

FIG. 1

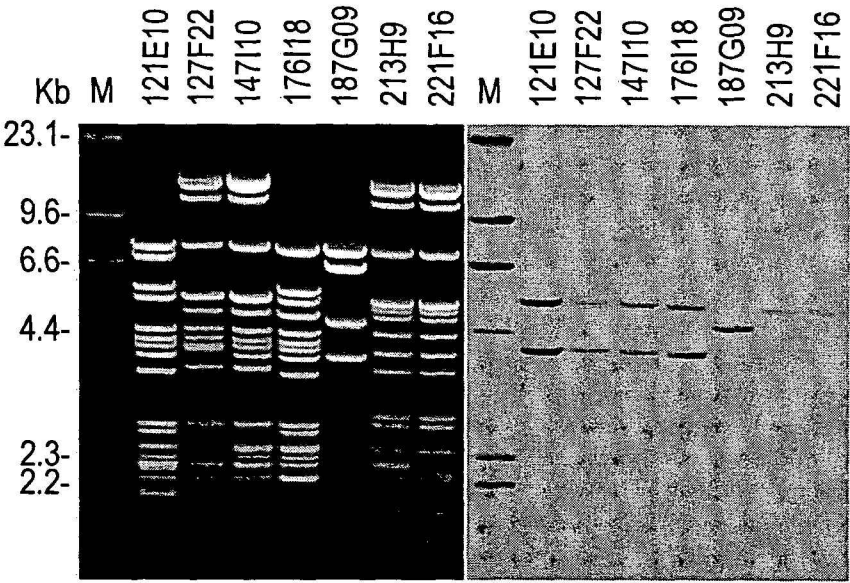
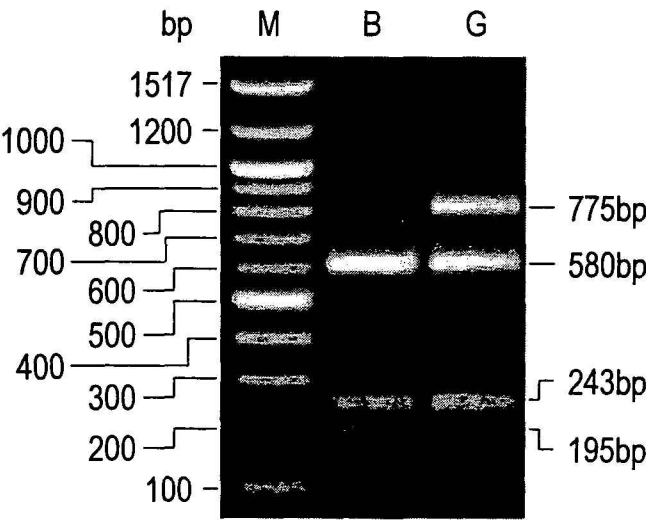


FIG. 5



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FIG. 2

-180 TGGATTTTCAATAATTCTTTTTCATTGGGATATGTTGTTGTTTGTCTTTATTTTACATCT
 -120 TATGAAACTGTCGTTTGGTTGCTAATAATAATAATAATAATAAAAGAAAAAAATTTGA
 -60 CAAAATAAAGGGCCGGGAAGGCAGTTTCCCTATAAAAGCAGGTGATGGGGGAAGGCCAAA
 1 GACCATCTCTTGCTCTCTTCTTCTTTACTTCCCCGTTTGCTCAGTTGCTTCTTTgtaag
 61 taatatagaagcctctgccccttcttggttgttgacaaattccattttttgttttactatt
 121 agcatgttaatttctagcttctggaaatgagttttattatccttttatatgataaacttgtg
 181 accattctatctcttttttaattatttttataattttatgcaattctattaaaataatcgt

 241 attcgtataat gatatttggtttcttccata caactggacagGTGAAATCAATATGAAAG
 M K G
 301 GTGGAAAGATGAATCTCTCCATTATGGTGGCTGCATGGTTTTGCTGGAGTAGTATTATAT
 G K M N L S I M V A A W F C W S S I I F
 361 TCGGATGGGCATCGGCTAGGGAAATAGTTTGTCCATTCTCATCAAACCAAACTACAAAG
 G W A S A R E I V C P F S S N Q N Y K A
 421 CTGGTTCCCCTCCAACCTTTAACCATTACTTATGACGCTACTACTGATAAGAAAACTACG
 G S P P T L T I T Y D A T T D K K N Y A
 481 CCCAGTTCATTAAAGATCTAAGAGAAGCATTGGCTTCAGTTATTCAAGCCATGAAATAC
 Q F I K D L R E A F G F S Y S S H E I P
 541 CAGTCTTACGGCCACAGTTGCTCCAAATCAGAAATTTATTGTAGCCAAAGTCATAAATG
 V L R A T V A P N Q K F I V A K V I N V
 601 TAGCGAATTTAGAAGTATCATTAGGATTAAACGTCGTTAATGCGTATTTAGTGGGTTATA
 A N L E V S L G L N V V N A Y L V G Y K
 661 AGGTAGGAGGTACTTCCTATTTCTTTAACCATCGGAATCTTTGGCTGATGCAAAAACAT
 V G G T S Y F F N D P E S L A D A K T Y
 721 ATCTTTTACAGACACAAAGCAACAAACGCTATCATTTACTGGTAGCTATGCAGATTTTC
 L F T D T K Q Q T L S F T G S Y A D F L
 781 TATCTAGGGCAAACGTACACAGAGAGGATGTGGATTTAGGGGTGCAGGCATTAGATAATT
 S R A N V H R E D V D L G V Q A L D N Y
 841 ACATATATACACTTGAAAAAGTTCAAAGCCAGCAGACATTGCTAAACCTCTAGTTGGTT
 I Y T L E K S S K P A D I A K P L V G F
 901 TTATCGAAATGGTTCCAGAGGCAGCAAGATTCAAATATATTGAGAAAAAGTATTAAGTC
 I E M V P E A A R F K Y I E K K V L S Q
 961 AAATTAGCAAAACCTTTAGGCCGGGTGGTGACATAATTAGCCTTGAGAACAACCTGGGGAG
 I S K T F R P G G D I I S L E N N W G D
 1021 ACCTCTCTTATCAAATACAGAAATGTGTAAATGGTGTATTTCTGAAGCCAGTTCAATTAC
 L S Y Q I Q K C V N G V F L K P V Q L Q
 1081 AACGTGAAAACTATACCAATATCCTAGTGAACAATGTCACCCAAGTAGCAGGTGTCATGG
 R E N Y T N I L V N N V T Q V A G V M G
 1141 GAGTCTTGTTGAATGCAGTCAATTACAAAGTCTGAATGGAAGAAATTATTTTCAACTACC
 V L L N A V N Y K V *
 1201 AAAAGTGGCTGCCATGGCTTTAATCCTACTTTTGCTCTATATATAGAGT AGCATAAATAA
 CR2
 1261 AGGACAACAAATTTATTATTATTGTTGCTAATGCTATATGCTATTTCCCTGTAATATCCT
 C1SR
 1321 CATCTTTCCAATGTATGAATATGATGATGAATTATATATGACAAATAAAGTTTCTACTAG
 1381 TTCTTAAT

