

Supplementary Information

Table S1: List of *Cotton leaf curl Multan betasatellite* accessions identified from cotton

No.	Host	Year	Location	Accession numbers
1	<i>Gossypium hirsutum</i>	1996	Pakistan	AJ298903
2	<i>Gossypium hirsutum</i>	1995	India	AJ291601
3	<i>Gossypium hirsutum</i>	1996	Sudan	AY077797
4	<i>Gossypium hirsutum</i>	2000	Pakistan	AJ292769
5	<i>Gossypium hirsutum</i>	2001	India	AJ316037
6	<i>Gossypium hirsutum</i>	2001	India	AJ316038
7	<i>Gossypium hirsutum</i>	2001	Sudan	AY044140
10	<i>Gossypium hirsutum</i>	2001	India	AJ315700
11	<i>Gossypium hirsutum</i>	2004	Sudan	AY669328
12	<i>Gossypium hirsutum</i>	2004	India	AY705381
13	<i>Gossypium hirsutum</i>	2004	India	NC_007219
14	<i>Gossypium hirsutum</i>	2005	India	DQ191161
15	<i>Gossypium hirsutum</i>	2005	Sudan	NC_006935
16	<i>Gossypium hirsutum</i>	2006	India	DQ364230
17	<i>Gossypium punctatum</i>	2006	Pakistan	EU384588
18	<i>Gossypium punctatum</i>	2006	Pakistan	EU384580
19	<i>Gossypium punctatum</i>	2006	Pakistan	EU384581
20	<i>Gossypium punctatum</i>	2006	Pakistan	EU384582
21	<i>Gossypium punctatum</i>	2006	Pakistan	EU384583
22	<i>Gossypium punctatum</i>	2006	Pakistan	EU384584
23	<i>Gossypium punctatum</i>	2006	Pakistan	EU384585
24	<i>Gossypium punctatum</i>	2006	Pakistan	EU384586
25	<i>Gossypium punctatum</i>	2006	Pakistan	EU384588
26	<i>Gossypium punctatum</i>	2006	Pakistan	EU384589
27	<i>Gossypium latifolium</i>	2006	Pakistan	EU384590
28	<i>Gossypium davidsonii</i>	2006	Pakistan	EU384592
29	<i>Gossypium darwinii</i>	2006	Pakistan	EU386596
30	<i>Gossypium darwinii</i>	2006	Pakistan	EU386597
31	<i>Gossypium darwinii</i>	2006	Pakistan	EU386598
32	<i>Gossypium darwinii</i>	2006	Pakistan	EU386599
33	<i>Gossypium darwinii</i>	2006	Pakistan	EU386600
34	<i>Gossypium darwinii</i>	2006	Pakistan	EU386601
35	<i>Gossypium darwinii</i>	2006	Pakistan	EU386602
36	<i>Gossypium darwinii</i>	2006	Pakistan	EU386603
37	<i>Gossypium darwinii</i>	2006	Pakistan	EU386604
38	<i>Gossypium darwinii</i>	2006	Pakistan	EU384605

