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Supplementary Table 1. Germplasm source and marker classification of 100 advanced breeding lines.

Lane	Genotype	Source	*Rf3*	*Rf4*	Marker class
1	DUBRAJ Sel-1	IIRR, Hyderabad	+	-	*Rf3* only
2	SN-2071	RRU, PJTAU	+	+	*Rf3* + *Rf4*
3	VISHNU BHOG Sel-1	IIRR, Hyderabad	-	-	Neither
4	BADHSH Bhog sel-1	IIRR, Hyderabad	-	-	Neither
5	TCDM-1	IIRR, Hyderabad	+	-	*Rf3* only
6	NLR-40054	IIRR, Hyderabad	-	+	*Rf4* only
7	BRRI DHAN-75	IIRR, Hyderabad	-	-	Neither
8	DHANGURI	IIRR, Hyderabad	+	-	*Rf3* only
9	GAR-1	IIRR, Hyderabad	-	-	Neither
10	GR-101	IIRR, Hyderabad	-	-	Neither
11	GAR-14	IIRR, Hyderabad	-	-	Neither
12	TULASI MANJARI	IIRR, Hyderabad	-	-	Neither
13	HUR-1309	IIRR, Hyderabad	-	-	Neither
14	HUR 4-3	IIRR, Hyderabad	-	-	Neither
15	TARUN BHOG	IIRR, Hyderabad	-	-	Neither
16	HUR-917	IIRR, Hyderabad	+	-	*Rf3* only
17	HUR-105	IIRR, Hyderabad	+	-	*Rf3* only
18	JAWAPHOOL MUTANT	IIRR, Hyderabad	+	-	*Rf3* only
19	CR SUGANDHAN-907	IIRR, Hyderabad	+	-	*Rf3* only
20	SAMUND CHINI	IIRR, Hyderabad	+	-	*Rf3* only
21	RNR-43965	RRU, PJTAU	-	+	*Rf4* only
22	RNR-44035	RRU, PJTAU	+	-	*Rf3* only
23	RNR-44039	RRU, PJTAU	+	+	*Rf3* + *Rf4*
24	SN-2183	RRU, PJTAU	+	+	*Rf3* + *Rf4*
25	RNR-44045	RRU, PJTAU	+	-	*Rf3* only
26	SN-2696	RRU, PJTAU	+	+	*Rf3* + *Rf4*
27	RNR-44068	RRU, PJTAU	-	+	*Rf4* only
28	RNR-44076	RRU, PJTAU	-	-	Neither
29	RNR-44079	RRU, PJTAU	+	-	*Rf3* only
30	RNR-44082	RRU, PJTAU	-	-	Neither
31	RNR-44089	RRU, PJTAU	+	-	*Rf3* only

Lane	Genotype	Source	*Rf3*	*Rf4*	Marker class
32	RNR-44153	RRU, PJTAU	+	-	*Rf3* only
33	SN-2705	RRU, PJTAU	+	+	*Rf3* + *Rf4*
34	SN-2717	RRU, PJTAU	+	+	*Rf3* + *Rf4*
35	RNR-44158	RRU, PJTAU	-	-	Neither
36	RNR-44163	RRU, PJTAU	+	-	*Rf3* only
37	RNR-44175	RRU, PJTAU	-	+	*Rf4* only
38	RNR-44187	RRU, PJTAU	+	-	*Rf3* only
39	SN-2743	RRU, PJTAU	+	+	*Rf3* + *Rf4*
40	RNR-44189	RRU, PJTAU	-	-	Neither
41	RNR-44191	RRU, PJTAU	-	-	Neither
42	RNR-44194	RRU, PJTAU	+	-	*Rf3* only
43	RNR-31622	RRU, PJTAU	+	-	*Rf3* only
44	RNR-44222	RRU, PJTAU	-	-	Neither
45	SN-2744	RRU, PJTAU	+	+	*Rf3* + *Rf4*
46	SN-2754	RRU, PJTAU	+	+	*Rf3* + *Rf4*
47	RNR-44229	RRU, PJTAU	+	-	*Rf3* only
48	RNR-44232	RRU, PJTAU	+	-	*Rf3* only
49	RNR-44233	RRU, PJTAU	+	-	*Rf3* only
50	RNR-44235	RRU, PJTAU	+	-	*Rf3* only
51	SN-2756	RRU, PJTAU	+	+	*Rf3* + *Rf4*
52	RNR-44246	RRU, PJTAU	-	-	Neither
53	RNR-44294	RRU, PJTAU	-	-	Neither
54	RNR-44242	RRU, PJTAU	H	H	Heterozygous
55	RNR-44252	RRU, PJTAU	-	-	Neither
56	RNR-44257	RRU, PJTAU	-	-	Neither
57	RNR-44259	RRU, PJTAU	-	-	Neither
58	RNR-44265	RRU, PJTAU	-	-	Neither
59	RNR-52223	RRU, PJTAU	-	-	Neither
60	RNR-52226	RRU, PJTAU	-	-	Neither
61	RNR-52237	RRU, PJTAU	-	-	Neither
62	RNR-52246	RRU, PJTAU	-	-	Neither
63	RNR-52250	RRU, PJTAU	-	-	Neither
64	RNR-52253	RRU, PJTAU	+	-	*Rf3* only
65	RNR-52137	RRU, PJTAU	-	+	*Rf4* only
66	RNR-52140	RRU, PJTAU	-	-	Neither
67	SN-2769	RRU, PJTAU	+	+	*Rf3* + *Rf4*