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FIG. 3

-180 CCTTGCATTTTCAATAATTCTTTTTCATTGGGATTGTTGTTGTTTGTCTTTATTTTACA
 -120 TCTTATGAAACTGTCGTTTGGTAGCTAATAATAATAATAATAATAATAATAAGAAA
 -60 AAAAATTGACAAAATAAAGGGCAGTTTCCCTATAAAAGCAGGTGATGGGGGAAGGCAAAA
 1 GACCATCTCTCGCTTTCTTTgtaagtaatagtgaagcctctgcccttcttttttgttgac
 61 aaattccattttttgttttactaatagcatgttaatttctagcttctggaaatgagttta
 121 ttatcctttatatgataaacttgtaacattctatctctttttaattattttttataattt
 181 tatgcaaagctattaaaaataatcgtatttcgtataat gataatttggtgtttcttcata ^{CF2} cata _{cacaac}
 241 tggacagGTGAAATCAATATGAAAGGTGGCAAGATGAACCTCTCTATTATGGTGGCTGCA
 M K G G K M N L S I M V A A
 301 TGGTTTTGCTGGAGTTGTATTATATTCGGATGGGCATCGGCTAGGGAAATAGTTTGTCCA
 W F C W S C I I F G W A S A R E I V C P
 361 TTCTCATCAAACCAAACTACAAAGCTGGTTCCTCACTCCAACCTTAACCATTACTTATGAC
 F S S N Q N Y K A G S T P T L T I T Y D
 421 GCTGCTGCTGATAAGAAAACTACGCCAACTTCATTAGAGATCTAAGAGAAGCATTGTCG
 A A A D K K N Y A N F I R D L R E A F G
 481 TTCAGTTATTCAAGCCATGAAATACCAGTCCTACGGGCCACGGTTGCTGCAAATCAGAAA
 F S Y S S H E I P V L R A T V A A N Q K
 541 TTTATTGTAGCCAAAGTCATAAATGTAGCGAATTTAGAAGTATCATTAGGATTAAACGTC
 F I V A K V I N V A N L E V S L G L N V
 600 GTTAATGCATATTTAGTGGCTTATAAGGCAGGAGGTACATCCTATTTCTTTAACGATCCC
 V N A Y L V A Y K A G G T S Y F F N D P
 661 GAATCTTTGGCTGATGCAAAAAATATCTTTTCACAGACACAAAGCAACAAACGCTATCA
 E S L A D A K K Y L F T D T K Q Q T L S
 721 TTTACTGGTAGCTATGCAGATTTTCTATCTAGGGCAAACGTACACAGAGAGGATGTGGAT
 F T G S Y A D F L S R A N V H R E D V D
 781 TTAGGGGTGCTGGCATTAGATAATTACATATATACTTCACAAAAGTTCTCAACCAGCA
 L G V L A L D N Y I Y I L H K S S Q P A
 841 GACATTGCTAAACCTCTAGTTGGTTTTATCGAAATGGTTCAGAGGCAGCAAGATTCAAA
 D I A K P L V G F I E M V P E A A R F K
 901 TATATTGAGAAAAAAGTATTAACCTCAAATTAGCGAAACCTTTAGGCCGCGTGGTGTCTATA
 Y I E K K V L T Q I S E T F R P R G V I
 961 ATTAGCCTTGAGAACAACCTGGGGAGACCTCTCTTATCAAATACAGAAATCTGTAAATGGT
 I S L E N N W G D L S Y Q I Q K S V N G
 1021 ATATTTCTGAAGCCAGTTCAATTGCAACGTGAAACTATACCAATATCCTAGTGAACAAT
 I F L K P V Q L Q R E N Y T N I L V N N
 1081 GTCACCCAAGTAACAGGTCTCATGGGAGTCTTGTTGAATGCAGTCAATTACAAAGTCTCA
 V T Q V T G L M G V L L N A V N Y K V S
 1141 ATGGAAGAAATTATTTTCAACTACCAAAGTGGCTGCCATGGCTTTAATCCTACTTTTGC
 M E E I I F N Y Q K W L P W L *
 1201 TCTATATATAGT AGCATAAATAAAGGACAACAAATTTAGTATTATTGTTGTTGTCCAAAC
 CR2
 1261 ATGTTGCCAATGATATATGCTATTTCCCTGTAATATCCTCATCTTTCCAATGTATGAATA
 1321 TGATGATGTATTATATATGACAAATAAAGTTTCTACTAGTTCTTAAT