39	<i>Gossypium punctatum</i>	2006	Pakistan	EU384587
40	<i>Gossypium hirsutum</i>	2007	Pakistan	AM774306
41	<i>Gossypium hirsutum</i>	2007	Pakistan	AM774307
42	<i>Gossypium hirsutum</i>	2007	Pakistan	AM774308
43	<i>Gossypium hirsutum</i>	2007	Pakistan	AM774309
44	<i>Gossypium hirsutum</i>	2007	Pakistan	AM774310
45	<i>Gossypium hirsutum</i>	2007	Pakistan	AM774311
46	<i>Gossypium hirsutum</i>	2007	Pakistan	AM774312
47	<i>Gossypium hirsutum</i>	2007	Pakistan	AM774313
48	<i>Gossypium hirsutum</i>	2008	India	GQ369730
49	<i>Gossypium hirsutum</i>	2008	India	GQ369730
50	<i>Gossypium hirsutum</i>	2008	India	GQ369730
51	<i>Gossypium hirsutum</i>	2009	India	NC_013802
52	<i>Gossypium hirsutum</i>	2009	India	FN658722
53	<i>Gossypium hirsutum</i>	2009	India	FN658737
54	<i>Gossypium hirsutum</i>	2009	Pakistan	FN554719
55	<i>Gossypium hirsutum</i>	2009	Pakistan	FN554720
56	<i>Gossypium hirsutum</i>	2009	Pakistan	FN554721
57	<i>Gossypium hirsutum</i>	2009	Pakistan	FN554722
58	<i>Gossypium hirsutum</i>	2009	Pakistan	FN554723
59	<i>Gossypium hirsutum</i>	2009	Pakistan	FN554724
60	<i>Gossypium hirsutum</i>	2010	India	GU440581
61	<i>Gossypium hirsutum</i>	2010	China	GQ906588
62	<i>Gossypium hirsutum</i>	2010	India	HM461864
63	<i>Gossypium hirsutum</i>	2010	India	HM461865
64	<i>Gossypium hirsutum</i>	2010	India	HM037921
65	<i>Gossypium hirsutum</i>	2010	India	HM037922
66	<i>Gossypium hirsutum</i>	2010	India	HM146307
67	<i>Gossypium hirsutum</i>	2010	India	HM146308
68	<i>Gossypium hirsutum</i>	2010	India	HQ158008
69	<i>Gossypium hirsutum</i>	2010	India	HQ343201
70	<i>Gossypium hirsutum</i>	2010	Pakistan	HF542911
71	<i>Gossypium hirsutum</i>	2010	India	NC_017829
72	<i>Gossypium hirsutum</i>	2010	India	FR751147
73	<i>Gossypium hirsutum</i>	2010	India	FR751148
74	<i>Gossypium hirsutum</i>	2011	India	JF502374
75	<i>Gossypium hirsutum</i>	2011	India	JF502375
76	<i>Gossypium hirsutum</i>	2011	India	JF502376
77	<i>Gossypium hirsutum</i>	2011	India	JF502377
78	<i>Gossypium hirsutum</i>	2011	India	JF502378
79	<i>Gossypium hirsutum</i>	2011	India	JF502379
80	<i>Gossypium hirsutum</i>	2011	India	JF502380

81	<i>Gossypium hirsutum</i>	2011	India	JF502381
82	<i>Gossypium hirsutum</i>	2011	India	JF502382
83	<i>Gossypium hirsutum</i>	2011	India	JF502383
84	<i>Gossypium hirsutum</i>	2011	India	JF502384
85	<i>Gossypium hirsutum</i>	2011	India	JF502385
86	<i>Gossypium hirsutum</i>	2011	India	JF502386
87	<i>Gossypium hirsutum</i>	2011	India	JF502387
88	<i>Gossypium hirsutum</i>	2011	India	JF502388
89	<i>Gossypium hirsutum</i>	2011	India	JF502389
90	<i>Gossypium hirsutum</i>	2011	India	JF502390
91	<i>Gossypium hirsutum</i>	2011	India	JF502391
92	<i>Gossypium hirsutum</i>	2011	India	JF502392
93	<i>Gossypium hirsutum</i>	2011	India	JF502393
94	<i>Gossypium hirsutum</i>	2011	India	JF502394
95	<i>Gossypium hirsutum</i>	2011	India	JF502395
96	<i>Gossypium hirsutum</i>	2011	India	JF502396
97	<i>Gossypium hirsutum</i>	2011	India	JF502397
98	<i>Gossypium hirsutum</i>	2011	India	JF502398
99	<i>Gossypium hirsutum</i>	2011	India	JF509751
100	<i>Gossypium hirsutum</i>	2011	India	JF509752
101	<i>Gossypium hirsutum</i>	2011	China	JQ317604
102	<i>Gossypium hirsutum</i>	2011	India	FR877537
103	<i>Gossypium hirsutum</i>	2011	Pakistan	HE601938
104	<i>Gossypium hirsutum</i>	2011	Pakistan	HE601939
105	<i>Gossypium hirsutum</i>	2011	Pakistan	HE601940
106	<i>Gossypium hirsutum</i>	2011	Pakistan	HE601941
107	<i>Gossypium hirsutum</i>	2011	Pakistan	HE601942
108	<i>Gossypium hirsutum</i>	2011	Pakistan	HE601943
109	<i>Gossypium hirsutum</i>	2011	Pakistan	HE601944
110	<i>Gossypium hirsutum</i>	2011	Pakistan	HE601945
111	<i>Gossypium hirsutum</i>	2011	Pakistan	HE601946
112	<i>Gossypium hirsutum</i>	2011	Pakistan	HE601947
113	<i>Gossypium hirsutum</i>	2011	Pakistan	HE601948
114	<i>Gossypium hirsutum</i>	2012	Pakistan	HF549185
115	<i>Gossypium hirsutum</i>	2012	Pakistan	HF549186
116	<i>Gossypium hirsutum</i>	2012	Pakistan	HF549187
117	<i>Gossypium hirsutum</i>	2012	Pakistan	HF549188
118	<i>Gossypium hirsutum</i>	2012	China	KC171655
119	<i>Gossypium hirsutum</i>	2012	Pakistan	HE965435
120	<i>Gossypium hirsutum</i>	2012	Pakistan	HE965436
121	<i>Gossypium hirsutum</i>	2012	Pakistan	HE965437
122	<i>Gossypium hirsutum</i>	2012	Pakistan	HE965438

