245	Indel-2339
Ames 21797	Mazatlan/El Salado	<i>Z. mays ssp. parviglumis</i>	John Doebley	A	Ref
Ames 21826	El Salado	<i>Z. mays ssp. parviglumis</i>	John Doebley	G	Ref
Ames 21861	Unknown	<i>Z. mays ssp. parviglumis</i>	John Doebley	A	Ref
Ames 21889	El Rodeo	<i>Z. mays ssp. parviglumis</i>	John Doebley	A	Ref
CIMMYT ID13580	Mexico	<i>Z. mays ssp. parviglumis</i>	John Doebley	G	Ref
PI 384062	Palo Blanco	<i>Z. mays ssp. parviglumis</i>	John Doebley	G	Ref
PI 384063	Valle de Bravo,Mexico	<i>Z. mays ssp. parviglumis</i>	John Doebley	G	Ref
PI 384069	El Pochote	<i>Z. mays ssp. parviglumis</i>	John Doebley	A	Ref
PI 566686	Paso de Morelos, Mexico	<i>Z. mays ssp. parviglumis</i>	John Doebley	G	Ref
PI 566692	Tuzantla	<i>Z. mays ssp. parviglumis</i>	John Doebley	A	Ref
TIL1	Tzitzio, Michoacan	<i>Z. mays ssp. parviglumis</i>	John Doebley	G	Ref
TIL11	Huitzucu, Guerrero	<i>Z. mays ssp. parviglumis</i>	John Doebley	G	Ref
TIL14	Rodeo	<i>Z. mays ssp. parviglumis</i>	John Doebley	G	Ref
TIL15	Palo Blanco	<i>Z. mays ssp. parviglumis</i>	John Doebley	G	Ref
TIL17	Teloloapan	<i>Z. mays ssp. parviglumis</i>	John Doebley	G	Ref
TIL3	La Lima, Jalisco	<i>Z. mays ssp. parviglumis</i>	John Doebley	G	Ref
TIL9	Tejupilco, Mexico	<i>Z. mays ssp. parviglumis</i>	John Doebley	G	Ref
11368	Mexico	<i>Z. mays ssp. mexicana</i>	John Doebley	G	Ref
13792	Mexico	<i>Z. mays ssp. mexicana</i>	John Doebley	A	Ref
C-18-78	Mexico	<i>Z. mays ssp. mexicana</i>	John Doebley	A	indel
JSG Y LOS-55	Mexico	<i>Z. mays ssp. mexicana</i>	John Doebley	A	indel
JSG Y LOS-88	Mexico	<i>Z. mays ssp. mexicana</i>	John Doebley	A	Ref
JSG Y MCH-341	Mexico	<i>Z. mays ssp. mexicana</i>	John Doebley	A	indel
JSG,JMHC,K Y FCG-311	Mexico	<i>Z. mays ssp. mexicana</i>	John Doebley	A	Ref
JSG,JMHC,K Y FCG-317	Mexico	<i>Z. mays ssp. mexicana</i>	John Doebley	G	Ref
JSG-373	Mexico	<i>Z. mays ssp. mexicana</i>	John Doebley	G	Ref
JSG-397	Mexico	<i>Z. mays ssp. mexicana</i>	John Doebley	G	Ref
Taba 93	Mexico	<i>Z. mays ssp. mexicana</i>	John Doebley	A	indel
CIMMYT ID13533	Mexico	<i>Z. mays ssp. parviglumis</i>	Xiaohong Yang	G	Ref
CIMMYT ID13535	Mexico	<i>Z. mays ssp. parviglumis</i>	Xiaohong Yang	G	Ref
CIMMYT ID13554	Mexico	<i>Z. mays ssp. parviglumis</i>	Xiaohong Yang	G	Ref
CIMMYT ID13581	Mexico	<i>Z. mays ssp. parviglumis</i>	Xiaohong Yang	G	Ref
CIMMYT ID13582	Mexico	<i>Z. mays ssp. parviglumis</i>	Xiaohong Yang	A	Ref
CIMMYT ID13585	Mexico	<i>Z. mays ssp. parviglumis</i>	Xiaohong Yang	G	Ref
CIMMYT ID13586	Mexico	<i>Z. mays ssp. parviglumis</i>	Xiaohong Yang	G	Ref

