

## DNA Fingerprinting of Pumpkin Hybrid VNR 14-15

**Hybrid - Pumpkin VNR 14-15**

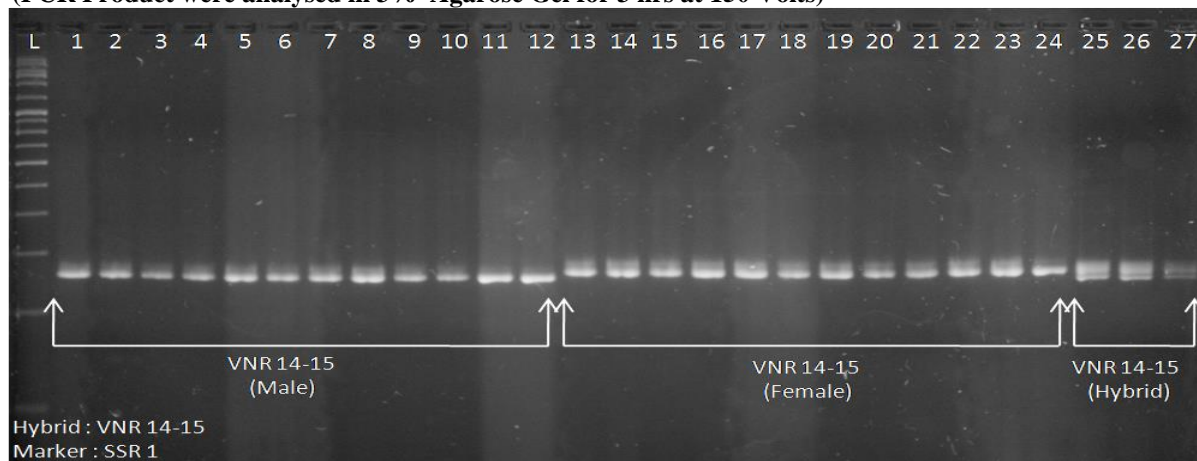
**Marker - SSR 1**

PCR Reaction :		
Components	Final Conc.	Reaction (23 ul)
PCR buffer (10x)	1x	2.0 µl
DNTPs (10mM)	0.1 mM	0.2 µl
Primer (10 µM)	0.25 µM	0.6 µl
Taq Polymerase (3U/ µl)	1.25 U	0.2 µl
Water (DDH <sub>2</sub> O)	-	17.0 µl
DNA Template	-	3.0 µl

PCR Program :			
Steps	Temp.	Time	Cycles
Initial Denaturation	94 °C	4 Min.	1
Denaturation	94 °C	50 Sec.	30
Annealing	56 °C	50 Sec.	
Extension	72 °C	1 Min.	
Final Extension	72 °C	10 Min.	1
End	4 °C	∞	1

### Gel Image-1

(PCR Product were analysed in 3% Agarose Gel for 3 hrs at 150 Volts)



Sr. No.	Samples Description	Marker - SSR 1 (bp Size)
L	Ladder	100 bp
1	VNR 14-15 (Male)	270
2	VNR 14-15 (Male)	270
3	VNR 14-15 (Male)	270
4	VNR 14-15 (Male)	270
5	VNR 14-15 (Male)	270
6	VNR 14-15 (Male)	270
7	VNR 14-15 (Male)	270
8	VNR 14-15 (Male)	270
9	VNR 14-15 (Male)	270
10	VNR 14-15 (Male)	270
11	VNR 14-15 (Male)	270
12	VNR 14-15 (Male)	270
13	VNR 14-15 (Female)	280

Sr. No.	Samples Description	Marker - SSR 1 (bp Size)
14	VNR 14-15 (Female)	280
15	VNR 14-15 (Female)	280
16	VNR 14-15 (Female)	280
17	VNR 14-15 (Female)	280
18	VNR 14-15 (Female)	280
19	VNR 14-15 (Female)	280
20	VNR 14-15 (Female)	280
21	VNR 14-15 (Female)	280
22	VNR 14-15 (Female)	280
23	VNR 14-15 (Female)	280
24	VNR 14-15 (Female)	280
25	VNR 14-15 (Hybrid)	270, 280
26	VNR 14-15 (Hybrid)	270, 280
27	VNR 14-15 (Hybrid)	270, 280

