

DNA Fingerprinting of Brinjal VNR- 42

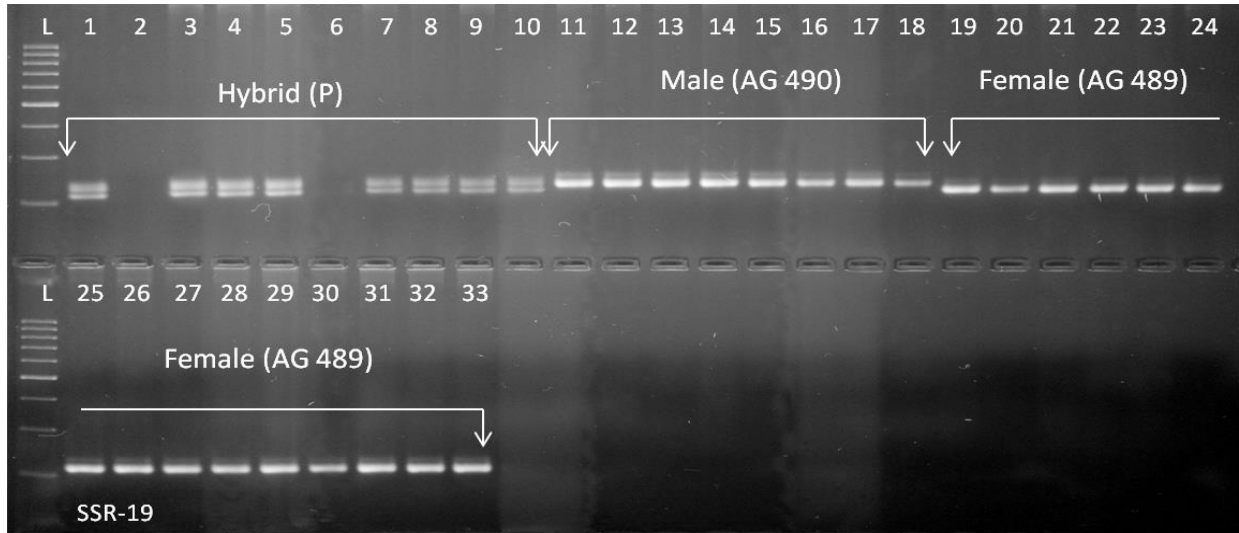
Sr. No.	Marker	Base pair Size			Polymorphism
		Hybrid (P)	Male (AG-490)	Female (AG-489)	
1	Brinjal SSR - 19	210, 230	230	210	√
2	Brinjal SSR - 20	140, 160	160	140	√
3	Brinjal SSR - 44	200, 220, 230	200	220	√
4	Brinjal SSR - 5	250, 300	250, 300	250, 300	X
5	Brinjal SSR - 6	250	250	250	X
6	Brinjal SSR - 10	220	220	220	X
7	Brinjal SSR - 11	180	180	180	X
8	Brinjal SSR - 13	280	280	280	X
9	Brinjal SSR - 16	180	180	180	X
10	Brinjal SSR - 25	310	310	310	X
11	Brinjal SSR - 29	160	160	160	X
12	Brinjal SSR - 33	250, 260	250, 260	250, 260	X
13	Brinjal SSR - 36	180 / 180, 200	180	180/ 200/ 180, 200	X
14	Brinjal SSR - 38	250	250	250	X

Result: 14 SSR Markers were screened for all 33 Brinjal Samples of Mainpat & Ambikapur location out of which 3 Markers such as **SSR – 19, SSR – 20 & SSR – 44** shown good polymorphism & differentiated P1-P10, AG-490 & AG 489 samples.