Material	Location	Subspecies	Source	SNP-1245	Indel-2339
CIMMYT ID8762	Mexico	<i>Z. mays ssp. parviglumis</i>	Xiaohong Yang	G	Ref
CIMMYT ID8763	Mexico	<i>Z. mays ssp. parviglumis</i>	Xiaohong Yang	G	Ref
CIMMYT ID8765	Mexico	<i>Z. mays ssp. parviglumis</i>	Xiaohong Yang	G	Ref
CIMMYT ID8766	Mexico	<i>Z. mays ssp. parviglumis</i>	Xiaohong Yang	A	Ref
CIMMYT ID8767	Mexico	<i>Z. mays ssp. parviglumis</i>	Xiaohong Yang	G	Ref
CIMMYT ID8779	Mexico	<i>Z. mays ssp. parviglumis</i>	Xiaohong Yang	A	Ref
CIMMYT ID8781	Mexico	<i>Z. mays ssp. parviglumis</i>	Xiaohong Yang	G	Ref
CIMMYT ID8782	Mexico	<i>Z. mays ssp. parviglumis</i>	Xiaohong Yang	G	Ref
CIMMYT ID8783	Mexico	<i>Z. mays ssp. parviglumis</i>	Xiaohong Yang	G	Ref
CIMMYT ID8784	Mexico	<i>Z. mays ssp. parviglumis</i>	Xiaohong Yang	G	Ref

Table S2. Information on the 45 teosinte lines used in this study. Related to Figure 1, Figure 3 and Figure 4.

Age	Sample	ZCN8_SNP-1245	ZCN8_Indel-2339	ZmCCT9_TE	ZmCCT10_TE	Vgt1_MITE
		A/G	Ref / Del	Harbinger+/-	CACTA+/-	MITE+/-
5,310 years old	Tehuacan ^a	G	Ref	+/+	+/+	-/-
5,300-4,970 years old	SM10 ^b	G	Ref	NA	+/+	-/-
1,900 years old	JK1689 ^c	A	Del	+/+	+/+	-/-
1,900 years old	JK1690 ^c	NA	Del	+/+	+/+	-/-
1,900 years old	JK1691 ^c	A	Del	+/+	+/+	-/-
1,900 years old	JK1692 ^c	A	Del	+/+	+/+	-/-
1,900 years old	JK1695 ^c	A	Del	+/+	+/+	-/-
1,900 years old	JK1696 ^c	NA	Del	+/+	+/+	-/-
1,900 years old	JK1697 ^c	A	Del	+/+	+/+	-/-
1,900 years old	JK1698 ^c	A	Del	+/+	+/+	-/-
1,900 years old	JK1699 ^c	NA	Del	+/+	+/+	-/-
1,900 years old	JK1700 ^c	A	Del	+/+	+/+	-/-
1,900 years old	JK1701 ^c	NA	NA	+/+	+/+	-/-
1,900 years old	JK1703 ^c	A	Del	+/+	+/+	-/-
1,900 years old	JK1704 ^c	A	Del	+/+	+/+	-/-
1,900 years old	JK1705 ^c	NA	NA	+/+	+/+	-/-
1,900 years old	JK1706 ^c	A	Del	+/+	+/+	-/-

Table S3. The genotypes of five flowering time loci (*ZCN8_SNP-1245*, *ZCN8_Indel-2339*, *ZmCCT9_TE*, *ZmCCT10_TE* and *Vgt1_MITE*) in the archaeological maize specimens. Related to Figure 4 and STAR Methods.

^a, the genomic data of SM10 is from Vallebuena-Estrada et al. (2016)[S2]; ^b, the genomic data of Tehuacan is from Ramos-Madrigrál et al. (2016)[S3]; ^c, the genomic data of JK1689-JK1706 is from Swarts et al. (2017)[S4].

