

[illegible]

AAGTCTCTGTTATCTCT GTAAGTAGACTGAAATCATTCTCTGTATAGCGC
AAGTCTCTGTTATCTCT GTAAGTAGACTGAAATCATTCTCTGTACAGCGC
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AAGTCTCTGTTATCTCT GTAAGTAGACTGAAATCATTCTCTGGACAGCGC
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AAGTCTCTGTTATCTCT GTAAGTAGACTGAAATCATTCTCTGGACAGGAG
AAGTCTCTGTTATCTCT GTAAGTAGACTGAAATCATTCTCTGGACAGCGC
AAGTCTCTGTTATCTCT GTAAGTAGACTGAAATCATTCTCTGTACAGCGC
AAGTCTCTGTTATCTCT GTAAGTAGACTGAAATCATTCTCTTACAGCGC
AAGTCTCTGTTATCTCT GTAAGTAGACTGAAATCATTCTCTGTACAGCGC

T T T G G A C T T C T A T A T G T T T T A T A T C T G T G T T T G A C A G A A T G A A A
T T T G G A G C T T C T A T A T G T T T T A T A T T T G T T T G A C A G A A A T G A A A
T T T G G A G C T T C T A T A T G T T T T A T A T T T G T T T G A C A G A A A T G A A A
T T T G G A G C T T C T A T A T G T T T T A T A T T T G T T T G A C A G A A A T G A A A
T T T G G A G C T T C T A T A T G T T T T A T A T T T G T T T G A C A G A A A T G A A A
T T T G G A G C T T C T A T A T G T T T T A T A T T T G T T T G A C A G A A A T G A A A
T T T G G A G C T T C T A T A T G T T T T A T A T T T G T T T G A C A G A A A T G A A A
T T T G G A G G T C T A T A T G T T T T A T A T T T G T T T G A C A G A A A T G A A A
T T T G G A G C T T C T A T A T G T T T T A T A T T T G T T T G A C A G A A A T G A A A

[illegible][illegible]

A----CACACACACCCACCACCTGTAGAAATTAATGGAACTAAAAATATTAT
A----CACACACACCCACCACCTGTAGAAATTAATGGAAAAAAAATATTAT
A----CACACACACCCACCACCTGTAGAAATTAATGGAAAAAAAATATTAT
A----CACACACACCCACCACCTGTAGAAATTAATGGAAAAAAAATATTAT
CACCACACACACCCACCACCTGTAGAAATTAATGGAAAAAAAATATTAT
-----ACACACACCCACCACCTGTAGAAATTAATGGAAAAAAAATATTAT
-----ACACACACCCACCACCTGTAGAAATTAATGGAAAAAAAATATTAT
CACCACACACACCCACCACCTGTAGAAATTAATGGAAAAAAAATATTAT
-----ACACACACCCACCACCTGTAGAAATTAATGGAAAAAAAATATTAT
A----CACACATACCCACCACCTGTAGAAATTAATGGAAAAAAAATATTAT

[illegible][illegible]

CaRDR indel R binding site

PG1-1 (<i>C. annuum</i>)	CATAAGTTTCGTACTTTCACCTAAATATATGGGGGTTTTGTTGCTTCCATCC
SCM334 (<i>C. annuum</i>)	CATAAGTTTCGTACTTTCACCTATATATATGGGGGTTTTGTTGCTTCCATCC
Chiltepin (<i>C. annuum</i>)	CATAAGTTTCGTACTTTCACCTATATATATGGGGGTTTTGTTGCTTCCATCC
ECW (<i>C. annuum</i>)	CATAAGTTTCGTACTTTCACCTACATATATATGGGGGTTTTGTTGCTTCCATCC
Zunla (<i>C. annuum</i>)	CATAAGTTTCGTACTTTCACCTATATATATGGGGGTTTTGTTGCTTCCATCC
CM334 (<i>C. annuum</i>)	CATAAGTTTCGTACTTTCACCTACATATATATGGGGGTTTTGTTGCTTCCATCC
UCD10X (<i>C. annuum</i>)	CATAAGTTTCGTACTTTCACCTACATATATATGGGGGTTTTGTTGCTTCCATCC
SF (<i>C. annuum</i>)	CATAAGTTTCGTACTTTCACCTATATATATGGGGGTTTTGTTGCTTCCATCC
PI159236 (<i>C. chinense</i>)	CATAAGTTTCGTACTTTCACCTATATATATGGGGGTTTTGTTGCTTCCATCC
PBC81 (<i>C. baccatum</i>)	CATAAGTTTCGTACTTTCACCTATATATATGGGGGTTTTGTTGCTTCCATCC