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FIG. 4

-180 TTCTTTTTTTTTTTTTTTTTTTGACAGTTGTTATTGTTTGTCTTTATTTTACATCTTATGA
-120 AACTGTCGTTTGGTAGCTAATAATCAAAATAATAATAAAAAATAATAATAATAAGAAAA
-60 AAAAATTGACAAAATAAAGGGCAGTTTCCCTATAAAAGCAGGTGATGGGGGAAGGCAAAA
1 GACCATCTCTCGCTCTCTTCTTCTTTACTTCCCCGTTTGCTCAGTTGCTTTCTTTgtaag
61 taatattgaagcctctgcccttctttttgttgacaaattccattttttgttttactaa
121 tagcatgttaatttctagcttctggaaatgagtttattatactttatatgataaacttgt
181 gaccattctatctctttttaatcatttttataaattttatgcaaactctattataataatcg
CF2
241 tattcgtataat gataatttgtgtttcttcatacaactggacagGTGAAATCAATATGAAA
M K
301 GGTGGAAAGATGAACCTCTCCATTATGGTGGCTGCCTGGTTTTGCTGGAGTAGTATTATA
G G K M N L S I M V A A W F C W S S I I
361 TTCGGATGGGCATCGGCTAGGGAAATAGTTTGTCCATTCTCATCAAACCAAACTACAAA
F G W A S A R E I V C P F S S N Q N Y K
421 GCTGGTCCACTCCAACCTTAGCCATTACTTATGACGCTACTACTGATAAGAAAACTAC
A G S T P T L A I T Y D A T T D K K N Y
481 GCCCAGTTCATTGAAGATCTAAGAGAAGCATTGACTTCAGTTATTTAAGCCATAAAATA
A Q F I E D L R E A F D F S Y L S H K I
541 CCAGTCTTACGGGCCACGGTTGCTGCAAATCAGAAATTTATTGTAGCCAAAGTCATAAAT
P V L R A T V A A N Q K F I V A K V I N
601 TCTGGGGACATAGAAGTATCAGTAGGATTAAACGTCATTAATGCATATCTAGTGGCTTAT
S G D I E V S V G L N V I N A Y L V A Y
661 AAGGTAGGAAGTAATTCCTATTTCTTTAACGATTCGGAATCTTTGGCTGATGCAAAAAA
K V G S N S Y F F N D S E S L A D A K K
721 AATCTTTTCACAGACACAAACCAACAACTAGCATTTACTGGTAGCTATGCAGATTTT
N L F T D T N Q Q T L A F T G S Y A D F
781 GAATCTAGGGCAAAGTTACATAGAGAGGAAGTGGATTTAGGAGTGGTGGCATTGGATAAT
E S R A K L H R E E V D L G V V A L D N
841 TACGTATATACACTTGAAAAAAGTTCTCAGCCAGCAGACATTGCTAAACCTCTAGTTGGT
Y V Y T L E K S S Q P A D I A K P L V G
901 TTTATCGAAATGGTTCAGAGGCAGCAAGATTCAAATATATTGAGAAAAAATATCAACT
F I E M V P E A A R F K Y I E K K I S T
961 CAAATTAGCAAAACCTTTAGGCCGCGTGGTGACATAATTAGCCTTGAGAACAACCTGGGGA
Q I S K T F R P R G D I I S L E N N W G
1021 GACCTCTCTTATCAAATACAGAAATCTGTTGATGATGTATTTCTGAAGCCAGTTCAATTG
D L S Y Q I Q K S V D D V F L K P V Q L
1081 CAACGTGAAAACATACCAATATCCTAGTGAACAATGTCACCCAAGTAAAAGGTCTCATG
Q R E N Y T N I L V N N V T Q V K G L M
1141 GGAGTCTTGTTGAATGCAGTCAATTACAAAGTCTCAATGGAAGAAATTATTTTCAACGAC
G V L L N A V N Y K V S M E E I I F N D
1201 CAAAAGTGGCTGCCATGGCTTTAATCCTACTTTTGCTCTATATATAGTAGCATAAATAAA
Q K W L P W L * CR2
1261 GGACAACAAATTTAGTATTATTGTTGTTGTCCAAACATGTTGCTAATGATATATGCTCTT
C2ASR
1321 TCCCTGTAATATCCTCGTCTTTCCAATGTATGAATATGATGATGAATTATATATGACAAA
1381 TAAAGTTTCTACTAGTTCTTAAT