Lane	Genotype	Source	*Rf3*	*Rf4*	Marker class
68	SN-2775	RRU, PJTAU	+	+	*Rf3* + *Rf4*
69	RNR-52145	RRU, PJTAU	-	-	Neither
70	RNR-52157	RRU, PJTAU	+	+	*Rf3* + *Rf4*
71	RNR-52197	RRU, PJTAU	-	-	Neither
72	RNR-52200	RRU, PJTAU	-	-	Neither
73	RNR-52240	RRU, PJTAU	+	+	*Rf3* + *Rf4*
74	RNR-52241	RRU, PJTAU	-	-	Neither
75	RNR-52245	RRU, PJTAU	-	-	Neither
76	SN-2784	RRU, PJTAU	+	+	*Rf3* + *Rf4*
77	RNR-52254	RRU, PJTAU	-	-	Neither
78	RNR-52258	RRU, PJTAU	-	+	*Rf4* only
79	RNR-52259	RRU, PJTAU	+	-	*Rf3* only
80	RNR-52261	RRU, PJTAU	-	-	Neither
81	RNR-52270	RRU, PJTAU	-	+	*Rf4* only
82	RNR-52274	RRU, PJTAU	-	+	*Rf4* only
83	CMS-52-B	RRU, PJTAU	-	+	*Rf4* only
84	CMS-59-B	RRU, PJTAU	-	+	*Rf4* only
85	CMS-64-B	RRU, PJTAU	-	-	Neither
86	RMS-1-B	RRU, PJTAU	-	+	*Rf4* only
87	RMS-2-B	RRU, PJTAU	-	-	Neither
88	RMS-7-B	RRU, PJTAU	-	+	*Rf4* only
89	SN-2160	RRU, PJTAU	-	+	*Rf4* only
90	SN-2281	RRU, PJTAU	-	+	*Rf4* only
91	OM-1515 (Super Aman segment)	Biotech Pvt. Ltd.	-	-	Neither
92	Yamuna	Navbharat Seeds Pvt. Ltd.	+	-	*Rf3* only
93	Kanakabhushitha (HMT)	Raithanna Seeds	+	+	*Rf3* + *Rf4*
94	VAPL-666	Vasanth Agri Biotech	-	-	Neither
95	Chandni	Tierra Agrotech Ltd.	+	+	*Rf3* + *Rf4*
96	AMAR-88 (JSR-seg)	Amar Biotech Pvt. Ltd.	+	-	*Rf3* only
97	Annapurna	VNR Seeds Pvt. Ltd.	-	+	*Rf4* only
98	Rudra P-205	Nandi Seeds Pvt. Ltd.	-	-	Neither
99	Poornima	Cropwell Seeds Pvt. Ltd.	-	+	*Rf4* only
100	VAPL-678	Vasanth Agri Biotech	+	+	*Rf3* + *Rf4*

H denotes a heterozygous marker profile