	CaRDR indel R binding site
PG1-1 (<i>C. annuum</i>)	GCGACTTTTTTCTGTCTGCCTCCATCTTTTAAACACTATCTTTTTGGCA
SCM334 (<i>C. annuum</i>)	ATGACTTTTTTCTGTCTGCCTCCATCTTTTAAACACTATCTTTTTGGCA
Chiltepin (<i>C. annuum</i>)	ATGACTTTTTTCTGTCTGCCTCTATCTTTTAAACACTATCTTTTTGGCA
ECW (<i>C. annuum</i>)	ATGACTTTTTTCTGTCTGCCTCTATCTTTTAAACACTATCTTTTTGGCA
Zunla (<i>C. annuum</i>)	ATGACTTTTTTCTGTCTGCCTCCATCTTTTAAACACTATCTTTTTGGCA
CM334 (<i>C. annuum</i>)	ATGACTTTTTTCTGTCTGCCTCTATCTTTTAAACACTATCTTTTTGGCA
UCD10X (<i>C. annuum</i>)	ATGACTTTTTTCTGTCTGCCTCTATCTTTTAAACACTATCTTTTTGGCA
SF (<i>C. annuum</i>)	ATGACTTTTTTCTGTCTGCCTCCATCTTTTAAACACTATCTTTTTGGCA
PI159236 (<i>C. chinense</i>)	ATGACTTTTTTCTGTCTGCCTCCATCTTTTAAACACTATCTTTTTGGCG
PBC81 (<i>C. baccatum</i>)	ATGACTTTTTTCTGTCTGCCTCCATCTTTTAAACACTATCTTTTTGGCA

PG1-1 (<i>C. annuum</i>)	TAACGTGTAGCAACTTAAATTCCTTTATTTTGAAGTTTAAACATGATGA
SCM334 (<i>C. annuum</i>)	TAACGTGTAGCAACTTAAATTCCTTTATATTTGAAGTTTAAACATGATGA
Chiltepin (<i>C. annuum</i>)	TAACGTGTAGCAACTTAAATTCCTTTATATTTGAAGTTTAAACATGATGA
ECW (<i>C. annuum</i>)	TAACGTGTAGCAACTTAAATTCCTTTATATTTGAAGTTTAAACATGATGA
Zunla (<i>C. annuum</i>)	TAACGTGTAGCAACTTAAATTCCTTTATATTTGAAGTTTAAACATGATGA
CM334 (<i>C. annuum</i>)	TAACGTGTAGCAACTTAAATTCCTTTATATTTGAAGTTTAAACATGATGA
UCD10X (<i>C. annuum</i>)	TAACGTGTAGCAACTTAAATTCCTTTATATTTGAAGTTTAAACATGATGA
SF (<i>C. annuum</i>)	TAACGTGTAGCAACTTAAATTCCTTTATATTTGAAGTTTAAACATGATGA
PI159236 (<i>C. chinense</i>)	TAACGTGTAGCAACTTAAATTCCTTTATTTTCTAAGTTTAAACATGATGA
PBC81 (<i>C. baccatum</i>)	TAACGTGTAGCAACTTAAATTCCTTTATATTTGAAGTTTAAACATGATGA