FIG. 6

Curcin 2A	20	40	60	80
ABZ04128	MKGGKRNLSIMVAWFCWSS	IIIFGWASAREIVCPFSSNQYKAGSTPTLAI	ITVDATDKNKYAOFIEDLREARDFSYLSH	: 80
AAR08395	MKGGKRNLSIMVAWFCWSS	IIIFGWASAREIVCPFSSNQYKAGSTPTLAI	ITVDATDKNKYAOFIEDLREARDFSYLSH	: 80
ABW17545	MKGGKRNLSIMVAWFCWSS	IIIFGWASAREIVCPFSSNQYKAGSTPTLAI	ITVDATDKNKYAOFIEDLREARDFSYLSH	: 80
Curcin 1	MKGGKRNLSIMVAWFCWSS	IIIFGWASAREIVCPFSSNQYKAGSTPTLAI	ITVDATDKNKYAOFIEDLREARDFSYLSH	: 80
AAL58089	MKGGKRNLSIMVAWFCWSS	IIIFGWASAREIVCPFSSNQYKAGSTPTLAI	ITVDATDKNKYAOFIEDLREARDFSYLSH	: 80
Curcin 2	MKGGKRNLSIMVAWFCWSS	IIIFGWASAREIVCPFSSNQYKAGSTPTLAI	ITVDATDKNKYAOFIEDLREARDFSYLSH	: 80
AAL86778	MKGGKRNLSIMVAWFCWSS	IIIFGWASAREIVCPFSSNQYKAGSTPTLAI	ITVDATDKNKYAOFIEDLREARDFSYLSH	: 80
Curcin 2A	100	120	140	160
ABZ04128	KLPVLRATVAANQKFIIVAKVINS	GDIEVSVGLNVINAVLVAIKVGSN	SYFFNDESLADAKKNLFTDTNQQTLAFTGSYA	: 160
AAR08395	KLPVLRATVAANQKFIIVAKVINS	GDIEVSVGLNVINAVLVAIKVGSN	SYFFNDESLADAKKNLFTDTNQQTLAFTGSYA	: 160
ABW17545	KLPVLRATVAANQKFIIVAKVINS	GDIEVSVGLNVINAVLVAIKVGSN	SYFFNDESLADAKKNLFTDTNQQTLAFTGSYA	: 160
Curcin 1	KLPVLRATVAANQKFIIVAKVINS	GDIEVSVGLNVINAVLVAIKVGSN	SYFFNDESLADAKKNLFTDTNQQTLAFTGSYA	: 160
AAL58089	EIPVLRATVAANQKFIIVAKVINS	EVSLGLNVINAVLVAIKVGSN	SYFFNDESLADAKKNLFTDTNQQTLAFTGSYA	: 160
Curcin 2	EIPVLRATVAANQKFIIVAKVINS	EVSLGLNVINAVLVAIKVGSN	SYFFNDESLADAKKNLFTDTNQQTLAFTGSYA	: 160
AAL86778	EIPVLRATVAANQKFIIVAKVINS	EVSLGLNVINAVLVAIKVGSN	SYFFNDESLADAKKNLFTDTNQQTLAFTGSYA	: 160
Curcin 2A	180	200	220	240
ABZ04128	DEESRAKLIHREEDVLDGVV	ALDNYVYITLEKSSOPADIAKPLVGF	FIEMVPEAARVYIEKKISTQISKTERPRGDIISLENN	: 240
AAR08395	DEESRAKLIHREEDVLDGVV	ALDNYVYITLEKSSOPADIAKPLVGF	FIEMVPEAARVYIEKKISTQISKTERPRGDIISLENN	: 240
ABW17545	DEESRAKLIHREEDVLDGVV	ALDNYVYITLEKSSOPADIAKPLVGF	FIEMVPEAARVYIEKKISTQISKTERPRGDIISLENN	: 240
Curcin 1	DEESRAKLIHREEDVLDGVV	ALDNYVYITLEKSSOPADIAKPLVGF	FIEMVPEAARVYIEKKISTQISKTERPRGDIISLENN	: 240
AAL58089	DELSRANVHREDVDLGV	QALDNYVYITLEKSSOPADIAKPLVGF	FIEMVPEAARVYIEKKVLSQISKTERPRGDIISLENN	: 240
Curcin 2	DELSRANVHREDVDLGV	QALDNYVYITLEKSSOPADIAKPLVGF	FIEMVPEAARVYIEKKVLSQISKTERPRGDIISLENN	: 240
AAL86778	DELSRANVHREDVDLGV	QALDNYVYITLEKSSOPADIAKPLVGF	FIEMVPEAARVYIEKKVLSQISKTERPRGDIISLENN	: 240
Curcin 2A	260	280	300	
ABZ04128	WGDLSYQIQKSVDDVFLK	VPQLORENYTNILVNNVTQV	KGLMGVLLNANVKSMEIIIFNDQKWL	PWL : 309
AAR08395	WGDLSYQIQKSVDDVFLK	VPQLORENYTNILVNNVTQV	KGLMGVLLNANVKSMEIIIFNDQKWL	PWL : 309
ABW17545	WGDLSYQIQKSVDDVFLK	VPQLORENYTNILVNNVTQV	KGLMGVLLNANVKSMEIIIFNDQKWL	PWL : 309
Curcin 1	WGDLSYQIQKSVDDVFLK	VPQLORENYTNILVNNVTQV	KGLMGVLLNANVKSMEIIIFNDQKWL	PWL : 309
AAL58089	WGDLSYQIQKSVNGVFLK	VPQLORENYTNILVNNVTQV	KGLMGVLLNANVKSMEIIIFNDQKWL	PWL : 293
Curcin 2	WGDLSYQIQKSVNGVFLK	VPQLORENYTNILVNNVTQV	KGLMGVLLNANVKSMEIIIFNDQKWL	PWL : 293
AAL86778	WGDLSYQIQKSVDDVFLK	VPQLORENYTNILVNNVTQV	KGLMGVLLNANVKSMEIIIFNDQKWL	PWL : 293