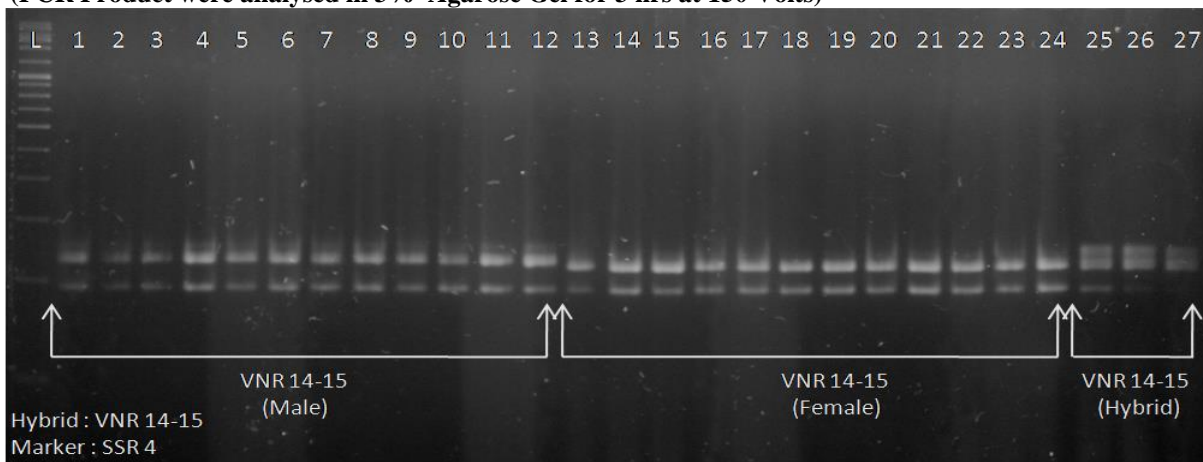
**Hybrid - Pumpkin VNR 14-15  
Marker - SSR 4**

PCR Reaction :		
Components	Final Conc.	Reaction (23 µl)
PCR buffer (10x)	1x	2.0 µl
DNTPs (10mM)	0.1 mM	0.2 µl
Primer (10 µM)	0.25 µM	0.6 µl
Taq Polymerase (3U/ µl)	1.25 U	0.2 µl
Water (DDH <sub>2</sub> O)	-	17.0 µl
DNA Template	-	3.0 µl

PCR Program :			
Steps	Temp.	Time	Cycles
Initial Denaturation	94 °C	4 Min.	1
Denaturation	94 °C	50 Sec.	30
Annealing	56 °C	50 Sec.	
Extension	72 °C	1 Min.	
Final Extension	72 °C	10 Min.	1
End	4 °C	∞	1

**Gel Image-2**

(PCR Product were analysed in 3% Agarose Gel for 3 hrs at 150 Volts)



VNR 14-15		
Sr. No.	Samples Description	Marker - SSR 4 (bp Size)
L	Ladder	100 bp
1	VNR 14-15 (Male)	190, 240
2	VNR 14-15 (Male)	190, 240
3	VNR 14-15 (Male)	190, 240
4	VNR 14-15 (Male)	190, 240
5	VNR 14-15 (Male)	190, 240
6	VNR 14-15 (Male)	190, 240
7	VNR 14-15 (Male)	190, 240
8	VNR 14-15 (Male)	190, 240
9	VNR 14-15 (Male)	190, 240
10	VNR 14-15 (Male)	190, 240
11	VNR 14-15 (Male)	190, 240
12	VNR 14-15 (Male)	190, 240
13	VNR 14-15 (Female)	190, 230

VNR 14-15		
Sr. No.	Samples Description	Marker - SSR 4 (bp Size)
14	VNR 14-15 (Female)	190, 230
15	VNR 14-15 (Female)	190, 230
16	VNR 14-15 (Female)	190, 230
17	VNR 14-15 (Female)	190, 230
18	VNR 14-15 (Female)	190, 230
19	VNR 14-15 (Female)	190, 230
20	VNR 14-15 (Female)	190, 230
21	VNR 14-15 (Female)	190, 230
22	VNR 14-15 (Female)	190, 230
23	VNR 14-15 (Female)	190, 230
24	VNR 14-15 (Female)	190, 230
25	VNR 14-15 (Hybrid)	190, 230, 240, 260
26	VNR 14-15 (Hybrid)	190, 230, 240, 260
27	VNR 14-15 (Hybrid)	190, 230, 240, 260

**Report :** Pumpkin VNR 14-15 Parent & hybrid samples were screened with 40 SSR Markers, out of which only 2 markers (SSR-1 & SSR-4) shown polymorphism. Remaining Some Markers shown Monomorphism & some didn't work with VNR 14-15 Hybrid.