123	<i>Gossypium hirsutum</i>	2012	Pakistan	HE965439
124	<i>Gossypium hirsutum</i>	2012	Pakistan	HE965440
125	<i>Gossypium hirsutum</i>	2012	Pakistan	HE965441
126	<i>Gossypium hirsutum</i>	2012	Pakistan	HE965442
127	<i>Gossypium hirsutum</i>	2012	Pakistan	HE965443
128	<i>Gossypium hirsutum</i>	2012	Pakistan	HE965444
129	<i>Gossypium hirsutum</i>	2012	Pakistan	HE965445
130	<i>Gossypium hirsutum</i>	2012	Pakistan	HE965446
131	<i>Gossypium hirsutum</i>	2012	Pakistan	HE965447
132	<i>Gossypium hirsutum</i>	2012	Pakistan	HE965448
133	<i>Gossypium hirsutum</i>	2012	Pakistan	HE965449
134	<i>Gossypium hirsutum</i>	2012	Pakistan	HE965450
135	<i>Gossypium hirsutum</i>	2012	Pakistan	HE965451
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138	<i>Gossypium hirsutum</i>	2012	Pakistan	HE965454
139	<i>Gossypium hirsutum</i>	2012	Pakistan	HE965455
140	<i>Gossypium hirsutum</i>	2012	Pakistan	HE965456
141	<i>Gossypium hirsutum</i>	2012	Pakistan	HE978339
142	<i>Gossypium hirsutum</i>	2012	Pakistan	HE978340
143	<i>Gossypium hirsutum</i>	2012	Pakistan	HE978341
144	<i>Gossypium hirsutum</i>	2012	Pakistan	HE978342
145	<i>Gossypium hirsutum</i>	2012	Pakistan	HE978343
146	<i>Gossypium hirsutum</i>	2012	Pakistan	HE978344
147	<i>Gossypium hirsutum</i>	2012	Pakistan	HF564596
148	<i>Gossypium hirsutum</i>	2012	Pakistan	HF564596
149	<i>Gossypium hirsutum</i>	2012	Pakistan	HF564597
150	<i>Gossypium hirsutum</i>	2012	Pakistan	HF564598
151	<i>Gossypium hirsutum</i>	2012	Pakistan	HF564599
152	<i>Gossypium hirsutum</i>	2012	Pakistan	HF564603
153	<i>Gossypium hirsutum</i>	2012	Pakistan	HF564604
154	<i>Gossypium arboreum</i>	2013	Pakistan	HF912231
155	<i>Gossypium arboreum</i>	2013	Pakistan	HF912232
156	<i>Gossypium hirsutum</i>	2013	Pakistan	HF952152
157	<i>Gossypium hirsutum</i>	2013	Pakistan	HF952153
158	<i>Gossypium hirsutum</i>	2013	Pakistan	HF952156
159	<i>Gossypium arboreum</i>	2013	Pakistan	HG428700
160	<i>Gossypium hirsutum</i>	2013	Pakistan	HG428701
161	<i>Gossypium hirsutum</i>	2013	Pakistan	HG428702
162	<i>Gossypium hirsutum</i>	2013	Pakistan	HG428703
163	<i>Gossypium hirsutum</i>	2013	Pakistan	HG428707
164	<i>Gossypium hirsutum</i>	2013	Pakistan	HG422577