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FIG. 7

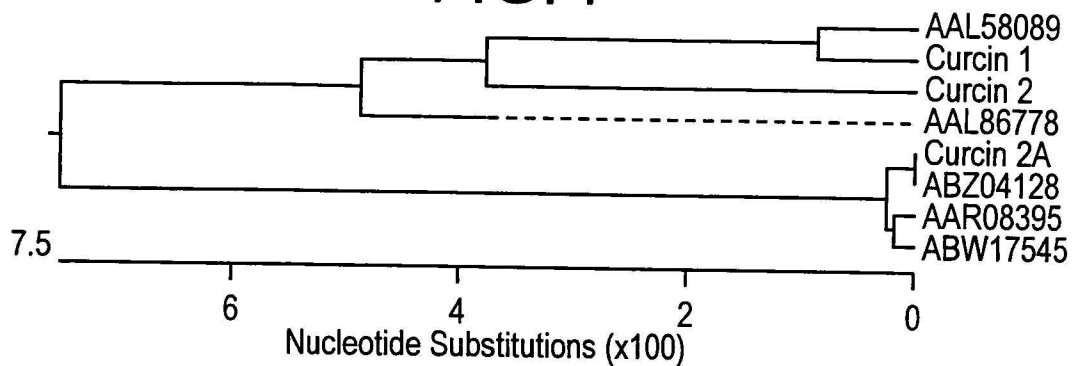


FIG. 8A

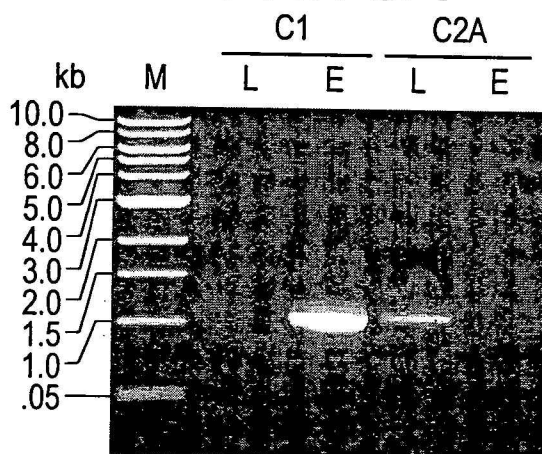


FIG. 8B

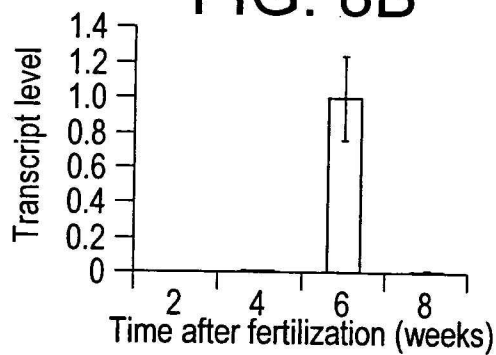
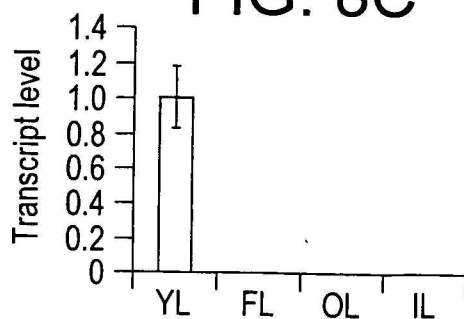


FIG. 8C



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FIG. 9

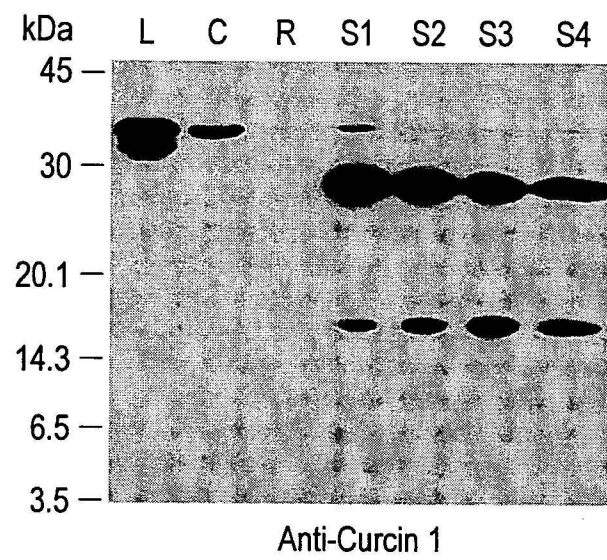
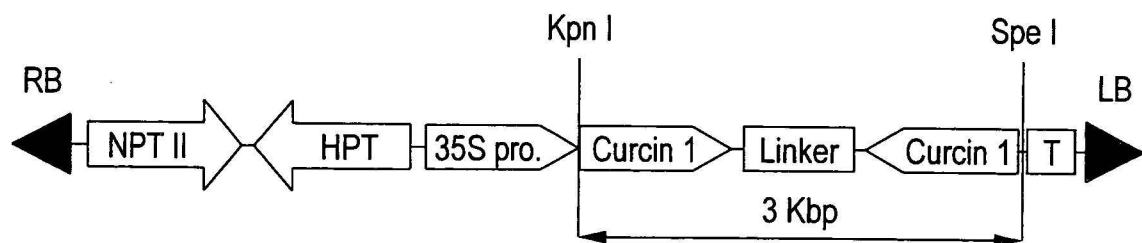