PG1-1 (<i>C. annuum</i>)	CTGAAGGAGAGATGCTGAAAATGACATTTACCATTGTTGAACTTTCCT
SCM334 (<i>C. annuum</i>)	CTGAGG-AGAGATGCTGAAAATGACATTTACCATTGTTGTGAACTTTCAT
Chiltepin (<i>C. annuum</i>)	CTGAGG-AGAGATGCTGAAAATGACATTTACCATTGTTGTGAACTTTCAT
ECW (<i>C. annuum</i>)	CTGAGG-AGAGATGCTGAAAATGACATTTACCATTGTTGTGAACTTTCAT
Zunla (<i>C. annuum</i>)	CTGAGG-AGAGATGCTGAAAATGACATTTACCATTGTTGTGAACTTTCAT
CM334 (<i>C. annuum</i>)	CTGAGG-AGAGATGCTGAAAATGACATTTACCATTGTTGTGAACTTTCAT
UCD10X (<i>C. annuum</i>)	CTGAGG-AGAGATGCTGAAAATGACATTTACCATTGTTGTGAACTTTCAT
SF (<i>C. annuum</i>)	CTGAGG-AGAGATGCTGAAAATGACATTTACCATTGTTGTGAACTTTCAT
PI159236 (<i>C. chinense</i>)	CTGAGG-AGAGATGCTGAAAATGACATTTACCATTGTTGTGAACTTTCAT
PBC81 (<i>C. baccatum</i>)	CTGAGG-AGAGATGCTGAAAATGACATTTACCATTGTTGTGAACTTTCAT
	****.* *****
PG1-1 (<i>C. annuum</i>)	TAAGCTAAGGTTTTCTTCCAAGAGAATTTAAGCTTTGAAACAAGATAGT
SCM334 (<i>C. annuum</i>)	TAAGCTAAGGTTTTCTTCCAAGAGAATTTAAGCTTTGAAACAAGATAGT
Chiltepin (<i>C. annuum</i>)	TAAGCTAAGGTTTTCTTCCAAGAGAATTTAAGCTTTGAAACAAGATAGT
ECW (<i>C. annuum</i>)	TAAGCTAAGGTTTTCTTCCAAGAGAATTTAAGCTTTGAAACAAGATAGT
Zunla (<i>C. annuum</i>)	TAAGCTAAGGTTTTCTTCCAAGAGAATTTAAGCTTTGAAACAAGATAGT
CM334 (<i>C. annuum</i>)	TAAGCTAAGGTTTTCTTCCAAGAGAATTTAAGCTTTGAAACAAGATAGT
UCD10X (<i>C. annuum</i>)	TAAGCTAAGGTTTTCTTCCAAGAGAATTTAAGCTTTGAAACAAGATAGT
SF (<i>C. annuum</i>)	TAAGCTAAGGTTTTCTTCCAAGAGAATTTAAGCTTTGAAACAAGATAGT
PI159236 (<i>C. chinense</i>)	TAAGCTAAGGTTTTCTTCCAAGAGAATTTAAGCTTTGAAACAAGATAG-
PBC81 (<i>C. baccatum</i>)	TAAGCTAAGGTTTTCTTCCAAGAGAATTTAAGCTTTGAAACAAGATAG-

PG1-1 (<i>C. annuum</i>)	TAGTTTAGATTCTGATCTTATATGCTTATTTTAATATTCTCATTTTATGG
SCM334 (<i>C. annuum</i>)	TAGTTTAGATTCTGATCTTATATGCTTATTTTAATATTCTCATTTTATGC
Chiltepin (<i>C. annuum</i>)	TAGTTTAGATTCTGATCTTATATGCTTATTTTAATATTCTCATTTTATGC
ECW (<i>C. annuum</i>)	TAGTTTAGATTCTGATCTTATATGCTTATTTTAATATTCTCATTTTATGC
Zunla (<i>C. annuum</i>)	TAGTTTAGATTCTGATCTTATATGCTTATTTTAATATTCTCATTTTATGC
CM334 (<i>C. annuum</i>)	TAGTTTAGATTCTGATCTTATATGCTTATTTTAATATTCTCATTTTATGC
UCD10X (<i>C. annuum</i>)	TAGTTTAGATTCTGATCTTATATGCTTATTTTAATATTCTCATTTTATGC
SF (<i>C. annuum</i>)	TAGTTTAGATTCTGATCTTATATGCTTATTTTAATATTCTCATTTTATGC
PI159236 (<i>C. chinense</i>)	---TTTAGATTCTGATCTTATATGCTTATTTTAATATTCTCATTTTATGG
PBC81 (<i>C. baccatum</i>)	---TTTAGATTCTGATCTTATATGCTTATTTTAATATTCTCATTTTATGG