SSR - 19	Forward Sequences	Reverse Sequences
Primer Sequences	AGTCGTGTAGGTCAAAGCAACTGA	GTTTGTTTCCTGGAGCAGATAGCCATT

PCR products were run in 3% Agarose gel for 2-3 hrs at 120 Volts

Gel Image-1



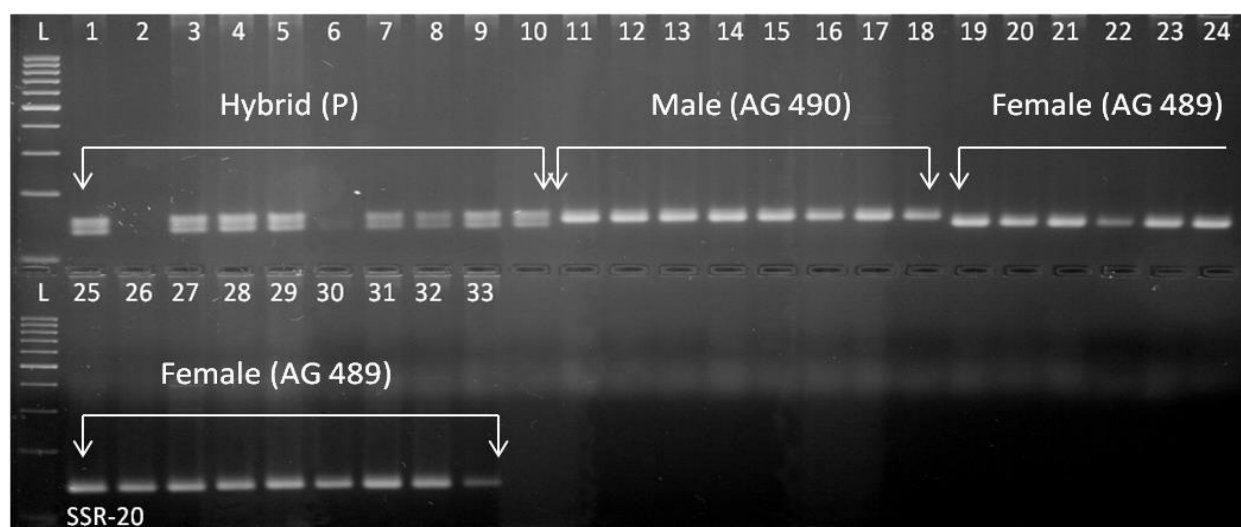
Brinjal SSR - 19		
Sr. No.	Samples Description	Base pair Size (bp)
L	Ladder	100 bp
1	P-1	210, 230
2	P-2	NA
3	P-3	210, 230
4	P-4	210, 230
5	P-5	210, 230
6	P-6	NA
7	P-7	210, 230
8	P-8	210, 230
9	P-9	210, 230
10	P-10	210, 230
11	AG-490 -1P	230
12	AG-490 -2P	230
13	AG-490 -3P	230
14	AG-490 -5P	230
15	AG-490 -6P	230
16	AG-490 -8P	230
17	AG-490 -9P	230

Brinjal SSR - 19		
Sr. No.	Samples Description	Base pair Size (bp)
L	Ladder	100 bp
18	AG-490 -10P	230
19	AG-489 -1P	210
20	AG-489 -4P	210
21	AG-489 -5P	210
22	AG-489 -6P	210
23	AG-489 -7P	210
24	AG-489 -8P	210
25	AG-489 -9P	210
26	AG-489 -10P	210
27	AG-489 -11P	210
28	AG-489 -12P	210
29	AG-489 -13P	210
30	AG-489 -14P	210
31	AG-489 -15P	210
32	AG-489 -16P	210
33	AG-489 -17P	210

SSR – 20	Forward Sequences	Reverse Sequences
Primer Sequences	ACAGGCATCACAAAGCATTATCAG	GTTTCAGAGTGAGCCTCTGCTCC