FIG. 14



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FIG. 10A

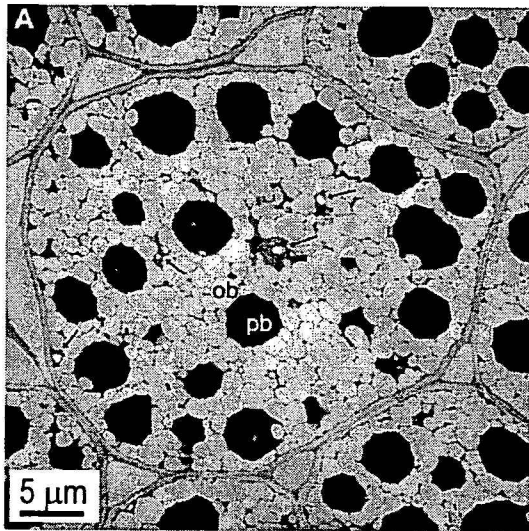


FIG. 10B

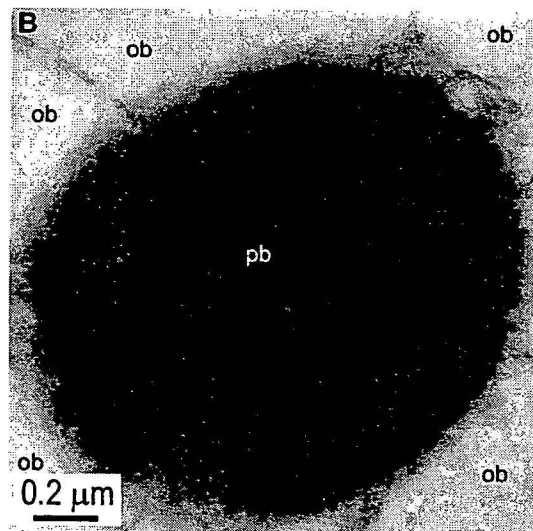


FIG. 10C

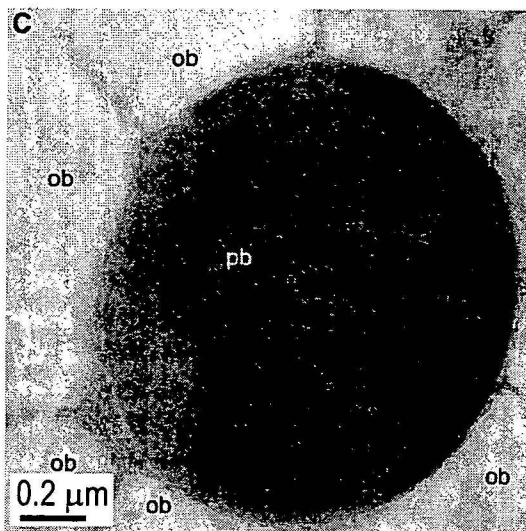
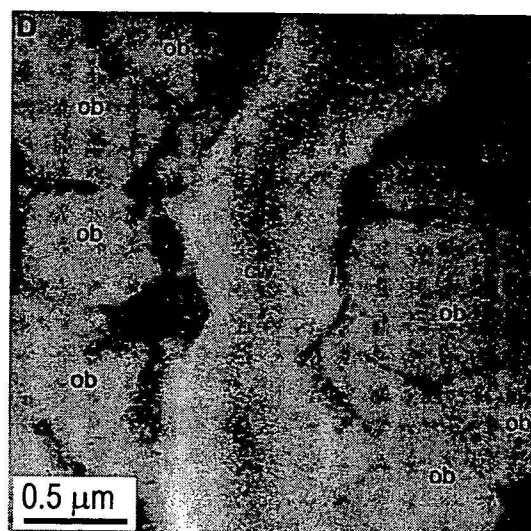


FIG. 10D



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FIG. 11A

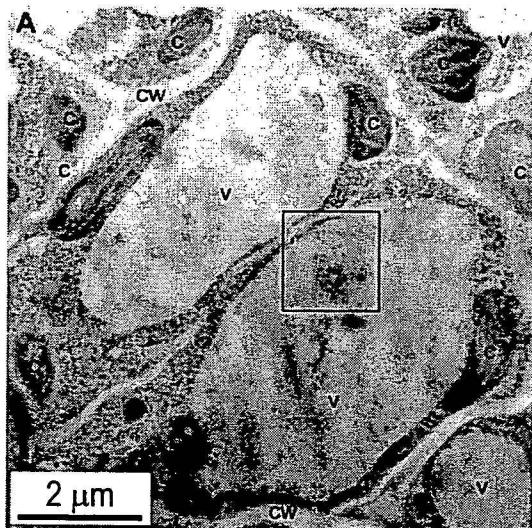


FIG. 11B

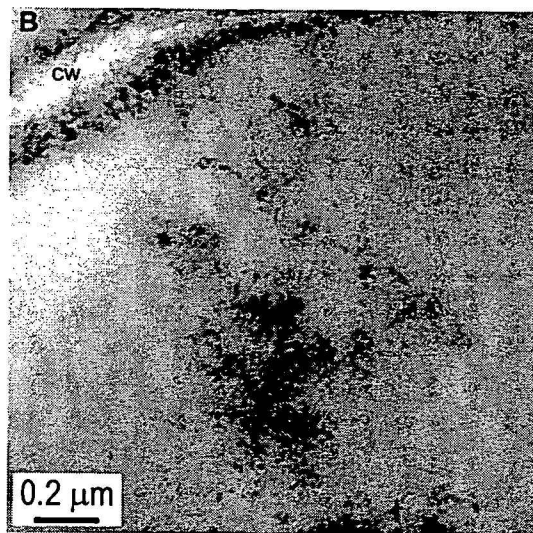


FIG. 11C

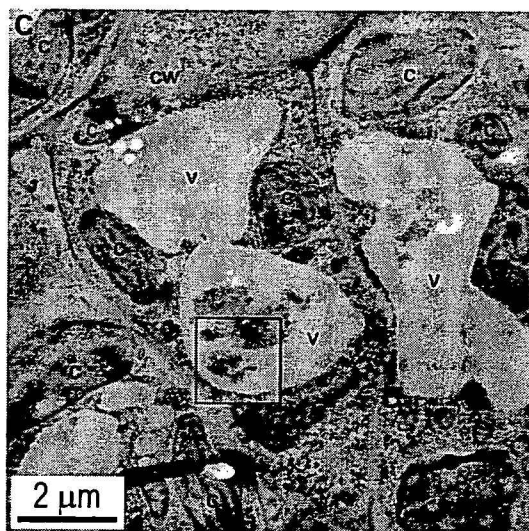
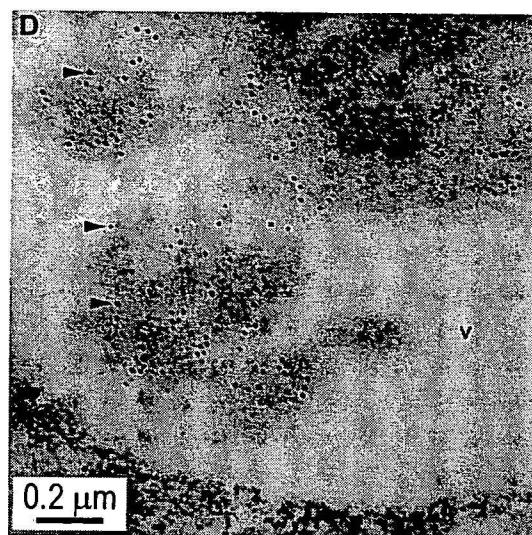