PG1-1 (<i>C. annuum</i>)	AGAATATCTCAGCTTCTGATCCCTTTTTGCAATTGTGCACCGGAAATGCA
SCM334 (<i>C. annuum</i>)	AGAATATCTCAGCTTCTGATCCCTTTTTGCAATTGTGCACCGGAAATGCA
Chiltepin (<i>C. annuum</i>)	AGAATATCTCAGCTTCTGATCCCTTTTTGCAATTGTGCACCGGAAATGCA
ECW (<i>C. annuum</i>)	AGAATATCTCAGCTTCTGATCCCTTTTTGCAATTGTGCACCGGAAATGCA
Zunla (<i>C. annuum</i>)	AGAATATCTCAGCTTCTGATCCCTTTTTGCAATTGTGCACCGGAAATGCA
CM334 (<i>C. annuum</i>)	AGAATATCTCAGCTTCTGATCCCTTTTTGCAATTGTGCACCGGAAATGCA
UCD10X (<i>C. annuum</i>)	AGAATATCTCAGCTTCTGATCCCTTTTTGCAATTGTGCACCGGAAATGCA
SF (<i>C. annuum</i>)	AGAATATCTCAGCTTCTGATCCCTTTTTGCAATTGTGCACCGGAAATGCA
PI159236 (<i>C. chinense</i>)	AGAATATCTCAGCTTCTGATCCCTTTTTGCAATTGTGCTCCGGAAATGCA
PBC81 (<i>C. baccatum</i>)	AGAATATCTCAGCTTCTGATCCCTTTTTGCAATTGTGCACCGGAAATGCA

PG1-1 (<i>C. annuum</i>)	GAGGTAATGGCCAAGTATCTGGGTGTGTTTTGGTCTATAGAAATCCTGGT
SCM334 (<i>C. annuum</i>)	GAGGTTATGGCCAAGTATCTGGGTGTGTTTTGGTCTATAGAAATCCTGGT
Chiltepin (<i>C. annuum</i>)	GAGGTTATGGCCAAGTATCTGGGTGTGTTTTGGTCTATAGAAATCCTGGT
ECW (<i>C. annuum</i>)	GAGGTTATGGCCAAGTATCTGGGTGTGTTTTGGTCTATAGAAATCCTGGT
Zunla (<i>C. annuum</i>)	GAGGTTATGGCCAAGTATCTGGGTGTGTTTTGGTCTATAGAAATCCTGGT
CM334 (<i>C. annuum</i>)	GAGGTTATGGCCAAGTATCTGGGTGTGTTTTGGTCTATAGAAATCCTGGT
UCD10X (<i>C. annuum</i>)	GAGGTTATGGCCAAGTATCTGGGTGTGTTTTGGTCTATAGAAATCCTGGT
SF (<i>C. annuum</i>)	GAGGTTATGGCCAAGTATCTGGGTGTGTTTTGGTCTATAGAAATCCTGGT
PI159236 (<i>C. chinense</i>)	GAGGTAATGGCCAAGTATCTGGGTGGGCTTTGGTCTATAGAAATCCTGGT
PBC81 (<i>C. baccatum</i>)	GAGGTTATGGCCAAGTATCTGGGTGTGTTTTGGTCTATAGAAATCCTGGT

Exon14

Fig. S3 Genomic sequences of *CaRDR3a* in *C. annuum* accessions PG1-1, SCM334, ECW, Chiltepin, Zunla, SF, CM334, UCD10X, *C. chinense* accession PI159236, and *C. baccatum* accession PBC81. The positions of the 27 bp deletion in PG1-1 and the primer-annealing sites used for Indel marker analysis.