PCR products are run in 3% Agarose gel for 2-3 hrs at 120 volts

Gel Image-1



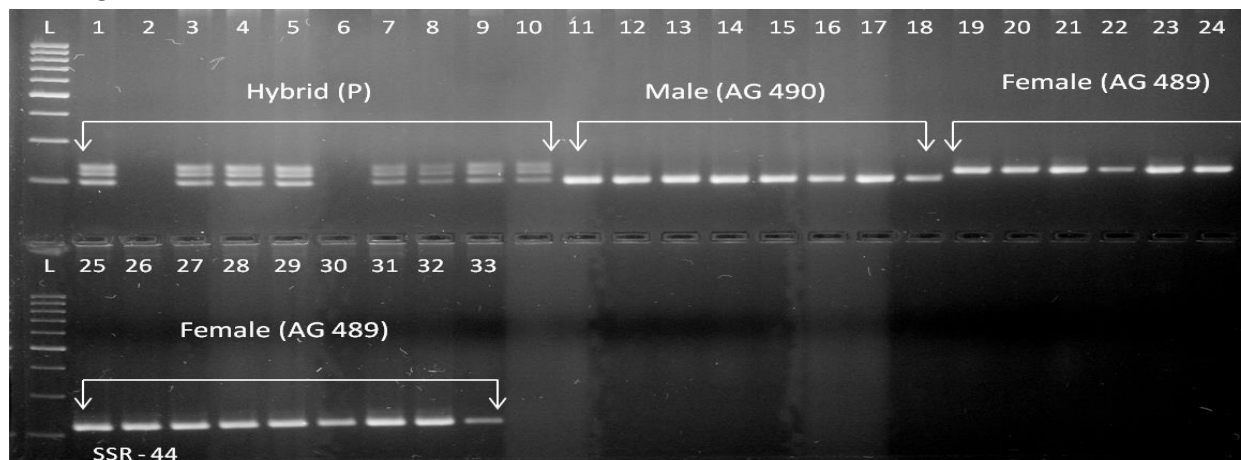
Brinjal SSR – 20		
Sr. No.	Samples Description	Base pair Size (bp)
L	Ladder	100 bp
1	P-1	140, 160
2	P-2	NA
3	P-3	140, 160
4	P-4	140, 160
5	P-5	140, 160
6	P-6	NA
7	P-7	140, 160
8	P-8	140, 160
9	P-9	140, 160
10	P-10	140, 160
11	AG-490 -1P	160
12	AG-490 -2P	160
13	AG-490 -3P	160
14	AG-490 -5P	160
15	AG-490 -6P	160
16	AG-490 -8P	160
17	AG-490 -9P	160

Brinjal SSR – 20		
Sr. No.	Samples Description	Base pair Size (bp)
L	Ladder	100 bp
18	AG-490 -10P	160
19	AG-489 -1P	140
20	AG-489 -4P	140
21	AG-489 -5P	140
22	AG-489 -6P	140
23	AG-489 -7P	140
24	AG-489 -8P	140
25	AG-489 -9P	140
26	AG-489 -10P	140
27	AG-489 -11P	140
28	AG-489 -12P	140
29	AG-489 -13P	140
30	AG-489 -14P	140
31	AG-489 -15P	140
32	AG-489 -16P	140
33	AG-489 -17P	140

SSR - 44	Forward Sequences	Reverse Sequences
Primer Sequences	AGGCGTTCAGCAGAGAAGAAATTA	GTTTGCTTCCTTAAGTGGCATCTGAAA

PCR products were run in 3% Agarose gel for 2-3 hrs at 120 Volts

Gel Image-1



Brinjal SSR - 44		
Sr. No.	Samples Description	Base pair Size (bp)
L	Ladder	100 bp
1	P-1	200, 220, 230
2	P-2	NA
3	P-3	200, 220, 230
4	P-4	200, 220, 230
5	P-5	200, 220, 230
6	P-6	NA
7	P-7	200, 220, 230
8	P-8	200, 220, 230
9	P-9	200, 220, 230
10	P-10	200, 220, 230
11	AG-490 -1P	200
12	AG-490 -2P	200
13	AG-490 -3P	200
14	AG-490 -5P	200
15	AG-490 -6P	200
16	AG-490 -8P	200
17	AG-490 -9P	200

Brinjal SSR - 44		
Sr. No.	Samples Description	Base pair Size (bp)
L	Ladder	100 bp
18	AG-490 -10P	200
19	AG-489 -1P	220
20	AG-489 -4P	220
21	AG-489 -5P	220
22	AG-489 -6P	220
23	AG-489 -7P	220
24	AG-489 -8P	220
25	AG-489 -9P	220
26	AG-489 -10P	220
27	AG-489 -11P	220
28	AG-489 -12P	220
29	AG-489 -13P	220
30	AG-489 -14P	220
31	AG-489 -15P	220
32	AG-489 -16P	220
33	AG-489 -17P	220