FIG. 11D



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FIG. 12A

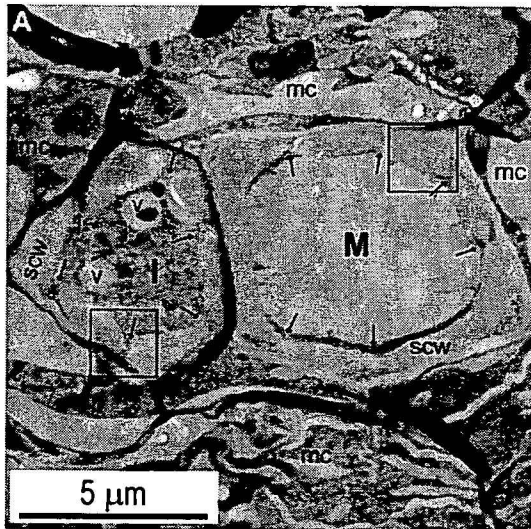


FIG. 12B

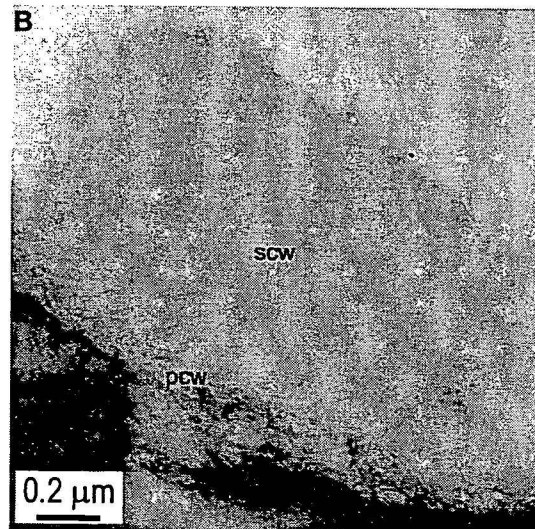


FIG. 12C

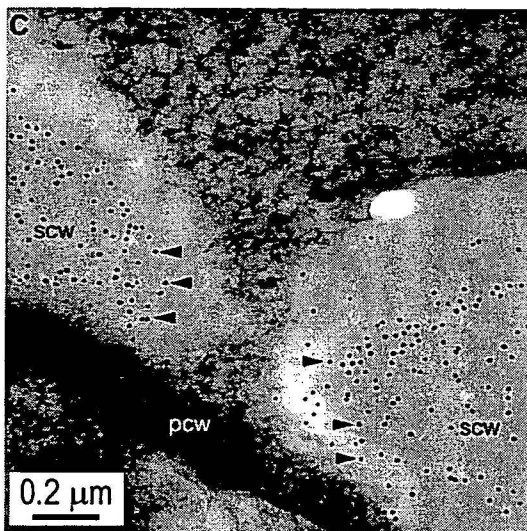
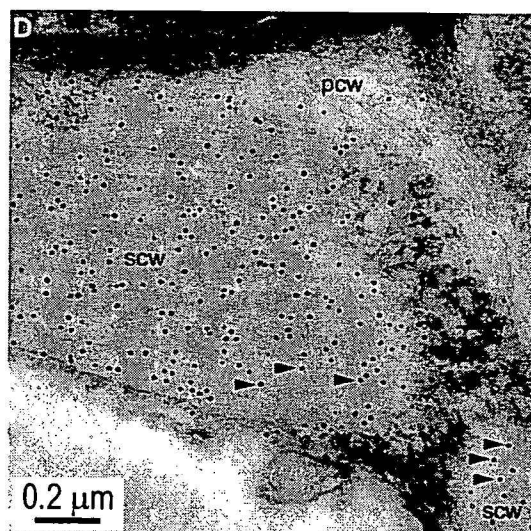


FIG. 12D



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FIG. 13A

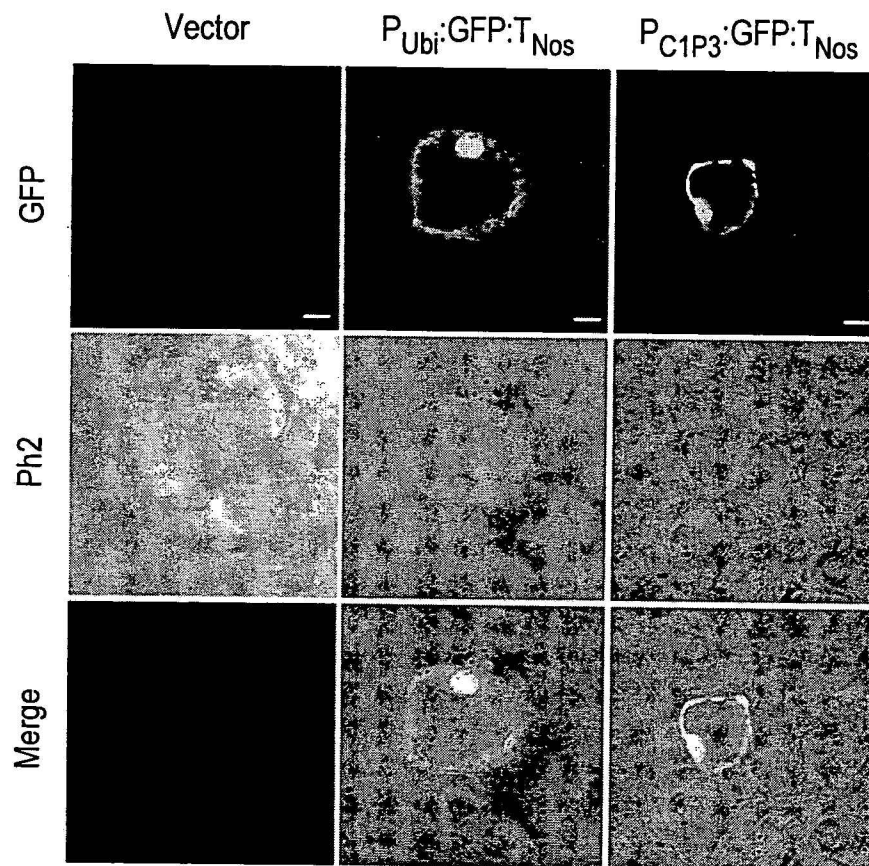
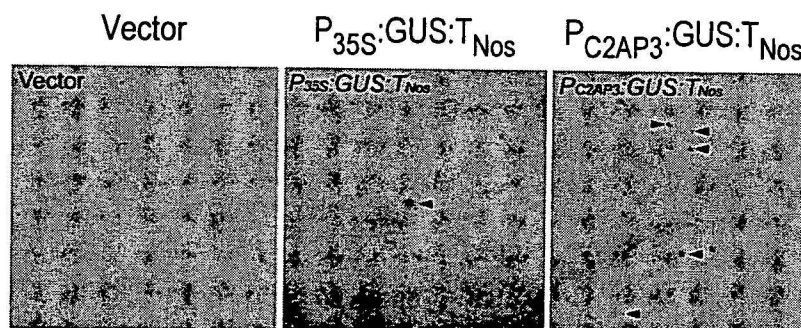


