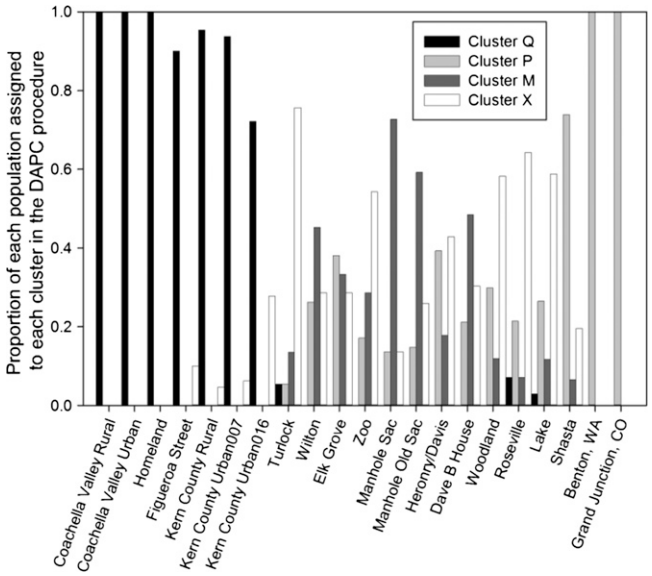
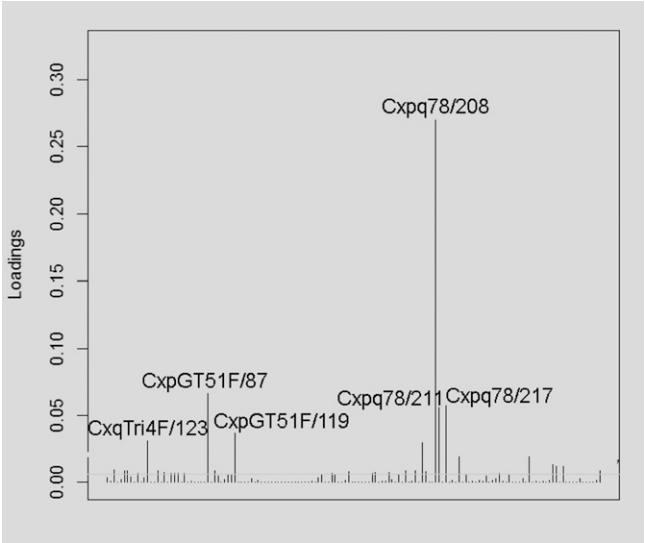


Supplemental Figure 1. Cluster assignments by population for Discriminant Analysis of Principal Components (DAPC). Individual mosquitoes were grouped by population for this analysis, but four clusters were specified, to coincide with four clusters found by Structure.



Supplemental Figure 2. Discriminant Analysis of Principal Components Loading Plot. Plot shows which alleles are best at discriminating among clusters. The six most informative alleles are shown as the locus name, followed by the allele size in basepairs.

Supplemental Table 1

Collection date, trap nights and collection methods used in this study, California*

Site	Month of trapping	Year of trapping	Trap nights	Collection method
Coachella Valley Rural	September	2010	1	CO_2-baited trap
Coachella Valley Urban	September	2010	1	Gravid trap
Homeland	December	2010	1	EVS suction trap, no CO_2
	March	2011	1	gravid trap
Figueroa Street	December	2010	1	EVS suction trap, no CO_2
	March	2011	1	Gravid trap
Kern County Rural	September	2010	2	Gravid trap
Kern County Urban 007	September	2010	1	Gravid trap
Kern County Urban 016	September	2010	1	Gravid trap
Turlock	June	2011	9	Gravid trap
Wilton	January	2012		Vacuum aspiration
Elk Grove	October	2011		Vacuum aspiration
Zoo	April	2011		Vacuum aspiration
	July	2011		Vacuum aspiration
Manhole Sacramento	October	2010		Vacuum aspiration
Manhole Old Sacramento	July	2011		Vacuum aspiration
Heronry/Davis	July	2011	1	Gravid trap
Dave B House	June	2011	1	Gravid trap
Woodland	July	2011	1	Gravid trap
Roseville	June	2010		Larval collection
Lake	July–September	2011	15	CO_2-baited trap
	July–September	2011	6	Gravid trap
	July–September	2011		Vacuum aspiration
Shasta	July	2011	1	CO_2-baited trap
		2011	1	Hock light trap
Benton	August	2010	1	CO_2-baited trap

*EVS = encephalitis vector survey.

Supplemental Table 2

Microsatellite loci used in this study, California*

Locus	Dye	Size	No.	Multiplex	Concentration of each primer, μM	Source
Cxpq51	D3	162–191	8	1	0.05	A
Cxpq59	D4	100–118	7	1	0.02	A
Cxpq68	D4	197–213	6	1	0.01	A
Cxpq69	D3	280–304	9	1	0.50	A
Cxpq78	D2	208–226	7	1	0.08	A
Cxpq79	D4	309–337	6	1	0.08	A
Cxpq109	D2	267–293	8	2	0.70	A
Cxpq110	D4	186–219	9	2	0.40	A
Cxpq114	D4	104–119	6	2	0.05	A
Cxpq117	D3	306–315	4	2	0.40	A
Cxpq119	D3	212–227	6	2	0.10	A
CxqGT4F	D4	137–156	7	2	0.09	B
CxqTri4F	D2	111–126	6	2	0.04	B
CxpGT46F	D3	259–287	16	2	0.25	C
CxpGT51F	D2	87–173	25	1	0.27	C
CxqCTG10	D3	98–116	6	1	0.05	D
CxqCAG101	D3	184–193	4	2	0.13	D

*Dye = fluorescent label (D2 = black, D3 = green, D4 = blue); Size = range of allele sizes in basepairs; Multiplex = multiplex of which this locus is part; Source = original source of locus: A[54]; B[55]; C[56]; D.[57]