A *. The number of SNPs / transversion (tv) SNPs for VARV-TATV-CMLV cSNPs of selected isolates (representative of each sub-clades).

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	SFA65_102	–															
2	SOM77_ali	54 / 2	–														
3	SUD47_jub	23 / 3	41 / 3	–													
4	CNG70_46	36 / 2	60 / 2	29 / 3	–												
5	ETH72_16	43 / 2	43 / 2	30 / 3	49 / 2	–											
6	BSH75_banu	52 / 4	76 / 4	45 / 5	58 / 4	65 / 4	–										
7	IND53_mad	40 / 4	64 / 4	33 / 5	46 / 4	53 / 4	42 / 6	–									
8	SUM72_222	56 / 6	78 / 6	49 / 7	62 / 6	69 / 6	58 / 8	38 / 4	–								
9	IRN72_tbrz	60 / 5	82 / 5	53 / 6	66 / 5	73 / 5	62 / 7	42 / 3	52 / 3	–							
10	JAP46_yam	60 / 6	84 / 6	53 / 7	64 / 6	73 / 6	62 / 8	42 / 4	52 / 4	56 / 3	–						
11	CHN48_horn	67 / 8	91 / 8	60 / 9	73 / 8	80 / 8	69 / 10	49 / 6	59 / 6	63 / 5	49 / 6	–					
12	BEN68_59	255 / 31	279 / 31	248 / 32	261 / 31	268 / 31	255 / 33	237 / 29	245 / 29	251 / 28	237 / 29	242 / 31	–				
13	NIG69_001	259 / 28	281 / 28	252 / 29	265 / 28	272 / 28	259 / 30	241 / 26	247 / 26	255 / 25	241 / 26	246 / 28	42 / 3	–			
14	BRZ66_39	257 / 31	281 / 31	250 / 32	263 / 31	270 / 31	257 / 33	239 / 29	247 / 29	253 / 28	239 / 29	244 / 31	140 / 22	142 / 19	–		
15	CML70_cms	1548/ 348	1566/ 348	1539/ 249	1549/ 348	1557/ 348	1546/ 350	1528/ 346	1533/ 346	1542/ 345	1524/ 346	1532/ 346	1554/ 355	1560/ 352	1556/ 355	–	
16	TAT68_dah	1286/ 243	1309/ 243	1279/ 244	1291/ 243	1297/ 243	1286/ 245	1268/ 241	1275/ 241	1282/ 240	1266/ 241	1275/ 243	1299/ 248	1301/ 245	1296/ 248	840/ 317	–

*The numbers of SNPs / tv SNPs were generated from VARV-TATV-CMLV cSNPs (SI Fig. 9) using PAUP program(8).

B†. The number of SNPs / transversion (tv) SNPs for VARV cSNPs of selected isolates (representative of each sub-clades).

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	BOT72_143	–																	
2	SFA65_102	23 / 3	–																
3	SOM77_ali	112 / 12	99 / 9	–															
4	TAN65_kem	75 / 8	60 / 5	105 / 10	–														
5	SUD47_jub	54 / 8	39 / 5	74 / 8	47 / 6	–													
6	CNG70_46	89 / 7	74 / 4	117 / 9	30 / 1	61 / 5	–												
7	ETH72_16	85 / 10	72 / 7	79 / 8	78 / 8	47 / 6	92 / 7	–											
8	BSH75_banu	103 / 12	88 / 9	135 / 14	96 / 10	75 / 10	108 / 9	108 / 12	–										
9	IND53_mad	75 / 10	60 / 7	107 / 12	68 / 8	47 / 8	80 / 7	80 / 10	70 / 10	–									
10	SUM72_222	113 / 12	98 / 9	143 / 14	106 / 10	85 / 10	118 / 9	118 / 12	108 / 12	68 / 6	–								
11	KUW67_1629	114 / 13	99 / 10	144 / 15	107 / 11	85 / 11	117 / 10	119 / 13	109 / 13	71 / 7	99 / 7	–							
12	JAP46_yam	118 / 13	103 / 10	150 / 15	111 / 11	90 / 11	121 / 10	123 / 13	113 / 13	75 / 7	103 / 7	102 / 8	–						
13	KOR47_lee	112 / 15	107 / 12	154 / 17	113 / 13	94 / 13	125 / 12	127 / 15	117 / 15	79 / 9	107 / 9	106 / 10	78 / 8	–					
14	CHN48_horn	132 / 21	117 / 18	164 / 23	125 / 19	104 / 19	137 / 18	137 / 21	127 / 21	89 / 15	117 / 15	116 / 16	90 / 14	94 / 16	–				
15	SLN68_258	460 / 66	447 / 63	490 / 68	455 / 64	434 / 64	467 / 63	465 / 66	457 / 66	421 / 60	449 / 60	448 / 61	418 / 59	423 / 61	434 / 67	–			
16	NIG69_001	466 / 63	453 / 60	496 / 65	461 / 61	440 / 61	473 / 60	471 / 63	463 / 63	427 / 57	453 / 57	452 / 58	426 / 56	433 / 58	442 / 64	78 / 9	–		
17	UNK52_but	445 / 63	432 / 60	479 / 65	440 / 61	419 / 61	452 / 60	450 / 63	442 / 63	406 / 57	432 / 57	433 / 58	403 / 56	408 / 58	419 / 64	231 / 37	241 / 34	–	
18	BRZ66_39	462 / 64	449 / 61	496 / 66	457 / 62	436 / 62	469 / 61	467 / 64	459 / 64	423 / 58	449 / 58	450 / 59	420 / 57	423 / 59	436 / 65	246 / 38	256 / 35	25 / 1	–

†The number of SNPs / tv SNPs were generated from VARV cSNPs (SI Fig. 8) using PAUP program.