FIG. 13B

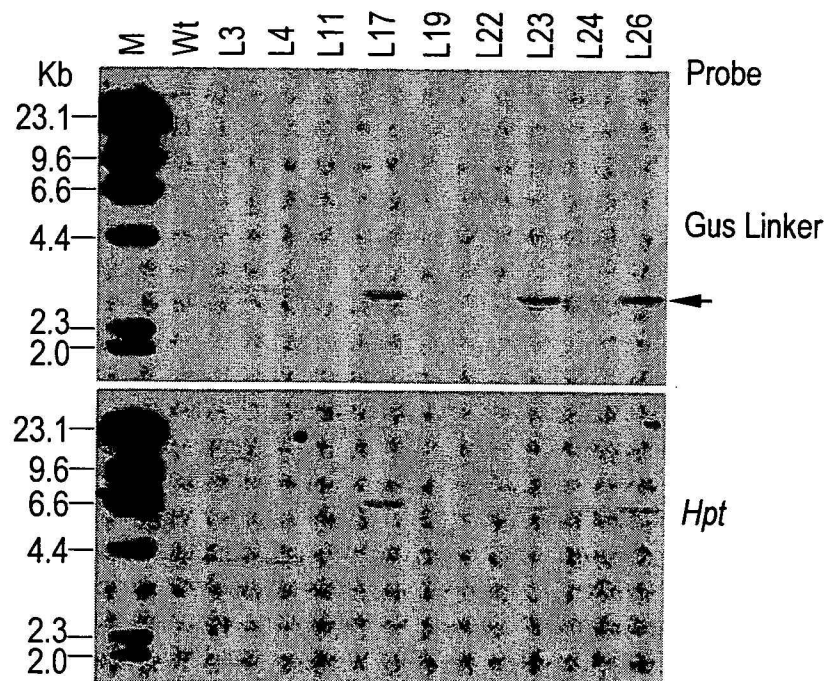


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FIG. 15



FIG. 16



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FIG. 17A

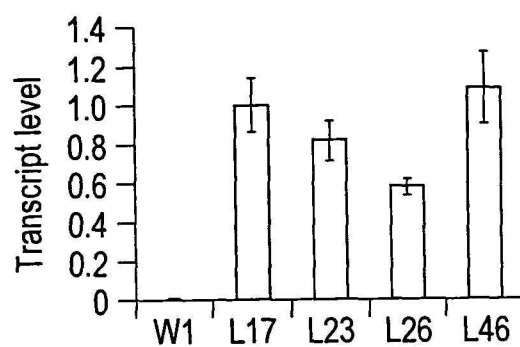


FIG. 17B

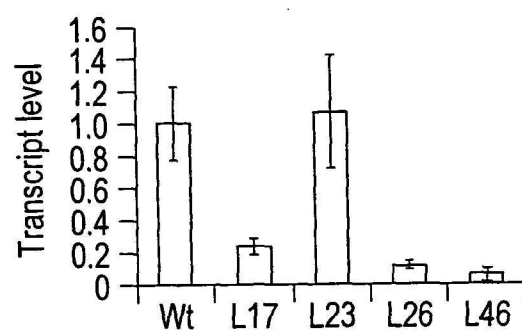


FIG. 18

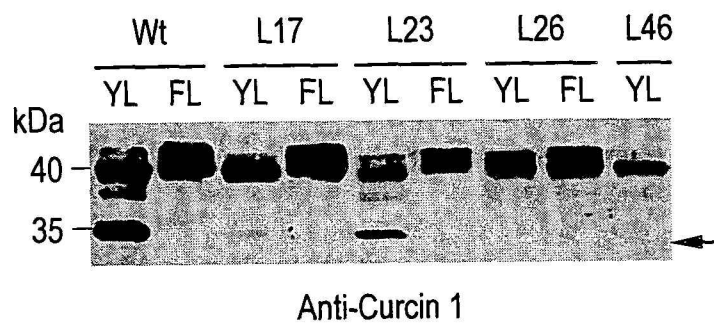


FIG. 19A

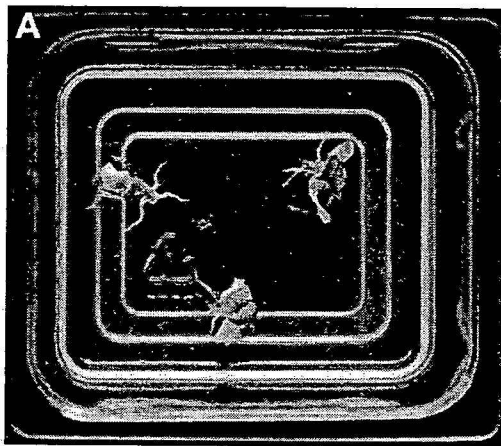


FIG. 19B

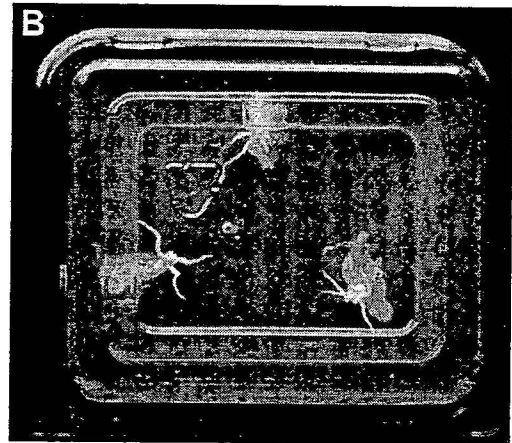


FIG. 19C

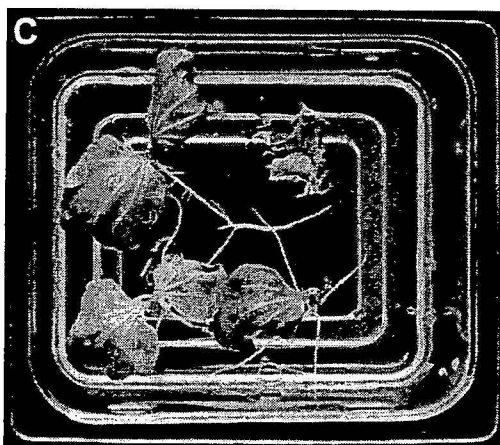


FIG. 19D