Primer or probe name	Primer sequence (5'-3')	Description
ZCN8_10F	CTGGAATGGCCTGAAATACG	Sequencing the 6.3 kb region
ZCN8_10R	ACAGCTAAGCCGTTGATAATTG	
ZCN8-up-2L	GACTTCTCGCTATTAGTTGGACC	Sequencing the 6.3 kb region
ZCN8-up-2R	CAGATTTGGTTTACACACGGTT	
ZCN8-up-3L	ACTTCCATTACGAGAGGAGG	Sequencing the 6.3 kb region
ZCN8-up-3R	AAGGCTGTGATTGTGAGGTT	
ZCN8-up-4L	AGGGAGTTTGCTCGTAAGGTG	Sequencing the 6.3 kb region
ZCN8-up-4R	TTAGTGATGGATGGCTTGGA	
ZCN8-1L	TTTCTACACCCTGGTAAGCC	Sequencing the 6.3 kb region
ZCN8-1R	GCTCTCAACCTTCAAGTCA	
ZCN8-4L	GGAAGAGTAGAAACCATAGGC	Sequencing the 6.3 kb region
ZCN8-4R	GAGGCAAAGAAGAAGATAGATG	
1245caps-1L	GAGAGGGACAGACTAGAATCCT	Genotyping SNP-1245(CAPs,MSP I)
1245caps-1R	GCAAAGTTTCGCCAAATGTCTA	
2339-1L	GATTTTCGTATCRACGTCATG	Genotyping Indel-2339
2339-1R	GAAAGTTTGCATCGCGTAGTTC	
<i>Vgt1</i> _MITE_L	GTACCAGCTCCCTCTGCTC	Genotyping the MITE transposon insertion at <i>Vgt1</i>
<i>Vgt1</i> _MITE_R	TGGAATGGATGTGAAGTGAG	
qRT- <i>ZmMADS1</i> _2L	TGAAGCAGAAGGAGATGAGT	qRT-PCR
qRT- <i>ZmMADS1</i> _2R	GCAATCCTATGTACAGCTCCG	
qRT-ZCN8_L	ACTTGCACTGGATGGTGACAGATA	qRT-PCR
qRT-ZCN8_R	CGGCCTCTCATAAAAATTAGCTCTT	
Bio-W22-L	CGCAGTACATGTTCAAACAACCCGAGAAA AAAACACACATCGAAGAAGAA	EMSA probe
Bio-W22-R	TTCTTCTCGATGTGTGTTTTTCTCGGGTT TGTTGAACATGTA CTGCG	
Bio-Teosinte-L	CGCAGTACATGTTCAAACAACCCGGGAAA AACACACATCGAAGAAGAA	EMSA probe
Bio-Teosinte-R	TTCTTCTCGATGTGTGTTTTTCCCGGTTTG TTGAACATGTA CTGCG	

Table S4. Sequences of the primers or probes used in this study. Related to Figure 1-4.

Supplemental references

- S1. Bukowski, R., Guo, X., Lu, Y., Zou, C., He, B., Rong, Z., Wang, B., Xu D., Yang, B., Xie, C., et al. (2018). Construction of the third-generation *Zea mays* haplotype map. *GigaScience* 7, 1-12.
- S2. Vallebuenaestrada, M., Rodríguezarávalo, I., Rougoncardoso, A., Martínez, G.J., García, C.A., Montiel, R., and Viellecalzada, J.P. (2016). The earliest maize from San Marcos Tehuacán is a partial domesticate with genomic evidence of inbreeding. *Proc. Natl. Acad. Sci. USA* 113, 14151.
- S3. Ramosmadrigal, J., Smith, B.D., Morenomayar, J.V., Gopalakrishnan, S., Rossibarra, J., Gilbert, M.T., and Wales, N. (2016). Genome Sequence of a 5,310-Year-Old Maize Cob Provides Insights into the Early Stages of Maize Domestication. *Current Biology* 26, 3195-3201.
- S4. Swarts, K., Gutaker, R.M., Benz, B., Blake, M., Bukowski, R., Holland, J., Krusepeoples, M., Lepak, N., Prim, L., and Romain, M.C. (2017). Genomic estimation of complex traits reveals ancient maize adaptation to temperate North America. *Science* 357, 512.