165	<i>Gossypium hirsutum</i>	2013	Pakistan	HG422578
166	<i>Gossypium hirsutum</i>	2013	Pakistan	HG422579
167	<i>Gossypium hirsutum</i>	2013	Pakistan	HG422580
168	<i>Gossypium hirsutum</i>	2013	Pakistan	HG422581
169	<i>Gossypium hirsutum</i>	2013	Pakistan	HG422582
170	<i>Gossypium hirsutum</i>	2013	Pakistan	HG422583
171	<i>Gossypium hirsutum</i>	2013	Pakistan	HG000665
172	<i>Gossypium hirsutum</i>	2014	India	KP015741
173	<i>Gossypium hirsutum</i>	2014	India	KP015742
174	<i>Gossypium hirsutum</i>	2014	India	KP015743
175	<i>Gossypium hirsutum</i>	2014	Pakistan	HG934394
176	<i>Gossypium hirsutum</i>	2014	Pakistan	HG934395
177	<i>Gossypium hirsutum</i>	2014	Pakistan	HG934396
178	<i>Gossypium hirsutum</i>	2014	Pakistan	LK995398
179	<i>Gossypium hirsutum</i>	2014	Pakistan	LK995399
180	<i>Gossypium hirsutum</i>	2014	Pakistan	HF567946
181	<i>Gossypium hirsutum</i>	2014	India	KJ614434
182	<i>Gossypium hirsutum</i>	2014	India	KJ614435
183	<i>Gossypium hirsutum</i>	2014	India	KJ614436
184	<i>Gossypium hirsutum</i>	2014	India	KM070822
185	<i>Gossypium hirsutum</i>	2015	China	KP762787
186	<i>Gossypium hirsutum</i>	2015	Pakistan	KR816003
187	<i>Gossypium hirsutum</i>	2015	Pakistan	KR816004
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189	<i>Gossypium hirsutum</i>	2015	Pakistan	KR816006
190	<i>Gossypium hirsutum</i>	2015	Pakistan	KR816007
191	<i>Gossypium hirsutum</i>	2015	India	KT228323
192	<i>Gossypium hirsutum</i>	2015	India	KT228324
193	<i>Gossypium hirsutum</i>	2015	India	KT228325
194	<i>Gossypium hirsutum</i>	2015	India	KT228326
195	<i>Gossypium hirsutum</i>	2015	Pakistan	LN845926
196	<i>Gossypium hirsutum</i>	2015	Pakistan	LN845927
197	<i>Gossypium hirsutum</i>	2015	Pakistan	LN845928
198	<i>Gossypium hirsutum</i>	2015	Pakistan	LN867444
199	<i>Gossypium hirsutum</i>	2015	Pakistan	LN867445
200	<i>Gossypium hirsutum</i>	2015	Pakistan	LN867446
201	<i>Gossypium hirsutum</i>	2015	Pakistan	LN867447
202	<i>Gossypium hirsutum</i>	2015	Pakistan	LN867448
203	<i>Gossypium hirsutum</i>	2015	Pakistan	LN867449
204	<i>Gossypium hirsutum</i>	2015	Pakistan	LN867450
205	<i>Gossypium hirsutum</i>	2015	Pakistan	LN908793
206	<i>Gossypium hirsutum</i>	2015	Pakistan	LN908794

207	<i>Gossypium hirsutum</i>	2016	Pakistan	KX656816
208	<i>Gossypium hirsutum</i>	2016	Pakistan	KX656817
209	<i>Gossypium hirsutum</i>	2016	Pakistan	KX656818
210	<i>Gossypium hirsutum</i>	2016	Pakistan	KX656819
211	<i>Gossypium hirsutum</i>	2016	Pakistan	KX656820
212	<i>Gossypium hirsutum</i>	2016	Pakistan	KX656821
213	<i>Gossypium hirsutum</i>	2016	Pakistan	KX656822
214	<i>Gossypium hirsutum</i>	2016	Pakistan	KX656823
215	<i>Gossypium hirsutum</i>	2016	Pakistan	KX656824
216	<i>Gossypium hirsutum</i>	2016	Pakistan	KX656825
217	<i>Gossypium hirsutum</i>	2016	Pakistan	KX656826
218	<i>Gossypium hirsutum</i>	2016	Pakistan	KX656827
219	<i>Gossypium hirsutum</i>	2016	Pakistan	KX656828